PROJECT

NEW DIGI SHIP

ERASMUS+

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E-book

Mentoring and support for young people starting digital entrepreneurship

START ▶

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Explore now all the contents of this e-book!

PROJECT ERASMUS
NEW DIGI SHIP.

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Module 1: Why should we be Digital Entrepreneurs?

Mentoring and support for young people starting digital entrepreneurship handbook module

START

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Explore now all the contents of this module!

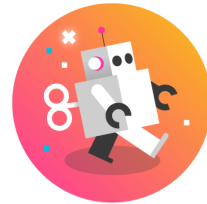1. Presentation of the module

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4. The Basics of Digital Entrepreneurship

5. Benefits and Risks of becoming a Digital Entrepreneur

6. Development of Entrepreneurial Traits

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1. Presentation of the module

Welcome to the Module "Why should we be Digital Entrepreneurs?", as to the initial introduction into the extended and highly present topic of the digital entrepreneurship, the positioning in the global entrepreneurial world and the advantages it brings along. Becoming a digital entrepreneur offers numerous advantages and opportunities in today's fast-paced and interconnected world. Being a digital entrepreneur presents a compelling proposition for those seeking independence, scalability, and the opportunity to make a difference in a technology-driven world. By leveraging the digital space, aspiring entrepreneurs can unlock their potential, reach a broader audience, and achieve success while fostering innovation and creativity along the way. The more in-sight will be provided in the following pages. Let's start!

2. Learning outcomes

- To have an overall understanding of basic concepts of digital entrepreneurship
- To have an ability to identify digital opportunities
- To grow in an Entrepreneurial Mindset and Self Motivation
- To weigh the advantages and disadvantages of Digital Entrepreneurship playing into their career path
- To understand the guide and proposed ideas on how to support the Entrepreneurship in the Digital space financially

3. What is Digital Entrepreneurship?

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3.1. Digital Entrepreneurship - Introduction
3.2. Key aspects of Digital Entrepreneurship
3.3. Examples of Digital Entrepreneurship

INTODUCTORY VIDEO: Get out of your comfort zone!

3.1 Digital Entrepreneurship - Introduction

What is Digital Entrepreneurship?

Digital entrepreneurship refers to the process of creating, managing, and scaling a business venture primarily in the digital realm. It involves using technology, the internet, and digital tools to start and grow a business, often with a focus on reaching a global audience and utilizing innovative methods.

**Digital entrepreneurship** is the process of creating, launching, and running a business in the digital world. It involves using digital technologies to develop new products or services, market them, and sell them to customers. Digital entrepreneurs use a variety of tools, including social media, e-commerce platforms, search engine optimization, and mobile apps, to build and grow their businesses.

3.1 Digital Entrepreneurship - Introduction

The statistics show that there is an opportunity to get a hold of what's known as the "**digital gold rush**."

- Digital marketing is expected to reach $786 billion by 2026. This growth has been added by the rapid adoption of online business and the pandemic's impact. Customers now expect a digital element in every business.
- That's especially true in retail. In the second quarter of 2022, ecommerce accounted for 14.5% of total retail. Plus, this number is rapidly increasing, showing a 7.4% increase year-over-year.
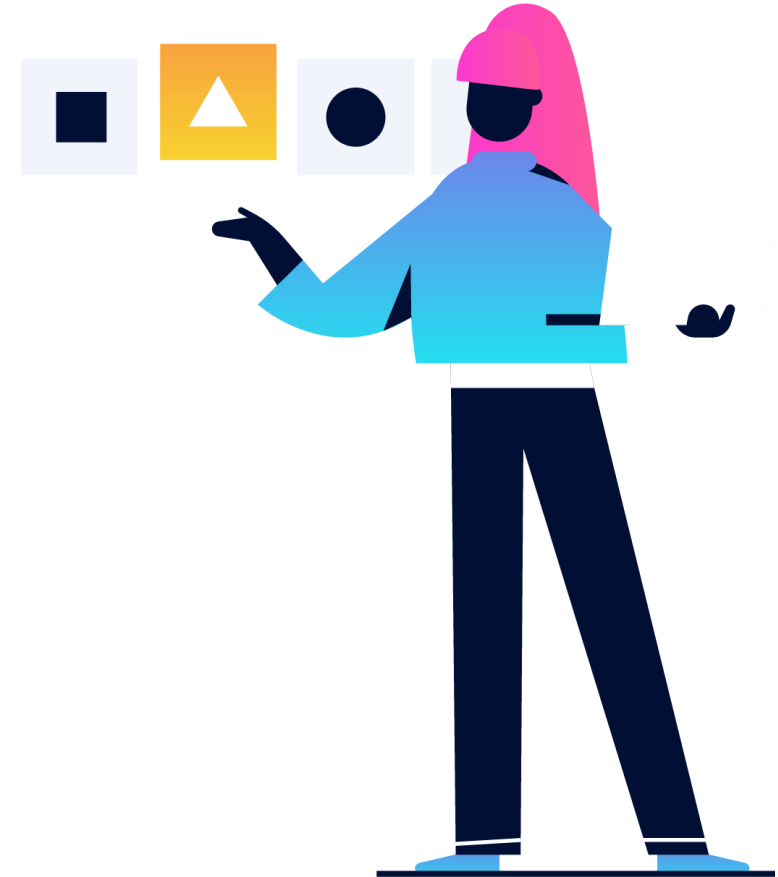
3.2 Key aspects of Digital Entrepreneurship

1. Online presence
2. E-commerce
3. Virtual Products and Services
4. Digital Marketing
5. Remote Work and Collaboration
6. Data Analytics
7. Scalability
8. Innovation and Disruption
9. Flexibility and Agility

3.2 Key aspects of Digital Entrepreneurship

1. **Online Presence**: Digital entrepreneurs build their businesses on the internet, establishing an online presence through websites, social media platforms, and other digital channels.
2. **E-commerce:** Many digital entrepreneurs engage in e-commerce, selling products or services online, leveraging online marketplaces, or setting up their online stores.
3. **Virtual Products and Services:** Digital entrepreneurs often offer virtual products such as e-books, online courses, software, or digital artwork, which can be distributed electronically.
4. **Digital Marketing:** As digital businesses operate online, marketing efforts heavily rely on digital marketing strategies like social media marketing, search engine optimization (SEO), email marketing, content marketing, and online advertising.
5. **Remote Work and Collaboration:** Digital entrepreneurship often allows for remote work arrangements, enabling entrepreneurs to collaborate with a geographically diverse team or service providers.

3.2 Key aspects of Digital Entrepreneurship

6. Data Analytics: Digital entrepreneurs use data analytics to understand customer behavior, identify trends, and make data-driven decisions to optimize their business operations.

7. Scalability: Digital businesses can often scale more efficiently compared to traditional brick-and-mortar businesses due to the global accessibility and automation possibilities offered by digital platforms.

8. Innovation and Disruption: Digital entrepreneurship has the potential to disrupt traditional industries and create new business models and opportunities through innovative use of technology.

9. Flexibility and Agility: Digital entrepreneurs can adapt quickly to changing market demands and trends, adjusting their business strategies accordingly.

3.3 Examples of Digital Entrepreneurship

1. Netflix
2. Spotify
3. Amazon
4. Google
5. Facebook
6. Airbnb
7. Pinterest
8. Zoom
9. Zalando,....
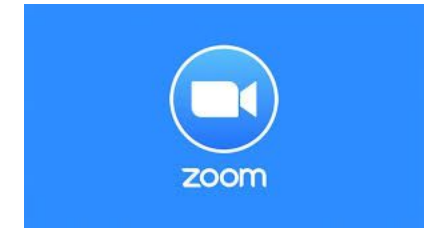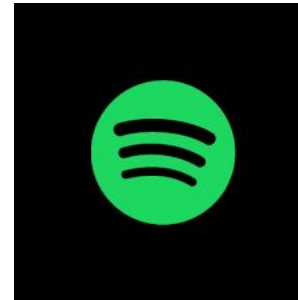
Note: All categories with more details will be explained in following modules.

4. The Basics of Digital Entrepreneurship

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- 4.1 The Components of Digital Business
- 4.2 Effective Tools in Digital Entrepreneurship
- 4.3 Ideas for the Digital Entrepreneurship

4.1 The Components of Digital Business

To **digitize a business**, there are some essential components that the business should possess.

1 . Artificial Intelligence

Artificial Intelligence - **AI**. It is considered one of the most efficient methods in digital businesses. It helps the organizations anticipate customers' desires, faster forecasting outputs, etc. It can detect what is happening and calculate the reasons for it. It also provides the most appropriate solutions for any problem that occurs.

4.1 The Components of Digital Business

- **2. Internet of Things**

Another name for the Internet of Things is IoT. It can help develop smart products. Also, the arrival of 5G internet will help businesses reach their goals faster. It will also help increase the productivity of the processes.

- **3. Digital Engineering**

This technology plays a vital role in transforming customers' journeys. It also enables rapid innovation, which will help launch new brands and technologies.

4.2 Effective Tools in Digital Entrepreneurship

Digital tools are online platforms or software applications leveraged by businesses or individuals to perform quick and optimised functions that ordinarily takes extremely long time to process.

Digital tools used in entrepreneurial space embrace all new ventures and the transformation of existing businesses that drive economic and/or social value by creating and using novel digital technologies. Digital enterprises are characterized by a high intensity of utilization of **novel digital technologies** (particularly social, big data, mobile and cloud solutions) to improve business operations, invent new business models, sharpen business intelligence, and engage with customers and stakeholders.

4.2 Effective Tools in Digital Entrepreneurship

Types of digital entrepreneurial tools:

1. **Social Media**
2. **E- commerce Platforms**
3. **Search Engine Optimisation**
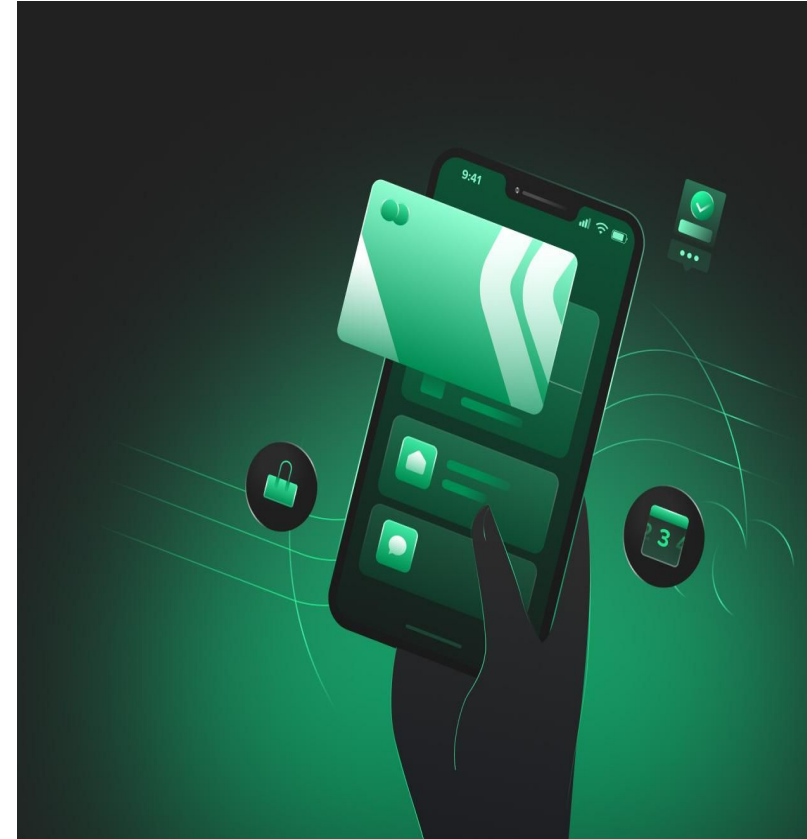
4.2 Effective Tools in Digital Entrepreneurship

1. Social Media:

Social media is a collective term for websites and applications that focus on **communication**, **community-based input, interaction, content-sharing** and **collaboration**.

Social media is known to have so many functions, one of which allows people to identify work, when an individual puts who he or she is into a profile, it requires some kind of reflection and as individuals, user see this reaction to their online social presence, they will consider themselves in new light and notice that online interaction allows them to feel more open about thoughts, opinions, and inquiries both for better and for worse. Social media offers chances to achieve target clients and produce new ideas for beginning a business.

4.2 Effective Tools in Digital Entrepreneurship

10 Most Popular Digital Wallets in 2023

1. Facebook
2. Instagram
3. Twitter
4. Whatsapp
5. TikTok
6. LinkedIn
7. Reddit
8. Discord
9. Pinterest
10. Telegram

4.2 Effective Tools in Digital Entrepreneurship

Tip!

Practical Tips for Social Media Marketing and Business Models:

1. Create a content calendar and schedule content in advance.
2. Devote time to community management.
3. Keep abreast of trends.
4. Use social media to boost sales.
5. Consider boosting your posts with paid ad.
6. Measure and analyze your results.
7. Experiment!
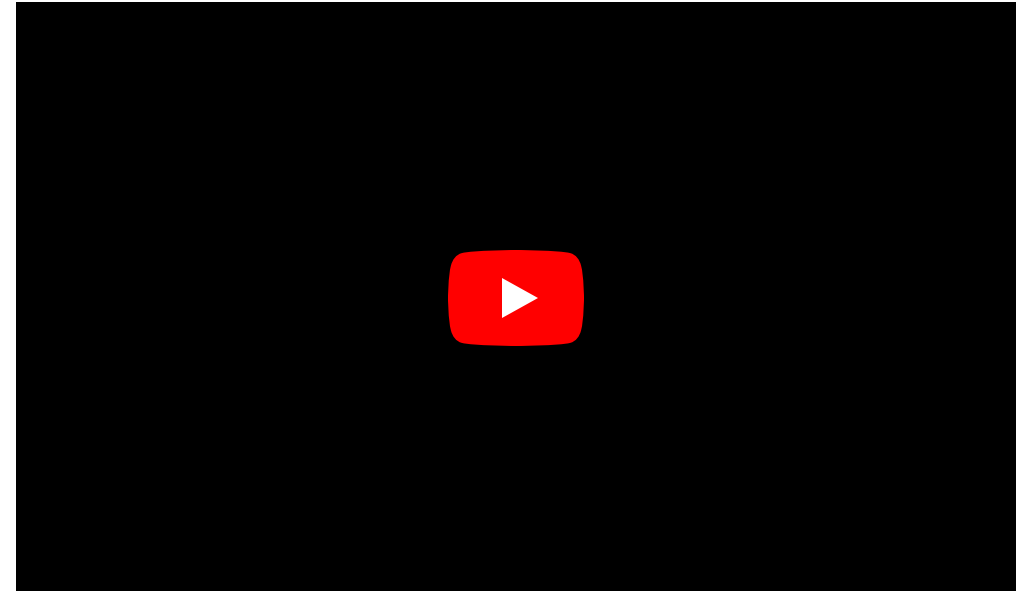
4.2 Effective Tools in Digital Entrepreneurship

Electronic commerce (e-commerce) refers to companies and individuals that buy and sell goods and services over the internet. E-commerce operates in different types of market segments and can be conducted over computers, tablets, smartphones, and other smart devices.

Nearly every imaginable available **product** and **service** is available through e-commerce transactions, including books, music, plane tickets, and financial services such as stock investing and online banking. As such, it is considered a very **disruptive technology**.

4.2 Effective Tools in Digital Entrepreneurship

KEY TAKEAWAYS

- E-commerce is the buying and selling of goods and services over the internet.
- It is conducted over computers, tablets, smartphones, and other smart devices.
- It can be a substitute for brick-and-mortar stores, though some businesses choose to maintain both.
- E-commerce operates in several market segments including business-to-business, business-to-consumer, consumer-to-consumer, and consumer-to-business.

4.2 Effective Tools in Digital Entrepreneurship

ADVANTAGES:

- **Convenience**: E-commerce can occur 24 hours a day, seven days a week. Although eCommerce may take a lot of work, it is still possible to generate sales as you sleep or earn revenue while you are away from your store.
- **Increased Selection**: Many stores offer a wider array of products online than they carry in their brick-and-mortar counterparts. And many stores that solely exist online may offer consumers exclusive inventory that is unavailable elsewhere.
- **Potentially Lower Start-up Cost**: E-commerce companies may require a warehouse or manufacturing site, but they usually don't need a physical storefront. The cost to operate digitally is often less expensive than needing to pay rent, insurance, building maintenance, and property taxes.
- **International Sales**: As long as an e-commerce store can ship to the customer, an e-commerce company can sell to anyone in the world and isn't limited by physical geography.
- **Easier to Retarget Customers**: As customers browse a digital storefront, it is easier to entice their attention towards placed advertisements, directed marketing campaigns, or pop-ups specifically aimed at a purpose.

4.2 Effective Tools in Digital Entrepreneurship

DISADVANTAGES:

- **Limited Customer Service**: If you shop online for a computer, you cannot simply ask an employee to demonstrate a particular model's features in person. And although some websites let you chat online with a staff member, this is not a typical practice.
- **Lack of Instant Gratification**: When you buy an item online, you must wait for it to be shipped to your home or office. However, e-tailers like Amazon make the waiting game a little bit less painful by offering same-day delivery as a premium option for select products.
- **Inability to Touch Products**: Online images do not necessarily convey the whole story about an item, and so e-commerce purchases can be unsatisfying when the products received do not match consumer expectations. Case in point: an item of clothing may be made from shoddier fabric than its online image indicates.
- **Reliance on Technology:** If your website crashes, garners an overwhelming amount of traffic, or must be temporarily taken down for any reason, your business is effectively closed until the e-commerce storefront is back.
- **Higher Competition**: E-commerce companies must have mindful marketing strategies and remain diligent on SEO optimization to ensure they maintain a digital presence.

4.2 Effective Tools in Digital Entrepreneurship

Types of E-commerce:

- **Business-to-Consumer (B2C)**
- **Business-to-Business (B2B)**
- **Business-to-Government (B2G)**
- **Consumer-to-Consumer (C2C)**
- **Consumer-to-Business (C2B)**
- **Consumer-to-Government (C2G)**

4.2 Effective Tools in Digital Entrepreneurship

Types of E-commerce:

Business-to-Consumer (B2C)

- B2C e-commerce companies sell directly to the product end-user. Instead of distributing goods to an intermediary, a B2C company performs transactions with the **consumer** that will ultimately use the good.
- This type of business model may be used to sell products (like your local sporting goods store's website) or services (such as a lawn care mobile app to reserve landscaping services).

4.2 Effective Tools in Digital Entrepreneurship

Types of E-commerce:

Business-to-Business (B2B)

Similar to B2C, an **e-commerce business** can directly sell goods to a user. However, instead of being a consumer, that user may be another company. B2B transactions often entail larger quantities, greater specifications, and longer lead times. The company placing the order may also have a need to set recurring goods if the purchase is for recurring manufacturing processes.

4.2 Effective Tools in Digital Entrepreneurship

Types of E-commerce:

Business-to-Government (B2G)

- Some entities specialize as **government contractors** providing goods or services to agencies or administrations. Similar to a B2B relationship, the business produces items of value and remits those items to an entity.
- B2G e-commerce companies must often meet government requests for proposal requirements, solicit bids for projects, and meet very specific product or service criteria. In addition, there may be joint government endeavors to solicit a single contract through a government endeavors to solicit a single contract through a government-wide acquisition contract.

4.2 Effective Tools in Digital Entrepreneurship

Types of E-commerce:

Consumer to consumer (C2C)

- Established companies are the only entities that can sell things. E-commerce platforms such as **digital marketplaces** connect consumers with other consumers who can list their own products and execute their own sales.
- These C2C platforms may be auction-style listings (i.e. eBay auctions) or may warrant further discussion regarding the item or service being provided (i.e. Craigslist postings). Enabled by technology, C2C e-commerce platforms empower consumers to both buy and sell without the need for companies.

4.2 Effective Tools in Digital Entrepreneurship

Types of E-commerce:

Consumer-to-Business (C2B)

- Modern platforms have allowed consumers to more easily engage with companies and offer their services, especially related to short-term contracts, gigs, or freelance opportunities. For example, consider listings on Upwork.
- A consumer may solicit bids or interact with companies that need particular jobs done. In this way, the e-commerce platform connects businesses with freelancers to enable consumers greater power to achieve pricing, scheduling, and employment demands.

Consumer-to-Government (C2G)

- Less of a traditional e-commerce relationship, consumers can interact with administrations, agencies, or governments through C2G partnerships. These partnerships are often not in the exchange of service but rather, the transaction of obligation.

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4.2 Effective Tools in Digital Entrepreneurship

Types of E-commerce Revenue Models:

- **Dropshipping**
- **White Labeling**
- **Wholesaling**
- **Private Labeling**
- **Subscription**

4.2 Effective Tools in Digital Entrepreneurship

Dropshipping

- Often considered one of the easier forms of e-commerce, dropshipping allows a company to create a digital storefront, generate sales, then rely on a supplier to provide the good. When generating the sale, the e-commerce company collects payment via credit card, PayPal, cryptocurrency, or other means of digital currency.

White Labeling

- White-label e-commerce companies leverage already successful products sold by another company. After a customer places an order, the e-commerce company receives the existing product, repackages the product with its own package and label, and distributes the product to the customer. Although the e-commerce company has little to no say in the product they receive, the company usually faces little to no in-house manufacturing constraints.

4.2 Effective Tools in Digital Entrepreneurship

Wholesaling

- A more capital-intensive approach to e-commerce, wholesaling, entails maintaining quantities of inventory, keeping track of customer orders, maintaining customer shipping information, and typically having ownership of the warehouse space to house products. Wholesalers may charge bulk pricing to retailers or unit prices for consumers. However, the broad approach to wholesaling is to connect to buyers of large quantities or many smaller buyers of a similar, standardized product.

White Labeling

- White-label e-commerce companies leverage already successful products sold by another company. After a customer places an order, the e-commerce company receives the existing product, repackages the product with its own package and label, and distributes the product to the customer. Although the e-commerce company has little to no say in the product they receive, the company usually faces little to no in-house manufacturing constraints.

4.2 Effective Tools in Digital Entrepreneurship

Private Labeling

- Private labeling is a more appropriate e-commerce approach for companies that may not have large upfront capital or do not have their own factory space to manufacture goods. Private label e-commerce companies send plans to a contracted manufacturer who makes the product. The manufacturer may also have the ability to ship directly to a customer or ship directly to the company receiving the order. This method of e-commerce is best suited for companies that may receive on-demand orders with short turnaround times but are unable to handle the capital expenditure requirements.

Subscription

- E-commerce companies can also leverage repeating orders or loyal customers by implementing subscription services. For a fixed price, the e-commerce company will assemble a package, introduce new products, and incentivize locking to a long-term agreement at a lower monthly price. The consumer only places an order once and receives their subscription order at a fixed cadence. Common subscription e-commerce products include meal prep services, agriculture boxes, fashion boxes, or health and grooming products.

4.3 Search Engine Optimisation

SEO stands for "search engine optimization." In simple terms, SEO means the process of improving your website to increase its visibility in Google, Ask or Bing and other search engines whenever people search for:

- **Products you sell**
- **Services you provide**
- **Information on topics in which you have deep expertise and/or experience**

The better visibility your pages have in search results, the more likely you are to be found and clicked on. Ultimately, the goal of search engine optimization is to help attract website visitors who will become customers, clients or an audience that keeps coming back.

4.3 Search Engine Optimisation

SEO is the foundation of holistic marketing, where everything your company does matters. Once you understand what your users want, you can then implement that knowledge across your:

- Campaigns (paid and organic)
- Website content
- Social media properties

4.3 Search Engine Optimisation

Types of SEO

There are three types of SEO:

- **Technical SEO**: Optimizing the technical aspects of a website.
- **On-site SEO**: Optimizing the content on a website for users and search engines.
- **Off-site SEO**: Creating brand assets (e.g., people, marks, values, vision, slogans, catchphrases, colors) and doing things that will ultimately enhance brand awareness and recognition (i.e., demonstrating and growing its expertise, authority and trustworthiness) and demand generation.

5. Benefits and Risks of becoming a Digital Entrepreneur

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- 5.1 Benefits of Digital Entrepreneurship
- 5.2 Challenges and Risks of Digital Entrepreneurship

- **5.1 Benefits of Digital Entrepreneurship**

Benefits:

1. Global Reach
2. Lower Startup Costs
3. Flexibility
4. Scalability
5. Innovation and Creativity

6. Access to Data and Analytics

7. Lower Barriers to Entry

8. Collaborative System

9. Constant Progress and Innovation

10. Impact and Influence

5.1 Benefits of Digital Entrepreneurship

1. **Global Reach**: The internet has broken down geographical barriers, allowing digital entrepreneurs to reach a vast audience worldwide. This global reach opens up a massive market and customer base that traditional brick-and-mortar businesses often struggle to tap into.
2. **Lower Startup Costs**: Digital businesses generally require lower initial investments compared to traditional ventures. Many digital entrepreneurs can start with minimal funds, as online platforms and tools often provide cost-effective solutions for marketing, operations, and customer engagement.
3. **Flexibility and Freedom**: Digital entrepreneurship offers the freedom to work from anywhere with an internet connection. This flexibility allows entrepreneurs to design their schedules, balance personal and professional life, and create a lifestyle that aligns with their preferences.
4. **Scalability:** Digital products and services have the advantage of easy scalability. Once the initial groundwork is set, expanding operations and serving a larger customer base can be achieved relatively quickly without significant overhead costs.
5. **Innovation and Creativity**: The digital landscape is a breeding ground for innovative ideas and creative solutions. Entrepreneurs can continuously experiment, iterate, and adapt their offerings to meet evolving customer demands and market trends.

5.1 Benefits of Digital Entrepreneurship

1. **Lower Barriers to Entry**: The digital arena is relatively inclusive, providing opportunities for entrepreneurs from diverse backgrounds and skill sets. As long as one has the right idea, determination, and a willingness to learn, they can break into the digital space.
2. **Collaborative Ecosystem**: The digital entrepreneurial community is rich with networking opportunities, mentorship programs, and collaborative environments. Connecting with like-minded individuals and industry experts can accelerate growth and learning.
3. **Constant Innovation:** The digital landscape is ever-changing, prompting entrepreneurs to stay adaptive and innovative. Embracing technology and staying updated on trends ensures relevance and competitiveness in the market.
4. **Impact and Influence**: Digital entrepreneurship offers a platform to create meaningful impacts on a global scale. Entrepreneurs can contribute to solving societal challenges, promote sustainability, and drive positive change through their products or services.
5. **Access to Data and Analytics**: Digital businesses have access to vast amounts of data and analytics that can provide valuable insights into customer behavior, preferences, and market trends. This data-driven approach allows for informed decision-making and improved strategies.

5.2 Challenges and Risks of Digital Entrepreneurship

Risks and Challenges:

1. Finances
2. Market
3. Technology
4. Intellectual Property
5. Legality and Compliance

6. Cybersecurity

7. Dependance on Third-Party Platform

8. Scalability Challenges

9. Work-Life Balance

10. Market Acceptance and Customer Acquisition

5.1 Challenges and risks of Digital Entrepreneurship

1. **Financial Risk:** Starting and running a digital business often requires significant upfront investment. There may be costs associated with website development, software, marketing, and other essential tools. Additionally, it may take time before your business generates enough revenue to cover expenses or turn a profit.
2. **Market Risk**: The digital landscape is highly competitive, and markets can change rapidly. Your business idea may face stiff competition from established players or other startups. Identifying a sustainable and profitable niche can be challenging.
3. **Technology Risk**: Digital businesses rely heavily on technology, and technical issues can arise unexpectedly. This includes website downtime, cybersecurity threats, data breaches, and software bugs. Such issues can lead to lost sales, damaged reputation, and potential legal consequences.
4. **Intellectual Property Risk:** Protecting your digital assets, such as unique content, software, or brand identity, is crucial. Without adequate protection, there's a risk of intellectual property theft or infringement by competitors, which could harm your business's growth and reputation.
5. **Legal and Compliance Risk**: Digital businesses must comply with various legal requirements, including data protection laws, consumer protection laws, and tax regulations. Failure to adhere to these laws can lead to fines, penalties, and legal liabilities.

5.2 Challenges and Risks of Digital Entrepreneurship

6. Cybersecurity Risk: As a digital entrepreneur, your business may be susceptible to cyberattacks, data breaches, and online fraud. Safeguarding customer data and ensuring strong cybersecurity measures is essential to protect your business and maintain customer trust.

7. Dependence on Third-Party Platforms: Many digital entrepreneurs rely on third-party platforms such as social media, e-commerce marketplaces, or advertising networks for marketing and sales. However, changes in policies or algorithms of these platforms could significantly impact your business's visibility and revenue.

8. Scalability Challenges: While digital businesses can scale quickly, rapid growth can also pose challenges in terms of managing resources, infrastructure, and customer support.

9. Work-Life Balance: As an entrepreneur, especially in the digital space, it can be challenging to separate work from personal life. The pressure to be constantly available and the lack of traditional work hours can lead to burnout and strained relationships.

10. Market Acceptance and Customer Acquisition: Convincing customers to trust and purchase from a new digital business can be difficult. Building a customer base and gaining their trust can take time and concerted marketing efforts.

6. Development of Entrepreneurial Traits

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6.1 Opportunities on the Market

Many digital businesses start online (and remain online) with 100 percent of their operations existing in a digital space. Online-only digital businesses often have low startup costs and can quickly scale to meet the demands of the market, making them a popular choice for both experienced and fledgling entrepreneurs.

Popular Digital Business Ideas:

- **Social media and content marketing**
- **Web design**
- **Online retail (clothing companies, online bakeries, bookstores, etc.)**
- **Drop-shipping**
- **Industry consulting**
- **Wedding planning**
- **Virtual assistants**

6.1 Opportunities on the Market

Other Popular Digital Business Ideas:

- **Podcasting**
- **Youtube and other content creation**
- **Self - publishing**
- **Online Courses and Tutorials**
- **Freelance Graphic Design**
- **E-commerce store**

6.2 Entrepreneurial Mindset

The entrepreneurial mindset refers to a specific set of characteristics and attitudes that successful entrepreneurs tend to possess. While not every entrepreneur will exhibit all of these traits, cultivating and embracing these qualities can greatly enhance one's ability to navigate the challenges of entrepreneurship. Here are some key entrepreneurial mindset traits:

1. **Visionary Thinking**
2. **Passion and Determination**
3. **Adaptability**
4. **Risk-taking**
5. **Resilience**
6. **Creativity and Innovation**
7. **Resourcefulness**
8. **Self-Discipline**
9. **Networking and relationship building,.....**

6.2 Entrepreneurial Mindset

1. **Visionary thinking:** Entrepreneurs have a clear and compelling vision of what they want to achieve. They can see opportunities where others might see obstacles and can envision the potential of their ideas even when they are still in their infancy.
2. **Passion and determination:** Successful entrepreneurs are deeply passionate about their ventures and are willing to work tirelessly to make them a reality. Their determination allows them to overcome setbacks and persist in the face of adversity.
3. **Adaptability:** Entrepreneurs understand that the business landscape is constantly changing, and they are flexible and open to adapting their strategies when necessary. They are not afraid to pivot or change direction if their initial approach isn't working.
4. **Risk-taking:** Entrepreneurship involves taking calculated risks. Entrepreneurs are willing to step outside their comfort zones and make decisions that may have uncertain outcomes, knowing that great rewards can come from taking well-considered risks.
5. **Resilience:** Building a business can be challenging, and entrepreneurs must be resilient in the face of failure or rejection. They bounce back from setbacks and use them as learning opportunities.

6.2 Entrepreneurial Mindset

1. **Creativity and innovation**: Entrepreneurs are often creative thinkers who can come up with innovative solutions to problems. They are not afraid to challenge the status quo and explore new ideas.
2. **Resourcefulness:** Entrepreneurs are skilled at making the most of the resources available to them. They find creative ways to get things done, even with limited budgets or manpower.
3. **Self-discipline:** Being an entrepreneur requires managing one's time effectively and setting priorities. Entrepreneurs must be self-disciplined to stay focused on their goals and avoid distractions.
4. **Networking and relationship building:** Entrepreneurs recognize the importance of building strong networks and relationships with partners, customers, investors, and other stakeholders. These connections can open up opportunities and provide valuable support.
5. **Financial literacy**: Entrepreneurs need to understand the financial aspects of their business, such as budgeting, financial forecasting, and cash flow management.
6. **Learning mindset**: The entrepreneurial journey involves continuous learning and growth. Successful entrepreneurs are curious and open to new ideas, constantly seeking to expand their knowledge and skills.
7. **Leadership:** Entrepreneurs often need to lead and inspire others, whether it's their team or their customers. Effective leadership is essential for guiding the business towards its goals.

7. Funding and Financing Digital Ventures

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7.1 Financing Opportunities

Financing a digital business involves obtaining the necessary funds to start, grow, or sustain the operations of your online venture. Digital businesses typically rely heavily on technology and online platforms to deliver products or services. Here are some common financing options for digital businesses:

1. **Bootstrapping:** This means funding the business using your personal savings or profits generated by the business itself. Bootstrapping allows you to maintain full control over your business and avoid taking on debt or giving away equity. However, it might limit the speed of growth in the early stages.
2. **Angel Investors**: Angel investors are individuals who provide capital to startups in exchange for ownership equity or convertible debt. They often have experience in the industry and can provide valuable guidance and networking opportunities.
3. **Venture Capital (VC) Funding**: Venture capital firms invest in early-stage companies with high growth potential. They provide larger amounts of capital in exchange for significant equity ownership. VCs often invest in digital businesses with innovative technologies and scalable business models.

7.1 Financing Opportunities

4. Crowdfunding: Platforms like Kickstarter, Indiegogo, and GoFundMe allow businesses to raise funds from a large number of individuals in exchange for rewards or early access to products. Crowdfunding is especially popular for tech-oriented startups and creative projects.

5. Bank Loans: Traditional bank loans are an option if you have a well-established business with a good credit history. However, they may be more challenging to obtain for digital businesses without physical assets as collateral.

6. Online Lenders: Online lenders and alternative financing options have emerged, offering quick and accessible funding to digital businesses. These loans often have faster approval processes than traditional banks.

7. Incubators and Accelerators: Joining an incubator or accelerator program can provide funding, mentorship, and resources to help your digital business grow quickly. In exchange, they may take a small equity stake in your company.

8. Strategic Partnerships and Joint Ventures: Collaborating with larger companies or complementary businesses can lead to shared resources, funding, and access to a larger customer base.

9. Government Grants and Subsidies: Some governments offer grants, subsidies, or tax incentives to support the growth of technology and digital businesses.

10. Initial Coin Offerings (ICOs) or Token Sales: For blockchain and cryptocurrency-related projects, ICOs and token sales have been popular methods of fundraising. However, regulatory environments for these fundraising methods may vary by country.

8. Questions

Task: Create your own Digital Business Model and answer the following questions:

- What is my business idea, and what problem does it solve?
- Who is my target audience, and what are their specific needs and preferences?
- How will my digital enterprise stand out from the competition?
- What is my unique value proposition?
- How will I handle customer support and respond to inquiries and feedback?
- What digital platforms and technologies will I need to operate the business effectively?
- How will I market and promote my digital enterprise to attract customers?
- How will I measure the success and progress of my digital enterprise?
- Have I identified potential scalability issues, and do I have plans to address them?
- What is my long-term vision for the digital enterprise, and how will I adapt to changes in the industry and technology?

9. Conclusions

Takeaways of the module

1. <u>Strategic thinking.</u> Digital entrepreneurs need to think strategically to identify and pursue opportunities for growth and profitability, understanding industry trends, customer behavior and competitive landscapes.

2. <u>Financial Management:</u> Digital entrepreneurs acknowledge the importance of financial management to make informed decision about revenue expenses and investments.

3. Determine the <u>right objective for a business's goal</u> based on unbiased de-construction of subjective pros and cons

4. Develop <u>key strategies</u> on how to expand the thought process to involve the creativity and innovation to develop new products, services or business models.

5. <u>Leadership and management</u> and effective communication: Digital entrepreneurs should have strong leadership and management skills to build and lead teams.

10. Bibliography

Timi, Patrick (2023). What is Digital Entrepreneurship + Its Benefits available at:

https://www.linkedin.com/pulse/what-digital-entrepreneurship-its-benefits-patrick-timi-/

Doan, Daniel (2023). The Complete Guide to Digital Entrepreneurship, available at:

https://blog.hubspot.com/sales/digital-entrepreneurship

Resources to the study online:

https://www.researchgate.net/publication/351824749_SOCIAL_MEDIA_USAGE_AS_AN_EFFECTIVE_ENTREPRENEURIAL_TOOL_AMONG_BUSINESS_OWNERS_AMIDST_COVID-19_PANDEMIC

Kaplan, A.,]and Haenlein, M. (2009). The fairyland of Second Life: Virtual social worlds and how to use them.

Business Horizons 52 (6), 563-572.

Maryam Mohsin (2020). 10 Facebook statistics every marketer should know in 2020 (infographic)

Manning, J. (2014) Social media, definition and classes of. In K. Harvey (Ed.),

Encyclopedia of social media and politics (pp. 1158-1162). Thousand Oaks, CA: Sag

10. Bibliography

Entrepreneur (2023). 7 Innovative Online Business Ideas for Digital Entrepreneurship
https://www.entrepreneur.com/starting-a-business/7-innovative-online-business-ideas-for-digital/455546
Bloomenthal, Andrew (2023). E-commerce Defined.,available online at:
https://www.investopedia.com/terms/e/ecommerce.asp
Sahut, Jean-Michael (2019). The age of digital entrepreneurship., available online at:
https://www.iris.unina.it/retrieve/e268a732-a8dc-4c8f-e053-1705fe0a812c/Sahut2019_Article_TheAgeOfDigitalEntrepreneurshi.pdf

Module 2: Digital Financing Methods

Mentoring and support for young people starting digital entrepreneurship handbook module

START

Index

Explore now all the contents of this module!

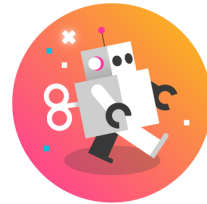1. Presentation of the module

2. Learning outcomes

3. Introduction to Digital Financing Methods

4. Types of Digital Financing Methods

5. General Opting For a Digital Financing Method in Comparison

6. Assigmenet

7. Quiz

Conclussions and bibliography

1. Presentation of the module

- *Welcome to the Module "Digital Financing Methods", to understand the theoretical and practical insights into the digitalization of traditional financing services using modern technologies. Together, we will go through the possibilities, financial advantages and disadvantages of different types of digital financing methods. Digital literacy as an essential ability to understand and make use of digital technologies in the modern world has increased immensely in the last 2 decades and so has increased the demand for financial educating and training among professionals, financial advisors and general public to make the best financial decisions. Let's discover more in the following pages!*

2. Learning outcomes

- To have an overall understanding of basic concepts of digital financing methods
- To have an ability to identify the best fitting method based on the type of business
- To weigh the advantages and disadvantages of different digital financing methods
- To understand the guide and proposed ideas on how to support the entrepreneurship in the digital space financially

3. Introduction to Digital Financing Methods: Definition, brief history and their comparison to traditional methods in financing

INDEX OF THE CONTENTS OF THIS POINT OF THE MODULE

3.1 Digital Financing Methods – General Introduction

- Digital financing methods refer to various ways of conducting financial transactions using digital technology. These methods leverage digital platforms and tools to enable individuals and businesses to access, manage, and transfer funds electronically.

- Digital financing refers to the utilization of digital technologies to facilitate financial activities, including lending, borrowing, payments, investments, and risk management. These methods leverage online services, mobile applications, and data-driven algorithms to streamline processes, enhance accessibility, and provide innovative financial solutions.

- The digital finance landscape continues to evolve rapidly, and new methods and technologies are emerging to enhance financial services, accessibility, and convenience.

3.2 Brief history of the evolution of digital financing methods

- Digital financing methods have evolved significantly over the years, transforming the way we conduct financial transactions and manage our money.
- The historical overview in the digital financing:

- 1. Early Online Payment Systems (1990s) – Paypal, E-gold,..
- 2. Mobile Banking (2000s)
- 3. Peer-to-Peer Lending (2000s)
- 4. Cryptocurrencies (2009 onwards)
- 5. Digital Wallets (2010s) – ApplePay, Google/Samsung Pay,...
- 6. Online Investment Platforms (2010s) – Kraken, E-Toro,..
- 7. Open Banking (2010s)
- 8. Decentralized Finance (DeFi) (2010s)

- In 2021, according to the Statista report data, the percentage of adults accessing their bank accounts online grew from 36% in 2007 to 72% in 2019.
- In 2022, there have been approximately 950 million mobile payment transactions done worldwide, and that number is expected to skyrocket to a whopping amount of 1.31 billion users in the year 2023.

- The total market cap of all cryptocurrencies combined surpassed $2 trillion in April 2021, up from less than $1 billion in 2013.

3.3 Gradual shift from traditional financing methods to digital ones

The shift from traditional financing methods to digital forms of finance has been a significant trend in recent years. The advent of technology, particularly the internet and mobile devices, has revolutionized the way financial transactions are conducted, making digital finance more accessible, efficient, and convenient.

The main difference between the two is that traditional finance is centralized and controlled by a small group of institutions, while Digital Financing is decentralized and controlled by a network of users. This can lead to a more open, transparent, and inclusive financial system.

Digital transformation in finance offers the reorganising and reshaping of finance and accounting function using technology to recreate efficient operating systems and processes without replacing traditional systems.

3.3 Gradual shift from traditional financing methods to digital ones

- Attributes of digital financing methods
- providing access to a wide range of financial services offers from various financial organizations and ensuring the security of receiving digital financial services
- the consumer's ability to purchase digital financial services at any time and regardless of their location, which greatly simplifies the process of choosing a financial service provider
- reducing the level of information asymmetry in relation to the financial services provided
- leveling the influence of such a factor as "presence and ramification of the branch network" in financial organizations. In this case, any financial organization that does not have a sufficiently wide branch network has the opportunity to compete on equal terms with the market leaders
- the emergence of such opportunities for a financial service provider as simplifying access to the target audience, reducing the cost of providing its services due to digitalization of the technological process

3.3 Gradual shift from traditional financing methods to digital ones

- <u>Attributes of traditional financing methods</u>
- providing well-defined lending processes, structures within the well-renowned bank systems
- requiring collateral, such as property or assets, to secure the loan, lenders assess the borrower's creditworthiness based on factors like credit history, income, and financial stability
- involvment of fixed interest rates, which remain constant throughout the loan term
- lengthy application and approval process. Borrowers need to provide detailed financial information, business plans (if applicable), and go through evaluations, assessments, and credit checks
- often a subject to various regulations and compliance requirements imposed by financial authorities that ensures consumer protection, fair lending practices, and risk management within the financial system

3.3 Gradual shift from traditional financing methods to digital ones

Signs of traditional financing methods

1. Banks and Financial Institutions

2. Collateral and Creditworthiness

3. Fixed Interest Rates

4. Lengthy Application and Approval Process

5. Personal Interaction

6. Strict Regulations and Compliance

7. Repayment Terms

8. Physical Documentation

9. Limited Flexibility

10. Established Track Record

3.4 Traditional vs. digital financing methods

TRADITIONAL FINANCING METHODS
Pros:
1. Familiarity
2. Face-to-Face Interaction
3. Tangible Documentation
4. Established Infrastructure

Cons:
1. Time-Consuming
2. Limited Accessibility
3. Higher Costs
4. Limited Transparency

3.4 Traditional vs. digital financing methods

TRADITIONAL FINANCING METHODS

1. Familiarity: Traditional financing methods, such as bank loans and credit cards, have been around for a long time and are widely understood by individuals and businesses.

2. Face-to-Face Interaction: Traditional financing methods often involve direct interactions with financial institution representatives, allowing for personalized guidance and assistance.

3. Tangible Documentation: Traditional financing methods typically involve physical documents, such as loan agreements or receipts, which some people find more secure and trustworthy than digital records.

4. Established Infrastructure: Traditional financing methods rely on an existing infrastructure of banks, branches, and ATMs, providing accessibility to a wide range of customers, even in areas with limited internet connectivity.

