# hinking & Innovation

# **0006 - Innovation in Digital Trends**

# Learning Outcomes for the Lecture

# Visual Representation For The Key Point

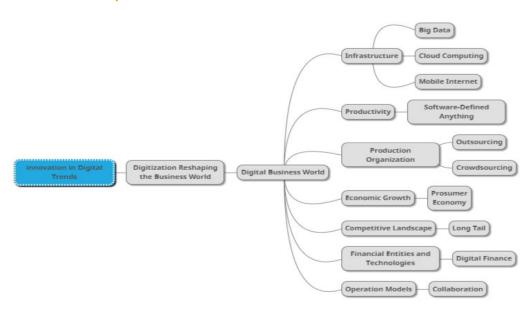
#### At the end of this lecture you will be able to

- Explain how a business world is reshaped by digitization
- Understand the role of the Internet in the business world
- Explain the categories of digital trends

#### Content

- Digitization of Businesses
- Digital Trends:
  - Big Data, Cloud Computing and Mobile Internet
  - Software-Defined Anything
  - Outsourcing and Crowdsourcing
  - Prosumer Economy
  - Long Tail
  - Digital Finance
  - Collaboration

#### Mind Map



# Introduction



The topic you're addressing reflects how digital technologies are rapidly reshaping various traditional methods in different aspects of life. It highlights the shift from old ways of doing things to modern, technology-driven approaches.

Let's break this down and provide detailed explanations with further examples:

## 1. Technological Advancements and Their Impact on Traditional Methods

## **1A. Explanation**

As technology evolves, many of the older, manual, or less efficient
ways of doing things are being replaced by faster, smarter, and more
convenient methods powered by digital tools. The shift is seen in
nearly every aspect of life—from communication, education, and
work to even simple tasks like shopping or paying bills.

#### 1B. Example

 In the past, people would write letters and send them via postal services to communicate over long distances. This was a slow process that could take days or weeks. Today, instant messaging apps like WhatsApp or email provide instantaneous communication, reducing the reliance on traditional mail.

## 2. The Transformation of Communication

# Explanation The communication landscape has been one of the most affected

areas. Traditional methods like face-to-face conversations, handwritten letters, and landline phone calls have been largely replaced by digital alternatives such as texting, video calls, and social media platforms. These newer methods are faster, more accessible, and often more cost-effective.

## 2B. Further Example

Landline vs. Mobile/Internet Communication: Years ago, the
primary way of making calls was through a landline phone, which
limited movement and was expensive for long-distance calls. Today,
mobile phones and apps like Skype, Zoom, or FaceTime enable us to
communicate from anywhere in the world at little or no cost, with

added features like video conferencing and text messaging.

Traditional Media vs. Social Media: Newspapers and magazines
were once the main sources of news and information. Now, digital
platforms like Twitter, Instagram, and YouTube allow real-time
information sharing, engaging a global audience instantly, while also

allowing users to contribute content themselves.

## 3. The Emergence of New Trends

# 3A. Explanation

With the rise of digital technology, new trends are continuously emerging that challenge old habits and norms. These trends often emphasize speed, convenience, and user empowerment, pushing older systems to evolve or become obsolete.

#### 3B. Further Example

- E-commerce vs. Traditional Retail: People once went to physical stores to buy goods. The emergence of e-commerce platforms like Amazon or eBay has transformed how we shop, allowing users to browse, compare prices, and make purchases online without ever leaving their homes. This shift has also sparked new trends like next-day delivery, personalized recommendations, and online customer reviews.
- E-learning vs. Classroom Learning: The traditional classroom setup, where students attend lectures in person, is being transformed by online learning platforms such as Coursera, Udemy, and Khan Academy. E-learning offers flexibility, enabling students to learn at their own pace from any location, making education more accessible.

## 4. Continuing Digital Disruption Across Industries

## 4A. Explanation

The ongoing technological advancements aren't just impacting personal communications but are also transforming entire industries like healthcare, transportation, and banking. Digital tools are enabling businesses to operate more efficiently and in ways that were unimaginable decades ago.

## 4B. Further Example

in real-time.