3.4 Traditional vs. digital financing methods

TRADITIONAL FINANCING METHODS

1. Time-Consuming: Traditional financing processes can be lengthy, involving paperwork, manual verifications, and waiting periods, which may cause delays in accessing funds or financial services.

2. Limited Accessibility: Some traditional financing options, such as loans from banks, may have strict eligibility criteria, making it difficult for certain individuals or businesses, particularly those with limited credit history or collateral, to access funds.

3. Higher Costs: Traditional financing methods can sometimes come with higher costs, including interest rates, transaction fees, and maintenance charges, which can add up over time.

4. Limited Transparency: Traditional financing methods may have complex terms and conditions, hidden fees, or fine print, making it harder for individuals to fully understand the financial products or services they are utilizing.

3.4 Traditional vs. digital financing methods

DIGITAL FINANCING METHODS
Pros:
1. Convenience
2. Speedy Transactions
3. Enhanced Accessibility
4. Greater Transparency

Cons:
1. Security Risks
2. Technical Requirements
3. Dependency on Technology
4. Lack of Personalized Assistance

3.4 Traditional vs. digital financing methods

DIGITAL FINANCING METHODS

1. Convenience: Digital financing methods, such as online banking, mobile payment apps, and crowdfunding platforms, offer easy and quick access to financial services from anywhere, at any time.
2. Speedy Transactions: Digital financing allows for instant transfers, payments, and transactions, reducing the time required for funds to be processed or received.
3. Enhanced Accessibility: Digital financing methods can be more inclusive, as they often have fewer eligibility barriers compared to traditional methods. They provide opportunities for underserved individuals and businesses to access funds and financial services.
4. Greater Transparency: Digital financing platforms typically provide transparent information on fees, terms, and conditions, allowing users to make informed decisions about their financial transactions.

3.4 Traditional vs. digital financing methods

DIGITAL FINANCING METHODS

1. Security Risks: Digital financing methods can be vulnerable to cybersecurity threats, such as hacking, data breaches, or identity theft, requiring robust security measures to protect users' sensitive information.

2. Technical Requirements: Digital financing methods rely on internet connectivity and technological devices, which may pose challenges for individuals or businesses in areas with limited access to reliable internet or those lacking digital literacy.

3. Dependency on Technology: Any technical glitches or system failures can disrupt digital financing processes, potentially causing delays or inconvenience to users.

4. Lack of Personalized Assistance: Digital financing methods may lack the human touch and personalized guidance that traditional methods can offer, which can be a disadvantage for those who prefer face-to-face interactions or require more complex financial advice.

4. Types of Digital Financing Methods

INDEX OF THE CONTENTS OF THIS POINT OF THE MODULE

- 4.1 Mobile Banking

- 4.2 Online Banking

- 4.3 Digital Wallets

- 4.4 Peer-to-Peer (P2P) Lending

- 4.5 Crowdfunding

- 4.6 Cryptocurrency

- 4.7 Online Payment Systems

4.1 Mobile Banking

- **Mobile banking** allows users to perform financial transactions using their mobile devices. It enables activities such as checking account balances, transferring funds between accounts, paying bills, and receiving notifications about account activity.

- Transactions through mobile banking depend on the features of the mobile banking app provided and typically includes obtaining account balances and lists of latest transactions, electronic bill payments, remote check deposits, P2P payments, and funds transfers between a customer's or another's accounts.

4.2 Online banking

Online banking refers to conducting financial transactions and managing bank accounts over the internet. Users can access their accounts, transfer funds, pay bills, view transaction history, and perform other banking activities through a secure website or mobile application.

Banking transactions offered online vary by institution. Most banks generally offer basic services such as transfers and bill payments. Some banks also allow customers to open up new accounts and apply for credit cards through online banking portals. Other functions may include ordering checks, putting stop payments on checks, or reporting a change of address.

4.3 Digital Wallets

- **Digital wallets**, also known as **e-wallets** or mobile wallets, are virtual wallets that store payment information securely. Users can link their bank accounts or credit/debit cards to a digital wallet and use it to make purchases online or in physical stores using their mobile devices.
- In fact, these digital wallets are <u>an analogue of a bank account</u>, only money is stored not in a bank, but in a special computer program.

If you transfer the required amount to an e-wallet and make a payment or transfer through it,

scammers will not get to the bank account, as it's a key point during development.
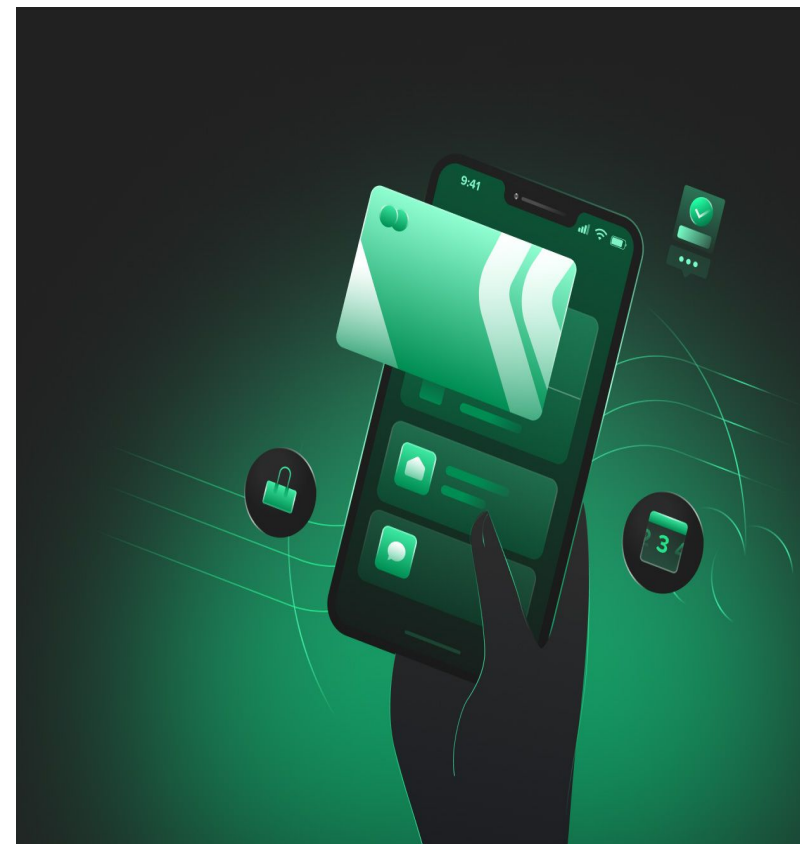
4.3 Digital Wallets

How does it work?

The basic functionality of an electronic wallet usually includes:

- non-cash payment for goods, services, fines, other payments;
- transfers to other digital wallets, bank cards, accounts, money transfer systems;
- replenishment through cards, terminals, as well as in other ways;
- receiving funds from external sources;
- linking a bank card.
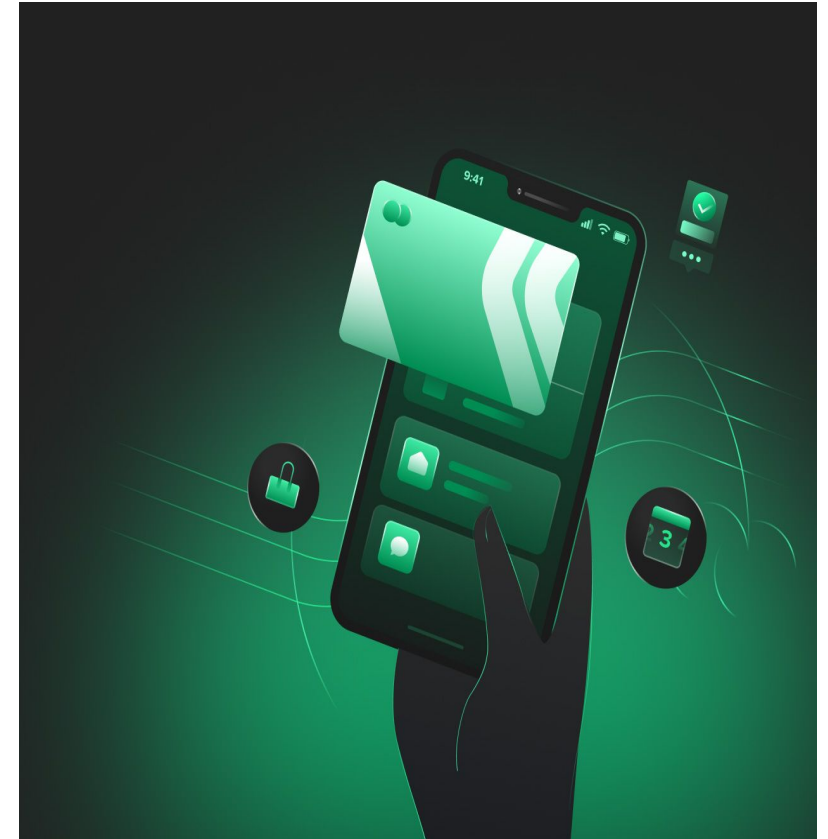
4.3 Digital Wallets

10 Most Popular Digital Wallets in 2023

1. ApplePay
2. Cash App
3. Dwolla
4. Google Pay
5. PayPal
6. Samsung Wallet
7. Venmo
8. Zelle
9. Walmart Pay
10. Amazon Pay

4.4 Peer – to – Peer (P2P) Lending

P2P lending platforms connect borrowers directly with lenders, cutting out traditional financial institutions. Through digital platforms, individuals or businesses can borrow funds from other individuals who are willing to lend, usually with lower interest rates compared to traditional lenders.

Peer-to-Peer Lending:
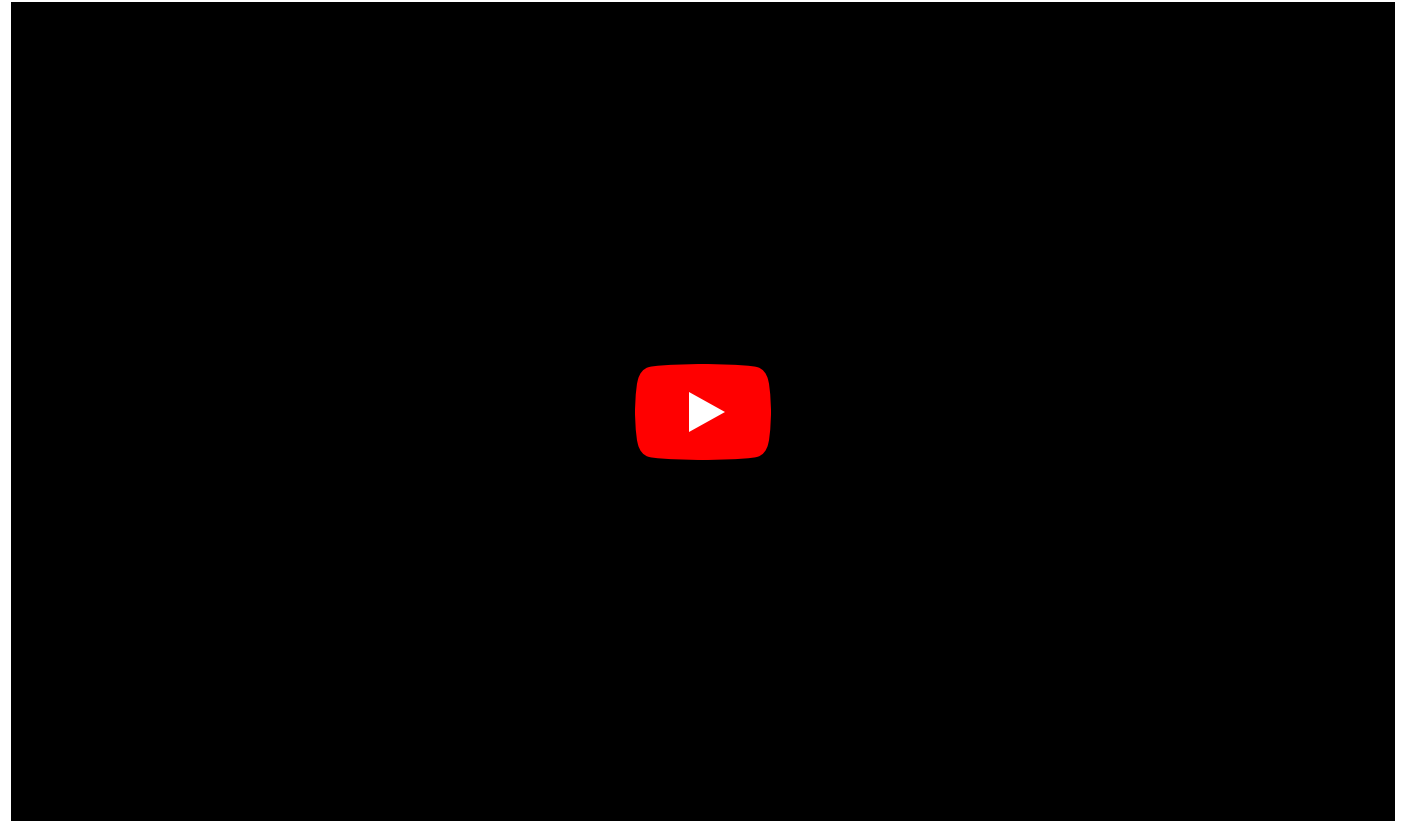
4.5 Crowdfunding

Crowdfunding platforms enable individuals or businesses to raise funds for specific projects or ventures by collecting small contributions from a large number of people. These contributions can be made online through dedicated websites or platforms, and they often provide rewards or equity in return.

- Restrictions apply to who is allowed to fund a new business and how much they are allowed to contribute.
- Crowdfunding allows investors to select from hundreds of projects and invest as little as $10.
- Crowdfunding sites generate revenue from a percentage of the funds raised.
- The SEC regulates equity-based crowdfunding ventures in the United States.
- Kickstarter, Indiegogo, and GoFundMe are among the most popular crowdfunding platforms.
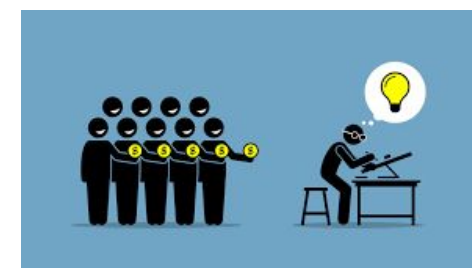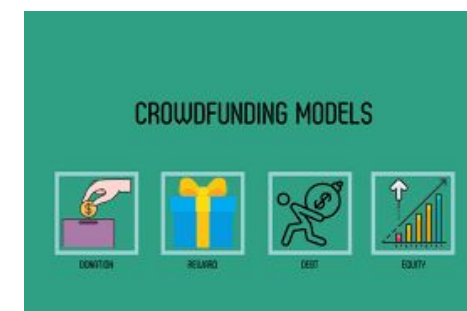
4.5 Crowdfunding

Specifics:

- Crowdfunding allows investors to select from hundreds of projects and invest as little as €10.
- Restrictions apply to who is allowed to fund a new business and how much they are allowed to contribute.
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- Kickstarter, Indiegogo, and GoFundMe are among the most popular crowdfunding platforms.
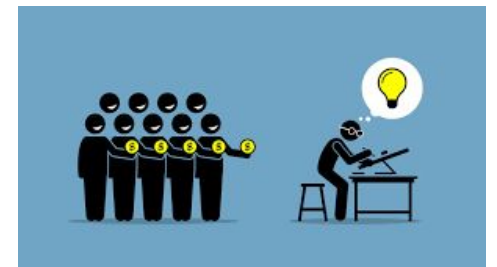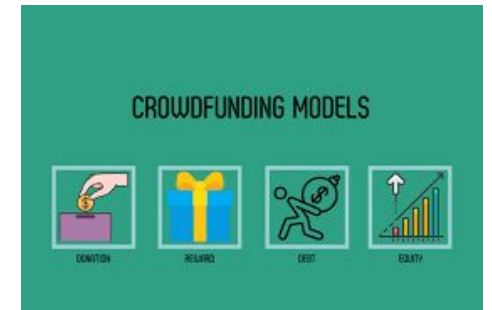
4.6 Cryptocurrency

- A **cryptocurrency** is a form of digital asset based on a network that is distributed across a large number of computers. This decentralized structure allows them to exist outside the control of governments and central authorities.
- A defining feature of cryptocurrencies is that they are generally not issued by any central authority, rendering them theoretically **immune to government interference** or manipulation.
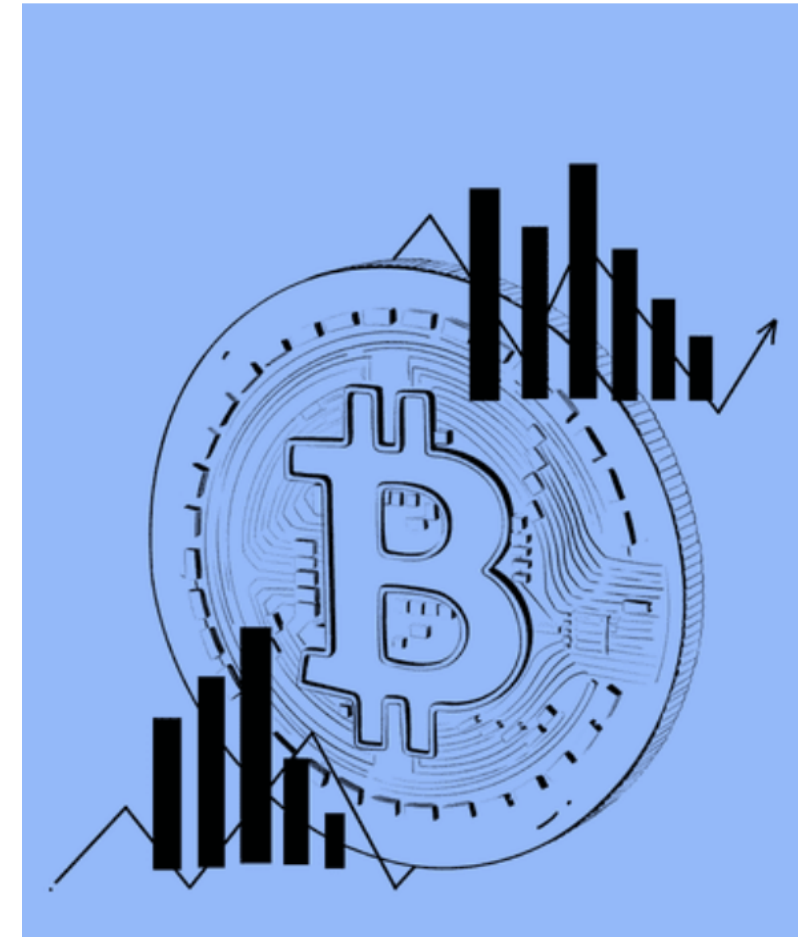
4.6 Cryptocurrency

Advantages

- Removes single points of failure
- Easier to transfer funds between parties
- Removes third parties
- Can be used to generate returns
- Remittances are streamlined
- Non-governmentally dependant

Disadvantages

- Transactions are pseudonymous
- Pseudonymity allows for criminal uses
- Have become highly centralized
- Expensive to participate in a network and earn
- Off-chain security issues
- Prices are very volatile

4.6 Cryptocurrency

8 Most Popular Cryptocurrency Investments in 2023:
1. Bitcoin
2. Ethereum
3. Binance Coin
4. Cardano
5. Polygon
6. Terra (LUNA)
7. Avalanche
8. Chainlink

4.6 Cryptocurrency

BLOCKCHAIN:

Blockchain is a decentralized and distributed digital ledger technology that allows <u>multiple parties to maintain a secure and transparent record of transactions</u> or information without the need for a central authority. It was first introduced as the underlying technology for Bitcoin, the popular cryptocurrency, but its potential applications extend beyond digital currencies.
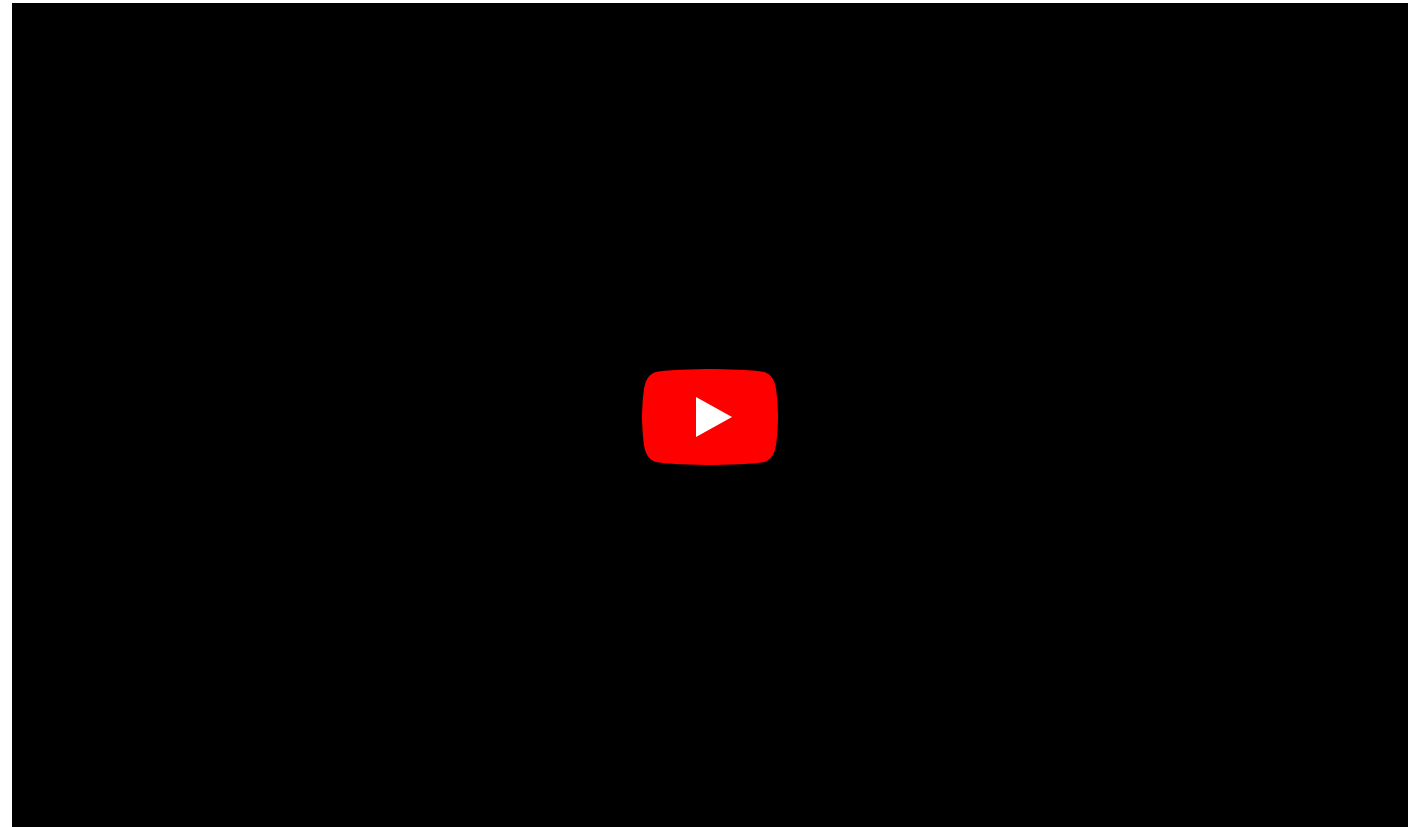
4.6 Cryptocurrency

What is a blockchain and how do they work?

In the following video you will find an explanation on what the blockchain is, how does it work and its usage.

4.6 Cryptocurrency

BLOCKCHAIN - characteristics:

1. <u>Decentralization:</u> Blockchain operates on a peer-to-peer network, where multiple participants (nodes) maintain a copy of the entire blockchain. This decentralized nature enhances security and resiliency.

2. <u>Transparency and immutability:</u> Once a transaction or data is recorded on the blockchain, it is difficult to alter or manipulate. The transparency of the blockchain allows anyone with access to view the transactions.

3. <u>Security:</u> Blockchain employs advanced cryptographic techniques to secure the data. Each block is linked to the previous block using a hash function, creating a chain that is resistant to tampering.

4. <u>Smart contracts:</u> Blockchain platforms often support smart contracts, which are self-executing agreements with predefined rules and conditions.

5. <u>Potential applications:</u> Besides cryptocurrencies, blockchain technology has the potential to revolutionize supply chain management, healthcare records, voting systems, intellectual property protection, decentralized finance (DeFi), and more.

4.7 Online Payment Systems

Online Payment Systems represent various online payment systems, such as PayPal, Stripe, and Square, provide secure and convenient ways to make and receive payments online. These platforms allow businesses and individuals to accept payments from customers, send invoices, and facilitate online transactions.

An online payment system is a software solution that assists businesses in accepting and processing online payments received from customers. This enables merchants to accept a much broader range of payment options or currencies, rather than just accepting payments in-person or over the phone, which requires far more time and labor to execute.

Online payment systems allow businesses to accept a range of online payment options, such as credit cards, mobile payments, and direct debit. Being able to accept online payments seamlessly reduces both financial and time costs for businesses, in addition to creating a more streamlined customer experience.

Businesses can implement online payments by selecting a reliable payment services provider and ensuring their website is ready to accept payments.

4.7 Online Payment Systems

Online payment services provide a number of advantages including:

- Meeting standards and expectations
- Speeding up the payment process
- Saving you time with automation
- Earning you more revenue
- Keeping payment information secure

4.7 Online Payment Systems

8 Most Popular Online Payment Systems in 2023:

- Authorize.net
- PayPal
- Google Pay
- Amazon Pay
- Dwolla
- Stripe
- Braintree
- WePay
- Verifone

4.8 Open Banking

- Open Banking: Open banking initiatives aimed to enhance financial services by allowing third-party developers to build applications and services on top of existing banking infrastructure. This opened up opportunities for innovative digital financing solutions, such as account aggregation, payment initiation, and personalized financial management tools.
- It enables the development of innovative financial products and services by leveraging customer banking information, leading to improved financial management and personalized offerings.
- It providers open access to consumer banking, transaction, and other financial data from banks and non-bank financial institutions through the use of application programming interfaces (APIs)
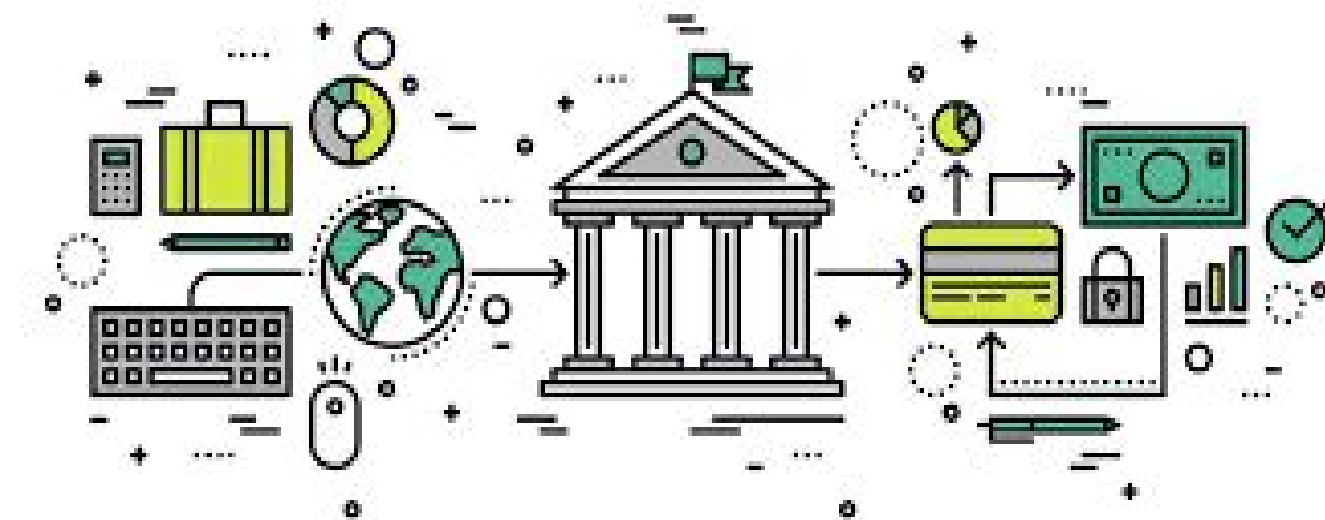
4.8 Open Banking

Benefits:

- Increased Competition
- Greater Choice
- Improved Management
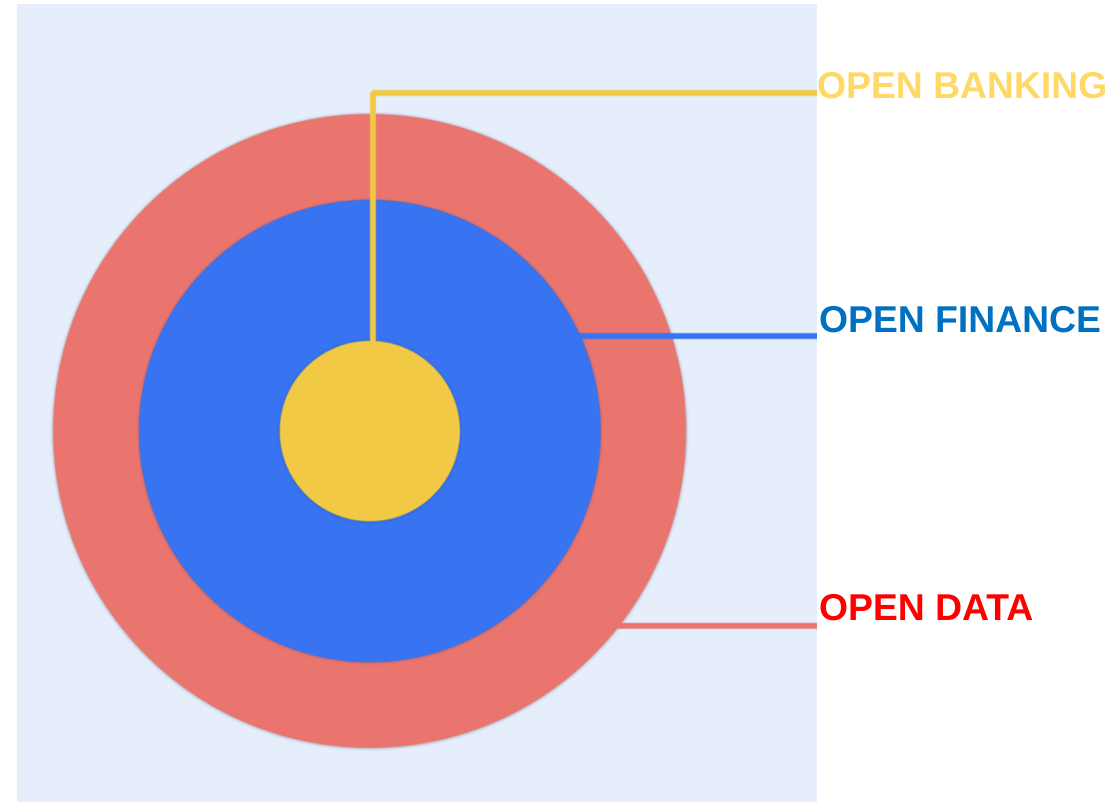- Enhanced Security
- Increased Convenience

4.8 Open Banking

Open Banking vs. Open Finance vs. Open Data:
- Open Banking
- Banks, Payment and Financial Institutions
- Open Finance
- Pension, Insurance, Investments
- Asset Management, Mortgage…
- Open Data
- Utility, Healthcare, Retail, Transit

OPEN BANKING

OPEN FINANCE

OPEN DATA

5. General Opting For a Digital Financing Method in Comparison: Individual vs. Professional Business

INDEX OF THE CONTENTS OF THIS POINT OF THE MODULE

- 5.1 Digital Financing Methods for Personal Life
- 5.2 Digital Financing Methods Used in Business
- 5.3 Digital Financial Inclusion

- **5.1 Digital Financing Methods for Personal Life**

The previous chapters helped let us through all the areas where the Digital Financial Methods may have an immense impact either on an individual, society or a professional business.

The rise of digital banking has coincided with a decline in the presence of traditional banks, which have faced a loss of 9 percent of all branches across the country over the past several years. While traditional banks offer access to branches, digital banks — those offering only online and mobile banking services — often provide attractive yields and low (if any) bank fees.

Check out this video on more tips for better financial decisions:

Tip!

- **5.1 Digital Financing Methods for Personal Life**

Benefits:

1. Convenience
2. Speed and Efficiency
3. Access to Information
4. Automation and Budgeting Tools
5. Integration with other Services

Risks:

1. Security Risks
2. Dependency on Technology
3. Potential for Impulsive Spending

- **5.1 Digital Financing Methods for Personal Life**

1. **Key statistics:**
2. About **60 percent** of consumers say they are very or somewhat interested in using a digital bank in the next year.
3. The generation most interested in digital banking is millennials (**79.3 percent**), while baby boomers are the least interested (**33.8 percent**).
4. Of those who are interested in digital banking, **43 percent** say their primary motivator is to have improved transfers; **33 percent** want lower costs, the second-most cited motivator.
5. Branches aren't obsolete yet — of those who prefer online or mobile banking, **79.9 percent** still visited a branch in 2019.
6. About **27 percent** of Americans use an online-only bank.
7. Of those at online-only banks, **88 percent** reported they are satisfied with the bank's services.
8. Meanwhile, only **66 percent** of consumers using traditional banks report being satisfied with them.

- **5.2 Digital Financing Methods Used in Business**

Basic Company Division
- According to the size:
- Small and medium enterprises (SME)
- Intermediate-sized enterprises
- Large enterprises

- According to the structure:
- Limited liability companies
- Sole Proprietorships
- Corporations
- Partnerships

- **5.2 Digital Financing Methods Used in Business**

Benefits:

1. <u>Streamlined Financial Operations</u>: Digital financing methods simplify and streamline financial operations for businesses. They can automate tasks like payroll processing, invoicing, and expense tracking, saving time and reducing administrative burdens.

2. <u>Improved Cash Flow Management</u>: Digital financing methods provide real-time visibility into cash flow, enabling businesses to manage their finances more effectively. Business owners can monitor incoming and outgoing funds, forecast cash flow, and make informed decisions about investments or expansion.

3. <u>Access to Capital</u>: Digital financing platforms often provide alternative financing options such as crowdfunding, peer-to-peer lending, or online business loans. These options give businesses greater access to capital, especially for startups or small businesses that may face challenges securing traditional financing.

4. <u>Enhanced Financial Analysis</u>: Digital financing tools often offer robust reporting and analytics capabilities. Businesses can generate financial reports, analyze trends, and gain valuable insights into their financial performance. This information helps in identifying opportunities for growth, optimizing operations, and making strategic decisions.

- **5.2 Digital Financing Methods Used in Business**

Risks:

1. Security and Fraud Risks: Just like personal finance, digital financing methods for businesses are vulnerable to security breaches and fraudulent activities. Businesses need to implement strong security measures, educate their employees, and regularly update their systems to mitigate these risks.

2. Costs and Fees: Some digital financing platforms may charge transaction fees, monthly subscription fees, or processing fees, which can add up and impact a business's bottom line. It's essential to carefully evaluate the costs associated with using digital financing methods and compare them with the benefits they provide.

3. Learning Curve and Technical Challenges: Adopting digital financing methods may require a learning curve for business owners and their teams. Familiarizing themselves with new platforms, software, and processes may take time and effort. Additionally, technical issues or system updates could temporarily disrupt operations if not managed properly.

4. Dependency on Third-Party Providers: Using digital financing methods means relying on third-party providers for crucial financial services. Businesses need to carefully assess the reliability, reputation, and stability of these providers to ensure uninterrupted access to financial tools and services.

- **5.3 Digital Financial Inclusion**

Digital financial inclusion refers broadly to the usage of digital financial services to advance financial inclusion, i.e. the deployment of digital means to reach the digitally financially excluded and underserved populations with such financial services.

The goal of financial services made available via digital means is to contribute to the reduction in poverty.

- **5.3 Digital Financial Inclusion**

Impact of digital finance on economic growth

Digitalisation speeds up development, helps economic growth, brings people closer together and enables better use of resources. Bringing the Internet and Digital Banking to Rural Communities in Countries that have poor infrastructure and investing in telecommunications infrastructure help develop new financial instrumentsfor the poorest and most disadvantaged people, offering digital services in healthcare, banking, commerce, and governement administration.

Investment in digital education, infrastructure and digital services can improve gender equality, build resilience to climate change, and help achieve many of the Sustainable Development Goals.
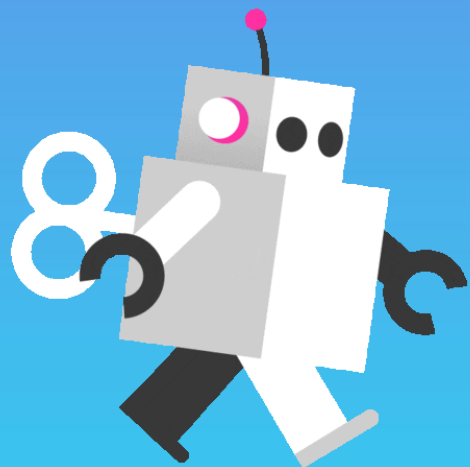
6. ASSIGNMENT

TASK

Create your own prospect of building a company:

- What kind of enterprise are you aiming for?

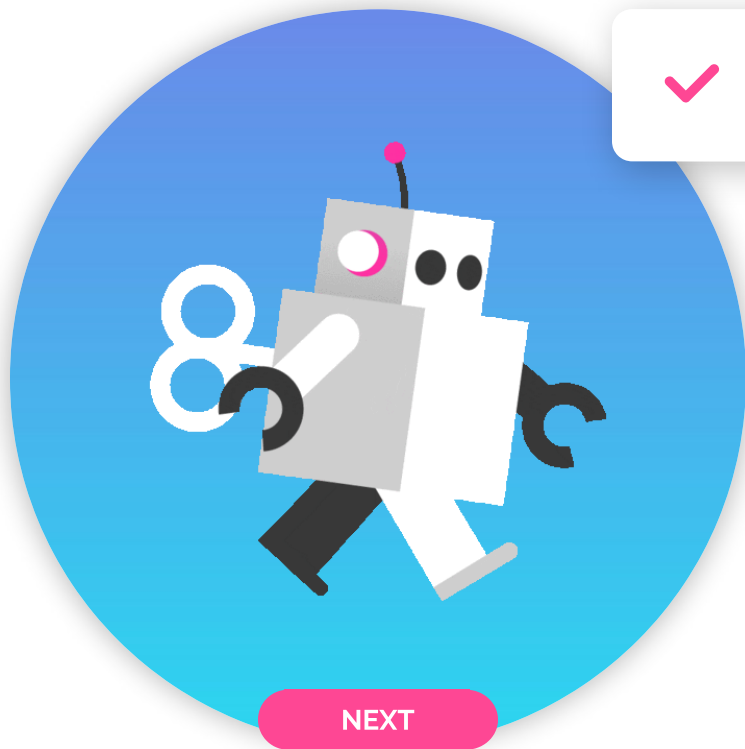- What types of Digital Financing Methods would you aim for?

7. QUIZ

START

Which one of the following does not belong to Digital Financing Methods?
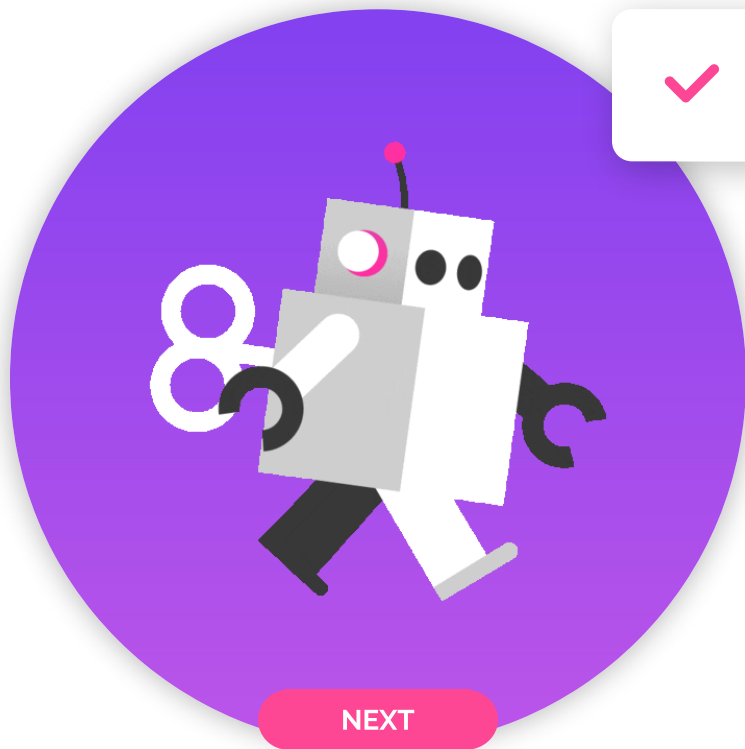
Bank Institute

Ethereum

Paypay

RIGHT!

NEXT

What decade opened the door to the evolution of Digital Financing Methods?
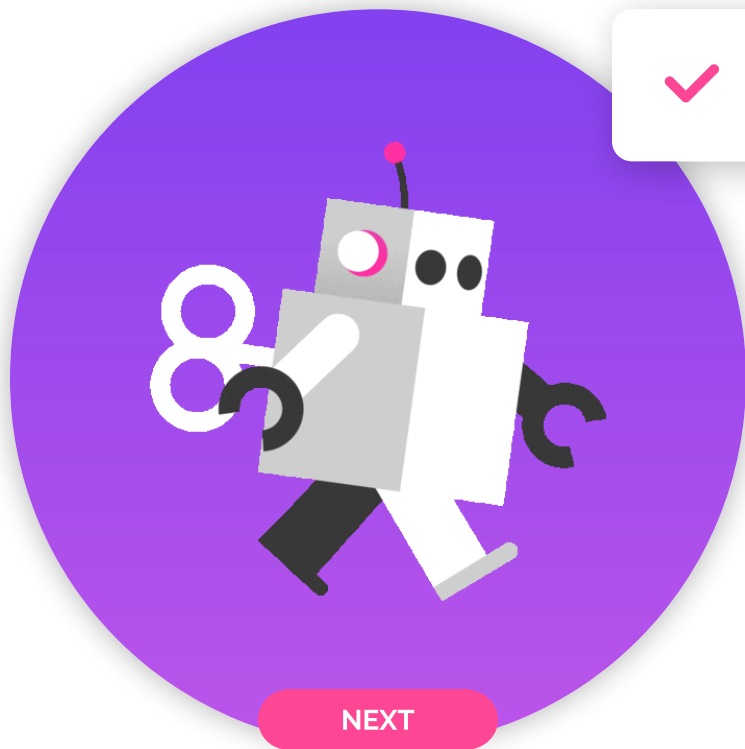
2000s

1990s

1980s

RIGHT!

NEXT

What is understood by digital financial inclusion?

initiatives aimed to enhance financial services by allowing third-party developers to build applications and services on top of existing banking infrastructure

the usage of digital financial services to advance financial inclusion, i.e. the deployment of digital means to reach the digitally financially excluded and underserved populations with such financial services

a form of digital asset based on a network that is distributed across a large number of computers

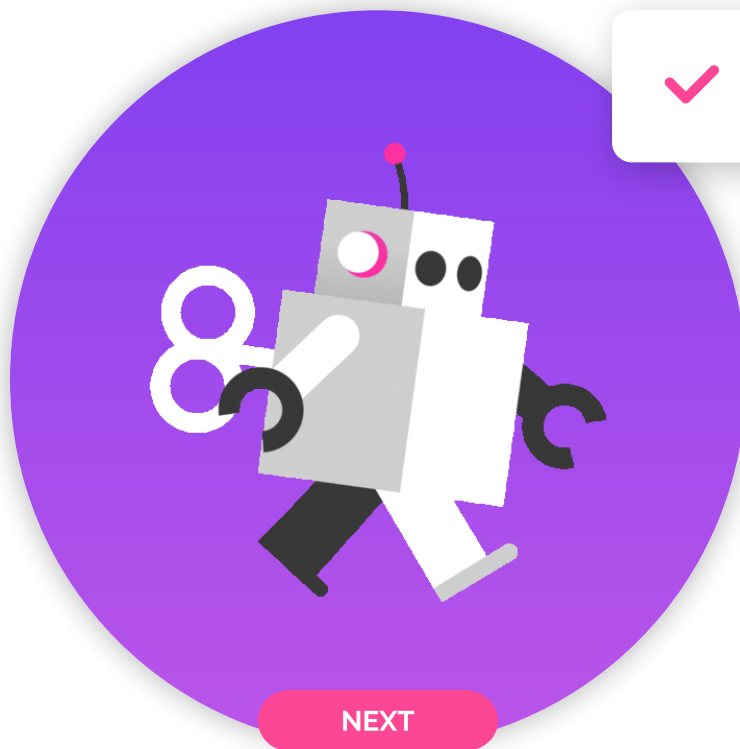# Question 4. Which of the following aspects does not attribute the digital financing methods?

simplifying access to the target audience

reducing the cost of providing its services

lengthy application and approval process

RIGHT!