- Banking: Banking used to involve long lines at physical branches to deposit or withdraw money, or to apply for loans. With the rise of digital banking, customers can now perform transactions online or through mobile apps 24/7. Innovations like mobile wallets (e.g., Apple Pay, Google Pay) and cryptocurrencies (e.g., Bitcoin) are further revolutionizing the financial sector.
- Healthcare: In the past, people had to visit a doctor's office for consultations and prescriptions. Now, telemedicine allows patients to consult with doctors remotely using video calls, and digital health records ensure easy access to patient information. Wearable health tech, like smartwatches, helps individuals monitor their own health

## **Conclusion:**

The push of digital technologies has fundamentally transformed the way we live and interact with the world. The trends we see today are just the beginning, as technology continues to evolve and reshape traditional industries, making processes more efficient, convenient, and accessible.

## **Final Example: Transportation**

• Traditional vs. Ride-Sharing: In the past, taxis and public transportation were the main options for getting around. The rise of ride-sharing apps like Uber and Lyft has disrupted this industry, making it easier to hail a ride with a few taps on a smartphone. Autonomous vehicles and electric cars are further innovations that are set to redefine transportation in the coming years.

In summary, the movement away from traditional methods is driven by the convenience, speed, and innovation that digital technologies offer, reshaping entire industries and how we engage with the world.

# A Business World Reshaped by Digitization

The passage discusses how the world of business has been transformed by the rapid advancement of digital technologies and social media platforms.

The core idea revolves around how digitization has reshaped business practices, education, and communication, fundamentally changing how individuals, businesses, and nations interact with each other. Here's a step-by-step breakdown of the concepts and ideas presented:

## 1. Social Media Connectivity and Growth

The first part highlights how social media platforms have expanded in terms of user base:

- Telegram: 400 million users in 2020, 800 million in 2023.
- Sina Weibo: 500 million users in 2023.
- WeChat: 500 million users in 2020, 1.33 billion in 2023.
- Facebook: 1.2 billion users in 2020, 3 billion in 2023.
- WhatsApp: 1.6 billion users in 2020, 2.7 billion in 2023.

This dramatic increase in the number of users reflects how technology has fundamentally altered communication patterns. Social media platforms allow people to stay connected without the barriers of time and space. Unlike earlier times, where long-distance communication was slow and difficult, now anyone can communicate instantly across the globe.

## Example:

Consider Facebook, which grew from 1.2 billion to 3 billion users in three years. This shows how widely the platform has been adopted for personal communication, marketing, and business engagements. Businesses now advertise their products globally on platforms like Facebook, reaching a broader audience instantly.

## 2. Technology's Impact on Business and Communication

The text explains how technological advancements and digitization have reshaped communication and business operations:

• Business and education have shifted from traditional methods to digital platforms. In education, for instance, platforms like Microsoft Teams enable students to attend classes from anywhere, as long as they have an internet connection. Previously, students had to be physically present in classrooms, and missing a class meant missing the content. Now, with digital tools, distance learning and virtual collaboration have become commonplace.

#### **Example:**

A student in Malaysia can attend the same lecture as one in India or the U.S. via video conferencing software, making education accessible to people globally, regardless of location. Similarly, businesses use these platforms for meetings, project collaborations, and even daily operations.

#### 3. Evolution of Digital Technology

The rapid evolution of digital technologies has made the sharing of information effortless and almost cost-free. This has greatly influenced the flow of communication:

Faster information dissemination: In the past, sharing information
was slow and costly (e.g., newspapers, TV), but today, platforms
allow for instant sharing of news and updates via social media, push
notifications, and apps. This means that people can stay updated on
events and developments in real-time.

#### **Example:**

During a breaking news event, you may receive an alert on your phone, and within seconds, you can share that news with your friends or colleagues. Platforms like WhatsApp or Facebook Messenger allow for this rapid exchange of information, which was previously impossible through older communication channels.

## 4. IoT (Internet of Things) and Human-Technology Interaction

The concept of the Internet of Things (IoT) is introduced, where devices can communicate with each other:

 Human-to-machine interaction has evolved, where people can now communicate with machines (e.g., smart TVs, home automation systems). Through voice assistants like Google Home or Alexa, you can give commands to your devices, such as asking Google to turn on your TV.

#### **Example:**

You can say, "Hey Google, turn on the lights," and the smart home system will turn on your lights. This was considered futuristic just a decade ago, but today it's widely accepted and used in homes and offices globally.

#### 5. Closer Connections

Digitization fosters closer relationships between:

- **Humans and humans**: People can communicate more easily across distances using social media and digital communication tools.
- **Humans and things**: People can control devices using technology.
- Things and things: Devices communicate with each other, completing tasks more efficiently through IoT systems.

## **Example:**

In a modern smart home, devices such as the fridge, TV, and lights are interconnected. You can use your phone to check whether you have enough groceries or turn off your lights remotely.

## 6. Impact on Business, Individuals, and Countries

Digitization affects every level of society, from individuals to entire industries and nations:

- Businesses must adopt digital technologies to stay competitive.
- Industries are transforming with new technologies such as artificial intelligence, automation, and IoT.
- Countries are either leading or catching up in the digital revolution, with some lagging behind.

## Example:

catching up.

A company like Amazon revolutionized retail by moving its operations online, using automation and AI to streamline logistics and customer service. Meanwhile, countries that heavily invest in digitization (e.g., the U.S., China) tend to lead in global trade and innovation, while others are still

## **Conclusion:**

Digitization has reshaped the world by removing barriers to communication, making education and business operations more flexible, and allowing for real-time information sharing. With technology, humans now interact not only with each other but also with machines and systems in ways that were previously unimaginable. While this brings challenges (like fake news), the positive impact on global business, human interaction, and technological advancement is undeniable.

Kodak, founded in 1888, was a dominant force in the photography industry for over a century. It had more than two-thirds of the global photographic
film market share and was synonymous with personal and professional
photography.
However, despite its early success, Kodak faced a rapid decline in the 21st
century due to its inability to adapt to emerging technologies and changing
market dynamics. Kodak's downfall is often used as a classic example of how
businesses can fail despite having significant technological advantages if
they don't innovate in time.

7. Kodak: Missing Its Own Moments

7A. Overview

## photographic film. It created many firsts, including the world's first digital camera

**7B. Key Highlights** 

**Kodak's Early Dominance** 

- using a Charge Coupled Device (CCD) sensor, developed by Kodak engineer Steve Sasson in 1975. This was revolutionary technology for digital imaging.
- photography worldwide.

## i. Kodak's Innovations

- Kodak introduced the first portable, easy-to-use camera in 1888,
  - marketed with the slogan, "You press the button, we do the rest,"
  - which revolutionized amateur photography. The company developed a variety of innovations that pushed the imaging industry forward. For example, its digital imaging patents

Kodak was a pioneer in the imaging industry, especially in

Kodak dominated the global photography market by providing affordable film and cameras to consumers, effectively popularizing

played a significant role in the early days of digital photography.

However, despite these achievements, Kodak became a symbol of how large companies can fail to adapt to disruptive changes in technology.

## i. Failure to Embrace Digital Technology

7C. The Key Reasons for Kodak's Downfall

- Early Digital Camera Development: Kodak was one of the first
  - companies to develop digital camera technology. In 1975, Kodak invented the digital camera, but it hesitated to push the technology forward, fearing it would cannibalize its highly profitable film business.
  - Missed Opportunity: While Kodak held the patents and technological know-how to dominate the digital camera market, it delayed the full-scale development and marketing of digital cameras. This allowed competitors like Canon, Sony, and Nikon to take the lead in digital photography.
  - Misaligned Business Model: Kodak was heavily invested in photographic film, which had been its core business for decades.
     Instead of seeing the digital revolution as an opportunity, Kodak viewed it as a threat. This mindset prevented the company from fully committing to the digital transformation that was sweeping the
  - Example: Kodak had digital camera technology ready to go in the late 1970s. Had it aggressively entered the market, it could have established itself as a leader in the digital age. Instead, it continued to focus on its film business, even when digital cameras started to become mainstream in the 1990s and 2000s.

## ii. Shift in Consumer Behavior

digital.

- consumers started shifting towards digital photography, which allowed users to take and store photos instantly without the need for film or physical prints.

  Smartphone Revolution: The rise of smartphones with built-in
- high-quality cameras further accelerated the decline in demand for traditional film and digital cameras. Consumers preferred the convenience of smartphones for capturing and sharing photos instantly via the internet and social media platforms.

Digital Photography Revolution: In the late 1990s and early 2000s,

- Decline of Film Sales: As consumers moved to digital, the demand for Kodak's primary product—photographic film—plummeted.
   Despite this obvious trend, Kodak was slow to change its strategy and adapt to the new reality of photography being predominantly
- Example: A company like Canon recognized the shift early and moved quickly into digital cameras, releasing models like the Canon EOS series, which became highly popular. Meanwhile, Kodak was still focusing on its film business even when consumer behavior was changing radically.