NEXT

8. Conclusions

Takeaways of the module

1. You have learned about the Digital Financing Methods on the Market
2. You have acquired a knowledge in the digital financing evolution and its separation from traditional financing methods
3. You have enabled to assess and manage financial risks, such as market fluctuation, credit risk and fraud
4. You have learned the digital platforms specific as best fits for the intended business models – the ability to navigate through different types of digital financing methods.

9. Bibliography

Smith, Tim (2022). Crowdfunding, available at:

https://www.investopedia.com/terms/c/crowdfunding.asp

Ayoconnect (2022). A Brief History of Online Payments – Where Electronic Payments Began, available at:

https://www.ayoconnect.com/blog/brief-history-of-online-payments-where-electronic-payments-began

https://www.warriortrading.com/best-free-stock-charts/

Kazel, Melody (2022). Open Banking. Definition, How It Works and Risks, available at:

https://www.investopedia.com/terms/o/open-banking.asp

Reference to the study: Loginov, Mikhail (2021). Sustainable Development of the National Financial Market Based on Digital Financial Services available at:

https://www.shs-conferences.org/articles/shsconf/pdf/2021/04/shsconf_nid2020_02029.pdf

A.V. Zverev, V.V. Mandron, M.Yu. Mishina, Economics and Entrepreneurship, 11(100), 212 (2018)

M.P. Loginov, N.V. Usova, Advances in Economics, Business and Management

Research, 105, 111 (2019) https://www.atlantis-press.com/

M.S. Maramygin, G.V. Chernova, L.G. Reshetnikova, Manager, 10(3), 70 (2019)

9. Bibliography

Mammi, Bruno (2022). Open Banking vs. Open Finance: What is the difference?, available at: https://belvo.com/blog/open-banking-vs-open-finance-difference/

Ozili, Peterson (2017). Impact of Digital Finance on Financial Inclusion and Stability, available at: https://www.sciencedirect.com/science/article/pii/S2214845017301503

Module 3: Digital Business Models: Eco-Innovation and Sustainability Design Entrepreneurship

Mentoring and support for young people starting digital entrepreneurship handbook module

START

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Explore now all the contents of this module!

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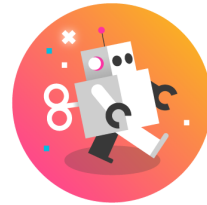

2. Learning outcomes

3. Digital Business Models

4. Eco-innovation through Digitalization

5. Sustainability- Driven Design Entrepreneurship

6. Ethical consideration

7. Assignment

8. Quiz

Conclussions and bibliography

1. Presentation of the module

Welcome to the Module "Digital Business Models: Eco-Innovation and Sustainability Design Entrepreneurship", to understand how digital business models can be harnessed to foster eco-innovation and promote sustainability-drive design entrepreneurship. By aligning digital innovation with sustainable practices, businesses can create value while minimizing their environmental footprint. Eco-innovation as a new business approach which promotes sustainability throughout the entire life cycle of a product, while also boosting a company's performance and competitiveness is a driving force towards more sustainable future of entrepreneurship. Let's discover more in the following pages!

2. Learning outcomes

- To understand the typical characteristics of different digital business models
- To comprehend digital solutions that contribute to energy efficiency, waste reduction, sustainable supply chain management and circular economy practices
- To examine the role of open innovation platforms, crowdsourcing and user participation in generating sustainable solutions
- To design user-centric and circular principles integrated into digital business models to promote sustainability
- To process and evaluate the related data, digital divide, and inclusivity in the context of sustainable digital business models.

3. Digital Business Models

INDEX OF THE CONTENTS OF THIS POINT OF THE MODULE

3.1 Digital Business Models

A digital business model refers to the way a company creates, delivers, and captures value through digital technologies and platforms. It encompasses the strategic approach and framework that enables a business to leverage digital tools, data, and connectivity to generate revenue, reach customers, and optimize operations.

A digital business model is also a form of creating value based on the development of customer benefits using digital technologies. The aim of the digital solution is to generate a significant advantage for which customers are willing to pay.

Digital business models have transformed industries and enabled new forms of commerce, communication, and customer experiences. They have disrupted traditional business models and provided opportunities for startups and established companies alike to leverage the power of digital technologies for growth and success.

3.1 Digital Business Models

Digital business models are known for having the following **four distinguishing characteristics:**

- The **value is created using digital technologies**. When a service is based on digital technologies, it's recognized as a digital business model. Amazon, Google, and Facebook, for example. These giants wouldn't exist without the internet.
- The **digital business model is new to the market**. An example of this would be when you request transportation via an app (such as Uber) that matches your request with a driver.
- To become a customer, you need to **use a digital channel**. Digital business models often rely on digital channels (such as Amazon) that show advertisements when you search online.
- The **unique selling proposition** (USP) is created digitally. This means that a customer is willing to pay for your products or services, and many times monetized online.

3.1 Digital Business Models

Digital business model is made of <u>four main components</u>:

- **<u>Value model</u>** (value propositions, mission, vision)
- **<u>Technological model</u>** (R&D management)
- **<u>Distribution model</u>** (sales and marketing ,organizational structure)
- **<u>Financial model</u>** (revenue modeling, cost structure, profitability and cash generation/management)

3.1 Digital Business Models

Key areas of Digital Business Implementation

Customer Experience

Business Model

Operational Process

1. **Value Proposition**: This defines the unique value or benefits a company offers to its customers through digital products, services, or experiences. It outlines how the company solves customer problems or fulfills their needs in a digital context.

2. **Customer Segments:** Identifying and segmenting the target audience or customer base is crucial in a digital business model. Companies need to understand their customers' preferences, behaviors, and expectations to tailor their digital offerings effectively.

3. **Channels and Distribution**: Digital business models heavily rely on digital channels for customer acquisition, engagement, and delivery of products or services. These channels can include websites, mobile apps, social media platforms, email marketing, online marketplaces, and more.

4. **Revenue Generation:** Digital business models explore various avenues for generating revenue. These can include direct sales of digital products or services, subscription models, advertising revenue, freemium models, licensing, data monetization, and partnerships.

3.2 Key aspects and characteristics of a Digital Business Models

5. Key Activities and Resources: This refers to the core activities and resources required to operate and deliver value in the digital realm. It involves developing and maintaining digital platforms, creating digital content, data analysis, customer support, cybersecurity, and other digital-related tasks.

6. Partnerships and Ecosystems: Collaboration with external partners, suppliers, or complementary businesses is vital in a digital business model. Partnerships can help expand reach, enhance capabilities, access new markets, or create synergies within the digital ecosystem.

7. Data-driven Decision Making: Digital business models heavily rely on data collection, analysis, and insights to drive informed decision making. Companies leverage data to understand customer behavior, optimize operations, personalize offerings, and gain competitive advantage.

8. Continuous Innovation and Adaptation: Digital business models thrive on agility and the ability to adapt to changing market dynamics and emerging technologies. Companies need to foster a culture of innovation and continuously improve their digital offerings to stay ahead in the digital landscape.

3.3 Types od Digital Business Models

Freemium Digital Business Model

Freemium is a combination of 'free' and 'premium' – and became a dominant business model especially amongst internet start-ups, app and smartphone developers. It helps the user to get basic features at almost a free membership – or no cost and then access the richer function/content for a subscription fee.

Examples: Dropbox, LinkedIn, Evernote, Canva,..

Subscription Digital Business Model

It is essentially a recurring revenue model in which users are paying for the use of the product/ service every week/ month or year. Users here have the choice to renew their subscription after a certain period of time as per the terms and conditions of the brands.

Examples: The New York Times, Netflix, Disney+, HBO MAX,…

3.3 Types od Digital Business Models

Ad Supported Digital Business Model

In this model, while the model offers users free access to the services of the business on their website – the user is also exposed to unsolicited third-party content. To monetize via this model, the businesses ideally host ads from other brands on their site and on their services offered.

Examples: Google Play Store, Apple Store, E-toro, Kraken,...

3.3 Types od Digital Business Models

Ecosystem Digital Business Model

The business ecosystem consists of a network of interlinked companies that dynamically interact with each other through cooperation to grow sales and also to survive in the global cutthroat competition. This ecosystem includes suppliers, government, distributors, consumers, products, processes and competitors. The ecosystem's business models are appearing more often now as companies are seeking to optimize capital and create new forms of value.

Examples: Google – Analytics, Youtube, Waze, Gmail,…

3.3 Types od Digital Business Models

Platform Digital Business Model

Also known as peer-to-peer or two-sided marketplace. This digital business model is where a provider creates a digital space to connect third-party buyers and sellers.

The aim of this business model is to generate and enable value interaction between different people, groups, and users by leveraging on network.

Examples: AirBnB, Uber, Amazon,…,

4. Eco- Innovation through Digitalisation

INDEX OF THE CONTENTS OF THIS POINT OF THE MODULE

- 4.1 What is Digital Eco-Innovation?
- 4.2 Aspects and Trends in Eco-Innovation
- 4.3 Benefits of Implementing Digital Eco-Innovation
- 4.4 Areas of Implementation

4.1 What is Digital Eco Innovation?

- **Eco-innovation** has been an important strategic concept in the European policy for more than ten years now. A successful spread of eco-innovation concepts and business models, institutional structures, technologies and policies, however, meets the challenge that material flows and emissions continue to be at a high level and the circularity rates are rather low.

- It is regarding a succeess in achieving a sufficiently strong reduction in **environmental pollution**, an increase of **material circularity rates**, a halt to the **loss of biodiversity** and a decrease of material throughput.

4.1 What is Digital Eco Innovation?

Possible adverse effects of the digital transformation could include:

- **direct ecological impacts**, e.g. emissions and resource use related to the extraction of materials, production, use and disposal of digital devices, in particular considering metals, rare earths and plastics;
- **indirect ecological effects**, e.g. rebound effects related to the acceleration or amplification of consumption of other goods and services;
- **potential health impacts**, e.g. uncertain health effects of electromagnetic fields and radiation;
- **adverse economic and social effects**, e.g. related to the deep transformative potential that could be used to disempower, disrupt und undermine traditional institutions and structures.

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4.1 What is Digital Eco Innovation?

Digitalisation is the key driver of innovation processes for production and consumption systems – it is not only a key challenge for environmental and social sustainability, but above all an opportunity.

Digital eco-innovation could become an effective tool to address challenges and accelerate sustainability transitions, especially in the most resource and energy intensive sectors, i.e. food, feed and agriculture; mobility and traffic management; and housing and construction.

4.1 What is Digital Eco Innovation?

Do you want to learn more? Watch this video on Eco-Innovation and Circular Economy.

Tip!
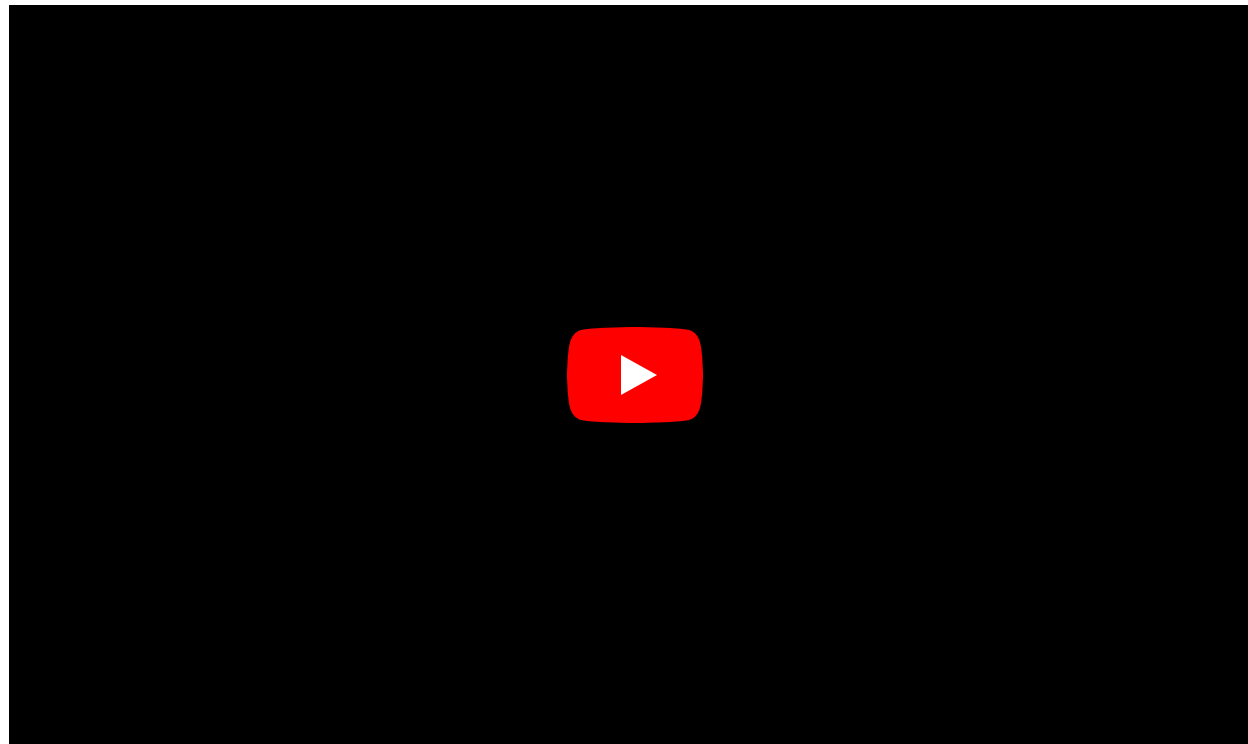
4.2 Aspects and Trends in Eco - Innovation

1. The **scope of opportunities for innovation** in products, processes and business models that digital technologies offer differs among sectors
2. Sectors need **different types of data for innovation**, and so the challenges faced for their exploitation differ.
3. The **conditions for digital technology adoption and diffusion** also vary, for instance due to differences in capabilities to take up those technologies and the level of maturity of sector specific digital technology applications.

4.2 Aspects and Trends in Eco - Innovation

1. Eco-innovation inputs **comprising investments (financial or human resources)** which aim at triggering eco-innovation activities.
2. Eco-innovation activities, illustrating to **what extent companies** in a specific country are **active in eco-innovation**.
3. Eco-innovation outputs, quantifying **the outputs of eco-innovation** activities in terms of patents, academic literature and media contributions.
4. **Resource efficiency outcomes**, putting eco-innovation performance in the context of a country's resource (material, energy, water) efficiency and GHG emission intensity.
5. **Socio-economic outcomes**, illustrating to what extent eco-innovation performance generates positive outcomes for social aspects (employment) and economic aspects (value added to an economy, exports).

4.3 Benefits of implementing Digital Eco-Innovation

- Access to new and emerging markets
- Staying ahead of standards and regulations
- Attracting investments
- Increased productivity and technical capacity
- Increased profitability along the value chain

4.3 Benefits of implementing Digital Eco-Innovation

Focus of Eco-Innovation on **Target**:

- **Products** (goods and services)
- **Processes** (production methods or procedures)
- **Marketing methods** (promotion, pricing and other strategies)
- **Organisations** (structure of management and distribution of responsibilities)
- **Institutions** (institutional arrangements, social norms and cultural values)

4.3 Benefits of implementing Digital Eco-Innovation

Focus of Eco-Innovation on **Mechanisms**:

- **Modification**-(small adjustments to products and processes)
- **Re-design**-(significant changes to existing products, processes and organisational structures)
- **Alternatives**- (introduction of goods and services that can be used as substitutes for other products)
- **Creation**-(design and introduction of new products, processes, procedures, institutions and organisations)

4.4 Areas of Implementation

1. **Develop a power sector based on renewable sources**, complemented by the rapid phasing out of coal and decarbonising gas, but at the same time, providing a secure and affordable energy supply for consumers and businesses. For this to happen, it is essential to ensure that the European energy market is fully integrated, interconnected and digitalised, while respecting technological neutrality.

2. **Enable the transition to climate neutrality** in the energy sector, through smart infrastructure, such as smart grids;

3. **Improve the availability of information** on the characteristics of products sold in the EU; for instance, an electronic product passport could supply information on a product's origin, composition, repair and dismantling possibilities, and end of life handling;

4. **Enable the distance (to target) monitorin**g of air and water pollution; this might also contribute to the monitoring of air quality plans, helping local authorities achieve cleaner air;

5. Enable the monitoring and **optimise how energy and natural resources are used**;

4.4 Areas of Implementation

1. Increase digitalisation and **climate-proofing of the building stock**;
2. Develop **smart traffic management systems**;
3. Provide **better information on food**, such as where it comes from, the nutritional value, and its environmental footprint;
4. **Predict and manage environmental disasters**. This aims to radically improve the ability to predict extreme weather patterns, gauge the impact of climate change and manage natural and environmental disasters, which is defined as a priority.
5. **Engage with the public** on climate action;
6. Enable the **use of accessible and interoperable data in evidence-based decision-making**, expanding the ability to understand and tackle environmental challenges.

5. Sustainability- Driven Design Entrepreneurship

INDEX OF THE CONTENTS OF THIS POINT OF THE MODULE

- 5.1 Sustainability in Entrepreneurship
- 5.2 Building a Sustainable Enterprise
- 5.3 Case Studies

5.1 Sustainability in Entrepreneurship

Sustainability in business generally addresses **two main categories**:

- The effect business has on the environment
- The effect business has on society

The goal of a sustainable business strategy is to make a positive impact on at least one of those areas. When companies fail to assume responsibility, the opposite can happen, leading to issues like environmental degradation, inequality, and social injustice.

Sustainable businesses consider a wide array of **environmental, economic, and social factors** when making business decisions. These organizations monitor the impact of their operations to ensure that short-term profits don't turn into long-term liabilities.

5.1 Sustainability in Entrepreneurship

When a company **claims their operations sustainable**, know what to look for:

- Transparent & ethical sourcing of materials
- Environmentally conscious manufacturing practices
- Waste-conscious packaging (recyclable, as little material as possible)
- Shipping options that negate the carbon footprint
- Diverting landfill waste at their product's end-of-life

5.1 Sustainability in Entrepreneurship

Sustainable business strategies are unique to each organization as they tie into larger business goals and organizational values. For instance, sustainability in business can mean:

1. **Using sustainable materials** in the manufacturing process
2. **Optimizing supply chains** to reduce greenhouse gas emissions
3. **Relying on renewable energy sources** to power facilities
4. **Sponsoring education funds** for youth in the local community

5.2 Building a Sustainable Enterprise

To guide this process, consider asking yourself **questions**, such as:

- How much waste is the organization creating?
- Is our company culture struggling?
- Are our hiring practices attracting diverse job candidates?
- Is our product targeted to help a certain audience?
- What impact does our company have on the local community?

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+ OPEN THE GUIDE

Tip!

5.3 Case Studies

THE CASE OF PATAGONIA BRAND

Outdoor clothing brand **Patagonia's** mission can be broken down into four objectives:

- Build the best product
- Cause no unnecessary harm
- Use business to protect nature
- Do not be bound by convention

Read more:

+ INFO

5.3 Case Studies

THE CASE OF RE:MARKABLE BRAND

A digital notebook by the brand Re:Markable sustainability pillars:

- Reducing the total product carbon footprint
- Reducing E-waste
- Treating people fairly
- Planning for real results

+ INFO

Re:markable

5.3 Case Studies

THE CASE OF TESLA BRAND

Electric- powered car company by the brand Tesla sustainability pillars:

- Renewably Power The Existing Grid
- Switch to Electric Vehicles
- Switch to Heat Pumps
- High Temp Heat Delivery
- Sustainable Fuel Planes and Boats

+ INFO

6. Ethical consideration

INDEX OF THE CONTENTS OF THIS POINT OF THE MODULE

- 6.1 Product Sustainability
- 6.2 Ethical Codex in Sustainable Businesses

- ## 6.1 Product Sustainability

Product sustainability (PS) looks at how products can provide economic benefits to companies while at the same time providing environmental and social benefits to society in general. Or, in other words, PS aims at balancing the contributions of products to the triple bottom-line, thereby creating multiple and shared values for different stakeholders. There have been a great number of different approaches of how this balance can be achieved and preserved through eco design, design for sustainability, cradle-to-cradle, product service systems or handprinting

From a business perspective any sustainability improvement relative to the previous product or compared to the prevailing products on the market may be seen as satisfactory, because the new product displays an improved sustainability performance.

6.1 Product Sustainability

Attributes of environmentally sustainable products:

1. **Renewable Materials**
2. **Recyclable or Biodegradable**
3. **Energy Efficiency**
4. **Non Toxic and Chemical- Free**
5. **Minimal Resource Consumption**

6. **Fair Trade and Ethical Practices**

7. **Durability and Longevity**

8. **Carbon Footprint Reduction**

9. **Transparent Supply Chains**

10. **Social Impact**

6.2 Ethical Codex in Sustainable Businesses

Ethical codes in sustainable business refer to a set of principles, values, and guidelines that businesses follow to ensure their operations are socially responsible, environmentally friendly, and economically sustainable. These codes aim to <u>promote</u> sustainable development, <u>minimize</u> harm to people and the planet, and <u>foster</u> transparency and accountability within the business community.

6.2 Ethical Codex in Sustainable Businesses

While there is no standardized ethical codex applicable to all sustainable businesses, several key principles are commonly included:

1. **Environmental Responsibility**: Sustainable businesses strive to minimize their ecological footprint by conserving resources, reducing waste, and adopting environmentally friendly practices. They may commit to using renewable energy, implementing recycling programs, and adopting sustainable supply chains.
2. **Social Justice and Human Rights**: Ethical codes in sustainable business prioritize fair treatment and respect for human rights. Businesses may commit to upholding labor standards, providing safe working conditions, promoting diversity and inclusion, and ensuring fair compensation for employees and suppliers.
3. **Stakeholder Engagement**: Sustainable businesses recognize the importance of engaging with stakeholders such as employees, customers, communities, and shareholders. They seek to involve these groups in decision-making processes and consider their perspectives and concerns when formulating business strategies.

.

6.2 Ethical Codex in Sustainable Businesses

1. **Transparency and Accountability**: Ethical codes emphasize transparency in reporting practices, ensuring accurate and comprehensive disclosure of information related to the business's social and environmental impact. This includes providing clear information on supply chain practices, carbon emissions, and other relevant metrics.
2. **Ethical Sourcing and Fair Trade**: Sustainable businesses often prioritize sourcing practices that ensure fair and equitable treatment of suppliers and producers, especially in developing countries. They may support fair trade principles, which aim to provide better trading conditions, fair wages, and social and environmental sustainability for marginalized producers.
3. **Responsible Marketing and Consumer Awareness:** Ethical codes promote responsible marketing practices, avoiding false or misleading advertising and ensuring accurate representation of products and services. Sustainable businesses may also educate consumers about the environmental and social impacts of their choices, encouraging conscious consumption.
4. **Continuous Improvement:** Sustainable businesses commit to ongoing improvement in their environmental and social performance. This involves setting goals, measuring progress, and regularly reviewing and updating practices to align with evolving sustainability standards.
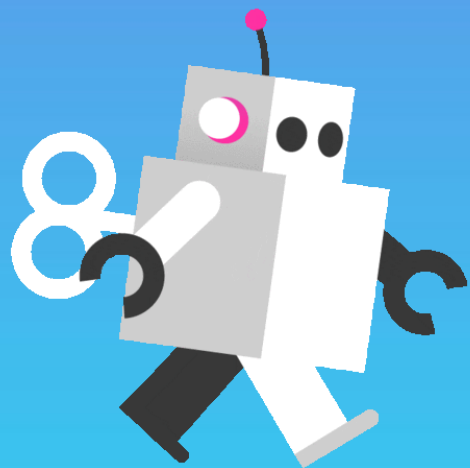
7. ASSIGNMENT

<u>**Self-reflective questions:**</u>

- Which case studies and examples illustrate eco-innovative technical and digital solutions in your country?

- In which ways can you personally imagine to reduce an environmental footprint once establishing your own business?
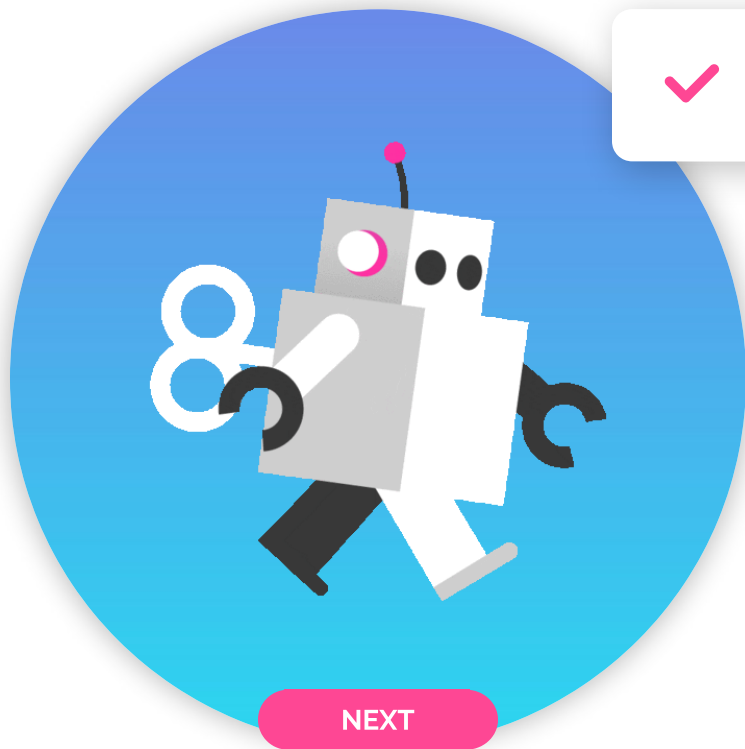
8. QUIZ

START

Question 1. Which one of the following does not represent Sustainable Approach?
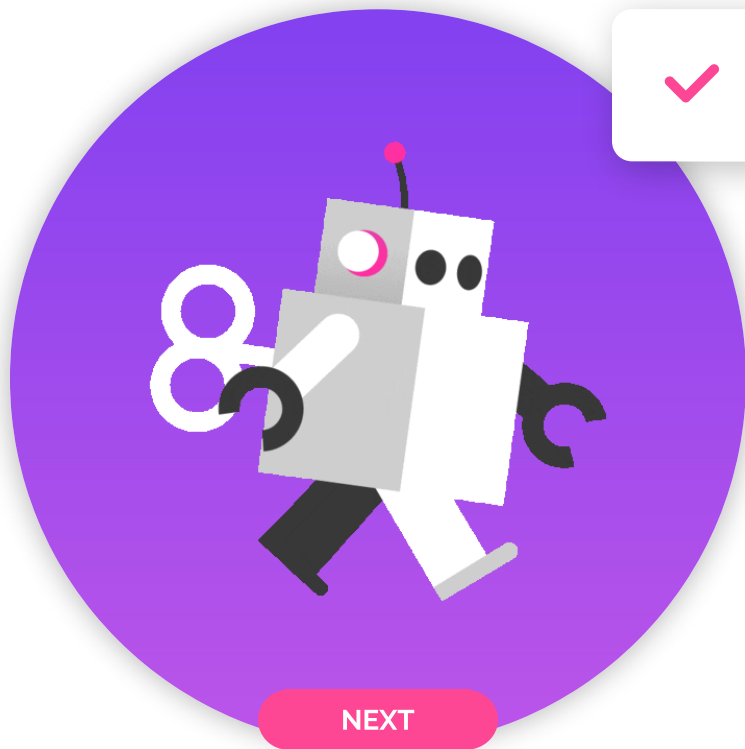
Re - use

Reduce

Re-package

RIGHT!

NEXT

Question 2. Google and its extensions such as Gmail, YouTube, Google Analytics etc,..belongs to:

Ecosystem Digital
Business Models

Platform Digital
Business Models

Subscription Digital
Business Models

RIGHT!
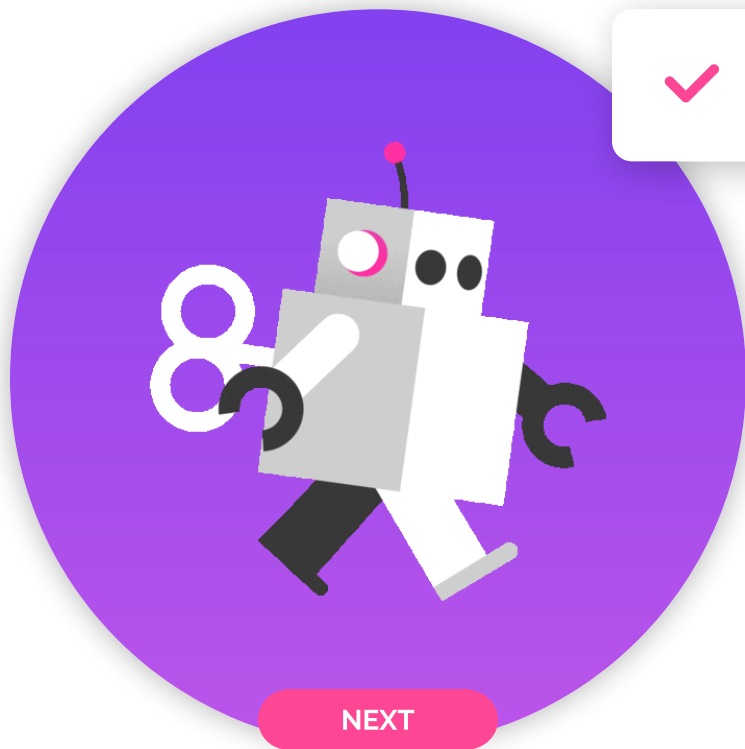
NEXT

Question 3. Ethical codex (codes) refers to:

initiatives aimed to countryside existing infrastructure

set of principles, values, and guidelines that businesses follow to ensure their operations are socially responsible, environmentally friendly, and economically sustainable

wealth generating guide based on successful investment strategy

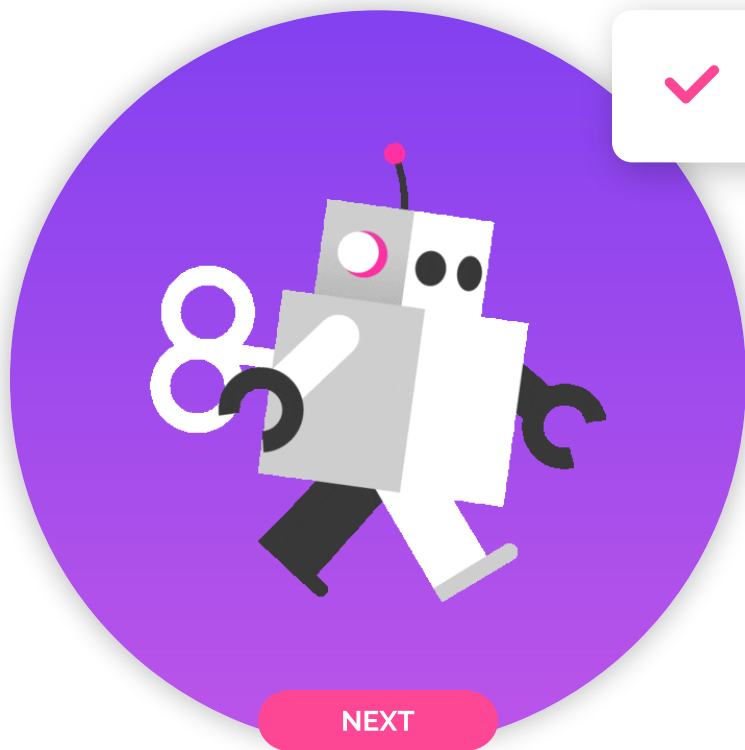# Question 4. Which of the following aspects does not attribute to sustainable business?

Ethical sourcing and Fair trade

Transparency

Child labour

RIGHT!

NEXT

9. Conclusions

Takeaways of the module

1. You have learned to identify and analyze digital business models implementing eco-sustainability
2. You have learned to evaluate the implantation of eco -friendly and sustainable processes into a business plan and its creation
3. You have learned to use tools to monitor, measure, design and create graphics of eco guide to see the progress and implementation of green policies
4. You have learned to develop key strategies of sustainable and green policy implementation

10. Bibliography

INITIUM (2022) available at:

https://hetic.in/top-5-digital-business-models-you-must-know/

https://www.oecd.org/innovation/green/toolkit/

Spiliakos, Alexandra (2018). Whaat does Sustainability means in Business?, available at:

https://online.hbs.edu/blog/post/what-is-sustainability-in-business

Goldman Sachs. Goldman Sachs Environmental Policy, available online: https://www.goldmansachs.com/citizenship/sustainability-reporting/env-report-2006.pdf

The Science-Based Targets initiative. (2022), available online: https://sciencebasedtargets.org/

Accenture. Energizing Industry. (2021), available at:

https://www.accenture.com/_acnmedia/PDF-147/Accenture-Energizing-Industry-Through-European-Industrial-Decarbonization-Full-Report.pdf

10. Bibliography

Accenture. Energizing Industry. (2021), available at:

https://www.accenture.com/_acnmedia/PDF-147/Accenture-Energizing-Industry-Through-European-Industrial-Decarbonization-Full-Report.pdf

Corporate Value Chain Standard. (2022), available at:

https://ghgprotocol.org/standards/scope-3-standard

Corporate Value Chain (Scope 3) Standard. 2022, available at:

https://ghgprotocol.org/standards/scope-3-standard

Module 4: Marketing Plans on digital media and digital platforms

Mentoring and support for young people starting digital entrepreneurship handbook module

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Explore now all the contents of this module!

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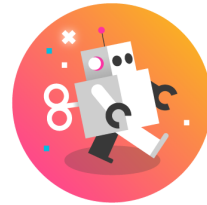
2. Learning outcomes

3. Introduction to Digital Marketing Plans

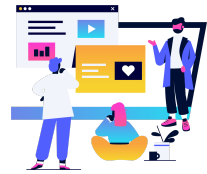4. Elements of a Digital Marketing Strategy and Plan

5. Trends and Future Outlook

6. Quiz

7. Case study

8. Conclusions and bibliography

1. Presentation of the module

Welcome to the module of "Marketing Plans on digital media and digital platforms." This module provides essential techniques and concepts associated with Digital Marketing. It offers insights into the impact of digital media, trends, and effective tools to create impactful strategies for start-ups and businesses. Topics include defining digital marketing, emphasizing the importance of solid plans, exploring digital media and platforms, and understanding common metrics. We'll delve into elements like developing brand messages, setting goals, analyzing target audiences, creating budgets and timelines, and implementing social media marketing and SEO techniques. Lastly, we'll touch upon trends and the future outlook of digital marketing. Get ready to dive into the dynamic world of digital marketing!

2. Learning outcomes

- Understand digital marketing principles and techniques.
- Able to research, formulate and implement comprehensive digital marketing plans.
- Identify and analyse target audiences using digital data and analytics tools.
- Create and implement digital marketing campaigns.
- Create content tailored to the specific platform.
- Develop a critical perspective on digital marketing and digital platforms.
- Learn to adapt to the changing nature of digital media and digital marketing to remain competitive in the marketplace.
- Discover trends and future outlook.

3. Introduction to Digital Marketing Plans

INDEX OF THE CONTENTS OF THIS PART OF THE MODULE

3.1. Defining digital marketing

Digital marketing is an *umbrella term* that refers to the wide range of activities that businesses undertake to **engage with customers using digital technology**. It covers a wide range of promotional efforts to **promote products or services through various online platforms**. These platforms include email, social media, mobile marketing, online customer communities, webinars and video-based content.

Like traditional marketing, digital marketing uses similar tactics to reach and engage with target audiences. However, it leverages the power of digital channels and technology to deliver **targeted messages** and **measurable results**. It enables businesses to integrate traditional and digital marketing techniques into a coherent strategy that maximises reach and impact. By combining the strengths of traditional and digital marketing, businesses can create a **comprehensive marketing approach** that effectively connects with customers in today's digital environment. This approach allows businesses to take advantage of digital technology to **increase brand visibility**, **generate leads** and **drive conversions.**

3.1. Defining digital marketing

Digital marketing offers several **benefits**, including global and local reach, precise audience targeting, cost-effectiveness, and customized channels. Businesses can reach individuals across different time zones and customize ads for local markets, enhancing visibility and engagement. By leveraging email and social media platforms, brands can connect with customers, gather insights, and tailor their marketing efforts. Digital marketing is cost-effective compared to traditional methods, allowing businesses to promote their products and services at a lower cost through email campaigns and social media advertising. The flexibility of digital channels enables marketers to customize their strategies based on the platform and audience.

However, digital marketing also presents **challenges**, such as the time required for content creation and campaign optimization, standing out in a competitive landscape, ensuring data privacy compliance, and optimizing websites for mobile users to facilitate seamless customer journeys. Despite these challenges, digital marketing provides organizations with powerful tools to reach and engage their target audience effectively.
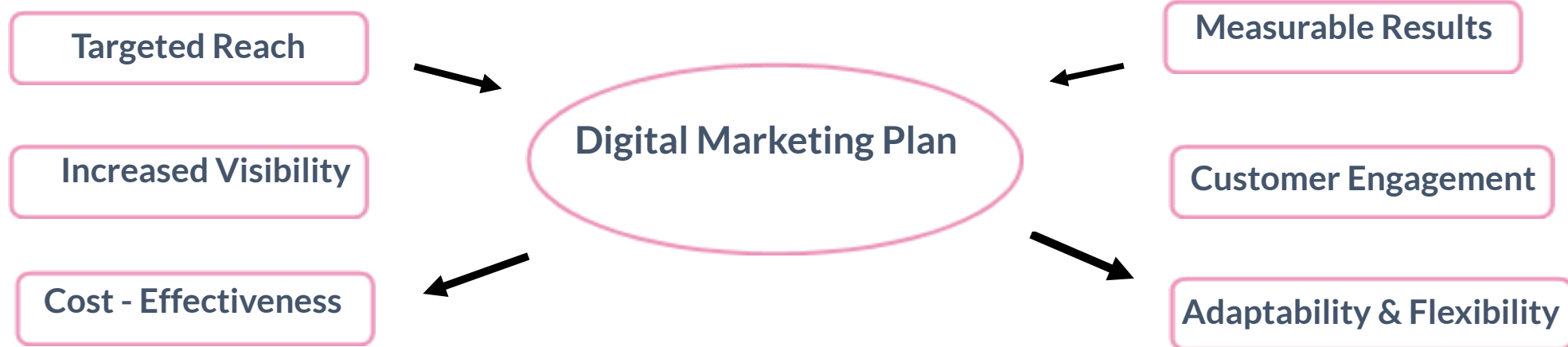
3.2. Importance of digital marketing plans

Digital marketing is of great importance for entrepreneurs due to several reasons. Firstly, it makes **setting up a business easier** than ever before, allowing entrepreneurs to establish a strong digital presence and connect with relevant consumers. It also enables **cost-effective operations**, as the expenses associated with digital marketing are significantly lower compared to traditional forms of marketing. With digital marketing, entrepreneurs can achieve a **higher return on investment** by making informed decisions based on analytics and leveraging the **visibility and exposure** offered by online channels and social media platforms. Furthermore, digital marketing provides opportunities to target specific customer segments, create **brand awareness**, **generate leads**, and foster **brand loyalty**. **Data analytics** plays a vital role in understanding consumer patterns and behavior, enabling entrepreneurs to make data-driven decisions and optimize their marketing campaigns. Finally, **automation tools** in digital marketing streamline business operations, enhance efficiency, and allow entrepreneurs to focus on creating quality content. Overall, digital marketing provides entrepreneurs with the tools and strategies to succeed in the competitive online landscape while minimizing costs and maximizing returns.

3.2. Importance of digital marketing plans

Targeted Reach

Increased Visibility

Cost - Effectiveness

Digital Marketing Plan

Measurable Results

Customer Engagement

Adaptability & Flexibility

3.2. Importance of digital marketing plans

A well-executed digital marketing plan is important for entrepreneurs in the digital age. It allows them to reach their **target audience** more effectively by leveraging different digital channels and targeting specific demographics and interests. Digital marketing plans also increase **visibility** by optimising online presence and attracting organic and paid traffic. Compared to traditional marketing methods, digital marketing is **cost-effective** and provides businesses with flexible budget options. In addition, digital marketing offers **measurable results** through analytics, allowing businesses to track and evaluate the effectiveness of their campaigns and make data-driven decisions. Personalisation and **customer engagement** are other key benefits as businesses can tailor their marketing messages and engage with customers on an individual level. Digital marketing plans also offer **adaptability and flexibility**, allowing businesses to adapt their strategies based on market trends and consumer behaviour.

3.3. Digital media and platforms overview

Digital marketing is the strategic process of placing content in the right **digital platforms** to reach valuable customers, while **digital media** refers to the assets and channels through which this marketing content is conveyed. They work together as digital marketing utilizes digital media platforms and assets to effectively target and communicate with audiences, driving profitability and return on investment. Digital entrepreneurs benefit from digital media as it enables social interaction, creates equal opportunities for small businesses, and aligns with consumer shopping habits.

There are three types of digital media:

- **Owned**
- **Paid**
- **Earned**

3.3. Digital media and platforms overview

Owned digital media refers to online assets that are under your control, such as your website, social media channels, and blogs. By optimizing these assets for search engine optimization (SEO), you can increase your visibility and authority in online searches, leading to improved rankings and brand recognition. **Paid digital media** involves promoting your content through methods like pay-per-click (PPC) advertising, display ads, and social media ads. While it can be costly, effective use of paid media can expose your brand to a wider audience and provide measurable results for your marketing campaigns. **Earned digital media**, on the other hand, is generated by your customers through word-of-mouth, social media sharing, reviews, and testimonials. This form of advertising is highly valuable as it acts as an endorsement for your brand, helping to grow your reputation and reduce customer acquisition costs. Strong organic rankings and quality content play a crucial role in driving earned media. It's important to monitor and manage earned media since you have limited control over what is being said about your brand.
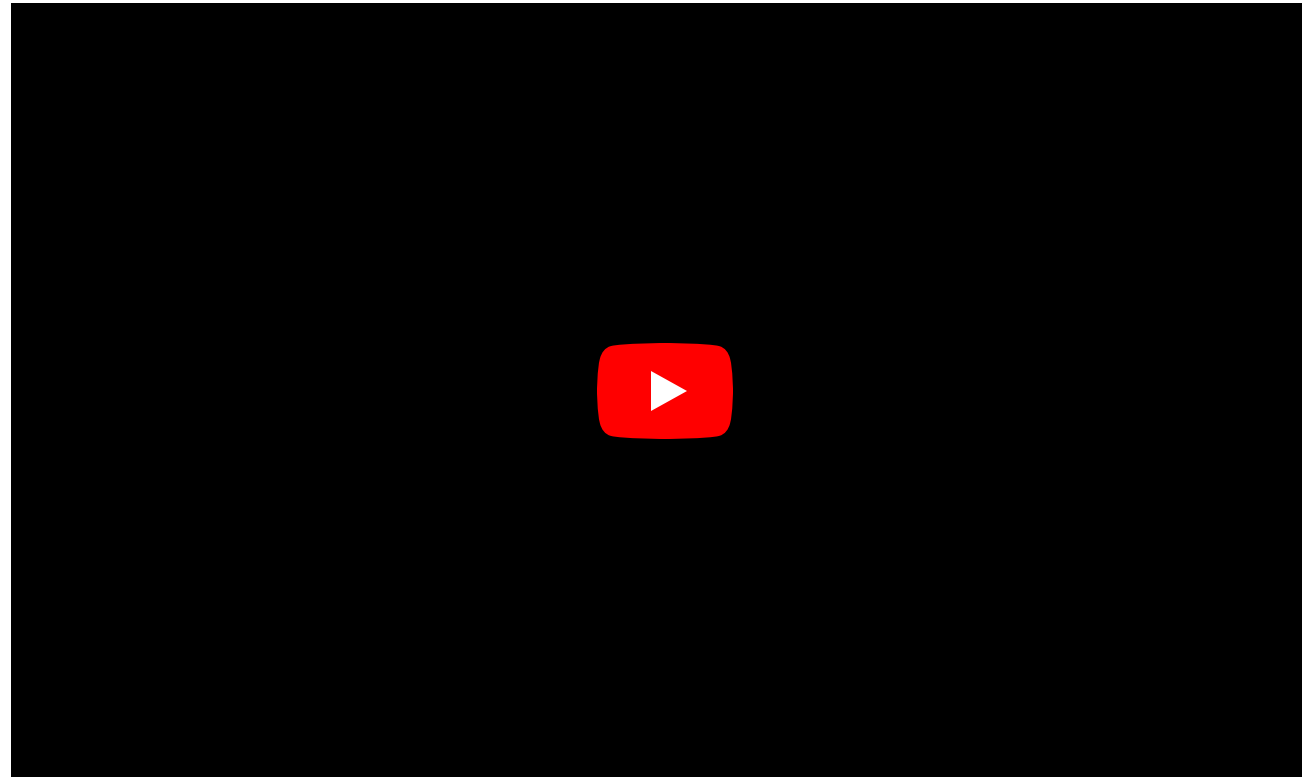
3.3. Digital media and platforms overview

A **digital media platform** is an online platform or channel that enables the creation, distribution and consumption of digital content. These platforms allow users to interact with different forms of media such as text, images, video, sound and interactive elements. Examples of digital media platforms include **social media networks** such as *Facebook*, *Twitter* and *Instagram*, **video sharing platforms** such as *YouTube*, **streaming services** such as *Netflix* and *Spotify*, **blog platforms** such as *WordPress*, and news portals. These platforms allow individuals and businesses to share and access content, connect with audiences, build communities and reach a wider user base.

They play a significant role in shaping the way information is disseminated, entertained and communicated in the digital age.

3.3. Digital media and platforms overview

3.4. Common digital marketing metrics

Digital marketing metrics and **Key Performance Indicators (KPIs)** are essential to monitor the success of digital marketing activities. They provide metrics that can be used to measure progress towards goals. Whether it's increasing revenue, driving traffic to your website or other specific goals, KPIs focus on objectives and outline the activities needed to achieve them. Tracking digital marketing metrics and KPIs is vital for any business. It allows you to measure and evaluate the performance of your campaigns. While it can be time taking and challenging to track results across different platforms and devices, using a dashboard to track specific KPIs simplifies the process. This allows you to more effectively set goals, define KPIs and measure performance against these values. By using digital marketing metrics and KPIs, businesses can gain insight into the effectiveness of their marketing strategies. They can identify **areas for improvement**, make **data-driven decisions** and **optimise their campaigns** to achieve better results.

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3.4. Common digital marketing metrics

Digital marketing metrics play a key role in evaluating the effectiveness and success of marketing activities. These metrics provide valuable insights into different aspects of a digital marketing campaign. These include **analysing SEO performance and keyword strategies** to increase site traffic, tracking overall site traffic to understand traffic sources and trends, evaluating user engagement through average bounce rates, and tracking search trends to optimise content. Other metrics focus on **audience analysis based on demographic data**, measuring brand awareness through mentions and social media engagement, and evaluating the rate of user response to marketing communications. In addition, metrics such as click-through rate, cost per click/impression, cost per lead and page views will help measure the efficiency and effectiveness of advertising campaigns and content placement.

3.4. Common digital marketing metrics

Common digital marketing metrics such as:

- **Search engine optimization (SEO)/keywords:** Analyzing SEO metrics helps drive website traffic and improve keyword strategies.
- **Total website traffic:** Tracking overall website visits provides a broad view of traffic sources and trends.
- **Traffic from channels:** Understanding how users arrive at your site through different channels like direct traffic, organic search, social media, and referrals.
- **Conversions:** Measuring the number of visitors who become subscribers or customers.
- **Average bounce rate:** Assessing the percentage of users who leave after viewing a single page, indicating user engagement.
- **Trends in searches:** Monitoring changes in search trends to identify opportunities for updating content and targeting keywords.
- **First-time visitors**: Tracking the number of new visitors to measure the success of targeted campaigns.

3.4. Common digital marketing metrics

- **Returning visitors:** Measuring the number of visitors who return, indicating the value and relevance of your content.
- **Demographic data:** Using demographic information to understand and target the right audience.
- **Brand awareness:** Assessing brand mentions, searches, social media engagement, followers, and shares to gauge brand recognition.
- **Click-through rate:** Measuring the percentage of users who click on an ad or link.
- **Response rate:** Analyzing the rate at which users respond or engage with marketing communications.
- **Cost per click/cost per impression:** Evaluating the value of advertising efforts by calculating the cost per click or impression.
- **Cost per lead:** Determining the cost of acquiring a lead through impressions, clicks, and response rates.
- **Pageviews:** Monitoring the number of pages viewed, identifying popular sections and optimizing content placement.

4. Elements of a Digital Marketing Strategy and Plan

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4.1. Developing a brand message

The brand message is the **core communication** that the brand wants to convey to its target audience. It represents the **essence of the brand's identity, values and unique selling proposition**. It is the central idea or theme that the brand communicates consistently across marketing channels and touch points. The brand message aims to **create a specific perception and emotional connection with the target** audience, influencing their attitudes and behaviour towards the brand. It **helps differentiate the brand from competitors** and reinforces the brand's position in the market. A well-crafted brand message is **clear, concise and memorable**. It should resonate with the target audience and address their needs, desires and aspirations. It should also align with the brand's overall marketing strategy and support the brand's business objectives. Brand messages can take different forms such as **slogans, taglines, mission statements, value propositions (brand promises) or key messages**. They need to be **consistently communicated** through a variety of marketing materials, including advertising, websites, social media content and customer interactions.

4.1. Developing a brand message

Simon Sinek's "**Start with Why**" video is related to the brand message in the sense that it emphasizes the importance of communicating the underlying purpose and belief behind a brand. Sinek suggests that successful brands start by explaining why they exist and what drives them, rather than focusing solely on what they do or how they do it. This aligns with the idea of crafting a compelling brand message that goes beyond the features or benefits of a product or service and instead connects with the core values and motivations of the audience. By articulating the "why" of a brand, organizations can create a stronger emotional connection with their target market and differentiate themselves in a meaningful way.
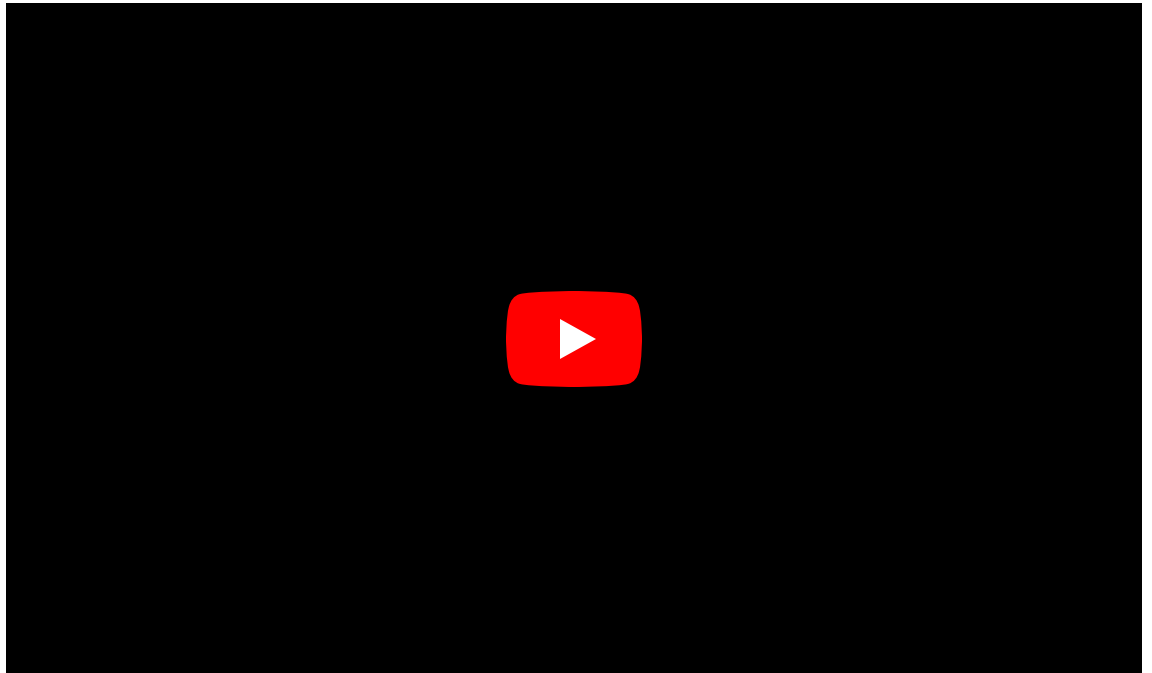
4.1. Developing a brand message

A great way to develop a successful brand message is to follow these six steps:

1, Create a brand positioning statement: To build a strong brand message foundation, start by defining the purpose and future direction of your business through mission and vision statements. These statements provide a comprehensive picture of who you are as a brand. Then, develop a brand positioning statement that articulates how your product or service is of value to your target audience, addressing their pain points and highlighting how you solve their problems. It should explain your mission, approach, relevance, target audience, challenges.

2, Carry out a competitor analysis: It's important to analyze your competitors' brand messaging. Understanding how your competitors position themselves in the market can help you differentiate your key messages and find a unique voice that resonates with your target audience.

3, Evolve a unique brand voice: To effectively connect with your audience and build long-term engagement, it's important to develop a unique brand voice that speaks directly to their pain points and needs. By understanding your customers and being inclusive in your messaging, you can create a relatable brand voice that resonates with a wider range of potential customers.

4.1. Developing a brand message

4, **Create tone and style guide:** To maintain consistency, create a tone of voice and style guidelines that set benchmarks and rules for branding. This guide will serve as a reference for marketing, advertising and customer relations, providing clear instructions on how to communicate your brand and enabling effective measurement and analysis of brand messages.

5, **Communicating with your audience:** Talking to customers is key to effective brand messaging. Rather than talking at them, actively listen to their needs and engage them through community management, respond to their feedback, and foster meaningful interactions to build strong relationships with your audience.

6, **Evaluate**: In the dynamic world of digital marketing, it's important to regularly evaluate and adapt your brand messaging to align with changing customer needs and market conditions. Rebranding is a natural part of this process, reflecting an evolution in your target audience or business focus, and allows you to better serve your customers by adjusting your brand messaging accordingly.

4.2. Setting goals and objectives

Digital marketing goals and objectives are **key to measuring the success of a strategies and maximising the return on investment.** By setting clear metrics - such as generating more leads, improving conversion rates, increasing sales and website traffic - businesses can effectively track progress and optimise their marketing efforts. These goals provide tangible targets and help align marketing strategies with overall business objectives. They also allow businesses to evaluate the effectiveness of their digital advertising spend and make informed decisions to drive growth and profitability. Without well-defined goals and objectives, digital marketing activities can be directionless and fail to deliver measurable results. Therefore, the definition of specific, measurable, achievable, relevant and time-bound (**SMART**) goals is essential for successful digital marketing strategies.
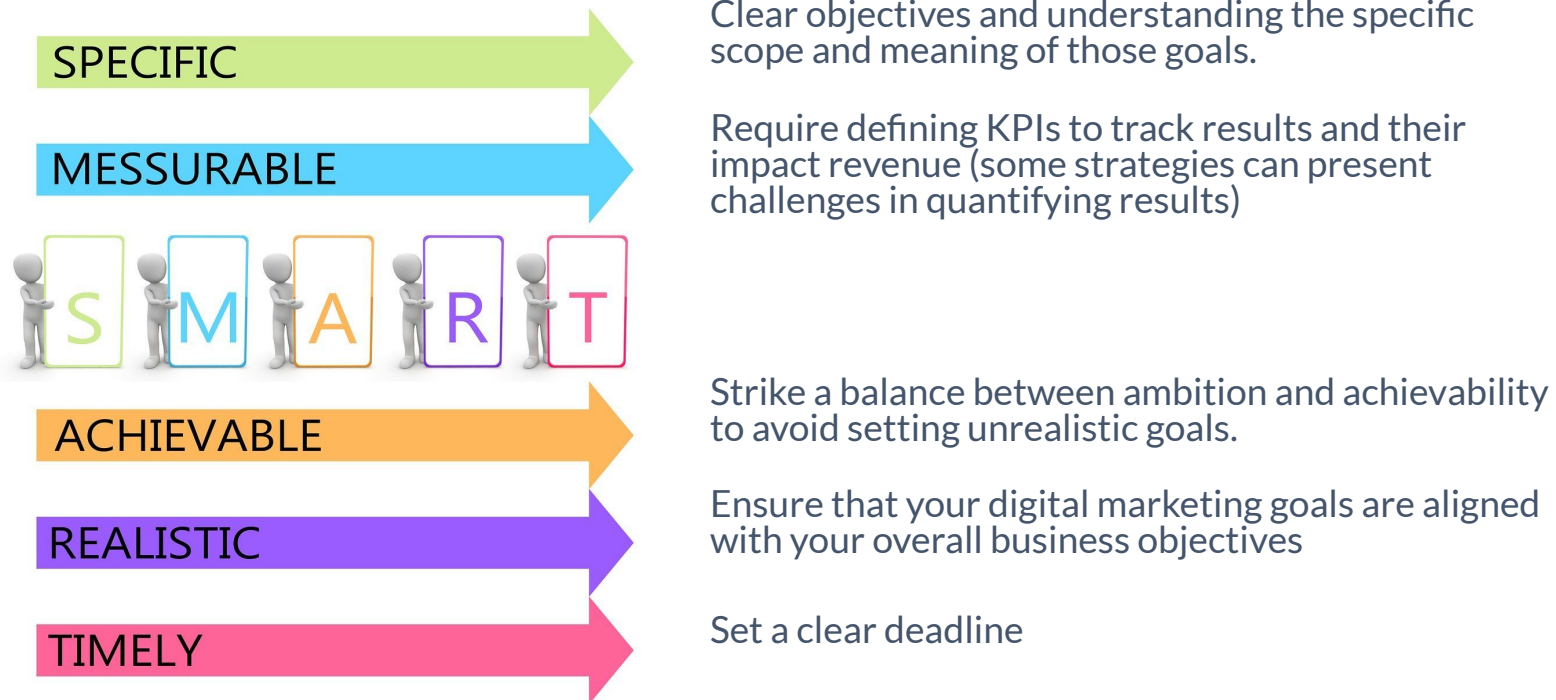
4.2. Setting goals and objectives

When setting digital marketing goals and objectives, it is important that they are **SMART** (specific, measurable, achievable, relevant and time-bound). For example, if your goal is to generate more leads, consider factors such as your target audience, the channels you need to reach them, the number of leads you want, relevant KPIs to track, achievable growth targets, and how your product or service addresses customer pain points. It is essential that the campaign has a clear timeline and that you evaluate its success within this timeframe. To achieve your goals, **conduct keyword research, optimise your website for ranking, and create dedicated landing pages to capture potential customer data**. Also, **focus on understanding the customer journey and design your messaging and channels accordingly.** Don't be afraid to experiment with different approaches to find what works best for your audience. **Regularly evaluate and adjust** your digital marketing strategies based on the results.

4.2. Setting goals and objectives

SMART GOALS

SPECIFIC

MESSURABLE

S M A R T

ACHIEVABLE

REALISTIC

TIMELY

Clear objectives and understanding the specific scope and meaning of those goals.

Require defining KPIs to track results and their impact revenue (some strategies can present challenges in quantifying results)

Strike a balance between ambition and achievability to avoid setting unrealistic goals.

Ensure that your digital marketing goals are aligned with your overall business objectives

Set a clear deadline

4.2. Setting goals and objectives

Ten-measure design tests for improvement by Professor Andy Neely:
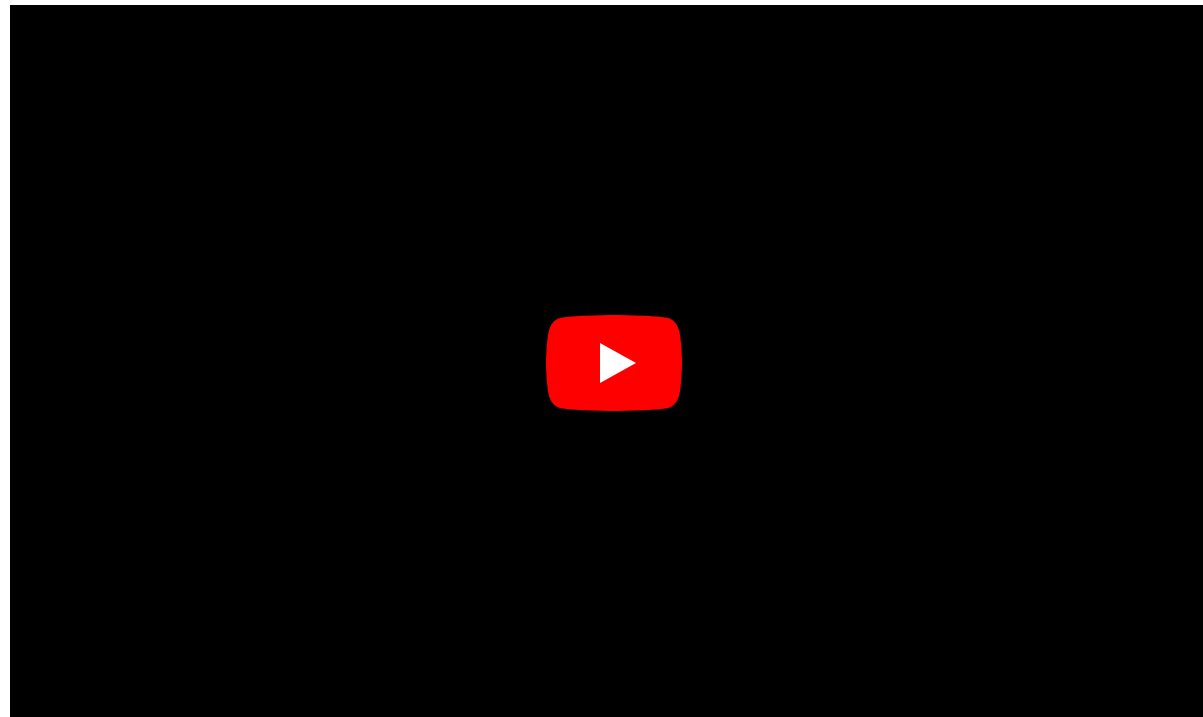
4.3. Target audience analysis

Target audience analysis is a **systematic process** that involves collecting and analyzing information about the individuals who are most likely to be interested in and benefit from your product or service. The purpose of this analysis is to **identify the specific and shared characteristics** of your target audience. Conducting a target audience analysis involves **various research methods**, which can be tailored to your specific business and product stage. The chosen approach helps define the type of target audience you are focusing on and guides the analysis of key factors in your marketing strategy. Some **common steps** in target audience analysis include conducting market research to identify customer demographics, preferences, and behaviors, analyzing competitors to understand their target audience and positioning, utilizing data analytics to gain insights into customer interactions and engagement, and utilizing customer surveys or focus groups to gather direct feedback and opinions. The information gathered from target audience analysis informs the development of marketing messages, channels, and tactics that effectively resonate with and reach your intended audience. By understanding your target audience's needs, motivations, and preferences, you can tailor your marketing efforts to attract and engage them, ultimately driving successful business outcomes.

4.3. Target audience analysis

Target audience analysis involves breaking down your analysis into different categories or types of target audiences. These categories typically include **demographics, interests, consumer behavior, and product-specific criteria.** By understanding each category, marketers can gain insights into their customers' characteristics and preferences.

The first category, **demographics**, focuses on factors such as age, gender, socioeconomic status, income, education, marital status, and profession. This information provides a basic understanding of the target audience's profile. The second category, **interests**, explores common hobbies, sports preferences, reading materials, music and movie genres, values, political tendencies, and social involvement. This helps marketers identify shared interests and preferences among their target audience. **Consumer behavior** is another important category, as it involves analyzing how customers make purchasing decisions. This includes understanding the length of the purchasing process, preferred social networks, payment preferences, and the marketing channels that drive customer engagement. The last category, **product-specific criteria**, is focused on tailoring the analysis to specific products or solutions. This involves identifying unique features, pain points solved by the product, and the target audience most likely to benefit from it. It is particularly relevant for businesses offering different subscription packages or niche products.

4.3. Target audience analysis

To find and research the target first define your buyer persona! Detailed profiles of buyer personas and ideal customers are key to digital strategy, as they allow businesses to understand their target audience at a deeper level. By identifying characteristics, motivations, preferences and behaviours, businesses can design their marketing strategies and messages to effectively engage and connect with their ideal customers. Customer personas help identify the most relevant digital channels and platforms, optimise resource allocation and enhance targeting efforts. They are also used in content development to meet specific needs, establish brand authority and personalise digital experiences to create a tailored customer journey. Adopting a customer-centric approach through customer personas will increase customer satisfaction, loyalty and support, leading to long-term business success in the digital environment.

Methods or platforms to find your target can be for example surveys, Google Analytics, Facebook or Twitter Insights, relevant online groups.

4.4. Creating a budget and timeline

The digital marketing budget is the **amount of money a business spends on digital marketing activities.** It represents the financial resources **dedicated to various digital marketing strategies** such as advertising campaigns, social media marketing, content creation, search engine optimisation, email marketing, etc. The budget typically includes spending on advertising platforms, marketing tools, staff, content production and analytics. A well-defined digital marketing budget helps businesses to effectively plan and execute their online marketing activities, **ensuring that they allocate the right resources to achieve marketing objectives and maximise return on investment (ROI).**The budget allows businesses to **prioritise and strategically allocate** funds between different digital channels and campaigns, while also providing a basis for evaluating the effectiveness and success of digital marketing initiatives.

4.4. Creating a budget and timeline

Setting a digital marketing budget involves *several steps.*

First, establish clear goals that align with your desired results. **Analyze past marketing efforts** to understand what has worked and what hasn't. **Allocate your budget** based on the success of different strategies, prioritizing those that have proven effective. **Consider future trends** and **emerging opportunities** to stay ahead in the market. **Break down your budget requirements** by considering the resources needed for various digital marketing channels, such as tools and personnel. Plan for content creation based on your business type and target audience. **Choose the platforms** that are most relevant to your target audience and adjust your budget accordingly. Finally, **monitor your results using analytics** to make informed adjustments and optimize your campaigns.

4.4. Creating a budget and timeline

A **digital marketing timeline** is a **structured roadmap** that outlines the key activities and milestones of a digital marketing campaign or strategy over a period of time. It is providing guidance on when to **implement different tactics**, **tracking progress** and **evaluating the overall success of digital marketing activities**. The digital marketing timeline is important for a number of reasons. First, it helps to provide a **clear and organised plan** for implementing digital marketing initiatives. By breaking down the campaign into specific timeframes, you can **allocate resources**, **set deadlines** and ensure that all **necessary tasks are completed on time**. Furthermore, the digital marketing **timeline facilitates effective tracking and measurement of key performance indicators (KPIs)**. By defining milestones and tracking progress at set intervals, you can evaluate the effectiveness of your strategies and make adjustments where necessary. This helps you optimise campaign performance and maximise return on investment.

4.4. Creating a budget and timeline

A well-defined marketing timeline is essential for effective project management and successful campaign implementation. This starts **with monitoring and optimising workflows** to streamline processes and eliminate inefficiencies. **Clear marketing objectives** should then be defined, including goals such as increasing website traffic. The **development of a strategic plan** based on these objectives will guide the overall marketing approach. **Setting deadlines** for each campaign ensures a reasonable timeline for completion, striking a balance between efficiency and a sense of urgency. **Regular monitoring** of progress is essential to keep projects on track and to manage potential obstacles. By **measuring the success** of the strategy and making the necessary adjustments, the marketing timeline helps to optimise performance and achieve the desired results.

4.5. Social media marketing

Social media marketing (SMM), also known as **digital marketing and e-marketing**, uses **social media platforms to promote a businesses' brand, boost sales and increase website traffic**. It involves leveraging social networks to connect with existing customers and attract new ones. SMM is differentiated by its data analytics capabilities, which allow marketers to measure the effectiveness of their campaigns and uncover additional opportunities for engagement. Using SMM strategies, businesses can create meaningful interactions with their target audiences, increase brand visibility and ultimately drive business growth. The wide reach and interactive nature of social media platforms offer a unique opportunity to connect with customers on a more personal level and build loyalty.

CONNECTION

INTERACTION

CUSTOMER DATA

4.5. Social media marketing

Social media marketing (SMM), also known as **digital marketing and e-marketing**, uses **social media platforms to promote a businesses' brand, boost sales and increase website traffic**. It involves leveraging social networks to connect with existing customers and attract new ones. SMM is differentiated by its data analytics capabilities, which allow marketers to measure the effectiveness of their campaigns and uncover additional opportunities for engagement. Using SMM strategies, businesses can create meaningful interactions with their target audiences, increase brand visibility and ultimately drive business growth. The wide reach and interactive nature of social media platforms offer a unique opportunity to connect with customers on a more personal level and build loyalty.

4.5. Social media marketing

To create an effective social media marketing (SMM) action plan, it is crucial to align **SMM goals with clear business objectives** and **understand your target customer** through demographic and competitive analysis. **Auditing** current SMM efforts helps identify successes and failures. **Creating a content calendar** and delivering high-quality content engages and attracts customers. **Tracking performance** metrics allows for adjustments to the SMM strategy as needed. SMM offers advantages in customer relationship management, shareable content creation, earned media from customer reviews and recommendations, and viral marketing. The refined customer segmentation on social media enables companies to focus marketing resources on target audiences. Key SMM metrics to track include engagement, impressions, reach/virality, share of voice, referrals, conversions, and response rate/time. It is essential to align each business goal with a relevant metric to measure campaign effectiveness accurately.
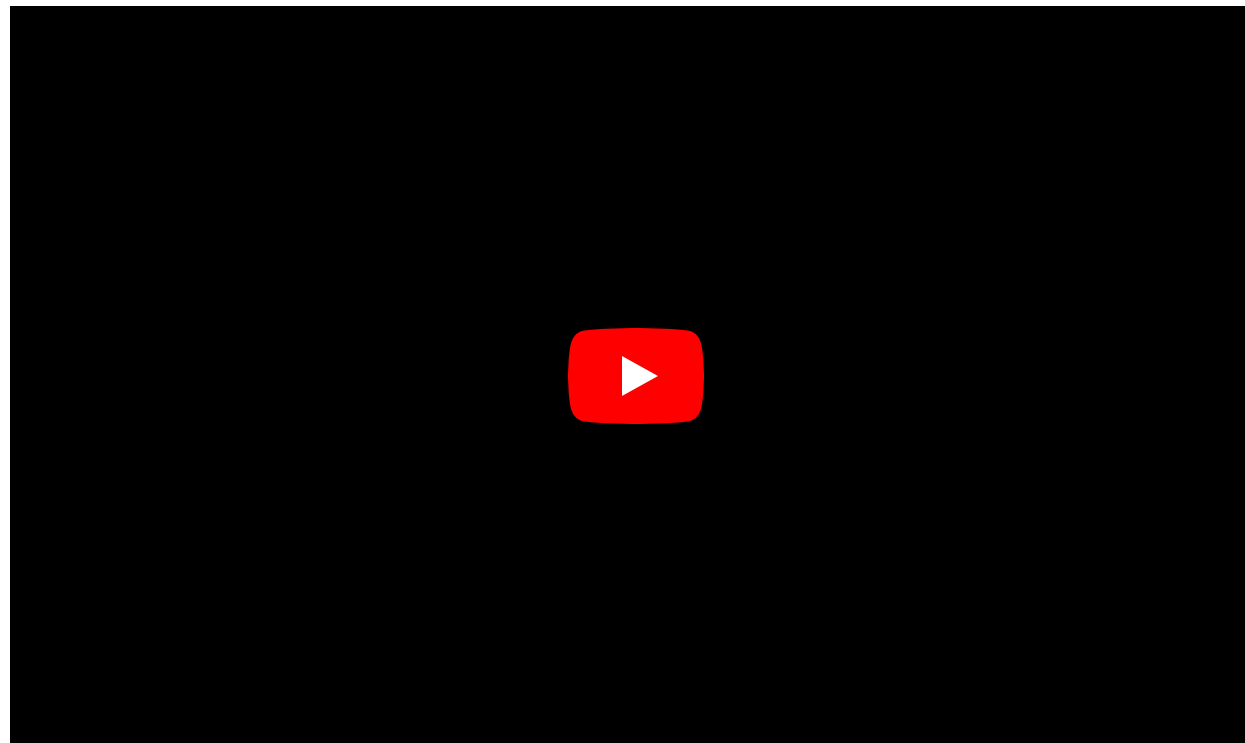
4.6. Search Engine Optimization (SEO)

Search Engine Optimization (SEO) is the practice of optimizing a website to improve its visibility and rankings in search engine results pages (SERPs). By targeting relevant keywords, creating high-quality content, and obtaining links from reputable sources, SEO aims to drive organic and unpaid traffic to a website. The ultimate goal of SEO is to increase a website's visibility in search results, leading to more clicks and potential customers. Successful SEO involves thorough keyword research, creating valuable content that caters to user intent, and building authoritative backlinks. It is also essential to monitor and measure the results of SEO efforts using analytics tools to evaluate the effectiveness of the optimization strategies. By implementing effective SEO techniques, businesses can enhance their online presence, attract targeted organic traffic, and improve their chances of converting visitors into customers. For a deeper understanding, watch the following videos:
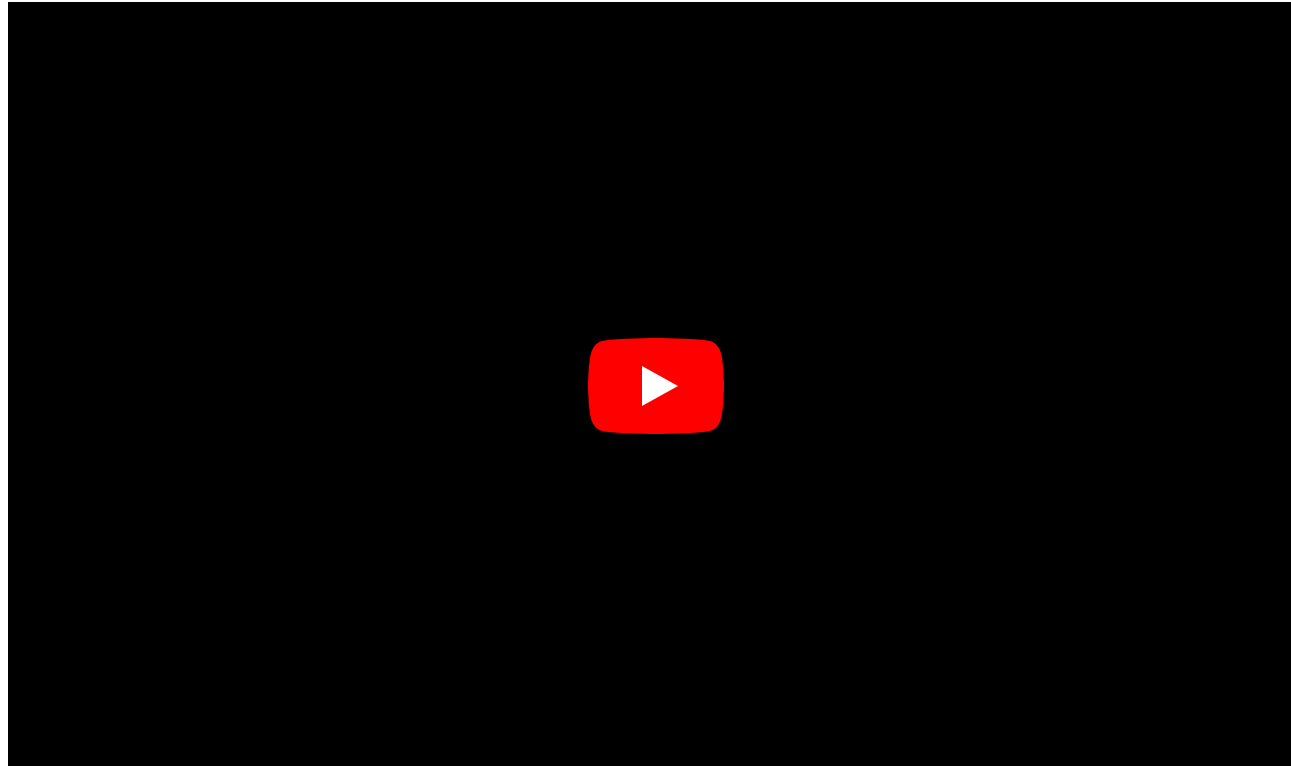
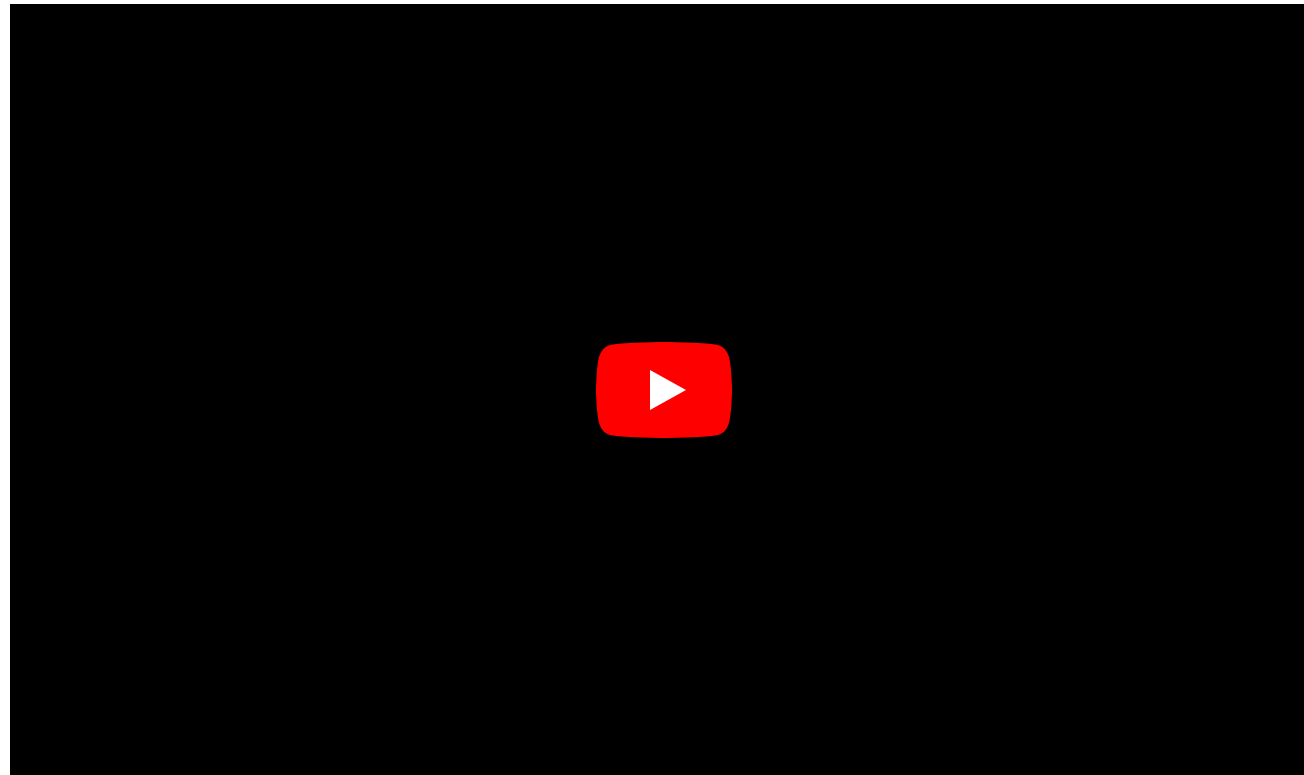# 4.6. Search Engine Optimization (SEO)

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The three pillars of SEO are **Technical Optimisation**, **On-Page Optimisation** and **Off-Page Optimisation**. **Technical optimisation** focuses on improving the technical aspects of a website to improve SEO, such as page speed, mobile-friendliness and crawlability. **On-Page Optimization** involves optimizing the content of the website, including keyword research, metadata optimization, and creating high-quality and engaging content for users. **Off-Page optimisation** involves activities outside the website that improve search engine rankings, primarily by building backlinks from high-quality, reputable sources. This includes strategies such as link building, influencer outreach and social media promotion. By addressing all three pillars of SEO, can help improve your website's visibility in search engine results, attract organic traffic, and increase the chances of ranking higher for relevant keywords.

It is important to regularly evaluate and adjust SEO strategies to keep up with industry changes and algorithm updates to maintain and improve search engine rankings.

4.7. Execution and optimization

Digital marketing execution is the practical implementation of digital marketing strategies to bring them to life. This involves implementing plans using a variety of digital channels such as websites, search engines, social media platforms, email and online advertising to engage with target audiences and achieve marketing objectives. The implementation phase requires careful planning, coordination and management of the various activities. It includes tasks such as creating and publishing content, planning and launching advertising campaigns, optimising websites for search engines, managing social media accounts and measuring campaign performance.

Digital marketing optimisation, on the other hand, focuses on continuously improving and refining these strategies and tactics, including analysing data and metrics to identify areas of strength and weakness, making data-driven decisions, and implementing changes to optimise performance and achieve better results.

4.7. Execution and optimization

To **effectively execute** your marketing projects, follow these key steps. Firstly, **identify the necessary skill sets** based on your marketing strategy's channels and tactics, including content creation, strategy, design, and analysis. Secondly, begin with a concise and specific **creative brief** that outlines the project's details, target audience, goals, KPIs, timeline, and budget to align the team and prevent scope creep. Next, **break down the project into tasks** and collaborate with team members to estimate the time required for each task, enabling effective workload management and timely completion. **Utilize a marketing calendar** to centralize project details, prioritize tasks, and facilitate coordination. Transform your marketing strategy into actionable **checklists** with specific action verbs, ensuring tasks are not overlooked and progress can be tracked easily. Integrate project checklists into a work management software for seamless incorporation into daily workflows and utilize task templates for efficient task replication. Implement a **project approval process** to obtain necessary confirmations and prevent delays, leveraging tools. Finally, **regularly review analytics**, maintain clear communication, establish realistic deadlines, allocate buffer time, and maximize productivity by working during peak hours.

4.7. Execution and optimization

Digital marketing optimization involves improving and refining digital marketing strategies through data analysis and making data-driven changes.

It starts with **gathering and analyzing data** from various digital marketing channels to gain insights into user behavior and campaign performance. Based on this analysis, adjustments can be made to elements such as targeting, messaging, ad placements, content strategy, and conversion optimization. **Continuous monitoring of key performance indicators (KPIs)** helps assess the impact of optimizations and measure success.To optimize digital marketing, leverage automation tools for better efficiency, utilize data and analytics to make informed decisions, research and understand the target audience, harness the power of social media for scalable marketing, prioritize search engine optimization (SEO) to improve visibility, and create a strong online presence through website development and branding strategies.

5. Trends and Future Outlook

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5.1. Digital marketing trends

If we look at the present of digital marketing, we can observe the following trends in general.

Influencer marketing continues to rise in popularity, with both big-name celebrities and micro-influencers proving effective in expanding brand awareness and driving conversions. **User-generated content** and **short-form video** content is gaining traction as marketers recognize its ability to engage online audiences with its concise and fast-paced nature. **Social media** is evolving into a powerful customer service tool, with direct messages being used to offer support, while **SEO strategies** are set to become even more important for businesses looking to improve their search traffic. **Mobile optimization** is crucial as consumer behavior shifts towards mobile devices, and companies are prioritizing social responsibility to appeal to socially conscious consumers. **Aligning marketing** and sales teams is vital for success, while **experiential marketing** is making a comeback through immersive digital platforms. **Inbound marketing** remains a best practice, focusing on quality content and exceptional customer service. **Interactive content** (e.g polls, games, assessments) is highly valued by marketers due to its ability to drive audience engagement, generate leads, foster brand loyalty, and enhance the learning experience. **Virtual reality** and **augmented reality** adoption in marketing has been slower than anticipated, and **native advertising** is gaining traction as an effective way to reach and engage audiences.

5.1. Digital marketing trends

Content marketing, **social media marketing**, **search engine optimisation (SEO)** and **data protection** are the trends that are shaping digital marketing. Content marketing is still essential and video and blogging are highly effective formats. Social media marketing is key to brand engagement, and platforms such as I*nstagram* and *TikTok* offer e-commerce functionality. SEO focuses on keyword optimization, video/image SEO, link building, story optimization and chatbots that provide effective customer interactions. Data privacy is a growing concern and brands need to give consumers control over their data by complying with regulations such as GDPR. Compliance and responsible data management are paramount to maintaining trust.

Additionally, there will be a shift towards **integrated marketing strategies** that consider the various customer touchpoints, using appropriate tactics and channels to deliver a seamless and consistent experience. Investing in technology and infrastructure, such as marketing automation and data analytics tools, will be crucial for executing these strategies effectively.

5.2. Future Outlook

As businesses target *Gen Z*, they need to focus on delivering memorable experiences and adopting a global perspective. **Utilizing digital marketing tools**, such as SEO, data analytics, and AI, will enable automation and data-driven decision-making. **Personalized targeting** and **storytelling** will be crucial for effective communication, while **augmented reality** and **voice optimization** will enhance customer engagement. An **omnichannel** and **integrated approach across digital channels** will help businesses understand changing consumer behavior. **Increased market** and **consumer awareness**, along with smart data analysis, will provide valuable insights. The future of marketing will be shaped by the **metaverse** and **immersive technologies**, where online and offline experiences merge seamlessly. Content will become richer and more interactive, with a focus on **AR experiences**. **Non-fungible tokens** (NFTs) will extend beyond artworks, transforming areas like legal documents and live entertainment. Social media will be deeply integrated into everyday life. **Virtual try-ons**, **seamless shopping experiences**, and **sensory engagements** will be possible. **Immersive training** will offer engaging learning experiences.
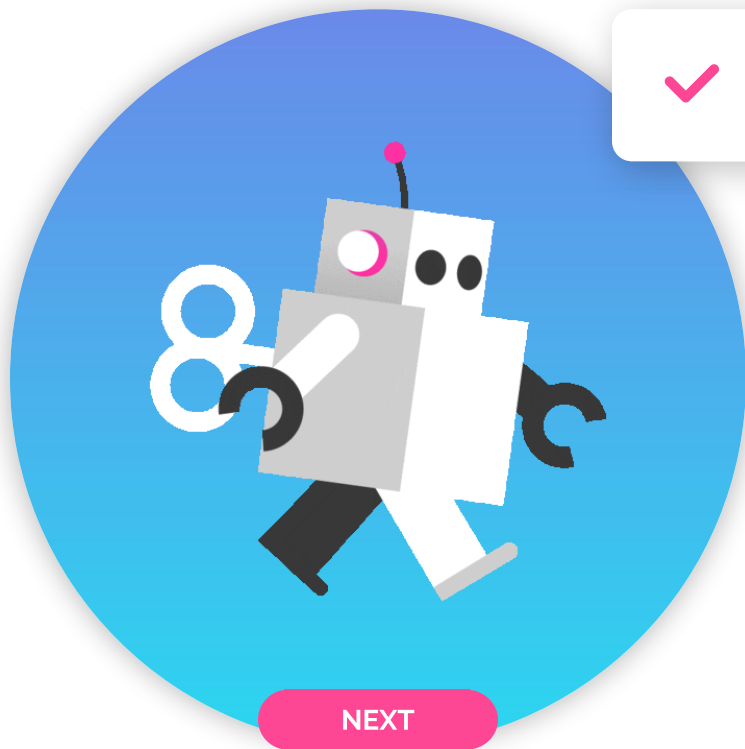
6. QUIZ
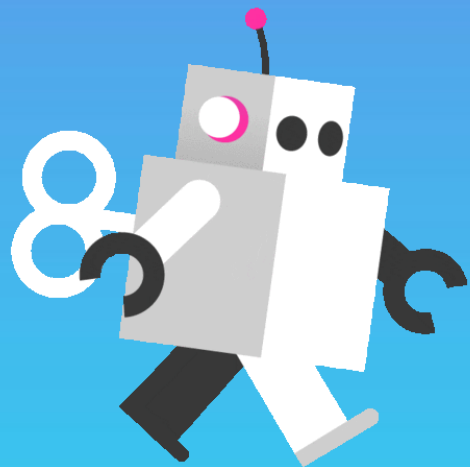
START

Which statement is true?