## iii. Competitive Pressure

- While Kodak hesitated, other companies capitalized on the growing digital camera market. Canon, Sony, and Nikon became dominant players by focusing on digital innovation.
- In addition, Apple and Samsung entered the market with smartphones that included high-quality cameras, making traditional digital cameras less relevant for casual users.
- Example: Apple's iPhone revolutionized photography for the average consumer. By offering a high-quality camera integrated with a phone and easy photo-sharing capabilities, Apple created a whole new market for mobile photography—something Kodak did not foresee.

#### 7D. Lessons from Kodak's Decline

## i. Innovation Is Key

- Kodak's failure to fully embrace digital technology shows how companies that don't innovate or respond to technological shifts can become irrelevant—even if they were once industry leaders.
- Businesses need to recognize disruptive innovations and be willing to disrupt their own models to survive in a rapidly changing world.

## ii. Adapting to Changing Consumer Behavior

 Kodak's slow response to the shift in consumer behavior—from film to digital, and later to smartphones—was a critical error. Companies need to stay attuned to their customers' needs and preferences to remain competitive.

#### iii. Don't Fear Cannibalization

 One of Kodak's primary concerns was that digital photography would hurt its profitable film business. However, had Kodak embraced digital, it might have become a leader in the new market and preserved its long-term success. Instead, the company's reluctance to let go of its past became its downfall.

#### iv. Embrace New Business Models

Kodak failed to evolve its business model from film-based revenue to digital revenue streams (such as selling digital cameras, cloud storage, photo-sharing apps, or software). Companies need to be flexible and open to new business models in the face of technological disruptions.

#### 7E. A Hypothetical Example in Today's World

Imagine if a major smartphone company today refused to adopt AI technologies for camera improvements, like advanced computational photography. Even though AI is transforming the way smartphones take pictures (e.g., by improving lighting, focus, and post-processing), if this company ignored AI due to a reliance on older camera technology, it could lose market share to competitors like Apple, Samsung, and Google, who are actively using AI to improve their products.

#### Conclusion

Kodak's story serves as a cautionary tale of how even the largest and most successful companies can lose their market leadership if they fail to innovate and adapt to new technologies. Kodak's downfall highlights the importance of staying ahead of technological shifts, embracing innovation, and being willing to disrupt one's own business model before someone else does it.

#### 8. The Ever-Changing Digital Business World

The passage you're referring to highlights the dynamics of the digital business world, emphasizing how quickly things can change and how even industry giants are vulnerable to being displaced if they fail to adapt to innovation.

Let's break down each part of this and explore it with examples.

## 8A. The Ever-Changing Digital Business World

This line emphasizes the fast-paced nature of the digital economy. Technology evolves rapidly, and companies must stay on top of these changes to remain competitive. In the digital world, trends, technologies, and consumer preferences shift quickly.

**Example:** Think of Blockbuster, a giant in the movie rental industry during the 1990s. It failed to adapt to the shift to streaming services, leading to its downfall, while Netflix, which started as a DVD-by-mail service, transformed into a streaming powerhouse, embracing the digital transformation early on.

## 8B. The Leaders in the Digital Age Can Easily Fall Behind This refers to the idea that even the most successful companies can lose

their dominant position if they don't continue to innovate. Success in the past doesn't guarantee future success, particularly in industries affected by digital disruption.

## **Example:**

Yahoo was once one of the most prominent internet companies in the world. It was a market leader in web services like search engines, email, and news. However, over time, it lost its relevance because it failed to innovate fast enough, eventually being overtaken by companies like Google and Facebook.

# **8C.** Top 4 Tech Giants Microsoft, Intel, HP, and Yahoo Have Been Dethroned by Apple, Google, Amazon, and Facebook

This emphasizes the shift in market leadership. Once-dominant companies (Microsoft, Intel, HP, Yahoo) have been overtaken by newer digital companies (Apple, Google, Amazon, Facebook) that better adapted to the digital age.

#### **Example:**

- Microsoft vs. Apple: In the early 2000s, Microsoft was the clear leader in personal computing, but Apple innovated with products like the iPhone, iPad, and MacBook, which helped it surpass Microsoft as the most valuable tech company.
- Yahoo vs. Google: Yahoo dominated early internet search, but Google developed a better search algorithm and expanded its services, making Yahoo obsolete in many areas.

# 8D. Many Companies Have Fallen Because of a Resistance to Reform or Have Undergone Disruptive Changes

This highlights that companies which resist change or don't adapt quickly to new market realities often fail. Conversely, those who undergo disruptive changes to stay relevant can survive or even thrive.

#### **Example:**

- Kodak: Kodak was a leader in photography but failed to adapt to the rise of digital cameras, despite having developed the first digital camera. Its resistance to move away from its profitable film business ultimately led to its downfall.
- IBM: IBM is an example of a company that underwent disruptive change. Once known for selling personal computers and mainframes, IBM shifted its focus to software and consulting services, allowing it to remain relevant in a changing industry.

## **8E.** Nokia and Blackberry Ended Up Selling Their Assets Nokia and Blackberry were pioneers in the mobile phone industry but failed

Android). Both companies lost their competitive edge and were forced to sell significant parts of their businesses.

to adapt to the smartphone revolution led by Apple and Google (with

# **Example:**

- Nokia: Nokia once dominated the mobile phone market but struggled when Apple and Android smartphones took over. It sold its phone division to Microsoft in 2013, which later discontinued the
- Nokia line. Blackberry: Blackberry was known for its secure email services and was a favorite among business professionals. However, it couldn't compete with touch-screen smartphones, leading it to pivot into software and sell its mobile business.

## success of new market leaders. The internet created opportunities for companies to scale quickly, connect with customers globally, and innovate

in areas such as e-commerce, social media, and cloud computing.

This statement reflects how the internet has been a driving force behind the

**8F.** Market Players Are Inspired by the Internet

## **Example:**

- Amazon: Initially, an online bookstore, Amazon used the internet to
- expand into e-commerce, cloud services (AWS), and more. The company's success is largely due to its internet-driven innovations. Facebook: Facebook grew rapidly by utilizing the internet to connect users worldwide through a social media platform. It
  - capitalized on the ability to scale its user base through the network effects of the internet.

- **Summary** The digital business world is dynamic, and success depends on a company's ability to innovate and adapt to changes, especially those driven by the internet and technology. Historical leaders like Microsoft, Intel, HP, Yahoo, Nokia, and Blackberry once held dominant positions but were dethroned by more agile, innovative companies like Apple, Google, Amazon, and Facebook. Companies that resist digital transformation risk being left behind, while those that embrace it can rise to leadership positions.

# **The Digital Trends**

#### 1. Big Data

#### 1A. Definition

Big Data refers to datasets so vast and complex that traditional data processing methods are inadequate for handling them. Big data emphasizes not the amount of data but rather using new thinking to interpret the data, with the help of the Internet.

## It is typically characterized by the three Vs:

- Volume: Refers to the enormous amount of data generated daily.
- Velocity: Describes the speed at which this data is created and processed.
- Variety: The many forms in which data comes, including structured, semi-structured, and unstructured formats (e.g., text, images, videos, social media interactions).

#### 1B. Significance

 Big Data analytics allows businesses to derive actionable insights, patterns, and trends by leveraging advanced algorithms, machine learning, and artificial intelligence.

#### 1C. Example

- Spotify: Utilizes Big Data analytics by collecting vast amounts of data from its users (listening habits, song preferences, etc.). It then analyzes this data to offer personalized music recommendations to users.
- Amazon Prime: Collects user behavior data across its platform (video views, purchases, preferences) and uses it to offer personalized content suggestions and even optimize the product catalog.

#### 2. Cloud Computing

## 2A. Definition

Cloud computing involves delivering computing services (servers, storage, databases, networking, software, analytics, etc.) over the internet. This model allows businesses and individuals to access resources and scale them up or down as needed, without having to manage the underlying infrastructure themselves.

## **2B.** Key Characteristics

- Virtualization: Cloud platforms are often built on virtualized resources.
- **Scalability**: Users can scale their needs up or down according to usage requirements.
- Pay-as-you-go: Users only pay for the resources they use, making it a cost-efficient model.

## 2C. Example

Google Cloud and Amazon Web Services (AWS) allow companies to host their applications and data without needing to invest in physical servers.