The three types of digital media are owned, paid and earned

The three types of digital media are licensed, paid and owned.

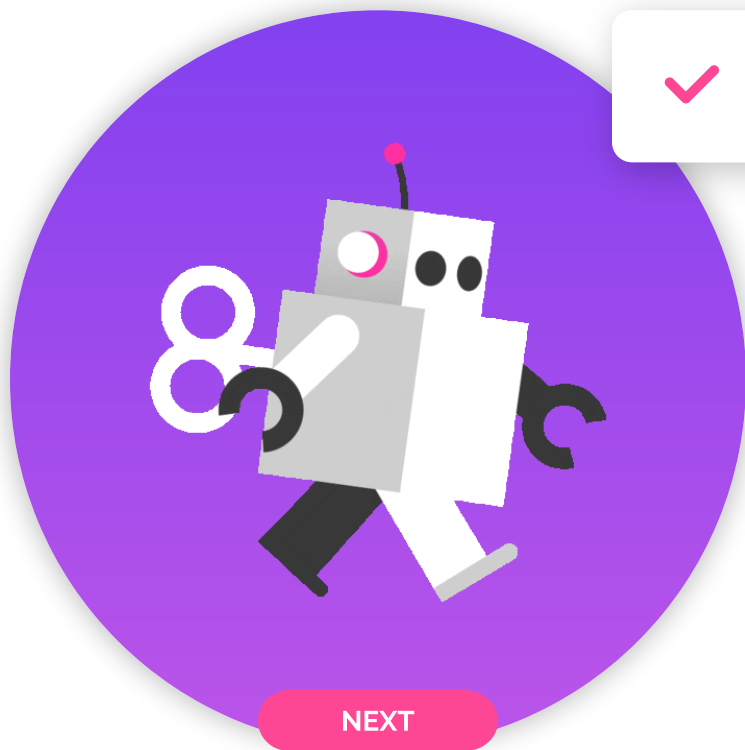The three types of digital media are owned, borrowed and earned.

RIGHT!

NEXT

Which of these is not a brand message?

Slogan

Defining a buyer persona

Value proposition

RIGHT!

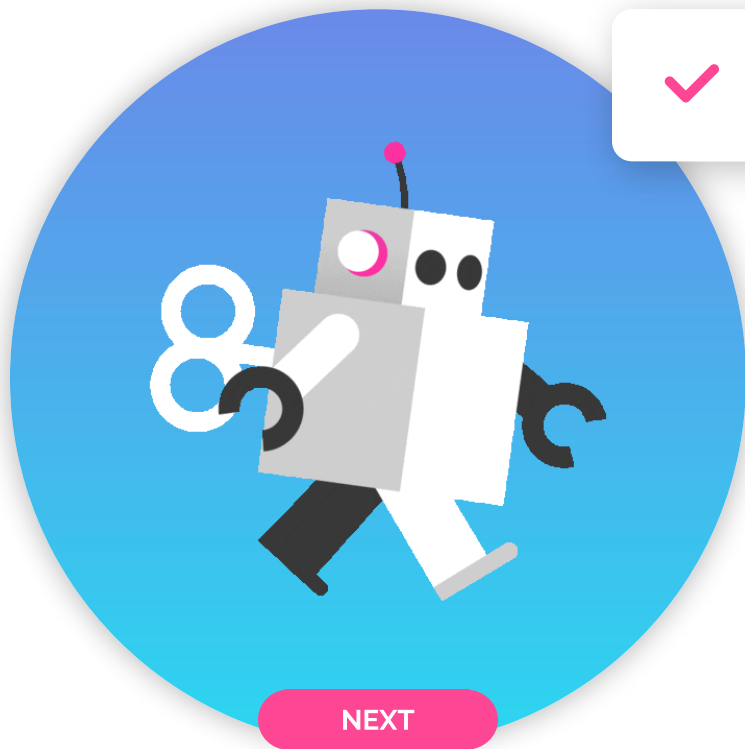NEXT

Which statement is true?

Digital marketing execution is the practical implementation of digital marketing strategies.

Digital marketing execution is the final closure of digital marketing strategies

Digital marketing execution is the translation of digital marketing strategies into a completely different strategy
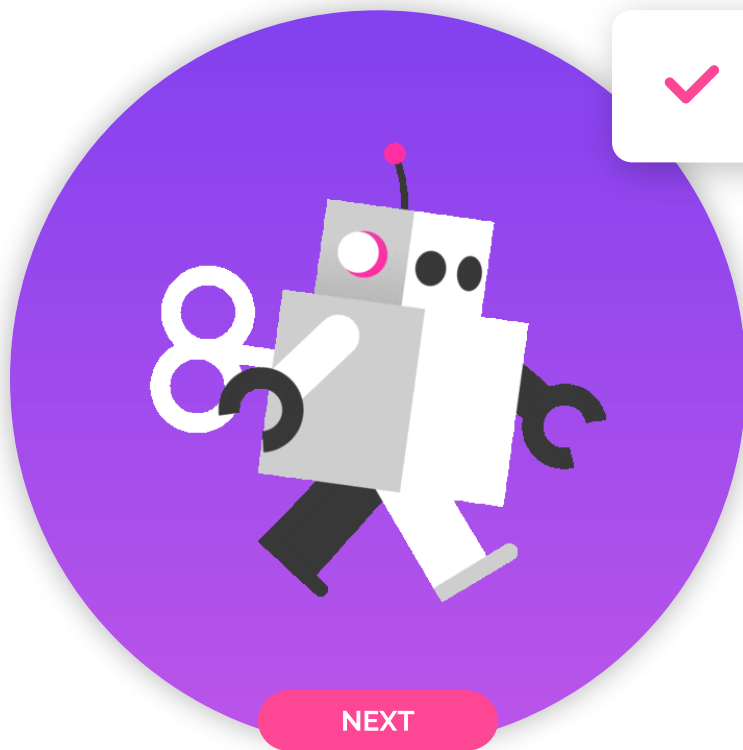
RIGHT!

NEXT

Who requires memorable experiences and the adoption of a global perspective in the first place?

Digital marketing execution is the final closure of digital marketing strategies

Digital marketing execution is the practical implementation of digital marketing strategies

Digital marketing execution is the translation of digital marketing strategies into a completely different strategy

7. CASE STUDY

Read the blogpost and reflect about...

1, What was the key to the success of these businesses?

2, How have they achieved this?

3, What do you learn from these case studies?

+ REFERENCES

8. Conclusions

1. You understand digital marketing principles and techniques.
2. You able to research, formulate and implement comprehensive digital marketing plans.
3. You learned identify and analyse target audiences using digital data and analytics tools.
4. You learned how to create and implement digital marketing campaigns.
5. You learned how to create content tailored to the specific platform.
6. You developed a critical perspective on digital marketing and digital platforms.
7. You learned to adapt to the changing nature of digital media and digital marketing to remain competitive in the marketplace.
8. You discovered trends and future outlook.

9. Bibliography

Benitez, C.J. (2022, August 5).How to create a marketing timeline in 6 steps (+ templates). Visme Blog. https://visme.co/blog/marketing-timeline-template/

Bullock, L. (2022, December 5). How to plan, Measure and achieve your marketing goals. Smart Insights. https://www.smartinsights.com/digital-marketing-strategy/how-to-set-digital-marketing-objectives/

Bump, P. (2022, November 21). The top marketing trends of 2023 & how they've changed since 2022 [data from 1000+ global marketers]. HubSpot Blog. https://blog.hubspot.com/marketing/marketing-trends#general-marketing-trends

CoSchedule. (2023, January 5). How to turn marketing strategy into marketing execution in 8 steps. CoSchedule Blog. https://coschedule.com/marketing-strategy/marketing-execution

Davis, J. (2022, October 12). Council post: What is the future of Digital Marketing?. Forbes. https://www.forbes.com/sites/forbesbusinesscouncil/2022/05/25/what-is-the-future-of-digital-marketing/?sh=56b1f73543fd

DMI, S. (2018, December 14). How to plan A Digital Marketing Budget. Digital Marketing Institute. https://digitalmarketinginstitute.com/blog/how-to-plan-a-digital-marketing-budget

DMI, S. (2022, September 22). What is Seo and how does it work?. Digital Marketing Institute. https://digitalmarketinginstitute.com/blog/what-is-seo

Eslamboli, M. (2023, February 16). Council post: 5 predictions for Digital Marketing in 2023. Forbes. https://www.forbes.com/sites/forbesagencycouncil/2023/02/15/5-predictions-for-digital-marketing-in-2023/?sh=50c692df719d

Gillis, S. A, Horwitz, L (2022, Oct 5). What is digital marketing? Everything you need to know: Definition from TechTarget. Customer Experience. https://www.techtarget.com/searchcustomerexperience/definition/digital-marketing

9. Bibliography

Grissom, D. (2023, April 27). 11 future marketing trends that will define 2023. Impact Networking. https://www.impactmybiz.com/blog/future-marketing-trends/

Hayes, A. (2023, June 28). Social Media Marketing (SMM): What it is, how it works, Pros and Cons. Investopedia. https://www.investopedia.com/terms/s/social-media-marketing-smm.asp

Indeed Editoral Team. (2022, June 25). 15 digital marketing metrics for businesses (and how to use). Indeed. https://www.indeed.com/career-advice/career-development/digital-marketing-metrics

Kakkar, V (2023, July 6). Importance Of Digital Marketing For Entrepreneurs. IIM SKILLS. https://iimskills.com/importance-of-digital-marketing-for-entrepreneurs/

Marcene, B. (2023, May 19). The future of digital marketing is different than you think. ASBN Small Business Network. https://www.asbn.com/articles/the-future-of-digital-marketing-is-different-than-you-think/

Marketing optimization: How-to and Tools. Mailchimp. (n.d.). https://mailchimp.com/resources/what-is-marketing-optimization/

Preston, L. (2023, May 19). What is Digital Media?. Digital Marketing Services Digital Logic TM. https://www.digitallogic.co/blog/what-is-digital-media/

Raeburn, A. (2022, June 15). Brand messaging 101: A complete guide [2022]. Asana. https://asana.com/resources/brand-messaging-framework

Schneider, D. (2023, March 27). What is a Target Audience and How You Can Analyze Yours. Similarweb. https://www.similarweb.com/blog/research/audience-and-brand-building/target-audience-analysis/

Top 10 Digital Marketing Metrics and Kpis. Klipfolio. (n.d.). https://www.klipfolio.com/resources/kpi-examples/digital-marketing

What are digital marketing goals and objectives?: Wrike Guide. Versatile & Robust Project Management Software. (n.d.). https://www.wrike.com/digital-marketing-guide/faq/what-are-digital-marketing-goals-objectives/

Module 5: Entrepreneurial Culture and Business Models ideas

Mentoring and support for young people starting digital entrepreneurship handbook module

START

Index

Explore now all the contents of this module!

1. Presentation of the module
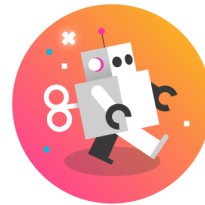
2. Learning outcomes

3. Entrepreneurial Mindset and Culture

4. Business Models for Digital Entrepreneurship

5. Ideas Generation and Validation

6. Industry Examples and Future Trends

7. Quiz

8. Case study

Conclussions and bibliography

1. Presentation of the module

Welcome to the Module "Entrepreneurial Culture and Business Model Ideas" module! In this module, we will explore different aspects of entrepreneurial culture, focusing on developing an entrepreneurial mindset, understanding different business models, generating and validating ideas, exploring industry examples and examining future trends. By delving deeper into the entrepreneurial mindset, we will uncover the attitudes and behaviours that drive successful entrepreneurs. We will then explore business models, analyse their characteristics and examine their application in the digital world. Idea generation and validation will be a key part of this module, where we will learn techniques to create innovative ideas and validate their feasibility in the marketplace. In addition, we will analyse industry examples that demonstrate real-life applications of digital entrepreneurship in different sectors. Finally, we will focus on future trends that will shape the entrepreneurial landscape. Prepare for a journey of entrepreneurial discovery and innovation!

2. Learning outcomes

- Understand the entrepreneurial culture and its significance for digital entrepreneurship.
- Understand the entrepreneurial mindset.
- Understand the different business models for digital entrepreneurship and its applications.
- Understand the different types of digital entrepreneurship and their characteristics.
- Awareness of the opportunities and challenges in the digital entrepreneurship world.
- Understanding the methods for generating innovative business ideas.
- Understanding the method of validating business ideas.
- Discover industry examples and future trends.

3. Entrepreneurial Mindset and Culture

INDEX OF THE CONTENTS OF THIS PART OF THE MODULE

3.1. Importance of entrepreneurial mindset and culture

The *entrepreneurial mindset* and culture are crucial elements for fostering innovation, growth, and success. It is characterized by **risk-taking**, **opportunity orientation**, **creativity**, and **resilience**, empowers individuals to think like entrepreneurs, drive problem-solving, and embrace continuous learning and adaptability.
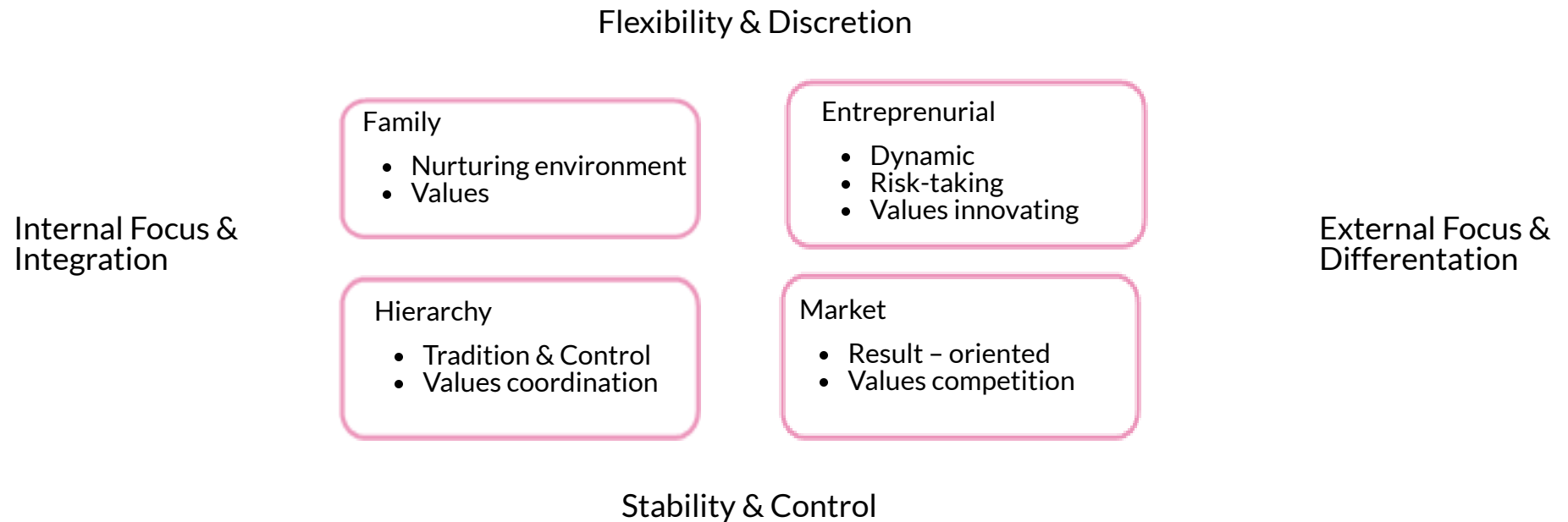
On the other hand, *entrepreneurial culture*, shaped by shared **beliefs**, **values**, and **behaviors**, creates an environment that nurtures and supports entrepreneurial thinking, collaboration, and initiative.

Together, they are important as they cultivate an ecosystem that encourages innovation, fosters entrepreneurial leadership, drives economic development, and empowers individuals and organizations to thrive in dynamic and competitive environments.

3.2. Components of entrepreneurial culture

Types of culture (Quinn & Cameron)

Flexibility & Discretion

Internal Focus & Integration

Family
- Nurturing environment
- Values

Entreprenurial
- Dynamic
- Risk-taking
- Values innovating

Hierarchy
- Tradition & Control
- Values coordination

Market
- Result – oriented
- Values competition

External Focus & Differentation
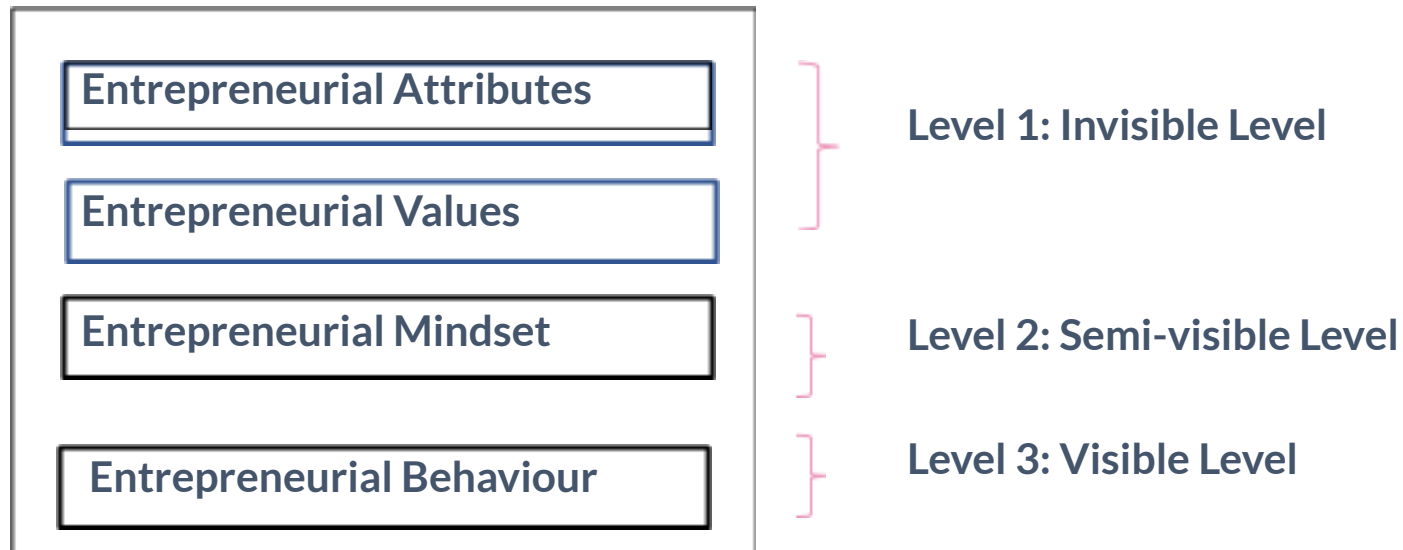
Stability & Control

3.2. Components of Entrepreneurial Culture

Entrepreneurial culture encompasses various levels that contribute to the overall entrepreneurial ecosystem. At the foundation are **entrepreneurial attributes**, which serve as indicators of an individual's potential to succeed as an entrepreneur and provide practical insights into how entrepreneurial culture is manifested. Building upon these attributes are **entrepreneurial values**, which act as the driving force behind an entrepreneur's decision-making process. These values influence the choices and actions taken by entrepreneurs as they navigate their entrepreneurial journey. The **entrepreneurial mindset** plays a crucial role in shaping an entrepreneur's mental attitude and determines how they react to different situations. This mindset encompasses a combination of optimism, resilience, adaptability, and a growth-oriented perspective that enables entrepreneurs to overcome challenges and seize opportunities. Ultimately, **entrepreneurial behavior** is the tangible outcome of an entrepreneur's actions. It involves a series of deliberate and continuous adjustments that are made to refine and position an entrepreneurial offering in the market. Entrepreneurs actively respond to market feedback, iterate their strategies, and adapt their approaches until they find a product-market fit that is accepted and embraced by customers.

3.2. Components of Entrepreneurial Culture

The Levels of the Components of Entrepreneurial Culture

Entrepreneurial Attributes	Level 1: Invisible Level
Entrepreneurial Values	
Entrepreneurial Mindset	Level 2: Semi-visible Level
Entrepreneurial Behaviour	Level 3: Visible Level

3.2. Components of Entrepreneurial Culture

1. People and Empowerment focused
2. Value creation through innovation and change
3. Attention to basics
4. Hand-on management
5. Doing the right thing
6. Freedom to grow and to fail
7. Commitment and personal responsibility
8. Emphasis on the future and a sense of urgency

3.3. Characteristics of successful entrepreneurs

Entrepreneurs possess a range of traits and skills that contribute to their success. **Curiosity** drives their constant search for opportunities and valuable discoveries. They combine curiosity with **structured experimentation**, conducting thorough market research and tests to validate ideas. **Adaptability** is essential as entrepreneurs navigate the ever-changing business landscape, remaining flexible in the face of challenges and unexpected situations. **Decisiveness** is crucial for making difficult decisions and taking corrective action when needed. **Building well-rounded teams** is recognized as important, as cohesive efforts contribute to entrepreneurial success. Entrepreneurs embrace **risk** while actively minimizing and managing it. They **understand that failure** is a part of the journey and use it as a stepping stone for growth. **Persistence** is a key characteristic, as entrepreneurs learn from mistakes, persistently pursue their goals, and ask critical questions. **Innovation** is closely intertwined with entrepreneurship, as successful ventures often improve existing products or services to meet evolving market needs. Lastly, entrepreneurship requires **long-term focus** beyond the initial launch, as opportunities can arise throughout the venture's growth.

3.4. Way to develop an entrepreneurial mindset and culture

COMFORTABLE WITH DISCOMFORT

NOT FEAR OF FAILURE GROWTH - ORIENTED ACTION - ORIENTED

INDEPENDENT

FEEDBACK - SEEKING

RESPONSIBLE

MINDSET

FORWARD THINKING

GOAL - ORIENTED

SELF – ACCEPTING & AWARE

PROBLEM- SOLVING COLLABORATIVE   COURAGEOUS ADAPTABLE FOCUSED

3.4. Way to develop an entrepreneurial mindset and culture

To become a successful entrepreneur, it is crucial to **commit to your passion** and be prepared for the challenges that lie ahead. Having the world's greatest idea is not necessary; instead, a willingness to learn and grow is key to turning knowledge into action. Developing an entrepreneurial mindset requires resilience, tenacity, and motivation as starting points. In addition, **understanding the needs of the market** is essential. Entrepreneurship involves identifying gaps in the market and addressing unmet customer needs. This requires a deep understanding of the target audience and their pain points. Planning your **entrepreneurial vision** and building a strategy to achieve it is vital for long-term success. This allows you to navigate the ever-changing market and economic landscape, overcoming obstacles along the way. **Networking** with other entrepreneurs is also invaluable. It provides opportunities to exchange ideas, gain insights, and potentially find future business partners who share your vision and goals. Moreover, **setbacks should be viewed as learning opportunities**. Understanding and learning from mistakes can contribute to personal and professional growth, helping you develop a resilient and adaptive entrepreneurial mindset.

Anyone can develop the entrepreneurial mindset!

4. Business models for Digital Entrepreneurship

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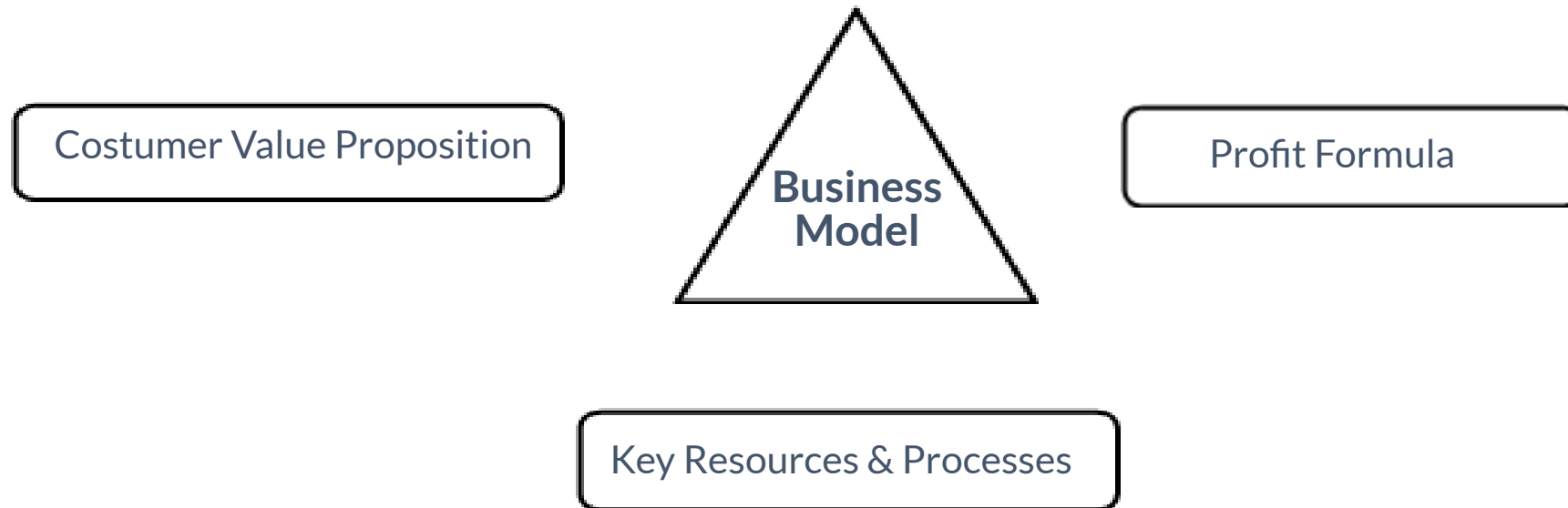# 4.1. Types of business models for digital entrepreneurship

When it comes to digital entrepreneurship, various types of business models can be adopted to drive revenue and profitability. *Business model* *serves as a strategic framework that outlines the details of a business's products or services, its target market, and how it plans to generate revenue and achieve profitability.*

Key elements of a business model include **customer categories**, which define the specific segments or groups of customers the business aims to serve. The **value proposition** highlights the unique value that the business offers to its customers, addressing their needs and solving their problems. **Distribution channels** play a vital role in how the business reaches and delivers its products or services to customers. **Customer relationships** focus on the interactions and connections established with customers to build loyalty and satisfaction. **Revenue streams** outline the different sources from which the business generates income, while resources and activities encompass the necessary assets, capabilities, and actions required to deliver the value proposition effectively. **Partnerships** can be essential for digital entrepreneurs, as they involve collaborations or alliances with other organizations to leverage resources, expand reach, or enhance capabilities. Finally, the **cost structure** outlines the various expenses and investments required to operate the business and maintain profitability.

4.1. Types of business models for digital entrepreneurship

Costumer Value Proposition

Business Model

Profit Formula

Key Resources & Processes

4.1. Types of business models for digital entrepreneurship

Digital entrepreneurship offers a range of business models that capitalize on the digital landscape. Some examles of such models: **Online courses/training** enable entrepreneurs to share expertise and knowledge through paid educational programs. **Software-as-a-Service (SaaS)** involves offering web-based tools or applications on a subscription basis to solve customer problems. **Affiliate marketing** involves promoting others' products or services through websites or platforms and earning commissions for successful referrals. **Membership websites/communities** provide exclusive content or services to members for a recurring fee. **E-commerce dropshipping** allows entrepreneurs to run online stores without physically stocking inventory, relying on suppliers for fulfillment. **Digital advertising/content monetization** generates revenue through valuable content (such as blogs, videos, podcasts) and partnerships. **Software/app development** involves creating and selling software or mobile applications to meet specific needs.

4.2. Examples and case studies of successful business models

Advertising–Supported

The advertising-supported business model generates revenue by displaying advertisements to users or customers. This model is based on the idea that if you are not paying for a product or service, you are the product being sold. It is a widely successful model used by platforms like *Facebook* and *Google*, who use AI and analytics to match users with relevant ads. Companies operating under this model either produce advertising for clients or provide ad space for advertisers to reach their target audience.

E-commerce

The e-commerce business model facilitates the buying and selling of products or services online. Webshops, or online stores, serve as platforms where businesses offer their products or services directly to customers through online transactions. In most cases, these businesses do not produce the items themselves but act as intermediaries, connecting buyers with sellers. A prominent example of the e-commerce model is *Amazon*, which provides a vast online marketplace for various sellers to reach customers worldwide.

4.2. Examples and case studies of successful business models

Marketplace

The marketplace business model serves as a platform where buyers and sellers can connect and engage in transactions. It encompasses both e-commerce providers and specialized platforms. In this model, products or services are listed and sold on the platform, with the marketplace deducting a commission or fee from each successful sale. Examples of marketplace platforms include *Airbnb*, where individuals can rent out their properties to travelers, *Ebay*, which enables individuals to buy and sell a wide range of products, and *Uber*, which connects riders with drivers for transportation services. These platforms create a digital marketplace that facilitates convenient and efficient transactions between parties.

Freemium

The freemium business model provides users with a basic version of a product or service for free, giving them access to its core functionality. This allows users to experience and get familiar with the offering. The model monetizes by offering premium features or advanced versions of the product or service at a cost, providing additional value or enhanced functionality to those who are willing to pay. Example of the freemium model is *Spotify*, which offers free access to its music streaming service with limitations, while offering a premium subscription that unlocks additional features and removes advertisements.

4.2. Examples and case studies of successful business models

Subscription

The subscription business model offers products or services on a recurring basis, usually with a predetermined fee or subscription price. This model provides businesses with a predictable and stable revenue stream, allowing for improved financial planning. Subscribers benefit from regular access to the offered products or services, often in a convenient and seamless manner, enhancing customer satisfaction and loyalty. The focus of subscription-based businesses is often on building long-term customer relationships and providing ongoing value, leading to higher customer retention rates. This model also opens opportunities for upselling or cross-selling additional offerings. *Netflix* is a prime example of a successful subscription-based business, providing subscribers with unlimited access to a vast library of movies and TV shows for a monthly subscription fee.

4.2. Examples and case studies of successful business models

Case Study 1: Airbnb

Airbnb operates as an online marketplace that connects travelers with hosts offering unique accommodations worldwide. Its business model is built upon **key components** such as a two-sided platform, enabling peer-to-peer sharing between guests and hosts. Trust and safety are crucial factors for Airbnb's success, as users rely on the platform for secure and reliable bookings. The company's innovations include personalization features and the introduction of the Experience Marketplace, which offers unique local experiences. Trust and safety, along with scalability and global reach, are the key success factors driving Airbnb's growth. However, the platform has faced challenges and controversies, including regulatory issues in certain locations and the need for maintaining quality control across its extensive network of hosts. Despite these challenges, Airbnb remains a prominent player in the online travel and accommodation industry.

4.2. Examples and case studies of successful business models

Case Study 2: Spotify

Spotify is a digital music streaming service that operates under a freemium model, offering both free and premium subscription options. **Key components** of its business model include content licensing agreements and data-driven personalization to enhance the user experience. Spotify has innovated by expanding into the podcast industry and providing tools for artists and creators. Strategic partnerships with record labels and other platforms have also been crucial to its success. Continual innovation has allowed Spotify to stay ahead in the highly competitive music streaming market. Challenges and controversies for Spotify have revolved around royalty payments to artists and negotiations with music licensing entities. However, the company has made efforts to improve royalty distribution and maintain positive relationships with artists and the music industry. Overall, Spotify's business model has positioned it as a leading player in the digital music streaming space, focusing on user experience, strategic partnerships, and continuous innovation to maintain its competitive edge.

4.3. Criteria for choosing a suitable business model

When choosing a business model, it is crucial to keep the **customer** at the forefront. Understanding your customers' needs, purchasing patterns, and behavior is vital for delivering **value** and solving their problems. Analyzing the **market** you serve and studying competitors will help you refine your strategies and identify your target audience's preferences and interests. **Scalability** should be considered from the start, as it enables growth and profit margin expansion. **Costs**, both monetary and non-monetary, need to be carefully managed to ensure sustainability. Building strong **customer relationships** through effective acquisition, retention, and growth strategies is essential for long-term success. By focusing on these elements in your business model, you can enhance customer experiences, tailor your offerings, and filter potential leads. It is important to continuously reassess and refine your business model to adapt to the evolving needs of your customers and market.

4.3. Criteria for choosing a suitable business model

1. Customer
2. The Value Proposition
3. The Market
4. Scalability
5. Costs
6. Customer Relationships

WHAT?

HOW?

WHO?

5. Ideas Generation and Validation

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5.1. The Entrepreneurial Process

The entrepreneurial process involves several key stages that entrepreneurs go through to turn their ideas into successful ventures. It begins with **idea generation**, where entrepreneurs brainstorm and identify potential business ideas. This is followed by **opportunity evaluation**, where they assess the feasibility and viability of their ideas by conducting market research and analyzing the competitive landscape. Once a viable opportunity is identified, entrepreneurs move on to the planning stage. Here, they develop a detailed **business plan** that outlines their objectives, strategies, and financial projections. This plan serves as a roadmap for the venture and helps secure funding and resources. After planning, entrepreneurs embark on the **launch phase**, where they bring their business idea to life. This involves setting up the necessary infrastructure, acquiring resources, and starting operations. It is a critical stage that requires effective execution and careful management. As the venture gains traction, entrepreneurs focus on **growth**. They explore strategies to expand their customer base, increase market share, and enhance profitability. This stage involves continuous learning, adapting to market changes, and seizing new opportunities.

5.1. The Entrepreneurial Process

The Process

Idea Generation → Opportunity Evaluation → Planning → Launch → Growth
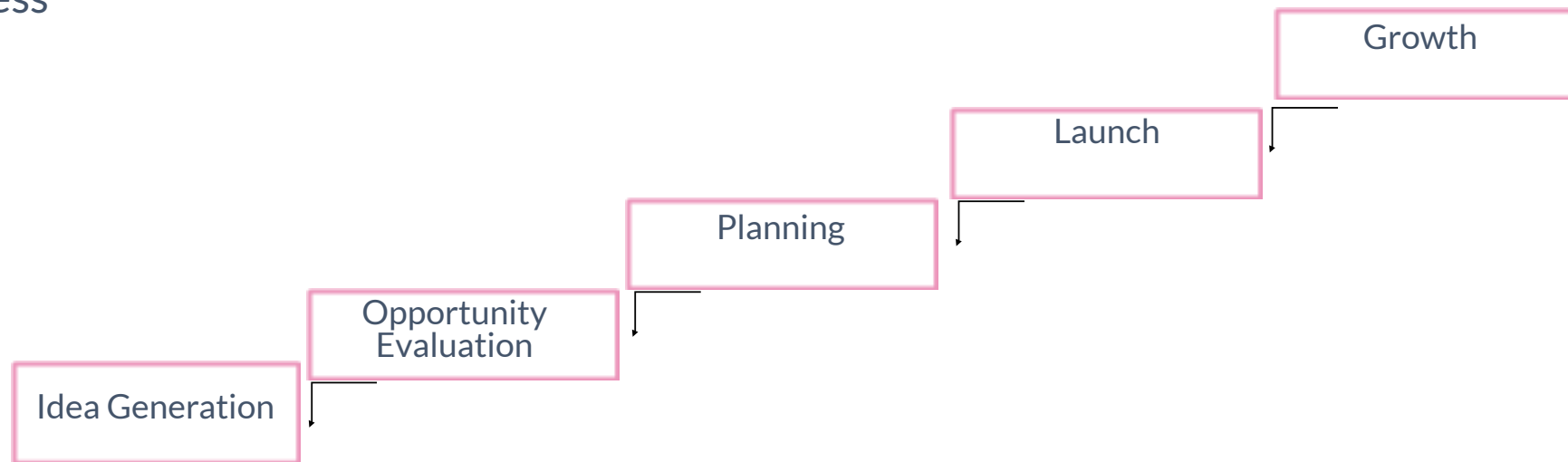
5.2. Ideas Generation

For digital entrepreneurs, fostering innovation and driving growth involves a distinct process tailored to the digital realm. They should identify new opportunities within the digital landscape by engaging stakeholders and exploring emerging customer needs and untapped market segments. Generating **new digital ideas** is crucial to staying ahead, incorporating technologies, digital marketing strategies, and offerings that align with the ever-changing digital landscape. Challenging conventional thinking and refining existing digital ideas allows entrepreneurs to explore alternative perspectives and problem-solving approaches. Regularly **updating digital practices** to align with evolving trends and customer expectations is essential. This involves evaluating and optimizing strategies, user experiences, and operations to enhance digital presence and engagement. Digital entrepreneurs must embrace iterative improvements and leverage the power of digital technologies to drive growth, differentiate themselves in the market, and meet the dynamic needs of digital-savvy customers. By following this process, digital entrepreneurs can navigate the digital landscape effectively, seize opportunities, and stay competitive in the digital business environment.

5.2. Ideas Generation

To generate innovative ideas, entrepreneurs can employ various techniques:

Brainstorming: A creative problem-solving method that encourages the generation of a large number of ideas without limiting or criticizing them. This free-flowing approach allows for diverse possibilities to emerge.

Creative Thinking: Breaking away from conventional thoughts and exploring new perspectives to generate unique and original ideas. It involves challenging assumptions, taking risks, and embracing creativity to uncover fresh solutions.

Design Thinking: A human-centered approach that empathizes with users, identifies their needs, and fosters innovative problem-solving. It involves ideating creative solutions, prototyping, and continuous iteration for improvement.

Complex Opportunity Recognition Technique: Systematically analyzing market trends, customer needs, technological advancements, and the competitive landscape to identify intricate and promising business opportunities.

- Product Trend Approach: Identifying emerging trends in the market and leveraging them to generate innovative ideas for new products or services.

- Innovation Mapping: Mapping out the current state of innovation within an industry or market to identify gaps and opportunities for disruptive or incremental innovation.

5.2. Ideas Generation

To generate innovative ideas, entrepreneurs can employ various techniques:

Business Model Innovation: Creating novel approaches to how a company creates, delivers, and captures value. This can result in new revenue streams, cost efficiencies, or even disruptive changes to existing business models.

Reverse Thinking: Also known as reverse brainstorming, is an idea generation technique that involves flipping the problem or challenge on its head to explore unconventional perspectives, leading to innovative solutions by considering the opposite or reverse of the traditional approach.

Storyboarding: Visual storytelling technique that involves creating a sequence of illustrations or frames to outline a concept, idea, or narrative, enabling effective communication, idea generation, and planning.

5.2. Ideas Generation

The Wallas Process

VERIFICATION

INCUBATION

INSPIRATION

PREPARATION
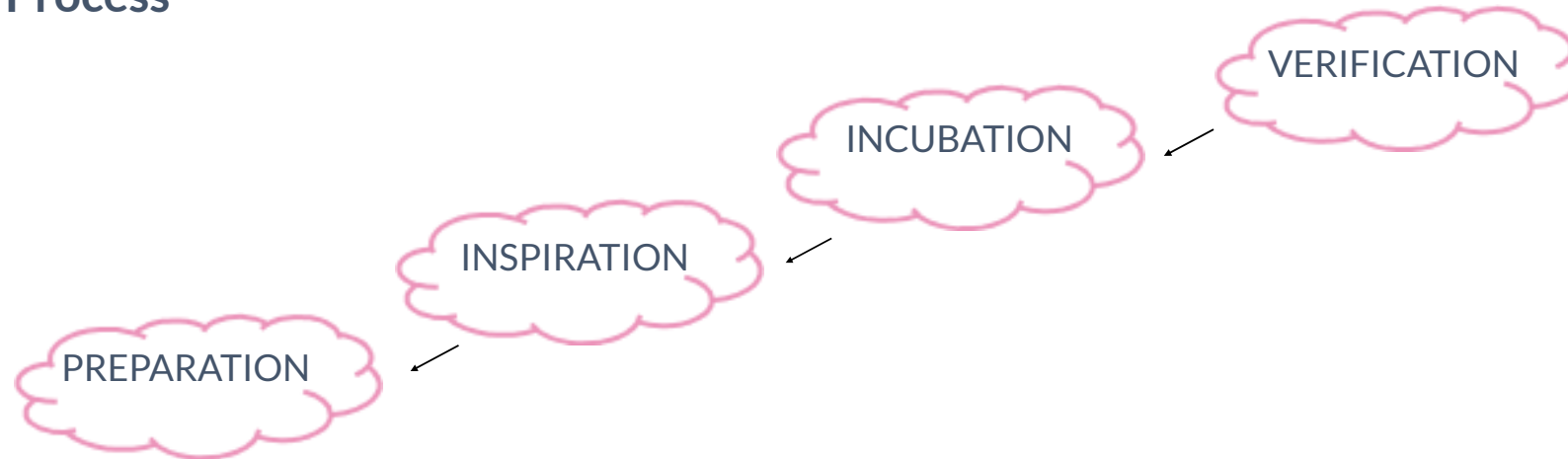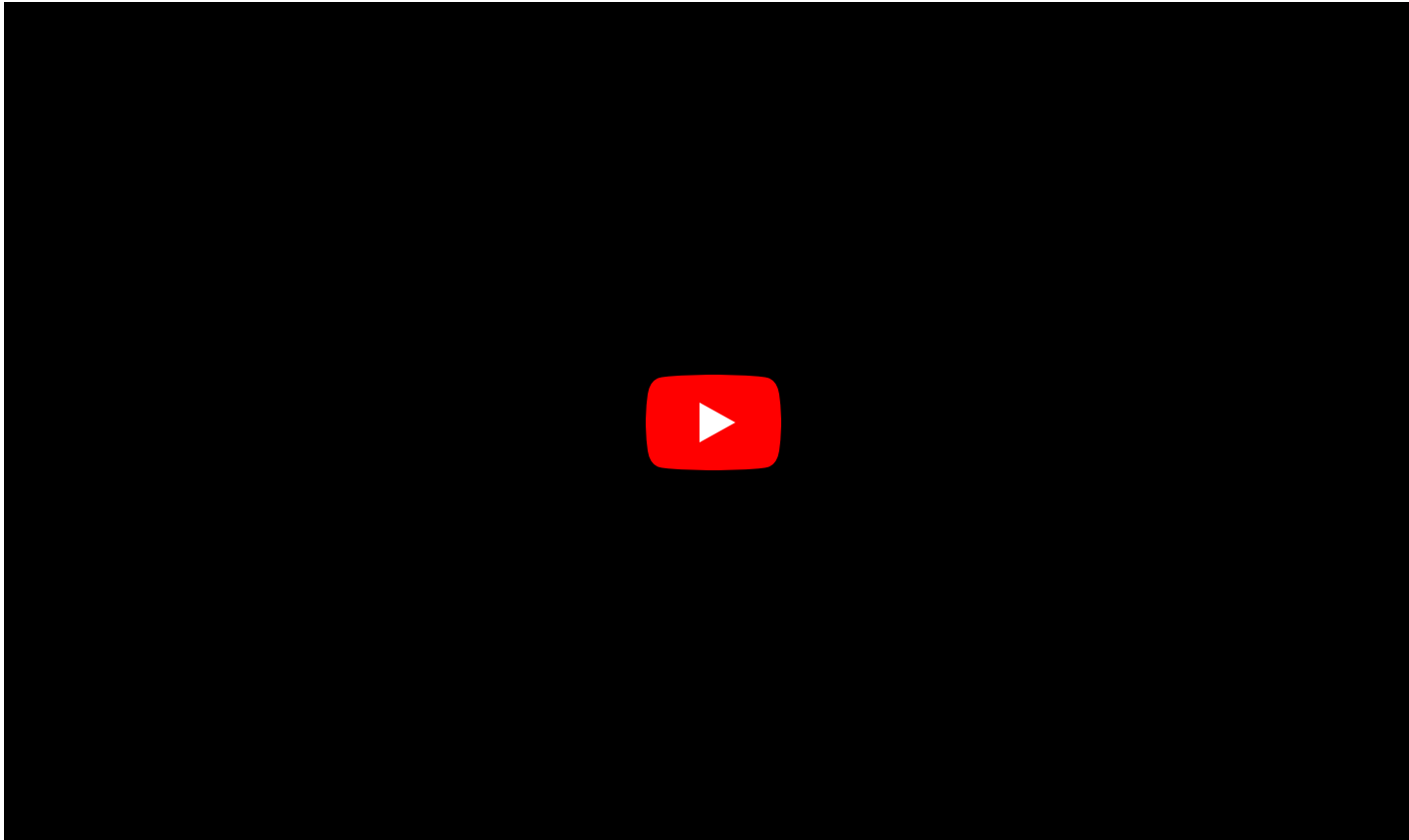
The Wallas Process

5.2. Ideas Generation

The Wallas process is advantageous for digital entrepreneurs as it provides a *structured framework* to enhance their creativity and problem-solving abilities in the digital realm. It facilitates idea generation by encouraging thorough research, immersion in the subject matter, and understanding of the digital landscape. The process promotes innovative thinking by allowing for subconscious processing and the emergence of unique solutions during the incubation and illumination stages. Digital entrepreneurs can validate and refine their ideas through testing, experimentation, and collaboration, ensuring their feasibility and effectiveness in the dynamic digital environment. The Wallas process also fosters adaptability and agility by encouraging the exploration of new perspectives and challenging conventional thinking. This enables digital entrepreneurs to stay ahead of digital trends, embrace emerging technologies, and adapt their strategies to meet evolving customer needs. By leveraging the Wallas process, digital entrepreneurs can navigate the complexities of the digital realm, generate innovative ideas, and develop effective solutions to succeed in the competitive digital business landscape.

5.3. Ideas Validation

Fact: According to the Small Business Administration (SBA), 80% of business ideas fail in the first year, leaving only a 20% success rate. One crucial factor that can make a significant difference is idea validation.

Idea validation is a critical process that entrepreneurs undertake to **assess the viability and potential success** of their business ideas. It involves **gathering insights** into market demand, understanding customer preferences, and evaluating the feasibility of turning an idea into a profitable venture. By validating their ideas, entrepreneurs can make informed decisions that **minimize risks and increase** their chances of building successful and sustainable businesses. Through idea validation, entrepreneurs gain **valuable insights** into whether there is a market need for their product or service, **identify potential competitors**, and understand customer pain points and desires. This information helps them refine their business model, tailor their offerings to meet customer expectations, and develop effective marketing and sales strategies. Moreover, idea validation enables entrepreneurs to **identify and address potential challenges** and obstacles early on, saving time and resources in the long run. By **testing assumptions** and **gathering feedback** from target customers, entrepreneurs can make necessary adjustments and improvements to their ideas before fully committing to the venture.

5.3. Ideas Validation

Validation Process

IDEA

**HONEST FEEDBACK**

SUCCESS

5.3. Ideas Validation

The idea validation framework can help digital entrepreneurs plan their steps. Before starting the concept testing process, it is essential to clarify the vision for the final outcome. In the *preparation* phase firstly, **define a problem** that your product aims to solve. It is essential to address a relevant problem and avoid creating something that the world doesn't need. Identify a pool of visible and hidden problems that you can tackle more efficiently than existing solutions. Next, **define your target customer**. Instead of trying to capture the entire market from the start, focus on a specific customer segment. Gradually expand your reach as your product gains traction. Consider factors such as where your ideal customer works, the size of their company, the industry they belong to, and other relevant demographics. Lastly, **define the innovation** in your product concept. Determine whether you are solving an existing problem in a new and improved way or addressing a completely new problem using existing approaches. Concentrate on the unique value you offer rather than getting caught up in existing market players.

5.3. Ideas Validation

What is the problem?

What is the solution?

Who needs my solution the most? (Target group)
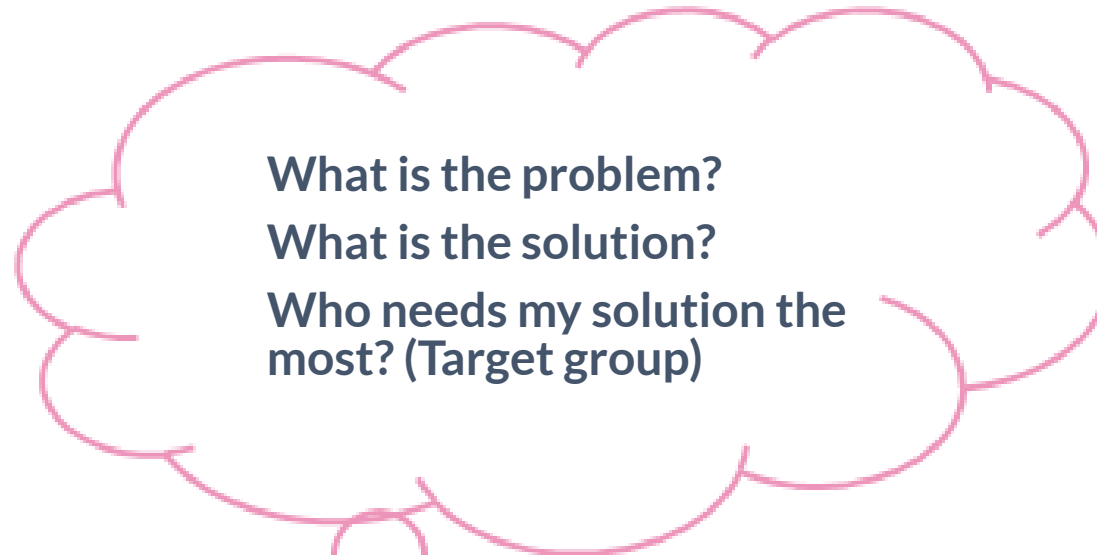
5.3. Ideas Validation

Once you have completed the preparation phase, it is essential to set clear and measurable validation **goals**. Next, formulate **hypotheses** that represent the core assumptions of your business idea. By defining these hypotheses, you can easily determine their viability through validation. Develop a compelling value proposition that highlights the unique benefits users will gain from your product compared to existing solutions. This **value proposition** should be communicated in a simple and concise manner to your target customers. To validate your idea, you can employ various methods such as customer surveys, prototyping, or building a minimum viable product (MVP). Choose the most appropriate validation types from the available options and test your hypotheses and value proposition. After **gathering feedback** from customers during the validation process, carefully analyze the results to understand what aspects of your product are valuable to users and why they resonate with them. Finally, based on the results of idea validation, make an **informed decision**. You can choose to continue developing your idea or make a pivot by adjusting the product concept. The key is to always strive to provide real value and keep moving forward in your entrepreneurial journey.

5.3. Ideas Validation

Proof of Concept:

Internet Research,Forums

Interview customers
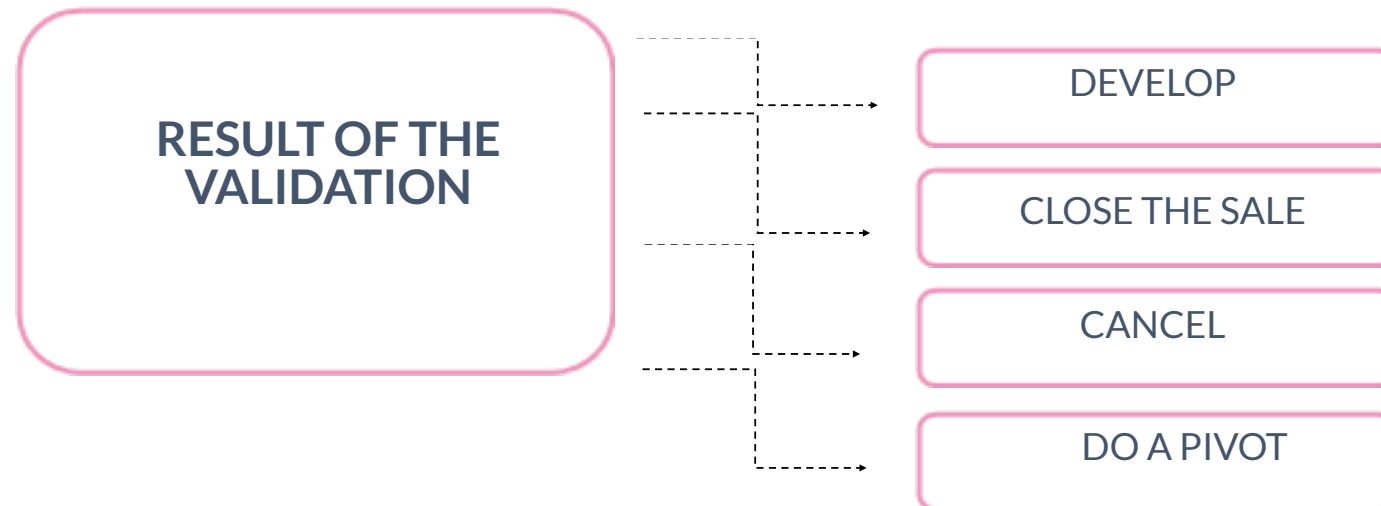
Blog, Landing page

Campaign

Prototyping:

Creating a tangible model of an idea or concept to test and gather feedback before investing significant resources

MVP /minimum viable product/:

Simplified version of a product or service that includes only the core features to early users – validation, feedback

5.3. Ideas Validation

6. Industry Examples and Future Trends

INDEX OF THE CONTENTS OF THIS PART OF THE MODULE

6.1. Industry Examples

Digital entrepreneurship has opened up a world of possibilities across various industries. In the realm of e-commerce, entrepreneurs can establish online marketplaces or niche e-commerce stores, as well as direct-to-customer brands. In the FinTech sector, there are opportunities to create mobile payment platforms, online lending services, and cryptocurrency exchanges. HealthTech offers avenues for telemedicine platforms, digital health records, and wellness apps. EdTech presents possibilities for online learning platforms, virtual classrooms, and educational content marketplaces. The sharing economy sector allows for ventures in accommodation sharing, ride-sharing, and service sharing. Digital marketing provides opportunities through innovative tools, influencer marketing, and content marketing. SaaS and BSB solutions involve the creation of software-as-a-service platforms, cloud-based tools, and data analytics.

With technology constantly advancing, digital entrepreneurship spans across industries. New technologies and digital innovations are reshaping sectors and creating new business opportunities. Entrepreneurs can leverage these advancements to bring value, solve problems, and disrupt traditional industries.

6.2. Future Trends for Digital Entrepreneurship

The future of digital entrepreneurship will be shaped by emerging trends that revolutionize the business landscape.

Home-based businesses leverage technology and remote work tools, offering flexibility and access to a global customer base. **Mobile commerce** is growing as consumers increasingly use smartphones for shopping, necessitating mobile optimization for seamless user experiences. **Social commerce** enables direct selling through social media, leveraging social networks to engage with target audiences. The **gig economy** thrives as individuals seek flexible work arrangements, providing opportunities for entrepreneurs to offer specialized services. **Niche markets** gain prominence, allowing entrepreneurs to target specific customer segments and deliver tailored experiences, fostering customer loyalty. **Disruptive technologies** like AI and blockchain open new possibilities. **Social responsibility** is vital, appealing to conscious consumers. **Diversity** brings fresh perspectives and innovation. **Specialized business education** empowers aspiring entrepreneurs. **Younger generations** drive digital entrepreneurship with their digital fluency.

In summary, the future of digital entrepreneurship will be shaped by trends such as subscription-based models, disruptive technologies, social responsibility, diversity, specialized education, and the influence of younger entrepreneurs. By staying informed and adapting to these trends, digital entrepreneurs can position themselves for success in the ever-evolving digital economy.
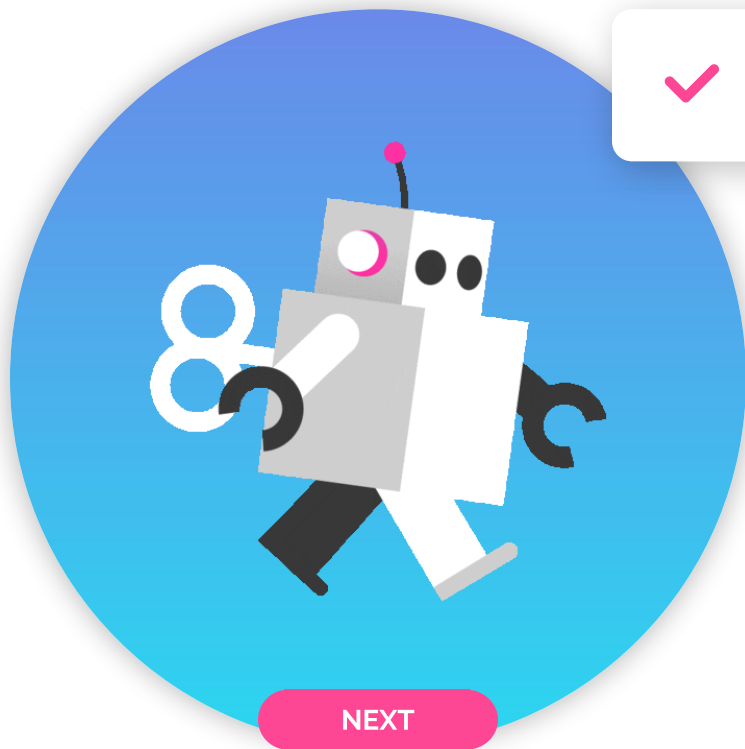
7. QUIZ
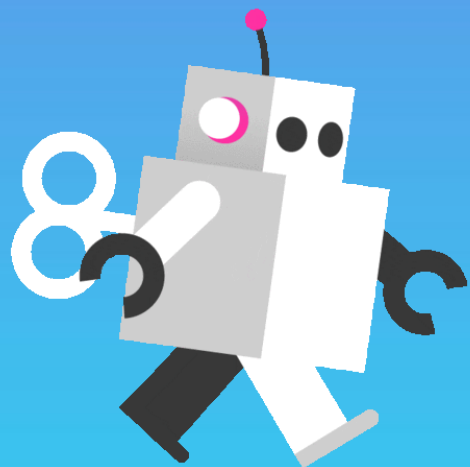
START

Which is not part of the levels of components of entrepreneurial culture?

Entrepreneurial Values

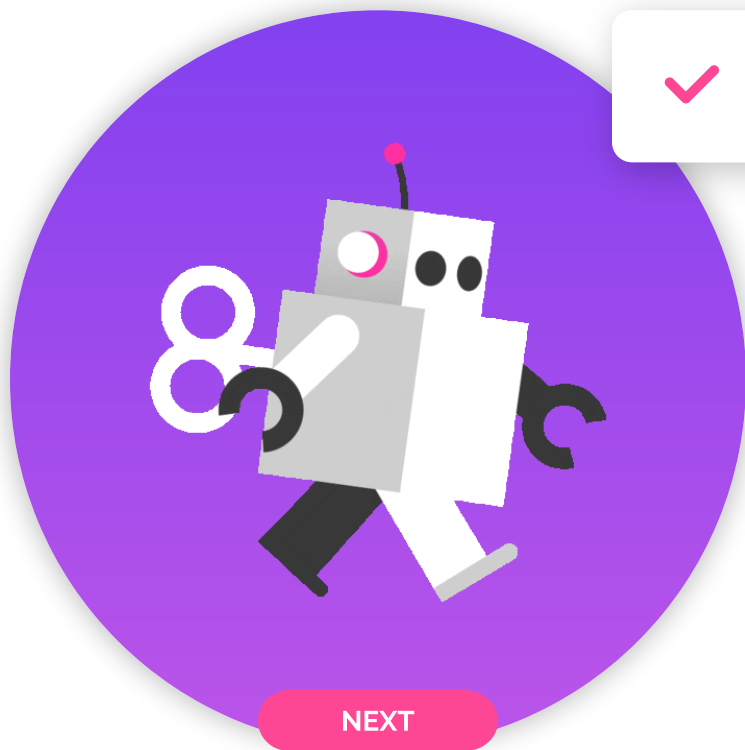Entrepreneurial Mindset

Entrepreneurial Business Model

RIGHT!

NEXT

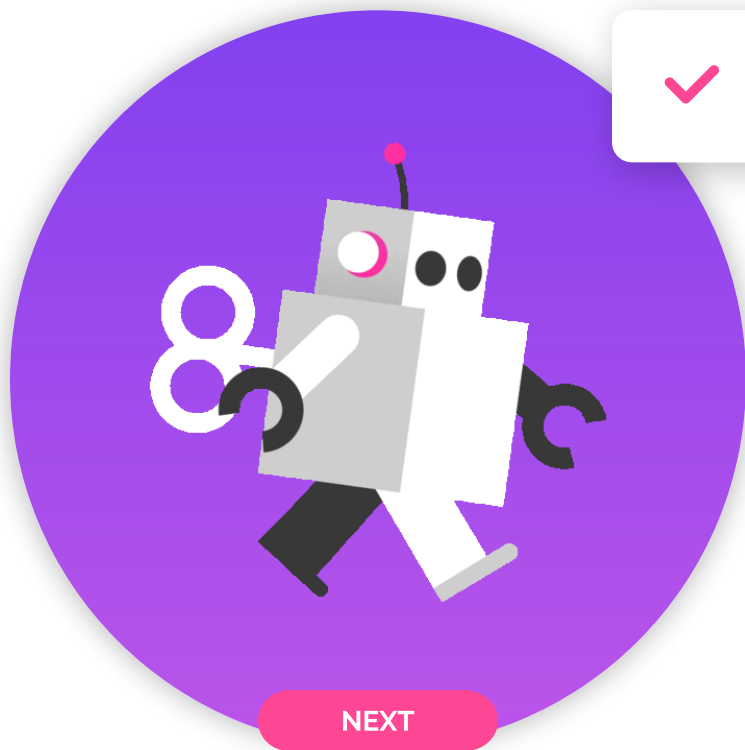# Which is part of the entrepreneurial mindset?

Focused

Problem-oriented

Dependent

Which of these statements is true?

Value proposition is not part of the business model

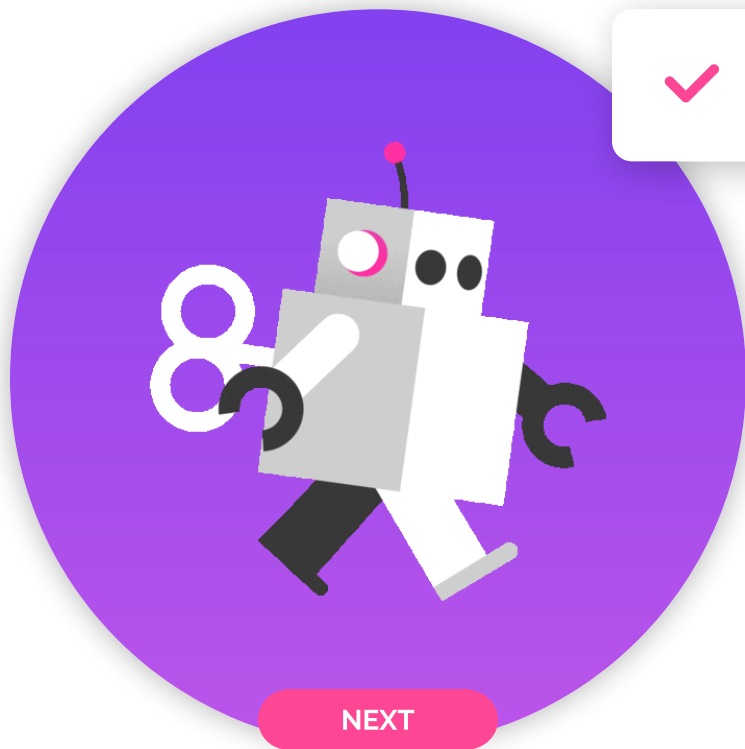One of Spotify's challenges is Royality Payment

Profit does not count

RIGHT!

NEXT

What is MVP an acronym for?

Maximum Viable Product

Medium Viable Product

Minimum Viable Product

RIGHT!

NEXT

8. CASE STUDY

Read the blogpost and reflect about…

1, What do these businesses have in common?
2, What are the differences?
3, What are your takeaways?

+ REFERENCES

9. Conclusions

1. You understand the entrepreneurial culture and its significance for digital entrepreneurship.
2. You understand the entrepreneurial mindset.
3. You understand the different business models digital entrepreneurship and its applications.
4. You understand the different types if digital entrepreneurship and their characteristics.
5. You are aware of the opportunities and challenges in the digital entrepreneurship world.
6. You understand the methods for generating innovative business ideas.
7. You know how to generate and validate ideas.
8. You discovered industry examples and future trends.

9. Bibliography

Barraza, C (2022, Sept 30). What is entrepreneurial culture?. Carlos Barraza. https://barrazacarlos.com/what-is-entrepreneurial-culture/

Brook, C (2022, Jul 13). 5 Key Ways To Develop An Entrepreneurial Mindset. BusinessBecause. https://www.businessbecause.com/news/entrepreneurs/8279/how-to-develop-an-entrepreneurial-mindset?sponsored

Browson, C.D (2013). Fostering Entrepreneurial Culture: A Conceptualization. European Journal of Business and Management. 5(31). 147-151

Duke School of Business. (2019, Aug 20). The Entrepreneurial Process. The Duke Entrepreneurship Manual. https://sites.fuqua.duke.edu/dukeven/selected-topics/the-entrepreneurial-process/

Finances online (2023, May 18). 16 Entrepreneurship Trends for 2022/2023: New Forecasts & A Look Into What's Ahead. Financesonline.com. https://financesonline.com/entrepreneurship-trends/

Indeed Editorial Team (2023, July 6). 12 Successful Business Models to Help Make a Profit. Indeed. https://www.indeed.com/career-advice/career-development/successful-business-model

Law J.T (2023, Jun 12). Entrepreneurial Mindset: 20 Ways to Think Like an Entrepreneur. Oberlo. https://www.oberlo.com/blog/entrepreneurial-mindset

Malik, P (2022, Jan 19). 8 Examples of Innovative Digital Transformation Case Studies (2023). The Whatfix Blog https://whatfix.com/blog/digital-transformation-examples/

Marr, B (2023, Mar 14). The 7 Most Successful Business Models Of The Digital Era. Forbes. https://www.forbes.com/sites/bernardmarr/2023/03/14/the-7-most-successful-business-models-of-the-digital-era/?sh=a31a02456171

9. Bibliography

Miller, K (2020, July 07). 10 Characteristics of Successful Entrepreneurs: HBS Online. Business Insights Blog. https://online.hbs.edu/blog/post/characteristics-of-successful-entrepreneurs

Mitzkus, S (2022, June 22). Idea Generation Techniques: How to inspire new ideas that Drive Innovation?. Digital Leadership. https://digitalleadership.com/blog/idea-generation/

Shift Communications (2020, March 3). Getting Creative: 4 Idea Generating Techniques. SHIFT Communications. https://www.shiftcomm.com/insights/getting-creative-4-idea-generating-techniques/

Smith,S (2021, June 23). 4 Elements of Entrepreneurial Culture and How to Incorporate Them into Your Nonprofit. Social Impact Architects. https://socialimpactarchitects.com/entrepreneurial-culture/

SPD Load (2023, May 10). Idea Validation or How To Test Business Ideas. SpdLoad. https://spdload.com/blog/idea-validation/

Tirakyan, V (2021, Aug 25). A Checklist For Selecting The Right Business Model For Your Startup. Forbes. https://www.forbes.com/sites/forbesbusinesscouncil/2021/08/25/a-checklist-for-selecting-the-right-business-model-for-your-startup/?sh=5ee64e0639a4

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Module 6: Sustainability of digital networks with economic opportunities and business partnerships

Mentoring and support for young people starting digital entrepreneurship handbook module

START

Index

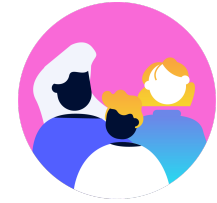Explore now all the contents of this module!

1. Presentation of the module

2. Learning outcomes

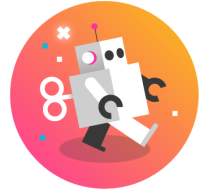3. Introduction to sustainability in digital businesses

4. Legal and regulatory framework of sustainability

5. Assessment of the environmental footprint of digital businesses

6. Sustainability strategies in digital businesses

7. Tools for implementing sustainable strategies in digital businesses

8. Measurement of the impact of sustainability

9. Success stories and best practices of sustainability

10. Fostering a culture of sustainability in digital businesses

CASE STUDY >   QUIZ >   CONCLUSSIONS >   BIBLIOGRAPHY >

1. Presentation of the module

Welcome to the Module "Sustainability of digital networks with economic opportunities and business partnerships", to understand the impact of sustainability policies and strategies in digital business on environmental issues. Currently, the business space pays special attention to the implementation of policies that reduce the harmful effects of digital media on the environment, in the different phases of production and office management. The values of sustainability accompany each initiative and become an important currency to attract and retain customers, as well as to contribute to the conservation of the planet.

2. Learning outcomes

- To understand the concept of sustainability (social, economic and environmental) and its application in the context of digital business.
- To identify the challenges and opportunities of sustainability in digital business.
- Know the practices and tools that enable the implementation of sustainable strategies in digital business.
- To learn how to evaluate and measure the impact of sustainability strategies in digital business.
- Raise awareness of the importance of sustainability in digital business and motivate participants to adopt sustainable practices in their own companies.

3. Introduction to sustainability in digital businesses: definition, importance, and challenges.

INDEX OF THE CONTENTS OF THIS POINT OF THE MODULE

3.1. Concept of sustainability in digital businesses

3.2. Relevance of sustainability in digital businesses

3.3. Challenges of sustainability in digital businesses

3.4. Tips to encourage the sustainability in digital businesses

3.1 Concept of sustainability in digital businesses

- Digital sustainability is a call for companies and digital participants to heal rather than harm. It aims to protect the planet by helping to reduce the carbon footprint through the use of digital technologies to "do good for society" through conscious and forward-looking decision making.

- Digital sustainability refers to the use of data and technologies in everyday business activities to improve the environment and well-being. It represents a movement that changes the way companies do business and act responsibly. It is a principle that seeks to limit the effects of digital technology while driving the progress of civilizations.

- We understand digital sustainability as the responsible adoption and use of digital technology to impact society and the environment in the long term positively. This includes considering energy efficiency, sustainability in producing and disposing of electronic devices, and minimizing digital waste, among other factors. It also encompasses the ethical and responsible use of data and technology to protect the privacy and promote a fair digital economy.

3.1 Concept of sustainability in digital businesses

- In essence, sustainable digitization is about maximizing technological tools to achieve global and local goals. For them, it explores various ways to design, adapt and drive digital human transformation where it addresses today's major environmental challenges.

- In 2021, GreenGeeks revealed that 40% of the energy spent on the Internet is used to manage server overheating. Data centers contribute 2% to global carbon emissions, a figure that could balloon to 14% by 2040 if sustainability targets are ignored. These alarming figures are forcing business leaders to radically rethink their commitment to sustainability (or lack of it) and start creating strategies to reverse the situation.
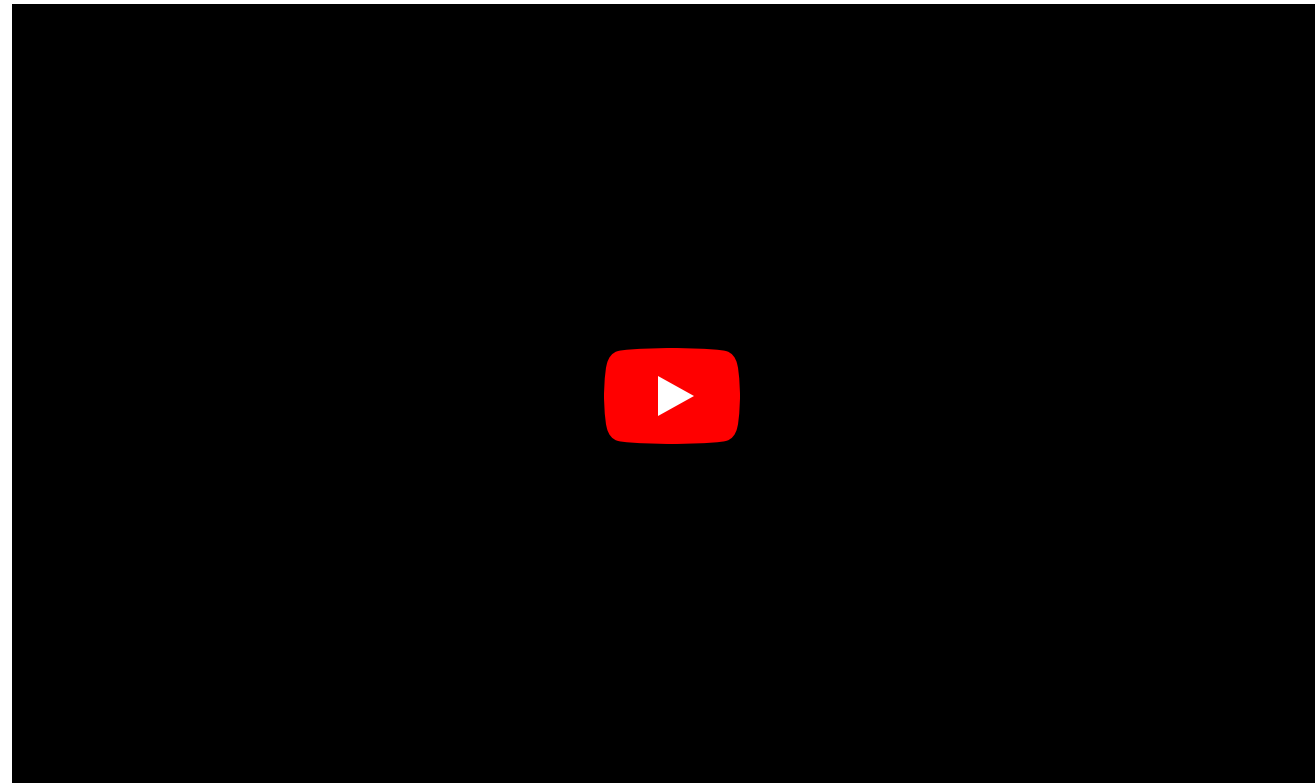
Do you know what a digital carbon footprint is? Watch the following video and reflect on the impact of the digital space on our environment:

3.2 Relevance of sustainability in digital businesses

There are many ways to make digital sustainability a reality. Here are some reasons why it's important for businesses to embrace digital sustainability:

- **Reduce Costs**

Adopting sustainable practices can help businesses reduce costs. For example, using energy-efficient equipment can lower energy bills, and recycling materials can reduce the need to purchase new raw materials.

- **Improve Efficiency**

Sustainable practices can also improve business efficiency. For example, using solar power can reduce the need for energy from the grid, and using recycled materials can reduce waste.

- **Protect the Environment**

Digital sustainability is important for businesses because it helps protect the environment. For example, using renewable energy can help reduce greenhouse gas emissions, and recycling electronics can help reduce e-waste.

3.2 Relevance of sustainability in digital businesses

- **Building Brand Loyalty**

Customers are becoming more conscious of the environmental impact of the products they purchase. As a result, businesses that adopt sustainable practices can build brand loyalty among eco-conscious consumers.

- **Attracting and Retaining Top Talent**

The best and brightest employees want to work for companies that are making a positive impact on the world. Sustainability is one way to attract and retain top talent.

- **Complying with Regulations**

Many jurisdictions have laws and regulations that require businesses to adopt sustainable practices. For example, the European Union has adopted the Digital Single Market Strategy, which includes a number of sustainability initiatives.

- **Creating a Competitive Advantage**

Digital sustainability is important for businesses because it helps reduce costs, improve efficiency, and protect the environment.

3.3 Challenges of sustainability in digital businesses

- Digital sustainability contains certain challenges that must be addressed to ensure a path to success. Digital human transformation strategies can only be effective if they overcome some of these challenges that prevent harnessing the digital potential to redefine the economic and climate performance of society. Here are some of those challenges:

- **Innovation in twins and digital beings**
  The journey to twins and digital beings has only just begun. Simply put, it is the creation and execution of different levels of digital simulations of objects and systems that use and generate real data inputs and responses. The main challenge for twins and digital beings is the harnessing of data, its ingestion, and then the long-term storage and preservation of data that can be easily discovered. It has taken humanity less than 60 years to accumulate 80 Zettabytes of data (half of it on the Internet). The amount of data is expected to double before the end of the decade. Collectively, they are highly fragmented, disorganized, inaccessible or already lost.

3.3 Challenges of sustainability in digital businesses

- **Energy efficiency**

Digital technologies almost always require the use of energy. You may think that using fewer digital devices, machinery or resources automatically makes your business sustainable, but this is not the case. Even decentralized infrastructures consume large amounts of electricity, such as blockchain ledgers or server farms. On the other hand, the Internet of Things (IoT), machine learning and automation technologies help build energy-efficient buildings, increase factory throughput and much more. It is generally accepted that as computing needs increase, so does the energy required to power them. However, this is not entirely true for data storage. Archival storage (infrequent data) is the fastest growing class of data. Newly created data tends to start being accessed less frequently after 12 months, while the value of the data continues to increase over time. Data storage devices can be turned off when not in use or offloaded to cold storage technologies. Before choosing a digital solution, be aware of its energy efficiency and the options available now or in the future. Also check if the service provider you partner with uses renewable sources for its operations.

3.3 Challenges of sustainability in digital businesses

- **Cybersecurity**

The use of technology can make your system vulnerable to attacks and breaches. Weak spots in the digital infrastructure, which a cybercriminal could exploit, should be identified. It is important to create a space between online and offline data storage technologies, separating frequently accessed data from infrequently accessed data. In addition, company staff should be trained in cyber-healthy behavior (avoid clicking on spam links, regularly change passwords, implement multi-factor authentication, etc.).

- **Leadership in action**

Companies must explore opportunities to reinvent themselves in a sustainable way. Digital human transformation is no easy task, yet it is a decision that becomes more necessary as time goes by.

3.3 Challenges of sustainability in digital businesses

E-waste

Fair economy and accessibility

3.3 Tips to encourage the sustainability in digital businesses

So what can we do as individuals and business owners to limit the impact of our digital activities? Where are there sustainable choices to be made? Let's look at five broad areas:

- Communication
- Data storage
- Devices and hardware
- Productivity
- Entertainment

3.3 Tips to encourage the sustainability in digital businesses

Among the different solutions a company can adopt, here are some examples that any company can put into practice in support of its sustainability commitments.

- **The 4 Rs**

Recycle, Reuse, Recover, Reduce. These are the main actions that can be put in place to limit the company's impact on the climate footprint. They involve adopting so-called circular solutions, which aim to extend the life cycle of materials and objects, making them in such a way that they can be used in different sectors and for multiple times, or that they are easily repairable.

- **Cloud storage**

For larger companies, moving data storage operations to the cloud can help reduce carbon emissions by as much as 50%, while also reducing energy costs and the need to buy and maintain on-site hardware. Even smaller companies can see reductions in their energy use when using shared data networks rather than on-site servers.

3.3 Tips to encourage the sustainability in digital businesses

- **Infrastructure**
Moving infrastructure to the cloud can help businesses reduce their IT carbon footprint by as much as 88% and improve carbon efficiency by as much as 98%. The big payers in cloud – Google, Microsoft, AWS – have all committed to decarbonising their data centres over the next few years, and this can help individual businesses achieve their own sustainability goals.

- **Choose a green search engine**
A lot of us need to do regular internet searches while working. Instead of heading straight for Google as standard, why not try one of the eco-friendly search engines instead?

4. Legal and regulatory framework of sustainability in digital businesses.

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- 4.1 Europe and digital sovereignty
- 4.2 European Legal and regulatory framework of sustainability in digital businesses

4.1 Europe and digital sovereignty

- Digital technology is changing people's lives. The EU's digital strategy aims to ensure that this transformation benefits the lives of people and businesses, while contributing to achieving the goal of a climate-neutral and sustainable Europe by 2050. The Commission is firmly committed to making these years Europe's "Digital Decade".
- The European bloc must now strengthen its digital sovereignty and set standards, rather than following others', with a clear focus on data, technology and infrastructure. Sustainable digitization leads to European digital sovereignty.
- For this reason, investing in Europe's sustainable and innovative capacity is the basic requirement to support the dual transition to a green and digital economy, and SMEs are at the heart of this process.

What is the **Digital Decade Policy Programme 2030**? Watch the following video
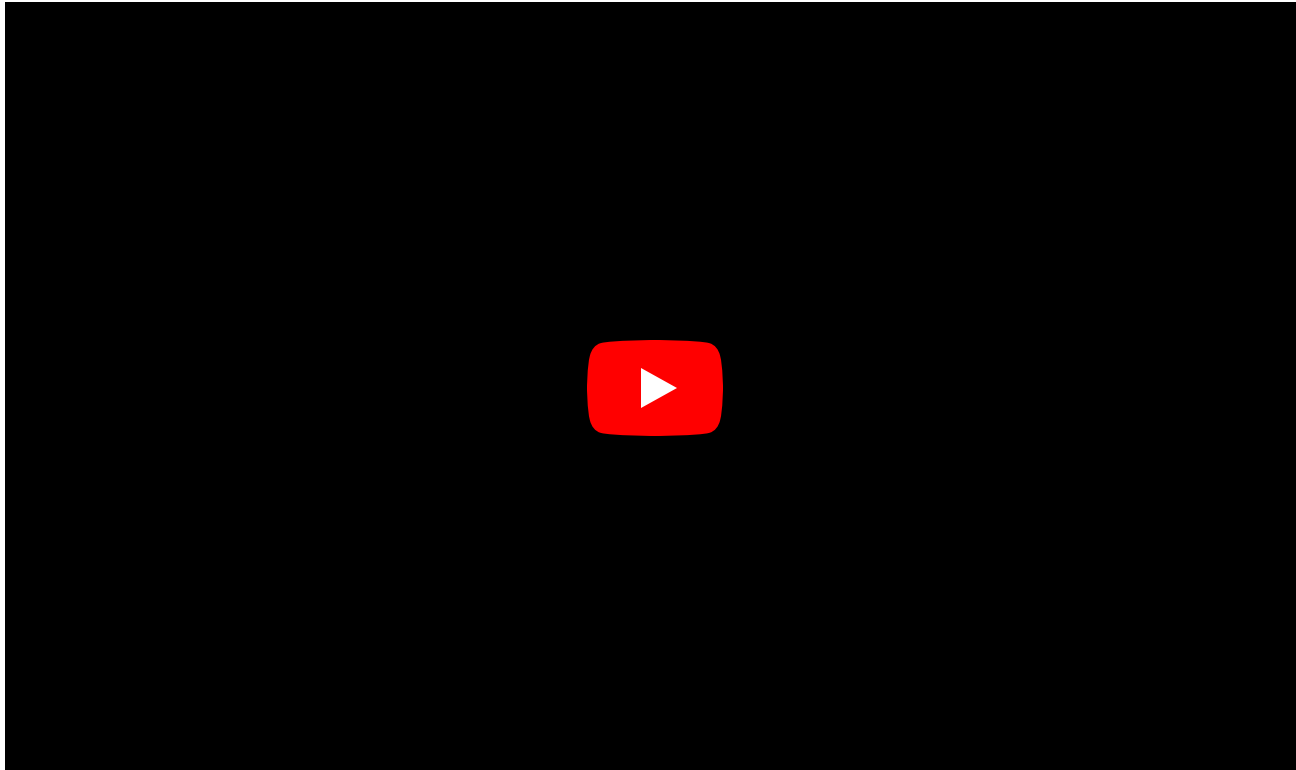
4.2 European Legal and regulatory framework of sustainability in digital businesses

- **The Digital Services Act**: ensuring a safe and accountable online environment

For the first time a common set of rules on intermediaries' obligations and accountability across the single market will open up new opportunities to provide digital services across borders, while ensuring a high level of protection to all users, no matter where they live in the EU.

- **The Digital Markets Act**: ensuring fair and open digital Markets

Some large online platforms act as "gatekeepers" in digital markets. The Digital Markets Act aims to ensure that these platforms behave in a fair way online. Together with the Digital Services Act, the Digital Markets Act is one of the centerpieces of the European digital strategy.

4.2 European Legal and regulatory framework of sustainability in digital businesses

- **Digital Identity for all Europeans**

The European Digital Identity will be available to EU citizens, residents, and businesses who want to identify themselves or provide confirmation of certain personal information. It can be used for both online and offline public and private services across the EU.

- **European data strategy**

The European data strategy aims to make the EU a leader in a data-driven society. Creating a single market for data will allow it to flow freely within the EU and across sectors for the benefit of businesses, researchers and public administrations.

5. Assessment of the environmental footprint of digital businesses: carbon emissions, energy and resource consumption, among others.

INDEX OF THE CONTENTS OF THIS POINT OF THE MODULE

- 5.1 Environmental effects of the internet and digital technology
- 5.2 The complexity of a digital carbon footprint
- 5.3 Tips to encourage the reduction of the digital carbon footprint

5.1 Environmental effects of the internet and digital technology

The environmental impact of technology is fast becoming a key factor - and a liability - in the sustainability journey of all companies.

Many industry analysts and IT managers look to technology to help them address the impact of carbon footprint and other environmental efforts. But the high negative environmental cost of technology is not as well known. Business and IT leaders would do well to understand this complex issue and take steps to reverse its impact. Understanding and addressing an organization's digital carbon footprint is a key component of this approach that enables the design of strategies to help reduce it.

5.1 Environmental effects of the internet and digital technology

The environmental effects of the internet and digital technology tends to be out of sight, out of mind. Nevertheless, those environmental costs are real. A digital carbon footprint includes the following:

- device and equipment usage,
- the emissions produced in their manufacture,
- the energy required to run devices and equipment,
- data transfer and
- the energy consumed by servers and data centers.

5.2 The complexity of a digital carbon footprint

These are just some digital carbon footprint sources:

- cloud computing,
- websites,
- online shopping,
- multimedia,
- online games,
- social media,

- mobile phones,
- e-learning,
- video streaming,
- AI,
- Cryptocurrency and
- metaverse platforms.

Assessing a digital carbon footprint is complex, but even research that puts technology's GHG contributions at a lower amount finds that technology is a significant contributor to global GHG, so companies and individuals must work to lower those carbon emissions.

5.2 The complexity of a digital carbon footprint

Many CIOs and technology teams have added sustainability to their agenda, especially now that boards are prioritizing this critical issue. But before IT can reduce its carbon footprint and become more sustainable, leaders first need to understand current emissions and harmful practices. In many organizations, sustainability data is scattered among different departments, often in Excel spreadsheets and unstructured and structured data with no alignment. And knowing how to measure CO_2 can be even more complicated.