#### 3. Mobile Internet

## **3A.** Definition

The mobile internet refers to the ability to access the internet using mobile devices like smartphones and tablets, facilitated by wireless technologies such as 3G, 4G, 5G, and Wi-Fi. This trend has changed how individuals interact with the digital world, shifting from desktop-based interactions to mobile-based, enabling more convenience and immediacy in accessing services.

## 3B. Impact

It has revolutionized industries such as entertainment, communication, navigation, and retail.

## 3C. Example

- Waze: A navigation app that uses real-time data from users' mobile devices to help guide them to their destinations, offering crowd-sourced traffic updates.
- **Grab**: A mobile app that connects users with nearby taxis or ride-hailing services based on their location.

#### 4. Software-defined Anything (SDx)

#### **4A.** Definition

Software-Defined Anything (SDx) refers to the use of software to manage and control various aspects of IT infrastructure that were traditionally controlled by hardware. It encompasses areas such as:

- Software-Defined Networking (SDN): Network management is handled via software rather than through manual hardware configurations, allowing for programmatic control.
- **Software-Defined Storage (SDS)**: Storage resources are managed through software.
- Software-Defined Data Centers (SDDC): Entire data centers are controlled via software, making resources more flexible and scalable.

## 4B. Significance

SDx transforms conventional hardware-based systems into flexible, automated, and programmable environments. This shift enables organizations to optimize resource use, improve operational efficiency, adapt quickly to changing business needs, and reduce costs.

#### 4C. Impact

By decoupling physical infrastructure from its management, organizations can increase productivity, lower operational expenses, and improve system agility.

#### 4D. Examples

- Amazon Web Services (AWS): Utilizes SDx principles to manage cloud computing resources, allowing users to deploy virtual servers, storage, and networking via software interfaces.
- Netflix: Relies on SDx to dynamically scale its server resources and optimize content delivery.
- Apple's iTunes: Manages digital media distribution through software-defined systems for seamless access.
- VMware: Offers a suite of SDx solutions, including SDN and SDS, enabling more efficient management of virtualized resources.

## **5A.** Outsourcing i. Definition

5. Outsourcing and Crowdsourcing

## Outsourcing involves contracting specific tasks, functions, or

used to reduce costs, access specialized expertise, and improve operational efficiency. The idea behind outsourcing is "focus on what you do best and let others do the rest". ii. Examples

processes to external third-party service providers, often overseas,

rather than managing them in-house. This strategy is frequently

- Amazon: Outsourced functions like customer service and logistics to third-party providers, allowing the company to focus on its core businesses, such as retail and cloud computing.
- Tech Companies: Some outsource software development to firms in countries with lower labor costs to benefit from specialized skills while minimizing expenses.

## i. Definition Crowdsourcing involves obtaining input, services, or content from a

5B. Crowdsourcing

- large group of people, typically through online platforms. It taps into the collective intelligence and creativity of a broad audience rather than relying on traditional employees or suppliers. Crowdsourcing encourages consumers and users to take charge and pursue their goals.

## ii. Examples

- MH370 Wreckage Search: DigitalGlobe's Tomnod platform used crowdsourcing to encourage volunteers to analyze satellite images
- in search of the missing plane. Waze: A GPS navigation app that relies on user contributions to
- provide real-time traffic and road information, enhancing the accuracy of its navigation. Applause (formerly uTest): Crowdsources software testing by collaborating with a global community of testers to improve
- product quality. Wikipedia: A prime example of crowdsourcing in knowledge creation, with users around the world contributing and editing articles.

Kickstarter: A crowdfunding platform that allows innovators to raise funds by gathering small contributions from a large number of people, often in exchange for early access or rewards.

## **5C. Significance**

a global scale.

Both outsourcing and crowdsourcing are reshaping how services and production are organized. By leveraging external talent or collective efforts, organizations can increase efficiency, reduce costs, and access resources on

## 5D. The difference between Outsourcing and Crowdsourcing

	Crowdsourcing	Outsourcing
Time of rise	The early 21st century	1980s
Environment	Internet	Internet and beyond
Relationship type	Partnership	Contract
Choice of suppliers	Public network	Professional organizations or individuals
Number of suppliers	Unlimited	Contractors only
Payment	Payment on satisfactory results	Regular payment

# **6A. Definition**The prosumer economy refers to a shift where individuals not only consume

6. Prosumer Economy

products, content, or services but also actively participate in their creation or enhancement. The term "prosumer" is a blend of "producer" and "consumer," reflecting this dual role. The rise of digital platforms and the internet has empowered individuals to blur the lines between production and consumption.