5.3 Tips to encourage the reduction of the digital carbon footprint

Despite the complexity of both measuring and decreasing the digital carbon footprint, organizations and companies should start taking steps to reduce it. Here are some ideas to reduce its impact.
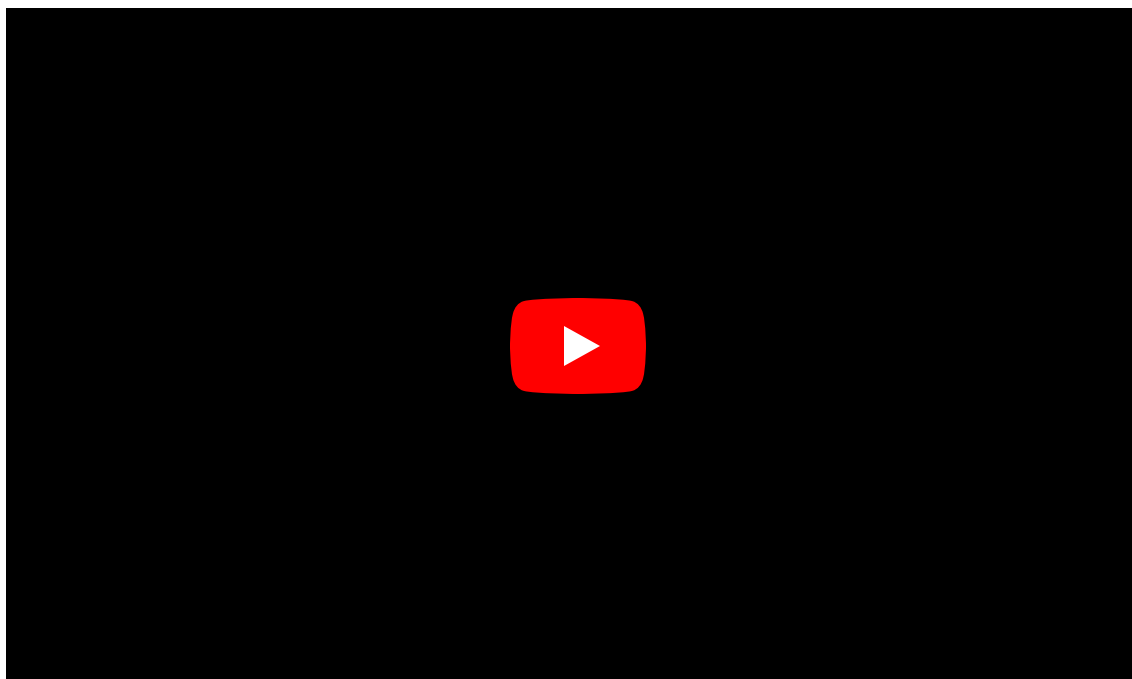
5.3 Tips to encourage the reduction of the digital carbon footprint

Steps to lower your digital carbon footprint

- **Start with the simplest tasks**
One of the first things organizations can do is to monitor device usage and try to do more with fewer devices while maintaining efficiency. Much of this comes down to increasing device life cycles. Many organizations replace devices every three years. Extending that period to four years significantly reduces the carbon footprint, as long as vendor support and compatibility with new software updates is ensured.
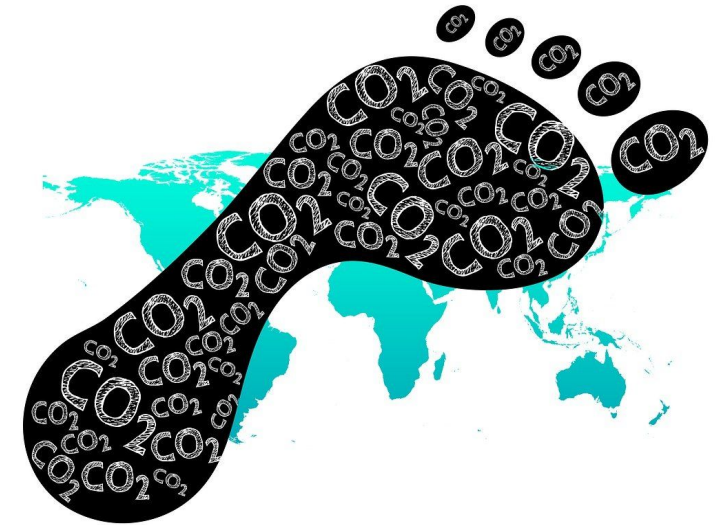
5.3 Tips to encourage the reduction of the digital carbon footprint

- **Understanding emissions categories**

All IT managers should know the basics of emissions to help their company on its sustainability journey. Understanding where emissions fall is a starting point.Organizations are challenged by Scope 3 emissions (includes all indirect emissions associated with a company's operations produced along the entire supply chain between an organization, its suppliers and its customers. This includes raw materials and precious metals used to manufacture digital devices) and need to be supported by all parts of the supply chain. Enterprise systems are always at the ready, and that comes at a climate cost. IT managers need to examine the sustainability of their interconnection practices.
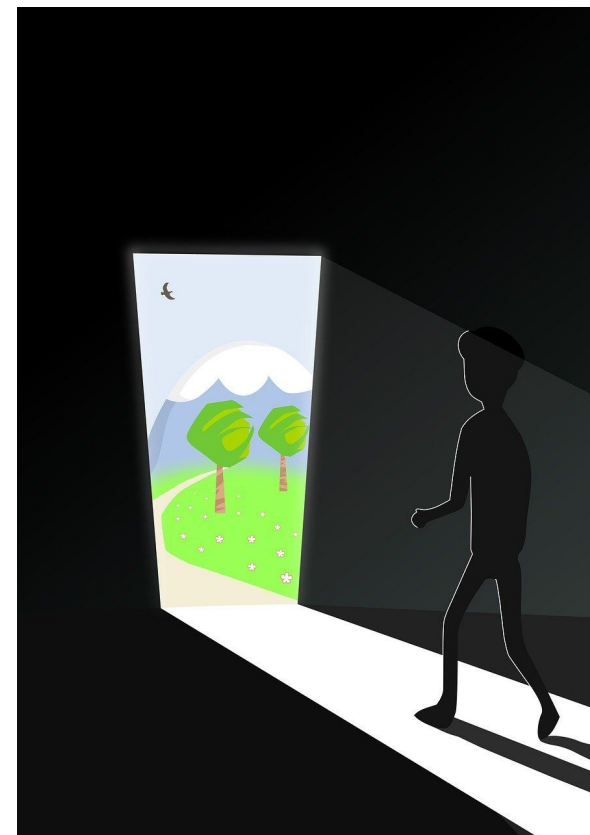
5.3 Tips to encourage the reduction of the digital carbon footprint

- **Optimize data storage and cloud usage**

The rate at which large data centers consume electricity worldwide is increasing by 10% to 30% per year, due to the continuous increase in workloads. The power consumption required for data storage depends on how quickly users need to retrieve data. If the answer is "immediately," the storage system will be less environmentally friendly. A tiered storage system that could address this sustainability challenge could look like this:- Organizations store data that users don't need to access immediately, such as old financial records, on a long-term storage medium that may take time to spin up.- Organizations use a more front-line system to store data that requires instant access.

5.3 Tips to encourage the reduction of the digital carbon footprint

- **Greener software**
For software to consume less energy, developers must design it with its digital carbon footprint in mind. This also applies to how developers approach new technologies, such as AI. One of the reasons some software is not as efficient as it could be is because it is not designed to run on battery-powered devices, such as cell phones.

6. Sustainability strategies in digital businesses: from production of goods and services to distribution and delivery.

INDEX OF THE CONTENTS OF THIS POINT OF THE MODULE

- 6.1 Where we are in terms of digital business transformation
- 6.2 Where to begin

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6.1 Where we are in terms of digital business transformation

The EU is still in the early stages of technological development. Fields such as cybersecurity, data processing or artificial intelligence are currently underdeveloped compared to other regions outside the European Union, such as the United States. This can be attributed to a lack of funding and the absence of policies to encourage their development.

To address this, the EU has created the Digital Europe 2021-2027 Program aimed at stimulating investment in digital skills and infrastructure to address this gap, promote the development of these areas and strengthen the European ecosystem. Investment is essential to raise the level of digital transformation in Europe, both in the public and private sector. However, we must not understand technology or digital transformation as an end in itself, but as a means to improve our lives, our businesses and our environment.

6.1 Where we are in terms of digital business transformation

Benefits to digital transformation:

- Increased productivity for companies that drastically reduces time spent on manual tasks that can easily be carried out automatically.
- Streamlined internal processes that avoid misplacing documents, minimise friction between departments, and improve relationships with customers, vendors and employees.
- Enhanced consumer experience: when clients benefit from updated, current technologies, it boosts their positive perceptions of a company.

6.2 Where to begin

Businesses that understand the importance of digitalization and sustainability in business for social and economic development have a clear competitive advantage.

But where do you start? While every company is different, there are several universal steps that act as a starting point when your company is considering implementing a digital transformation strategy and a plan to increase sustainability.
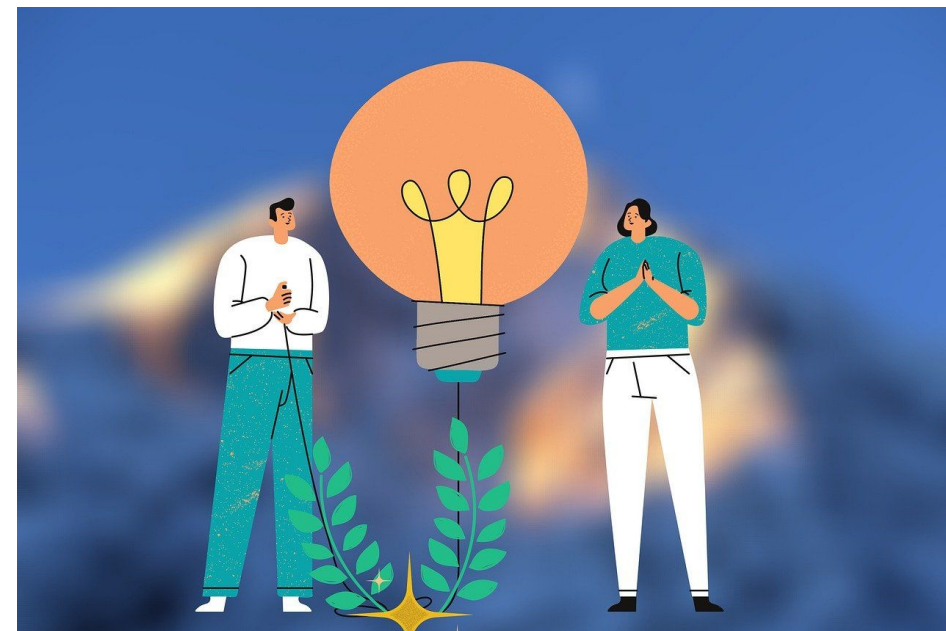
6.2 Where to begin

- *A change in business culture*

The first thing is to understand that a strategy of this caliber must be understood as a change in the corporate culture, and that without the support of management and your employees, it would not be fully integrated. Digitalisation and sustainability should not be viewed as different actions within a company but rather as a comprehensive change that affects the company as a whole.

- *Internal analysis*

Second, we must start by understanding the current state of our company, its internal processes, strengths and weaknesses, and **digital transformation challenges**. This step must be done in each department, but also as a whole. Processes that affect the entire company, like document management and administrative operations, stand out.

- *Establish objectives*

Once we have done an in-depth evaluation of the company, we can establish points for improvement and objectives. These must be quantifiable and achievable to avoid frustration or not knowing whether or not they have been attained. All structural change takes time.

6.2 Where to begin

- **Analyse solutions**

Once we know our objectives, it's time to analyse which tools or solutions will be the best to help us achieve them. Making an assessment will allow us to choose the right providers. You have to look for a provider that will digitally transform document management, which would in turn reduce your use of paper and minimise your carbon footprint.

- **Hiring**

Put your faith in vendors who are trustworthy, provide a good service or product and who share the same vision or values. This helps to avoid friction and establish a solid working relationship. Relying on as few providers as possible lowers the investment risk.

- **Integrate the changes**

It is essential to have vendors who have experience in this process and can help integrate the necessary changes with instructions and support, demos and good customer service. Open and fluid communication will also be important to solve any incidents that crop up and make the transition as streamlined as possible. Integrating changes that don't require outsourcing, only a change within the organization, are ideal.

- **Follow up**

Evaluating the results and making sure that you are moving in the right direction is crucial to avoid missteps.

7. Tools for implementing sustainable strategies in digital businesses: renewable energies, energy efficiency, circular economy, among others.

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- 7.1 How to implement a sustainable digital strategy
- 7.2 Renewable energies, energy efficiency, circular economy

7.1 How to implement a sustainable digital strategy

- **Communication is key**

Gather your managers and any responsible, hard-working or astute employees they recommend you talk to. Talking to other stakeholders, such as suppliers, customers and even neighbors, is also essential. From their feedback, you'll better understand the most legitimate concerns surrounding your business and gather thoughts and ideas on how to prepare it for the future.

- **Adopting product as a service as part of a business model renewal**

In many cases, the inclusion of environmental factors in the decision-making tree results in a redefinition of a company's business models. For example, product-as-a-service and leasing models, which combine product and user data to improve asset and resource utilization through intelligent procurement and other operational improvements, are on the rise. The move is in response to customers' desire to stop buying and operating IT equipment and instead consume it as a service. In doing so, they eliminate over-provisioning IT, thereby reducing both capital expenditures and environmental footprint.

7.1 How to implement a sustainable digital strategy

- **Reducing environmental impact throughout the supply chain**

Optimizing environmental impact within operations is important, but its positive effect will be hindered if similar measures are not taken along the entire supply chain. The use of tracking and data-sharing platforms provides visibility and accountability, often in real time, thus reducing environmental impact before it gets worse.Adopting product as a service as part of a business model renewal.

- **Pressure from inside and out**

Increasingly, consumers want the companies they turn to to focus on sustainable issues. So do employees, and future employees. In fact, the ability to attract and retain talent-especially among younger generations-is tied to a company's performance on sustainability and other purpose-focused initiatives.Laggards in these areas will suffer talent shortages, leading to lackluster digital transformation results.Leaders must integrate sustainability considerations as a strategic imperative throughout their organizations to ensure they remain resilient and competitive.

7.2 Renewable energies, energy efficiency, circular economy

Renewable energies are the essential partner against climate change: renewable energies do not emit greenhouse gases in the energy generation process, which makes them the cleanest and most viable solution to environmental degradation. Another alternative to implement are the principles of the circular economy, which favors the optimal use of available resources throughout their life cycle.
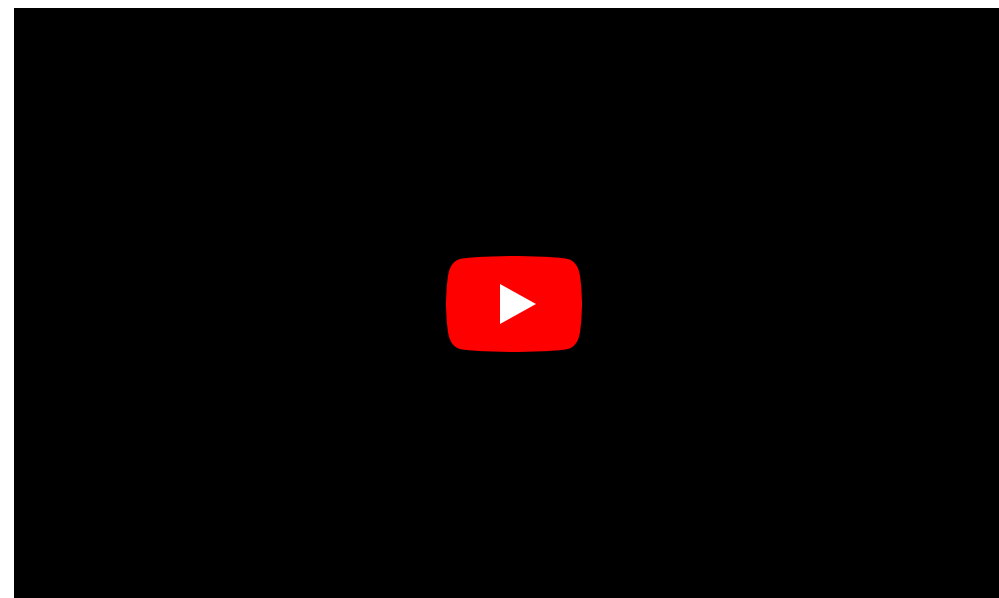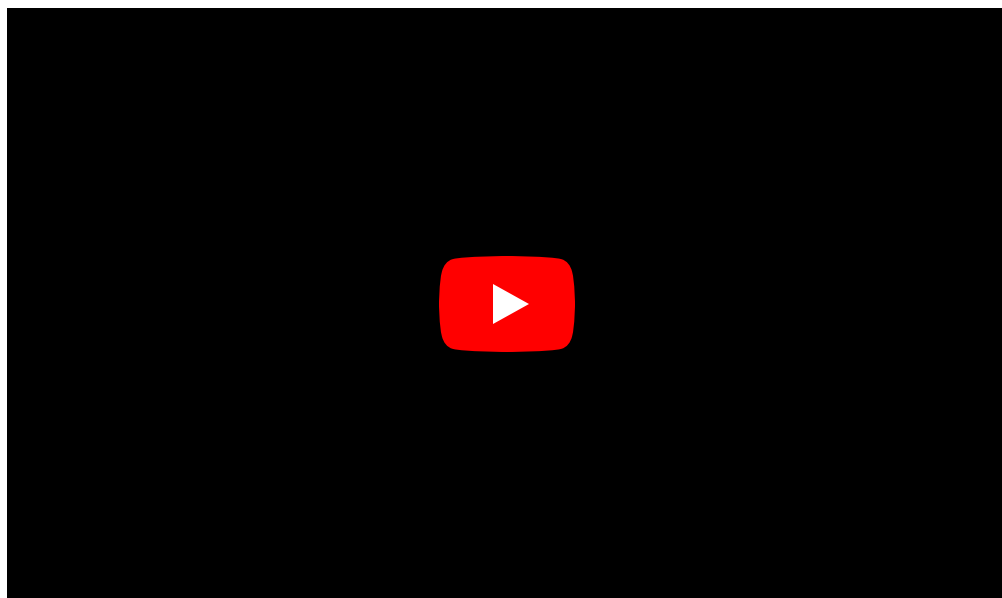
8. Measurement of the impact of sustainability strategies in digital businesses: indicators, monitoring and evaluation tools

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- 8.1 Monitoring and evaluation tools
- 8.2 Sustainability Indicators

8.1 Monitoring and evaluation tools

- Although it is currently somewhat more complex, more and more attention is being paid to the positive or negative impacts caused by organizational activity on the environment. It is very important to measure the progress of the sustainability strategy because thanks to it we will see if we are managing to reduce the negative impacts generated on the environment or even if we have been able to convert the negative impacts into positive ones.
- In these times when there is more sensitivity to protect the social and environmental aspects at the same level as the economic ones, it is essential to measure the progress of the sustainability strategy of organizations, so that we know how the organization contributes to sustainability.
- Through the sustainability strategy, organizations have an incentive to innovate and transform themselves for the future. For example, by implementing a sustainability strategy, we will manage resources more efficiently and reduce the level of pollution, which will minimize costs and increase profits. In turn, it will encourage the search for new, cleaner alternatives. This will help when costs increase or there is a shortage of raw materials.

8.1 Monitoring and evaluation tools

- Why measure sustainability progress? To measure sustainability in an organization, it is essential to consider social, economic and environmental aspects. The most successful method for measuring the progress of the strategy is through indicators.

- Normally, measuring economic aspects is the easiest to understand and also the easiest to evaluate. In the end, any data linked to economic issues yields immediate results and there is the option to apply actions to correct possible deviations if necessary.

- Considering how the organization impacts on social aspects and taking actions aimed at favoring them helps, since it is possible to achieve benefits on the communities closest to the development of the activity and, likewise, improves the brand image against the competition, achieving improvements in reputation and favoring the growth of the organization.

8.1 Monitoring and evaluation tools

- In the business landscape, leaders treat product and profit growth as gospel. This approach has had significant environmental costs and is under scrutiny.
- But it highlights a problem around metrics: How do IT teams know if they are doing better if the business is growing? One of the challenges software developers face is that their industry is a high-growth one. Even if they work to reduce emissions from their products, their digital carbon footprint is increasing because more and more people are using what they produce.
- For example, a development team may have taken 15 different steps to reduce emissions, but the overall result is that they are still responsible for a larger footprint because their organization's sales continue to grow. This is why it is necessary to measure intensity. The Green Software Foundation has created the Software Carbon Intensity Specification (SCI), designed to score software systems based on their carbon emissions, such as carbon per minute.
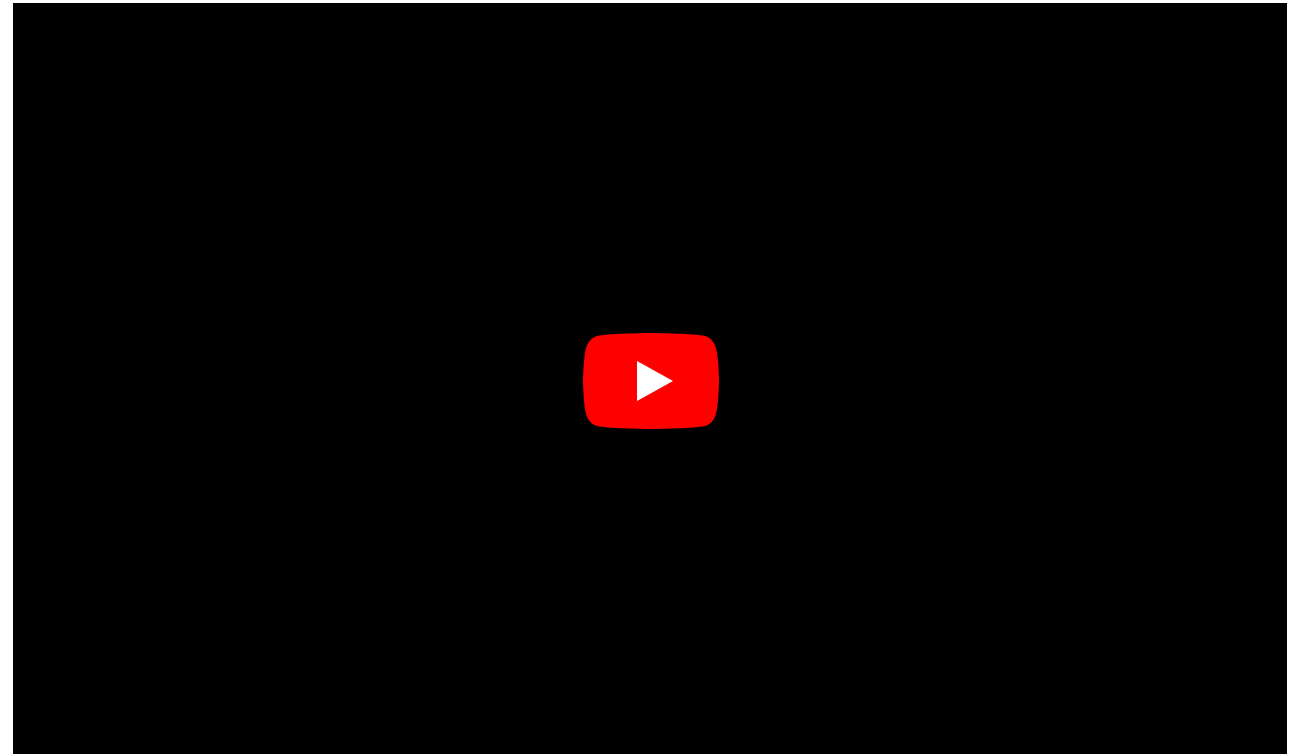
8.2 Sustainability Indicators

Environmental indicators:

- Carbon footprint.
- Level of CO_2 emissions generated due to transportation
- Volume of resources used, reused and recycled
- Product life cycle

9. Success stories and best practices of sustainability in digital businesses

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- 9.1 Best practices and ideas to start

9.1 Best practices and ideas to start

A sustainable digital business is one that is concerned that in each of its areas it works under the most environmentally friendly option possible, whether in shipping, returns, product...

However, to date, the figures are still not very positive. This is something in which we need to invest a lot of effort. It is true that the sustainable online businesses that have the greatest impact on this issue are ecommerce, because they use more resources in their activity.

The ideal will be to find the formula to be green and profitable. This way the needs and concerns of the target audience are met, and the business is positioned in the market with a brand image that respects and cares for everyone's environment.

9.1 Best practices and ideas to start

For that to happen, any business must improve at least these 5 key elements:

- Hosting service. If you want to position yourself as a sustainable online business, the providers you work with should also be sustainable. In that aspect, hiring a hosting that consumes clean energy is a point in your favor.
- Your product. Surely there is a greener version of the product you are marketing. Most materials can be replaced by others that come from more renewable resources and you can even create new ones based on the 3 R's (reduce, reuse and recycle).
- Shipping logistics. Look for a company that is committed to sustainability. For example, that has electric or low-emission vehicles, that optimizes its routes to reduce pollution, or that has a certificate that endorses its commitment to the environment.
- Packaging. Think about using recyclable, reusable or biodegradable packaging. It's time to leave plastic behind and switch to options that make your business more sustainable.
- Daily management of your business. To have a sustainable online business, you should not only take care of the management of your team or the aspects that the customer sees, but also pay attention to your consumption of paper, light, plastic, recycling...

10. Fostering a culture of sustainability in digital businesses: raising awareness, sensitization, and motivation for the adoption of sustainable practices

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- 10.1 Why foster a culture of sustainability in digital businesses?
- 10.2 Smart green world

## 9.1 Why foster a culture of sustainability in digital businesses?

- **Digitalization and sustainability: the perfect combination**

Digitalization and sustainability must be aligned if the goal is to achieve optimum efficiency while producing the lowest possible environmental impact. Improvements such as reducing the use of paper and relying less on certain means of transport, using renewable energy sources or incorporating sustainable materials into production processes would not be possible without the use of digital technologies.

Companies that have a corporate sustainability strategy must drive it through digitization.

There are three aspects to a sustainable digital strategy. These all play an important role when looking to the future of you, your business, and even the collective globe.

1. A long-lasting, future-proof business model

2. Protecting the environment and livelihoods of individuals

3. Attracting younger, sustainability-driven customers
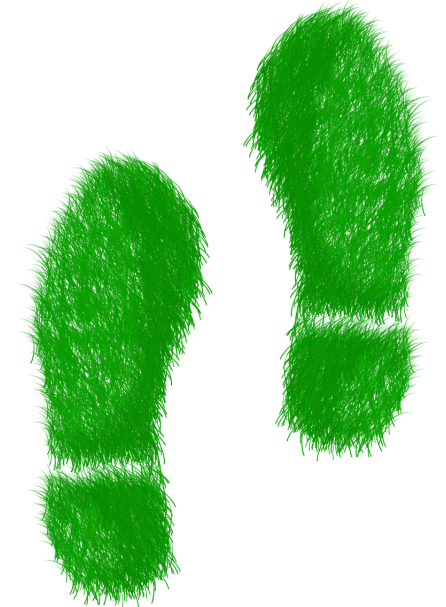
9.2 Smart green world

The digital revolution is currently changing the daily lives of billions of people around the world and is disrupting much of the global economy. Many sustainability researchers and representatives of civil society have been insisting for years on the need to change our economic model and our consumerist lifestyle in order to overcome the challenges facing the world of the 21st century. Can the much-discussed disruptive potential of digitalization be harnessed for this?"
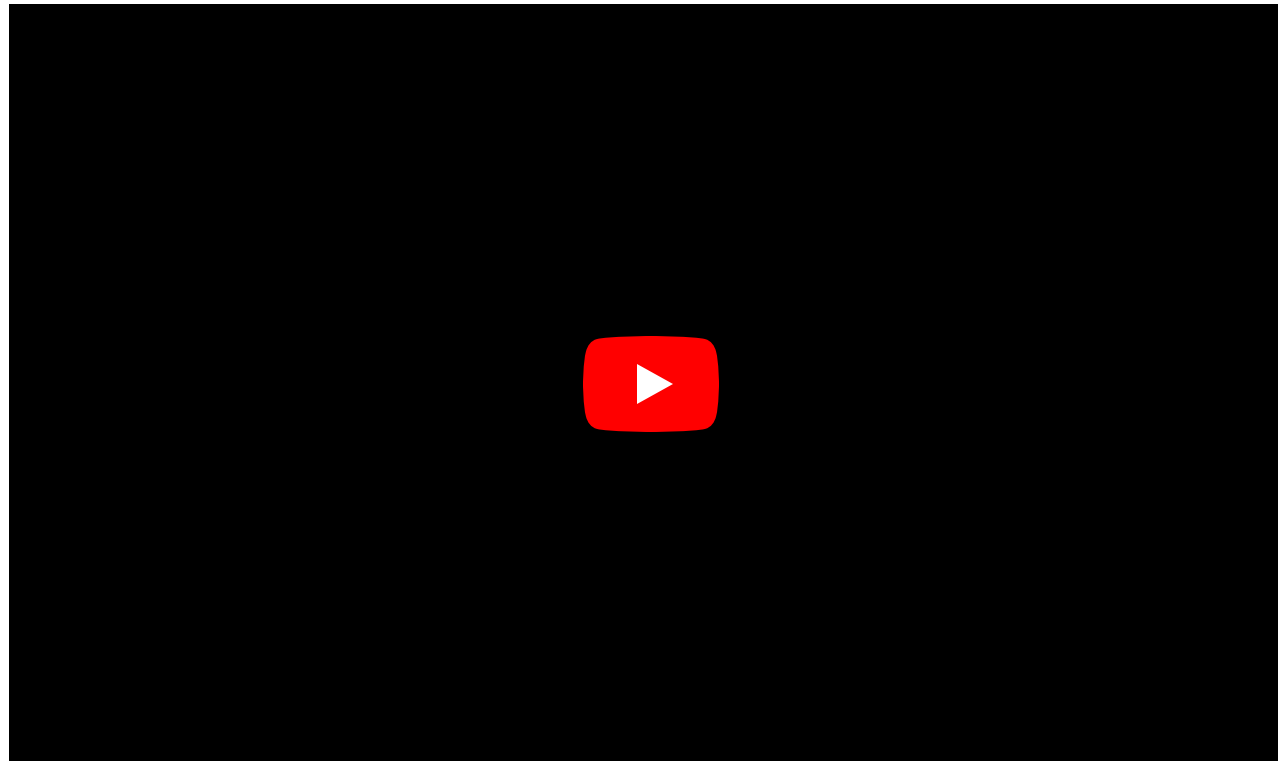
9.2 Smart green world

Smart green world? Why? How? Watch the following video
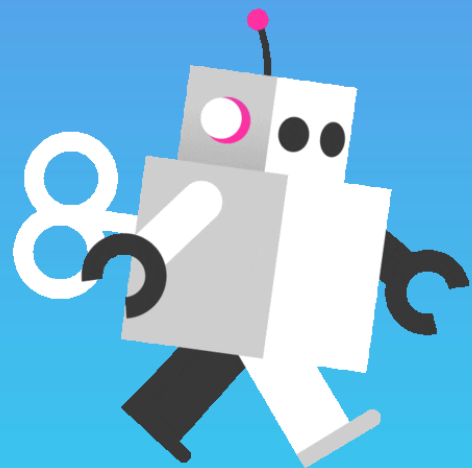
11. CASE STUDY

Take a look to the next video and reflect about...

1. What are the elements to take into account for the development of a sustainable digital business?
2. What is the relationship between resilience and sustainability in a digital business?
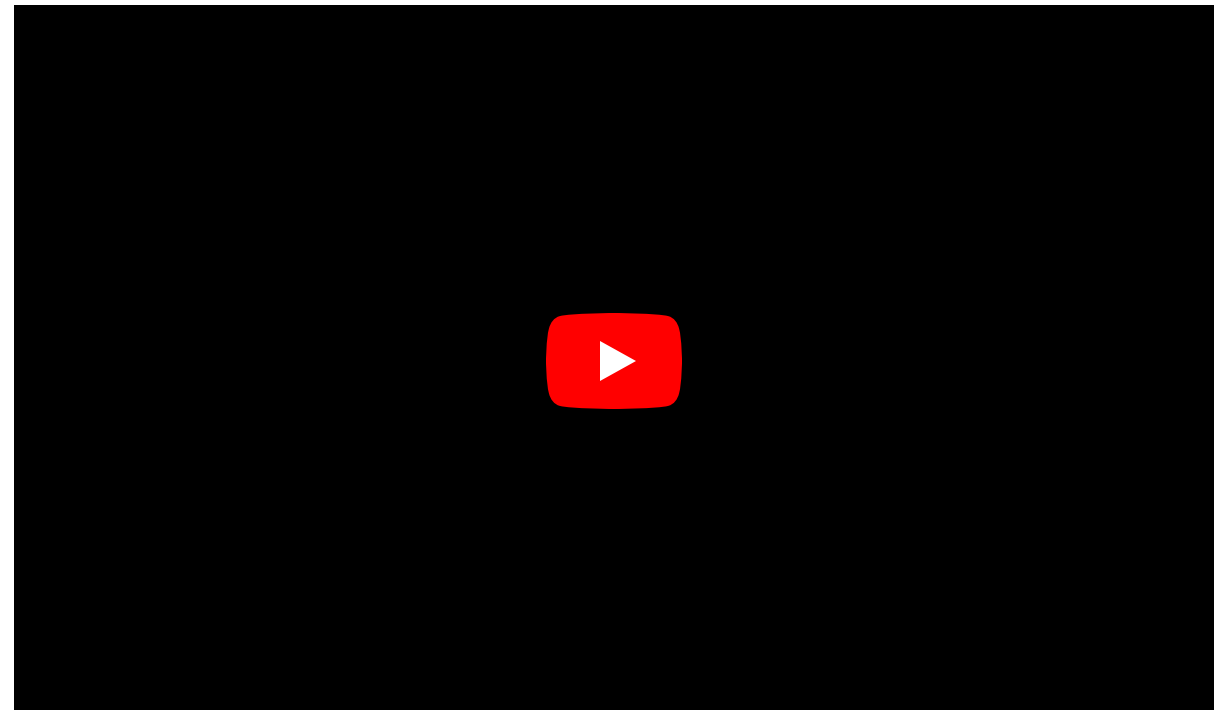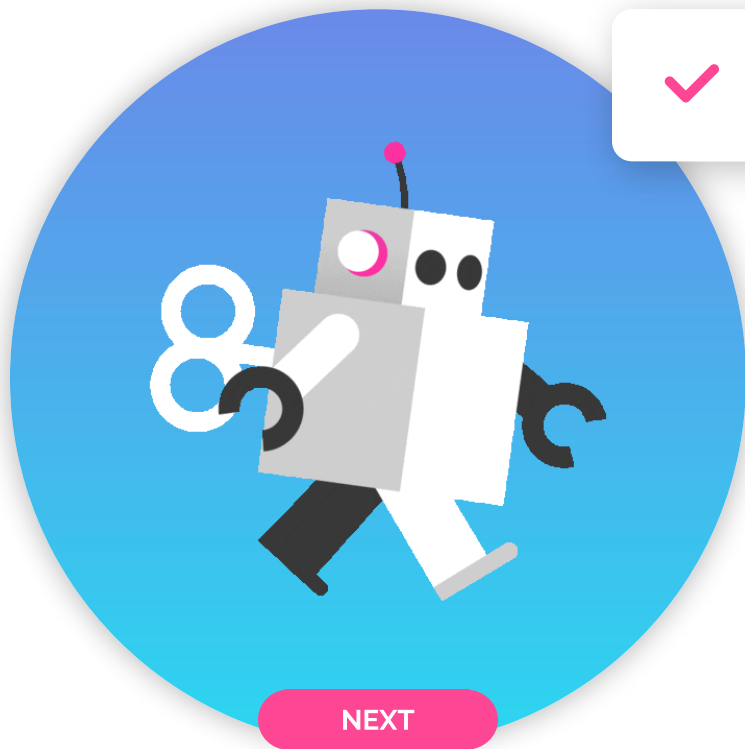
12. QUIZ

START

What is understood by digital sustainability?

Condition that favors economically sustainable businesses

Excessive use of digital technology

Digital sustainability refers to the use of data and technologies in everyday business activities to improve the environment and well-being. It represents a movement that changes the way companies do business and act responsibly
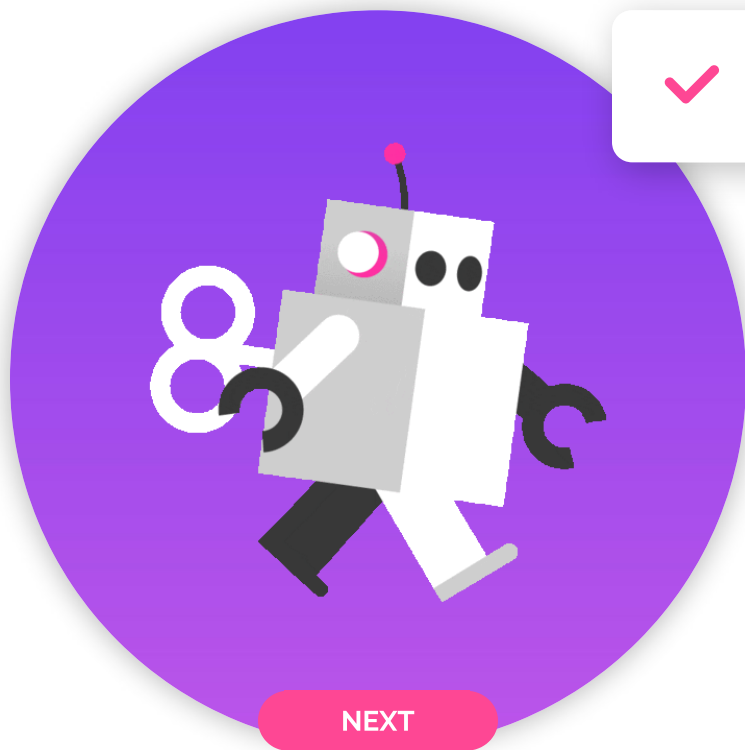
RIGHT!

NEXT

Where should we start working to enhance sustainability in digital business?

Optimize data storage and cloud usage

In employee punctuality

In employee time management

RIGHT!

NEXT

13. Conclusions

Takeaways of the module

1. You have learned why digital sustainability is important
2. You will know how to develop a digital sustainability strategy for digital business
3. You have understood the digital carbon footprint
4. You have learned the relevance of measuring the digital carbon footprint
5. You have discovered some tips to encourage the reduction of the digital carbon footprint

14. Bibliography

Dilmegani, Cem (2022). Digital Sustainability (2023): Importance & Top 5 Digital Solutions, available at: https://research.aimultiple.com/digital-transformation-and-sustainability/

Frey, John (2021). Here's how digital transformation and sustainability can flourish together, available at: https://www.weforum.org/agenda/2021/03/here-s-how-digital-transformation-and-sustainability-can-flourish-together/

Heinze, Carolyn (2022). How to lower IT's digital carbon footprint, available at: https://www.techtarget.com/searchcio/feature/Understand-the-digital-carbon-footprint-of-enterprise-IT

Paul, Jardine and Thorn, Becky (2023). digital sustainability tips for businesses, available at: https://rootwebdesign.studio/articles/digital-sustainability-tips-for-businesses/

Reilly , Sarah (2021). Sustainability and digitalisation: a common strategy, available at: https://docuten.com/en/blog/sustainability-in-business-and-digitalisation-a-common-strategy/

Module 7: USERS EXPERIENCES of companies on digital platforms

Mentoring and support for young people starting digital entrepreneurship handbook module

START

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Explore now all the contents of this module!
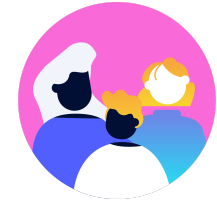
1. Presentation of the module

2. Learning outcomes

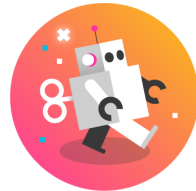3. Introduction to user experience (UX) on digital platforms

4. Fundamentals of psychology and ergonomics applied to interface design

5. User-centred design: how to understand user needs and expectations

6. Interface design and information architecture to improve usability and accessibility.

7. Iterative design process: how to iterate and continuously improve the user experience.

8. User experience evaluation: how to measure and analyse user satisfaction.

9. Continuous improvement of user experience: how to apply the results of evaluations to improve user experience.

10. Case study

QUIZ >

CONCLUSIONS >

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1. Presentation of the module

Welcome to the Module USER EXPERIENCES of companies on digital platforms. Today, improving the user experience when interacting with companies that operate through digital platforms is becoming a priority in the business space. For digital entrepreneurship initiatives, it is essential to know how they can participate in this improvement process, what detection and correction tools they can use and how they can apply the principles of continuous improvement, adjusted to a long-term strategy. You will find all this and much more in this module.

2. Learning outcomes

- Understand the fundamentals of user experience (UX) and its importance in digital platforms.
- Learn user-centred design techniques and methodologies to improve user experience.
- Learn best practices for usability and accessibility on digital platforms.
- Understand the iterative design process and how to apply it to the creation of digital interfaces.
- Develop skills for the evaluation and continuous improvement of user experience on digital platforms.

3. Introduction to user experience (UX) on digital platforms.

**INDEX OF THE CONTENTS OF THIS POINT OF THE MODULE**

3.1. Relevance of UX on digital platforms

- User Experience (UX) on digital platforms has become a critical aspect of designing successful products and services in the digital age. As technology continues to shape our daily lives, the way we interact with digital platforms profoundly influences our overall satisfaction and engagement. UX encompasses the entire user journey, from the first interaction with a website or app to the overall perception and emotional response towards the digital experience. In this introduction, we will explore the concept of UX on digital platforms and its significance in creating meaningful and impactful user experiences.

- User experience refers to the holistic experience and perception of users as they interact with a digital platform. It encompasses not only the visual design and functionality but also factors such as ease of use, accessibility, performance, and the overall emotional response generated by the interaction. A well-designed UX considers the needs, goals, and behaviors of the users, striving to create intuitive and enjoyable experiences that fulfill their expectations.

3.1. Relevance of UX on digital platforms

- The importance of UX on digital platforms cannot be overstated. In today's competitive landscape, users have a myriad of choices when it comes to digital products and services. A positive UX can differentiate a platform from its competitors and foster user loyalty, engagement, and advocacy. On the other hand, a poor UX can result in frustration, confusion, and ultimately, user abandonment.
- Effective UX design on digital platforms requires a deep understanding of the target audience. User research plays a pivotal role in uncovering user behaviors, needs, and pain points. By employing methods such as user interviews, surveys, and usability testing, designers can gain insights into user preferences, mental models, and expectations. This user-centric approach allows designers to tailor the digital experience to meet the specific needs and preferences of the target audience.
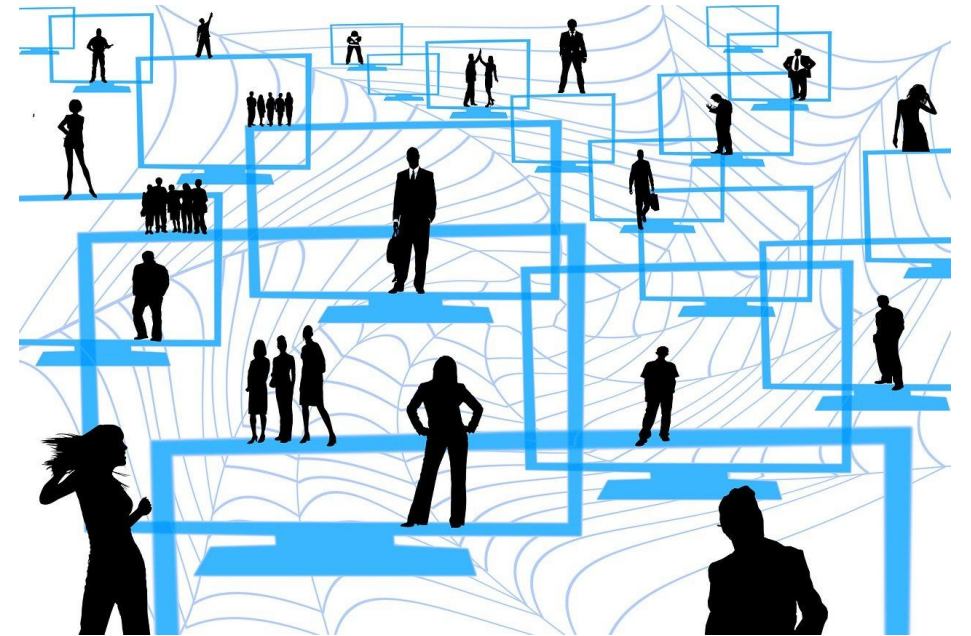
3.1. Relevance of UX on digital platforms

- In addition to understanding the user, UX designers must also consider the goals and objectives of the platform or organization. Balancing user needs with business goals is crucial in creating a UX that not only delights users but also drives desired outcomes, such as conversions, customer satisfaction, or engagement.