## 6B. Significance

- Democratization of Production: This trend reduces barriers to entry for individuals and small businesses, enabling them to participate in economic activities traditionally dominated by larger entities.
- Consumer Influence: Prosumers drive demand, influence product development, and shape services more actively. Their contributions can significantly impact trends, product innovation, and market
- development, and shape services more actively. Their contributions can significantly impact trends, product innovation, and market success.

  Demand Chain and Supply Chain
  Demand Chain and Supply Chain
  Demand Chain and Chain and Supply Chain
  Demand Chain and Supply Chain

## YouTube: Enables prosumers to create and share videos while

**6C. Examples** 

users into creators.
 Social Media Platforms: On platforms like Instagram and TikTok, users create and share their own content, influencing culture and

monetizing their content through advertising, transforming regular

- consumer trends.
   Crowdsourcing Platforms: Websites like Kickstarter and Indiegogo allow individuals to fund and support new projects, directly
- Product Reviews: On platforms like Amazon, consumers leave reviews, influencing other buyers and impacting a product's success.

affecting product development and market success.

 Open Source Software: Projects like Linux and Apache involve thousands of contributors who not only use the software but also contribute to its development, making them both consumers and producers.

The prosumer economy reflects a more participatory economic model, where consumers wield more power and actively shape the market they engage in.

## i. Definition The Long Tail refers to the strategy of selling small quantities of a wide variety of niche products, rather than focusing solely on high-volume best-sellers. This concept highlights that the cumulative sales of niche items can make up a significant portion of the market. ii. Significance ii. Significance Achieving economies of scale allows companies to lower production costs,

# markets efficiently by aggregating global demand. This shift enables companies to offer diverse products and unlock new revenue opportunities from smaller audiences that were previously unprofitable. iii. Example

Digital platforms have made it feasible for businesses to cater to niche

7. Long Tail and Economy of Scale

7A. Long Tail

hits.

# Amazon: Sells a vast array of products, including niche items that

would not be viable to stock in physical stores. The cumulative sales of these niche products contribute significantly to its revenue. Netflix: Offers a large library of films and TV shows, including niche genres that appeal to diverse audience tastes, beyond mainstream

## i. Definition Economy of scale refers to the cost advantages that businesses gain

**7B. Economy of Scale** 

as production increases, resulting in a reduction in the per-unit cost of goods or services. This occurs when fixed costs are spread over a larger number of units.

## increase profitability, and enhance competitiveness in the market.

- iii. Examples: Automobile Manufacturers: Companies like Toyota reduce per-unit costs by producing cars in large volumes, benefiting from
  - economies of scale. Tech Companies: Apple achieves cost savings by manufacturing iPhones in large quantities, allowing it to reduce production costs.

## **7C.** Diseconomies of Scale

## i. Definition

Diseconomies of scale occur when a company's per-unit costs increase as production expands. This can be due to inefficiencies, management challenges, or logistical issues that arise as a business grows too large.

## ii. Example

A company that expands too quickly might face operational inefficiencies, increasing costs and reducing profitability.

Both the Long Tail and economy of scale represent different economic strategies that businesses can leverage to optimize sales and reduce costs. The Long Tail focuses on catering to diverse niche markets, while economy of scale emphasizes the benefits of large-scale production.

#### **Summary**

- Companies focus more on achieving **economies of scale**.
- Average costs decrease with the increase of production.
- A company experiences **diseconomies of scale** if its profits decrease with expanded production.
- Companies achieve economies of scale by increasing production and lowering costs - costs are spread over a larger number of goods.
   Reduction in per unit cost of production when production volume increases e.g.
  - Fixed cost of \$1000 needed to produce Pencil A
  - To produce 10 units of pencil A, Cost = \$100 per pencil
  - To produce 50 units of Pencil A, Cost = \$20 per pencil

Digital Finance refers to the use of digital technologies to offer financial			
services. It encompasses a broad range of financial products, services,			
technologies, and infrastructure that enable customers to engage in			
financial activities through digital channels. These services can include			
mobile payments, digital currencies, mobile banking, peer-to-peer lending,			
and many others.			
One key area within digital finance is digital payments, where financial			
transactions are conducted electronically. Digital payment platforms provide			
users with quick, secure, and easy ways to pay for goods and services.			
Traditional banking and payment systems have limitations, such as			
inefficiencies, high costs, and limited access for consumers.			
8A. Traditional Payment Models vs. Digital Finance			
<ul> <li>In traditional payment systems, customers and businesses rely on</li> </ul>			
the infrastructure of banks for transactions. However, direct access			
to a bank's payment and settlement system is costly, slow, and often			
impractical for smaller companies and individuals.			
Digital finance disrupts these traditional models by enabling			
third-party companies to bridge the gap between customers,			

merchants, and banks through integrated online gateways.