3.2. Key elements of UX design on digital platforms

Key elements of UX design on digital platforms include:

- Information Architecture: Organizing and structuring content in a logical and intuitive manner, ensuring that users can easily find what they are looking for.
- Interaction Design: Designing intuitive and responsive interactions that guide users through the platform, making it easy for them to accomplish tasks and achieve their goals.
- Visual Design: Creating visually appealing and aesthetically pleasing interfaces that align with the brand identity while maintaining usability and legibility.
- Usability and Accessibility: Ensuring that the platform is easy to use and navigate, and that it accommodates a diverse range of users, including those with disabilities.
- Performance and Speed: Optimizing the platform's performance to deliver fast loading times and smooth interactions, minimizing user frustration and abandonment.
- Feedback and Iteration: Gathering user feedback and continuously iterating on the design based on user insights to enhance the UX over time.

3.2. Key elements of UX design on digital platforms

By prioritizing user needs, employing effective design principles, and continuously refining the user experience based on feedback and insights, organizations can create digital platforms that engage, delight, and satisfy users. A well-crafted UX on digital platforms not only enhances user satisfaction but also contributes to the success and growth of businesses in the digital realm.

4. Fundamentals of psychology and ergonomics applied to interface design

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4.1. Psychology in Interface Design

In the digital age, user interfaces have become an integral part of our daily lives. Whether we interact with websites, mobile applications, or other digital platforms, the design of these interfaces plays a crucial role in shaping our overall experience. To create interfaces that are intuitive, engaging, and user-friendly, it is essential to apply the principles of psychology and ergonomics. This article explores the fundamentals of psychology and ergonomics as they relate to interface design and highlights their importance in creating successful user experiences.
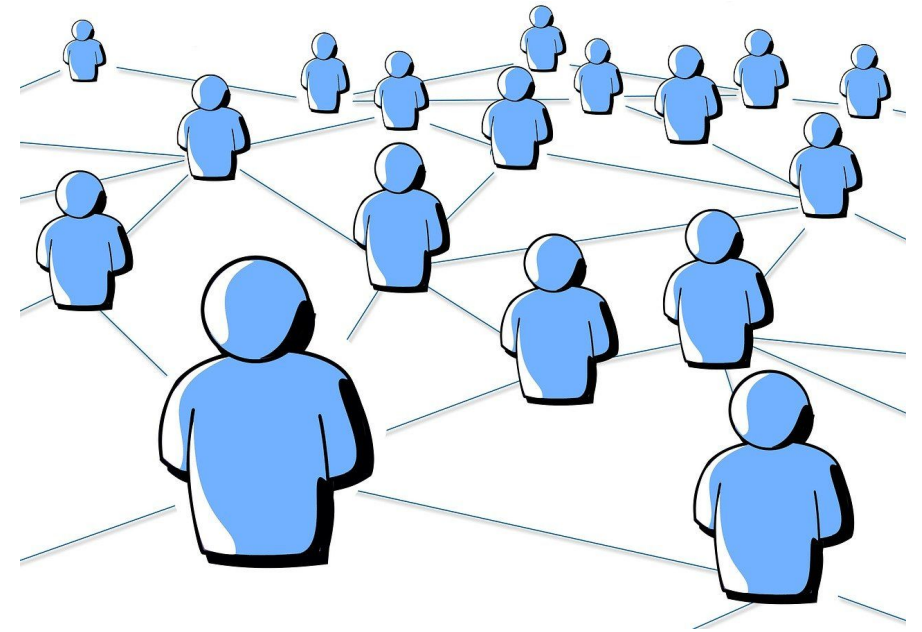
4.1. Psychology in Interface Design

Understanding the human mind and behavior is key to designing interfaces that effectively meet users' needs. Here are some psychological principles relevant to interface design:

- Perception: Visual perception plays a vital role in how users interpret and navigate interfaces. Designers should consider factors like color, contrast, size, and visual hierarchy to ensure information is perceived accurately and efficiently.

- Cognitive Load: Users have limited cognitive resources, and interfaces should minimize cognitive load by organizing information in a clear and logical manner. Employing techniques like chunking, progressive disclosure, and consistent navigation helps users process information more easily.

4.1. Psychology in Interface Design

- Mental Models: Users bring their preconceived mental models and expectations when interacting with interfaces. Designers should leverage these mental models to create intuitive interfaces that align with users' existing knowledge, making it easier for them to understand and navigate.
- Emotional Design: Emotions greatly influence user engagement and decision-making. Interface designers should aim to evoke positive emotions through aesthetics, visual feedback, and microinteractions, ensuring a more enjoyable user experience.

4.2 Ergonomics in Interface Design:

Ergonomics focuses on creating interfaces that are comfortable, efficient, and user-friendly. Consider the following ergonomic principles when designing interfaces:

- Physical Ergonomics: Interfaces should accommodate users' physical capabilities and limitations. Factors such as screen size, font size, button placement, and touch target size should be optimized for ease of use across different devices and input methods.
- Interaction Design: Interfaces should provide clear and intuitive interactions, taking into account user expectations and ergonomic considerations. Incorporating principles like affordance (perceived functionality of elements), feedback, and responsiveness helps users understand how to interact with the interface effectively.

# 4.2 Ergonomics in Interface Design:

- **Accessibility**: Designing interfaces with accessibility in mind ensures inclusion for users with disabilities. This involves considerations such as providing alternative text for images, using color contrast that is legible for individuals with visual impairments, and implementing keyboard navigation options.
- **Usability Testing**: Ergonomics can be evaluated through usability testing, which involves observing users interacting with the interface and collecting feedback. This iterative process helps identify pain points and areas for improvement, leading to more ergonomic designs.

4.2 Ergonomics in Interface Design:

Psychology and ergonomics are essential disciplines for interface designers seeking to create user-centric and efficient digital experiences. By understanding how users perceive, process, and interact with interfaces, designers can craft intuitive and ergonomic designs that facilitate seamless user interactions. Incorporating psychological principles and ergonomic considerations into the design process can greatly enhance the usability, engagement, and overall satisfaction of users.
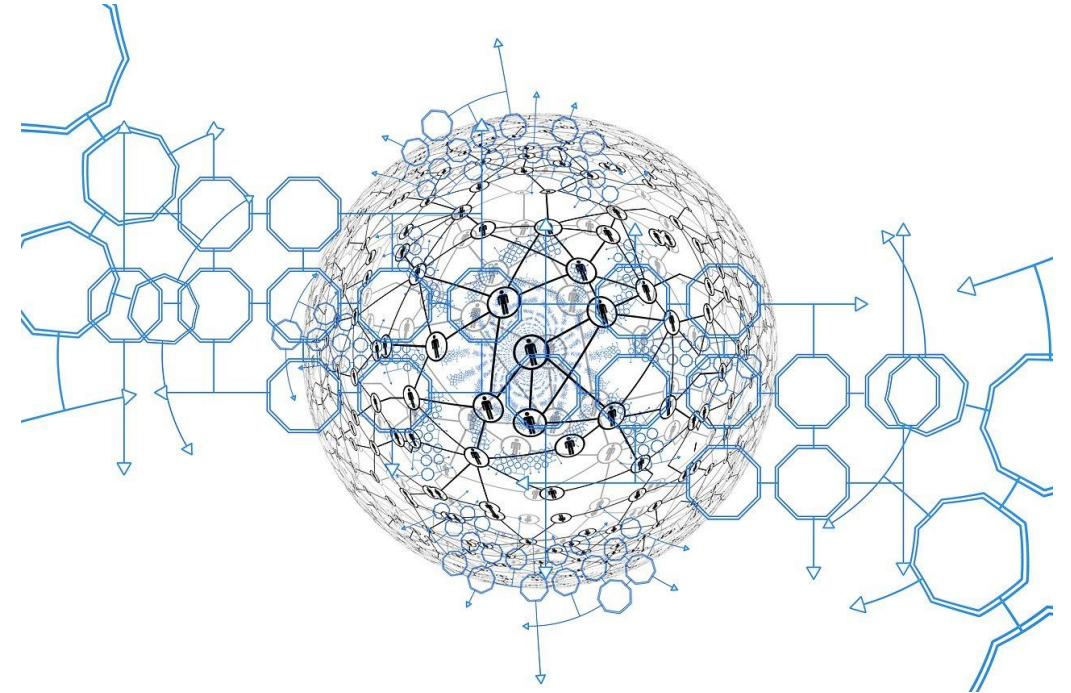
5. User-centred design: how to understand user needs and expectations

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5.1. Conduct User Research

User-centered design (UCD) is a design approach that prioritizes the needs, preferences, and expectations of users throughout the design process. By focusing on the end users, designers can create products and experiences that are intuitive, efficient, and satisfying. This article explores the key principles and techniques of user-centered design, highlighting how to understand user needs and expectations effectively.

5.1. Conduct User Research

The foundation of user-centered design lies in understanding the target audience. User research involves gathering insights about users' goals, behaviors, and preferences. Some common research techniques include:

- Surveys and Interviews: Conducting surveys and interviews helps gather qualitative and quantitative data about users' needs, expectations, and pain points.
- Personas and User Profiles: Creating personas or user profiles based on research findings helps designers develop a deeper understanding of their target audience's characteristics, motivations, and goals.

5.1. Conduct User Research

- Observation and Ethnographic Studies: Observing users in their natural environment provides valuable insights into their behaviors, challenges, and context of product use.
- Usability Testing: Testing prototypes or existing products with representative users helps identify usability issues and gather feedback on user satisfaction.

5.2. Empathize with Users

To design with the user in mind, designers must empathize with their experiences and perspectives. This involves:

- Putting Yourself in the User's Shoes: Imagine yourself as the user, considering their motivations, expectations, and constraints. This empathy helps designers anticipate user needs and tailor the design accordingly.
- Practicing Active Listening: During user research and user testing sessions, actively listen to users' feedback, concerns, and suggestions. This enables designers to gain a deeper understanding of their needs and expectations.

- Using Empathy Tools: Empathy maps, journey maps, and other visualization techniques can help designers visualize and empathize with users' emotions, pain points, and motivations.

5.2. Empathize with Users

- **Define User Personas and Scenarios:**

Based on user research findings, designers create user personas or archetypes that represent the target audience. Personas help designers develop a clear understanding of their users' goals, motivations, behaviors, and preferences. Additionally, defining user scenarios or use cases provides insights into how the product or experience fits into users' lives and the specific tasks they need to accomplish.

5.3. Iterative Design Process

User-centered design is an iterative process that involves continuous feedback and refinement. Key steps include:

- Ideation: Generate design ideas and concepts based on user research and insights. Brainstorming sessions, design workshops, and design thinking techniques can help in this phase.
- Prototyping: Create low-fidelity or high-fidelity prototypes that represent the product or experience. Prototypes allow designers to gather user feedback and iterate on the design before development.
- User Testing and Evaluation: Conduct usability testing sessions with users to observe their interactions with the prototypes. Gather feedback on usability, functionality, and overall user satisfaction.
- Iteration and Refinement: Based on user feedback, refine the design, make necessary improvements, and repeat the testing and evaluation process until the design meets user expectations.

5.3. Iterative Design Process

User-centered design is an invaluable approach for understanding user needs and expectations. By conducting thorough user research, empathizing with users, and incorporating their perspectives throughout the design process, designers can create products and experiences that truly meet user requirements. By embracing user-centered design principles, designers can foster usability, enhance user satisfaction, and create meaningful and engaging experiences for their target audience.

# 6. Interface design and information architecture to improve usability and accessibility

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6.1. Interface Design for Usability

In the realm of digital experiences, interface design and information architecture play crucial roles in improving usability and accessibility. A well-designed interface and a thoughtful information architecture can make digital products and platforms more intuitive, efficient, and inclusive. This article explores the importance of interface design and information architecture in enhancing usability and accessibility, highlighting key considerations and best practices.
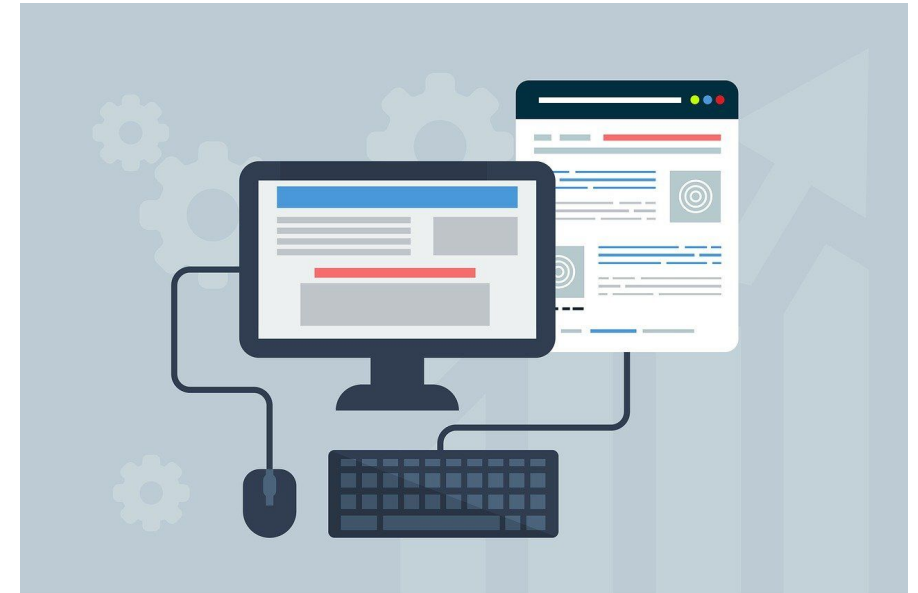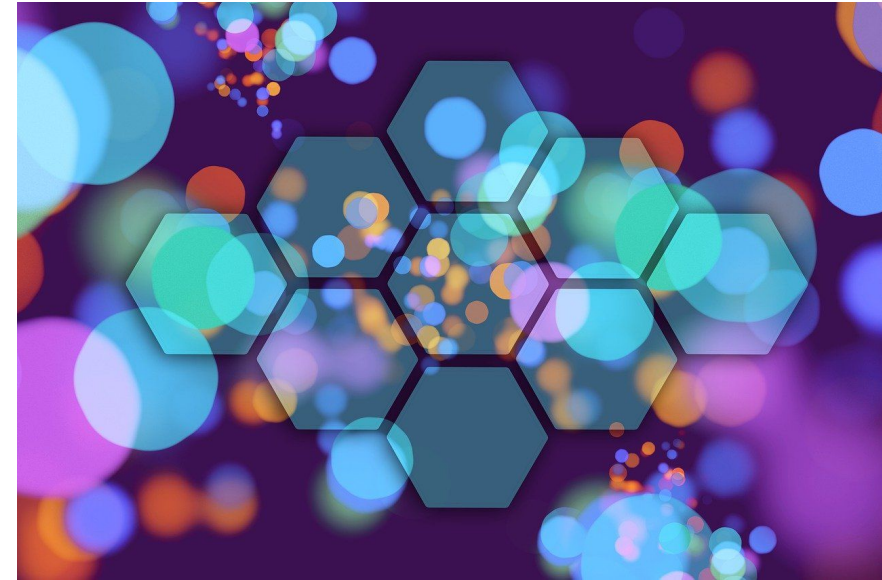
6.1. Interface Design for Usability

Interface design focuses on creating visual and interactive elements that enable users to interact with digital products effectively. Here are some key principles to improve usability:

- Clear and Consistent Layout: Maintain a clear and consistent layout throughout the interface, ensuring that users can easily understand and navigate the content. Consistency in terms of placement, labeling, and visual hierarchy helps users predict where to find information.
- Intuitive Navigation: Design intuitive navigation systems that enable users to move seamlessly through the interface. Use familiar patterns, such as a visible and consistent menu, breadcrumbs, and contextual links, to help users locate and access information effortlessly.

6.1. Interface Design for Usability

- Visual Feedback and Affordance: Provide visual feedback to indicate the status of actions or operations, such as button states, hover effects, and loading indicators. Utilize affordance—making elements appear clickable or interactive—to guide users in their interactions and create a more intuitive experience.

- Readability and Legibility: Ensure text elements are legible and readable by considering factors like font size, contrast, line spacing, and typography. Avoid using overly decorative fonts that can impede readability, particularly for users with visual impairments.
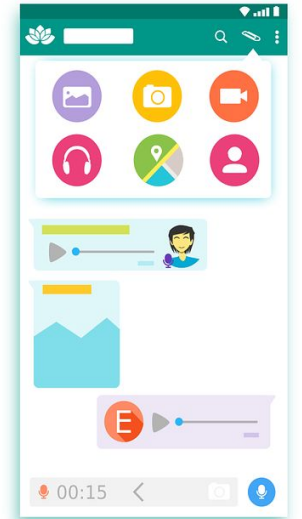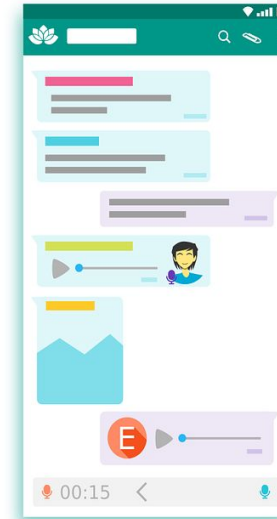
6.2. Architecture for Accessibility

Information architecture involves organizing and structuring content in a logical and accessible manner. Consider the following practices to enhance accessibility:

- Clear Content Hierarchy: Create a clear and well-defined content hierarchy, ensuring that important information is prominently displayed. Use headings, subheadings, and bullet points to structure content, making it easier for users with cognitive or reading impairments to scan and comprehend.
- Meaningful Labels and Descriptions: Use descriptive labels and alt text for images to provide meaningful context and ensure accessibility for users with visual impairments or those using screen readers. Avoid relying solely on visual cues to convey information.

6.2. Architecture for Accessibility

- Consistent and Predictable Navigation: Implement consistent navigation patterns across the interface to help users navigate content easily. Use descriptive and concise labels for navigation elements, ensuring they accurately represent the destination.
- Accessibility Guidelines and Standards: Familiarize yourself with accessibility guidelines such as WCAG (Web Content Accessibility Guidelines) to ensure compliance and create inclusive experiences. Adhere to principles like perceivability, operability, understandability, and robustness to enhance accessibility.

6.3. Usability Testing and Accessibility Audits

Regular usability testing and accessibility audits are essential for evaluating and improving the usability and accessibility of interfaces. These processes involve:

- Usability Testing: Conducting usability tests with representative users to observe their interactions and gather feedback on the interface's usability. Identify pain points, confusion, and areas for improvement, and iteratively refine the design based on user feedback.
- Accessibility Audits: Perform comprehensive accessibility audits using automated tools and manual testing to identify accessibility barriers. Address issues related to color contrast, keyboard navigation, alternative text, and other accessibility considerations.

6.3. Usability Testing and Accessibility Audits

Interface design and information architecture are instrumental in improving usability and accessibility, ensuring that digital products and platforms are inclusive and user-friendly. By implementing best practices, adhering to accessibility guidelines, and actively involving users in the design process, designers can create interfaces that offer seamless interactions, clear information organization, and enhanced accessibility for all users. By prioritizing usability and accessibility, designers contribute to a more inclusive and user-centric digital landscape.

7. Iterative design process: how to iterate and continuously improve the user experience.

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7.1. Iterative Design Process

In the ever-evolving world of design, delivering a remarkable user experience (UX) has become a paramount goal. Iterative design is a powerful approach that allows designers to create exceptional experiences by continuously refining and improving their work. By incorporating feedback, testing, and analysis at every stage of the design process, iterative design fosters innovation and delivers products that truly resonate with users. In this module, we will explore the concept of iterative design and delve into strategies for iteratively improving the user experience.

Iterative design is an iterative approach that emphasizes learning from user feedback and adapting designs based on that feedback. Instead of relying solely on initial assumptions and delivering a final product, iterative design involves multiple cycles of design, prototyping, testing, and refinement. This iterative process helps identify and address usability issues, enhance functionality, and align the product with user needs and expectations.

7.2. Steps and tips to follow

The first step in the iterative design process is to establish a solid foundation by conducting user research. This research involves gaining insights into user behavior, preferences, and pain points. By understanding the target audience, designers can create personas and user journeys that act as guides throughout the iterative process.

With a clear understanding of the user's perspective, the next step is to generate ideas and create initial design concepts. These concepts serve as starting points for the iterative cycle. Designers can create low-fidelity prototypes, such as wireframes or sketches, to quickly test and gather feedback from users. This early feedback allows designers to identify potential issues and make informed decisions for subsequent iterations.

7.2. Steps and tips to follow

During the iterative design process, it is essential to prioritize changes based on their impact and feasibility. Some changes may require substantial effort and time, while others may have a significant impact on user satisfaction with minimal modifications. By focusing on high-impact changes first, designers can ensure that their efforts yield maximum benefits.

Continuous testing and evaluation play a critical role in the iterative design process. As new iterations are developed, they should be tested and analyzed to gather fresh feedback. This allows designers to validate the effectiveness of their changes and identify any new issues that arise. By iterating and testing repeatedly, designers can achieve a refined and polished user experience.
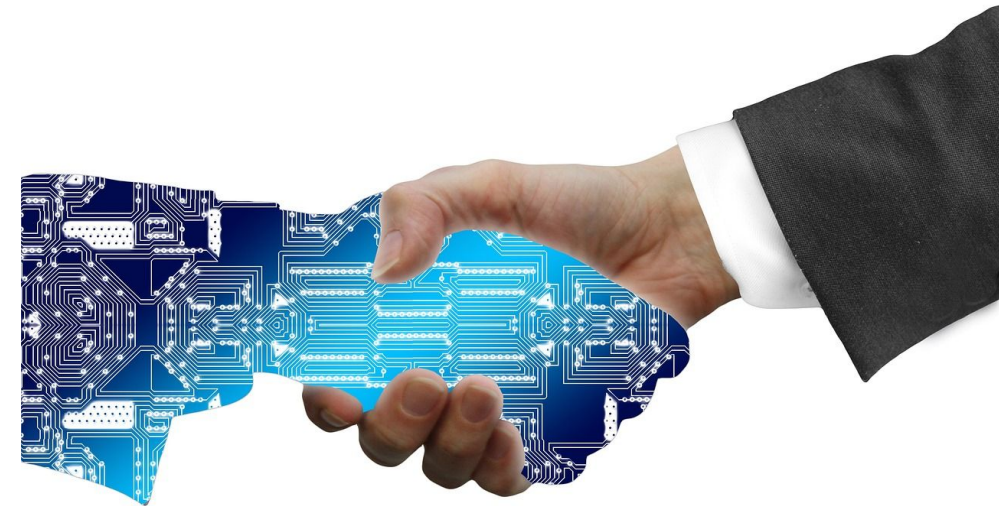
7.2. Steps and tips to follow

Once the initial prototypes are ready, it's time to gather user feedback through various methods like usability testing, interviews, surveys, or analytics. This feedback helps identify areas that need improvement, uncovers unexpected problems, and validates design decisions. By involving users throughout the process, designers can gain invaluable insights and ensure that the final product aligns with user expectations.

Based on the feedback received, designers can then iterate on their designs, refining and enhancing the user experience. This involves making adjustments to the interface, layout, navigation, and functionality based on the insights gained from user feedback. Each iteration brings the design closer to its optimal form, steadily improving the user experience.

7.2. Steps and tips to follow

Additionally, it is crucial to involve stakeholders and maintain open lines of communication throughout the iterative design process. Collaboration and feedback from cross-functional teams, including developers, product managers, and other stakeholders, help align the design process with business goals and technical constraints.

In summary, the iterative design process is a powerful methodology that enables designers to continuously improve the user experience. By incorporating feedback, testing, and analysis at every stage, designers can iteratively refine their designs, addressing user needs, and creating exceptional products. By embracing an iterative mindset and consistently seeking user input, designers can create meaningful and impactful experiences that resonate with users.

8. User experience evaluation: how to measure and analyse user satisfaction.

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8.1. Measuring User Satisfaction

User experience (UX) evaluation is a crucial aspect of design that focuses on understanding and improving the satisfaction users derive from a product or service. Evaluating user experience helps identify usability issues, gauge user satisfaction, and gather insights for enhancing the overall design. In this module, we will explore the concept of user experience evaluation and discuss methods for measuring and analyzing user satisfaction.

8.1. Measuring User Satisfaction

Measuring User Satisfaction:

Surveys and Questionnaires: Surveys are commonly used to gather subjective feedback and measure user satisfaction. Well-designed surveys can provide valuable insights into users' perceptions, preferences, and overall satisfaction levels. Closed-ended questions with rating scales or Likert scales allow for quantitative analysis, while open-ended questions provide qualitative feedback and deeper insights into user experiences.

User Interviews: Conducting interviews allows for in-depth exploration of user experiences, motivations, and pain points. Through structured or semi-structured interviews, designers can delve into the specific aspects of the user experience and gain a comprehensive understanding of user satisfaction. It is essential to carefully craft interview questions to elicit meaningful responses and encourage participants to share their honest opinions.

8.1. Measuring User Satisfaction

Measuring User Satisfaction:

Usability Testing: Usability testing involves observing users as they interact with a product or service. This method provides direct insights into user behavior and enables the identification of usability issues that impact user satisfaction. By recording user actions and collecting feedback during testing sessions, designers can analyze user behavior, frustration points, and overall satisfaction levels.

Metrics and Analytics: Objective metrics and analytics can be employed to measure user satisfaction indirectly. These include metrics such as task success rates, completion times, error rates, and abandonment rates. Additionally, web analytics tools can provide quantitative data about user engagement, conversion rates, and user flow, which can be correlated with user satisfaction.

8.2. Analyzing User Satisfaction

Analyzing User Satisfaction:

Quantitative Analysis: When using surveys or questionnaires, quantitative analysis involves aggregating and summarizing the numerical data collected. This analysis may involve calculating averages, percentages, or creating visualizations such as charts and graphs. Statistical techniques such as regression analysis or correlation analysis can be employed to identify relationships between user satisfaction and specific design factors.

Qualitative Analysis: Qualitative analysis focuses on extracting insights from open-ended responses in surveys, interviews, or usability testing. This analysis involves categorizing and coding the qualitative data to identify common themes, recurring patterns, and emerging issues. Techniques such as content analysis or affinity diagramming can be utilized to make sense of qualitative data and extract meaningful insights.

8.2. Analyzing User Satisfaction

Analyzing User Satisfaction:

Heatmaps and Clickstream Analysis: Heatmaps provide visual representations of user interactions, highlighting areas of interest, popular features, or usability bottlenecks. Clickstream analysis tracks users' navigation paths and interactions, helping identify areas where users may face difficulties or exhibit positive engagement. These visual tools assist in understanding user behavior and uncovering areas for improvement.

Comparative Analysis: Comparing user satisfaction across different iterations, designs, or versions of a product can provide valuable insights. By comparing feedback, usability metrics, or satisfaction scores before and after design changes, designers can assess the impact of their improvements and identify areas that still require attention.

A/B Testing: A/B testing involves comparing two or more variations of a design to determine which one performs better in terms of user satisfaction. By randomly assigning users to different design versions and collecting feedback, designers can measure and compare user satisfaction to make data-driven decisions.

8.2. Analyzing User Satisfaction

In conclusion, user experience evaluation is crucial for understanding user satisfaction and identifying opportunities for improvement. By employing a combination of quantitative and qualitative methods, designers can measure user satisfaction, analyze the data collected, and gain actionable insights for enhancing the user experience. This iterative process of evaluation and improvement helps create products and services that truly resonate with users and drive long-term success.
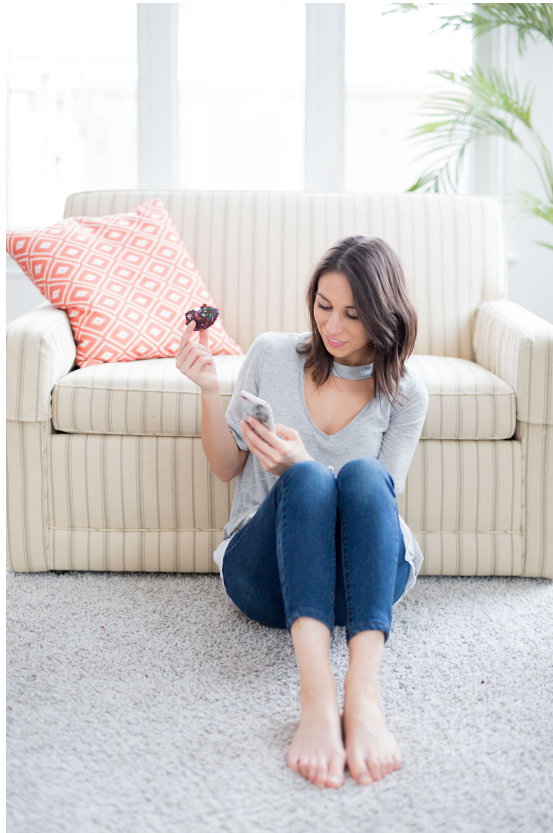
9. Continuous improvement of user experience: how to apply the results of evaluations to improve user experience.

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9.1. Continuous Improvement of User Experience

In today's competitive landscape, delivering a remarkable user experience (UX) is paramount for the success of digital products and services. Continuous improvement of UX involves leveraging evaluation results to identify areas of enhancement and iteratively refining the design to better meet user needs and expectations. In this training, we will explore the concept of continuous improvement in UX and discuss strategies for effectively applying evaluation results to enhance the user experience.

9.1. Continuous Improvement of User Experience

Analyzing Evaluation Results: The first step in the continuous improvement process is to thoroughly analyze the results obtained from user experience evaluations. This involves carefully reviewing quantitative data, such as survey responses, usability metrics, and analytics, as well as qualitative insights gathered through interviews, usability testing, or open-ended questions. By identifying patterns, common issues, and user pain points, designers can gain a deeper understanding of the areas that require improvement.

Prioritizing Enhancements: Once evaluation results are analyzed, it is important to prioritize enhancements based on their impact and feasibility. Some issues may have a more significant impact on user satisfaction or usability, while others may be relatively minor. By prioritizing improvements, designers can allocate resources effectively and focus on addressing the most critical issues that will have the greatest positive impact on the user experience.

9.1. Continuous Improvement of User Experience

Iterative Design: Continuous improvement in UX is achieved through an iterative design process. Using the evaluation results as a guide, designers can create new iterations of the design, incorporating enhancements and addressing identified issues. It is important to remember that this process is not a one-time event but rather a cycle that can be repeated multiple times to refine the user experience further. Each iteration should be tested, evaluated, and refined based on user feedback to ensure progressive improvement.

User-Centric Design: To apply evaluation results effectively, designers should maintain a user-centric approach. By putting themselves in the users' shoes and considering their perspectives, needs, and expectations, designers can make informed decisions about the improvements to be implemented. The evaluation results act as a valuable source of user insights, guiding the design decisions and ensuring that the enhancements align with user preferences.

9.1. Continuous Improvement of User Experience

Collaborative Approach: Applying evaluation results to enhance the user experience requires collaboration among multidisciplinary teams. Involving stakeholders, including designers, developers, product managers, and other relevant team members, fosters a holistic understanding of the evaluation results and encourages diverse perspectives. Collaborative discussions and brainstorming sessions can help generate innovative solutions and ensure that the improvements align with business goals and technical feasibility.

Continuous Testing: Testing and evaluation remain critical even during the continuous improvement phase. As new iterations are implemented, they should be tested and evaluated to gather fresh feedback from users. Usability testing, A/B testing, or feedback collection through surveys or interviews can provide valuable insights into the impact of the applied improvements and identify any new issues that may have arisen. This iterative testing process helps validate the effectiveness of the enhancements and allows for further refinements.

9.2. Long-Term UX Strategy

Long-Term UX Strategy: Continuous improvement of UX should be seen as an ongoing process rather than a one-time activity. Organizations should develop a long-term UX strategy that incorporates regular evaluations and iterative design cycles. By continuously gathering user feedback, applying evaluation results, and refining the design, organizations can create a culture of continuous improvement that leads to a consistently superior user experience.
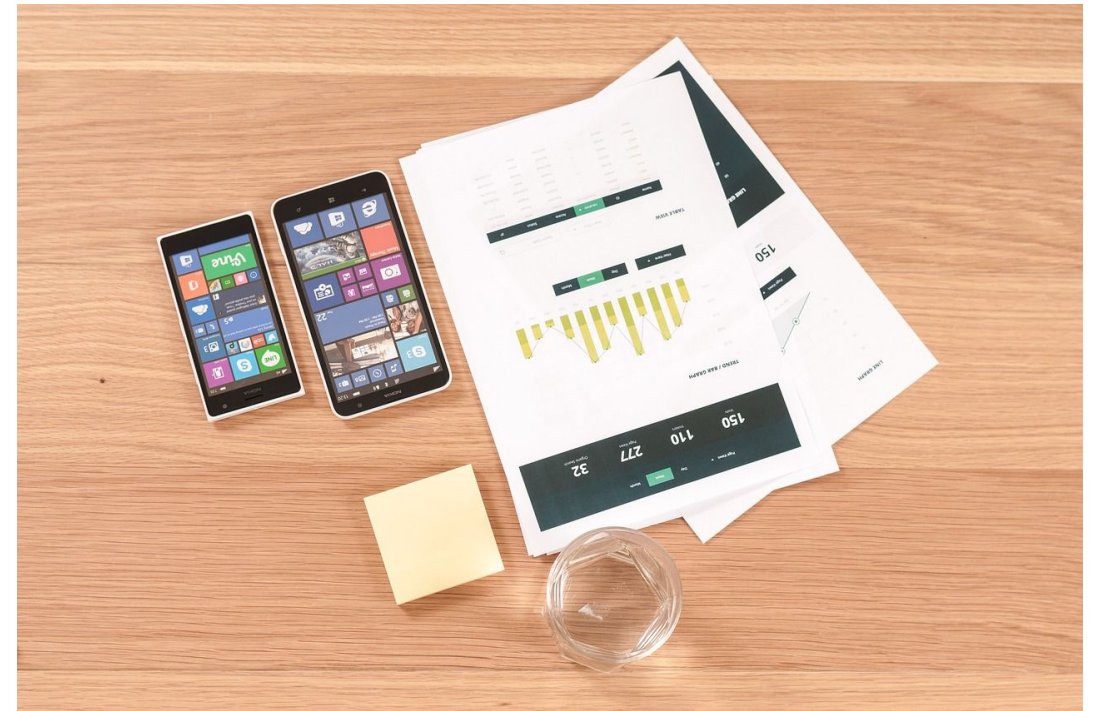
9.2. Long-Term UX Strategy

In conclusion, continuous improvement of the user experience is essential for creating digital products and services that truly meet user needs and expectations. By applying evaluation results, prioritizing enhancements, embracing an iterative design process, and maintaining a user-centric approach, designers can iteratively refine the user experience and deliver exceptional products. With continuous testing, collaboration, and a long-term UX strategy, organizations can establish a cycle of continuous improvement that drives user satisfaction and business success
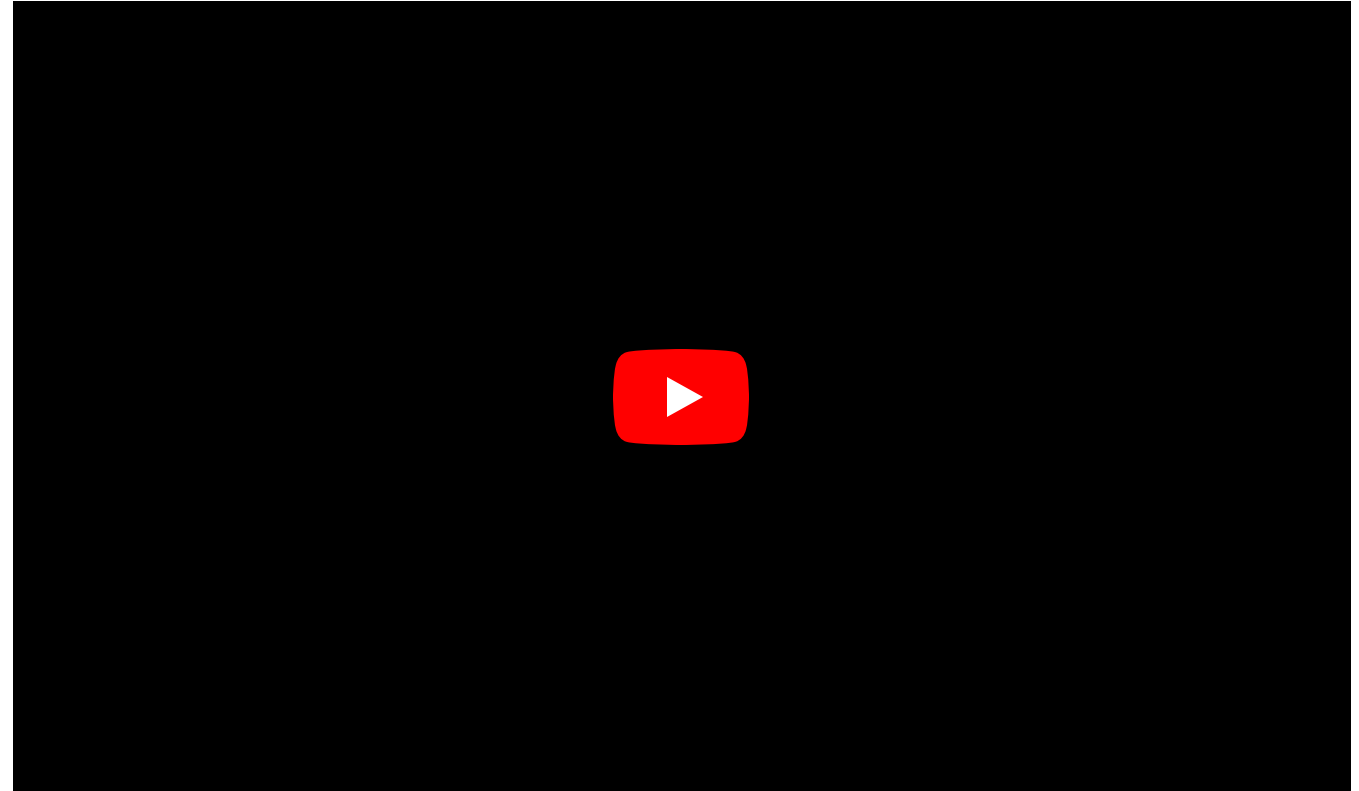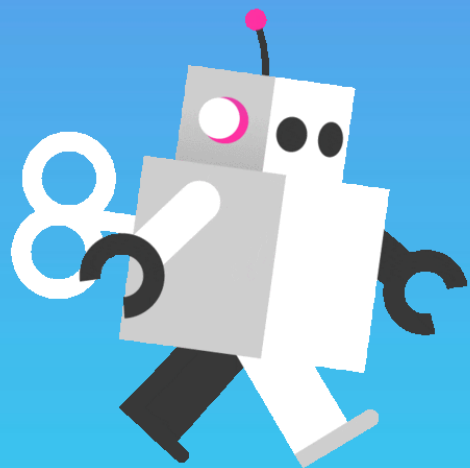
10. CASE STUDY

Take a look to the next video and reflect about…

1. What is Amazon's strategy to enhance the user experience when interacting with the platform?
2. How do they obtain information and evaluate the improvements to be made?
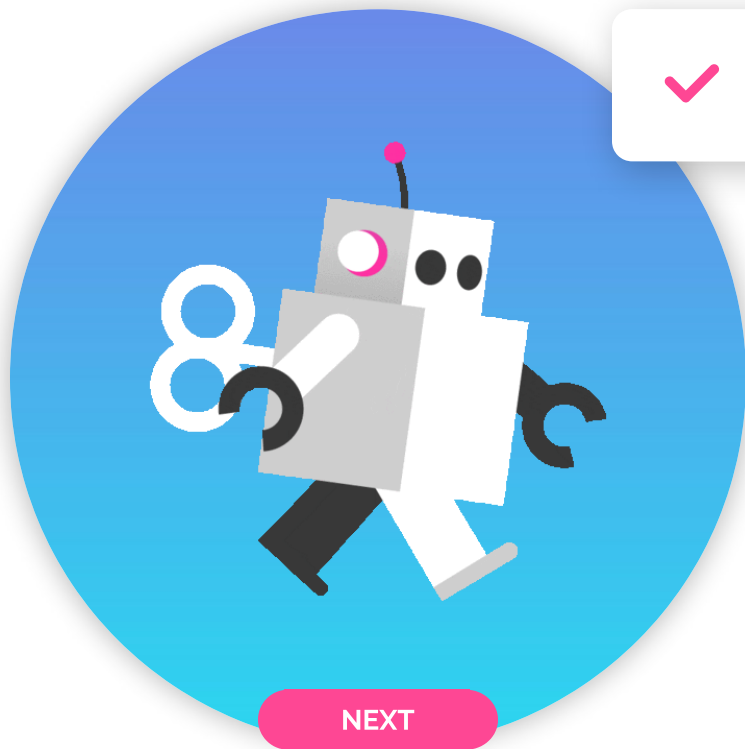
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11. QUIZ

START

Which of these elements is not an important point of UX design in digital platforms?

Interaction Design

Speed of sale

Visual Design

RIGHT!

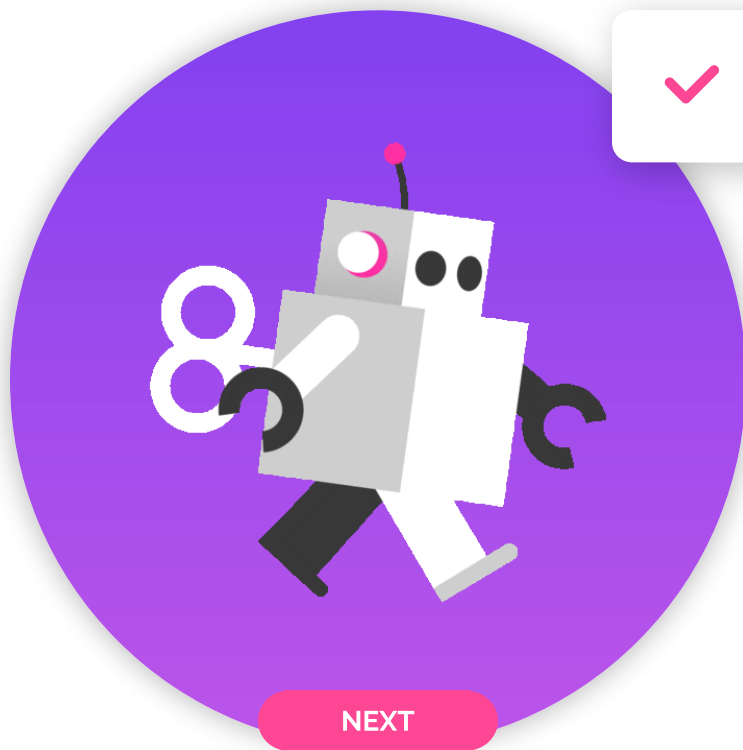NEXT

Which of these elements belong to the fundamentals of psychology applied to interface design?

Design thinking and observation

Usability Testing andAccessibility

Perception and cognitive load

RIGHT!

NEXT

12. Conclusions

1. You've learned that user-centered design is an invaluable approach to understanding user needs and expectations.
2. You now know why psychology and ergonomics are essential disciplines for interface designers seeking to create user-centered and efficient digital experiences.
3. You've learned that interface design and information architecture are critical to improving usability and accessibility, ensuring that digital products and platforms are inclusive and easy to use.
4. You know that user experience evaluation is crucial to understand user satisfaction and identify opportunities for improvement.
5. You have understood why continuous improvement of user experience is essential to create digital products and services that truly meet users' needs and expectations.

13. Bibliography

Bora (2023). Usability heuristics for user interface design, available at: https://uxdesign.cc/usability-heuristics-for-user-interface-design-aeec304fafc9

Cousins, Carrie (2021). *Psychological research applied to interface design:* https://www.editorx.com/shaping-design/article/design-psychology

IONOS (2019). User-centered design: Develop successful products in dialog with users, available at: https://www.ionos.com/digitalguide/websites/web-development/user-centered-design/

Jordan, Darienne (2022). *Digital experience vs. user experience*, available at: https://trymata.com/blog/2022/07/27/digital-experience-vs-user-experience/

Solanki, Harsh (2023). Agile in UX Design: Enhancing User Experience through Continuous Improvement, available at: https://bootcamp.uxdesign.cc/agile-in-ux-design-enhancing-user-experience-through-continuous-improvement-dc7e4af92b18