8. Digital Finance

customers and merchants, allowing them to conduct transactions without needing to interact directly with banks.
 These companies aggregate multiple payment methods and provide a streamlined gateway, so businesses don't need to implement separate systems for different banks or credit card processors.

Third-party payment companies serve as intermediaries between

8B. How Third-Party Payment Systems Work

 As a result, businesses and consumers can transact seamlessly with different payment options, regardless of the bank or financial institution.

#### **8C.** Key Examples of Digital Payment Systems

#### 1. PayPal

- Overview: PayPal is one of the most widely recognized third-party payment systems globally. It allows individuals and businesses to send and receive payments electronically.
- How It Works: PayPal users create an account and link it to their bank accounts, credit cards, or debit cards. It acts as a payment intermediary by transferring funds from a payer's account to a payee's account.
- Business Use: Many e-commerce platforms and businesses offer
   PayPal as a payment option because of its ease of use and security.
- Key Feature: One of PayPal's standout features is its buyer protection service, which can refund users if they don't receive the item they purchased.

#### 2. AliPay (China)

- Overview: AliPay, owned by Alibaba Group, is a digital payment platform that dominates the Chinese market.
- How It Works: Like PayPal, AliPay allows users to link their bank accounts and make payments online, but it is heavily integrated into China's e-commerce ecosystem (especially Alibaba's online marketplace, Taobao).
- Key Features: AliPay's QR code scanning system allows businesses to receive payments quickly and efficiently. In China, QR codes are ubiquitous, with people using them for everything from small local markets to large retail transactions.
- Super App: AliPay is also a "super app," which means it integrates
  multiple services like payment for utilities, insurance, ride-hailing,
  and investments.

#### 3. Google Wallet

- Overview: Google Wallet, now integrated into Google Pay, was initially a peer-to-peer payment service allowing users to send and receive money using email or mobile phone numbers.
- How It Works: Today, Google Pay allows for mobile payments at point-of-sale (POS) terminals, as well as online transactions. Google Pay connects with users' bank accounts or credit cards to make the payment process seamless.
- Key Features: One of Google Pay's strengths is the integration with Android devices and Google's broader ecosystem, making it easy for users to link accounts across platforms. It also supports tap-to-pay at physical stores, making it a convenient contactless payment option.

#### **8E. Advantages of Digital Finance**

- Cost Reduction: Digital finance can lower transaction fees and overhead costs compared to traditional banking systems. For example, cross-border transactions through PayPal or AliPay may be more affordable than going through a bank.
- Efficiency and Speed: Transactions can be processed instantly or in minutes, unlike traditional systems that may take days for settlement. Google Pay and AliPay both allow instant payments.
- Accessibility: Digital finance enables unbanked populations to engage in the financial system by offering payment options through mobile devices.
- Security: Digital payment platforms often have robust encryption, tokenization, and two-factor authentication to secure transactions.

## **8F. Further Examples of Digital Finance Systems**

- Venmo: Owned by PayPal, Venmo is a peer-to-peer (P2P) payment system primarily used in the U.S. It's known for its social features, where users can share payment details with their network.
- Square: Square started as a simple way for small businesses to accept card payments using mobile devices. Now, it's a full-service payment and business management platform for retailers, offering everything from payroll services to analytics.
- Stripe: Stripe is an online payment processor for internet businesses. It allows companies to accept payments through their websites and mobile apps. It's heavily used by startups and e-commerce platforms.
- WeChat Pay: Another major player in China, WeChat Pay is integrated into the WeChat app (a widely-used messaging app in China). It's used for everyday transactions like paying for groceries or booking tickets.

#### **8G. Future Trends in Digital Finance**

- Blockchain-based Payments: Cryptocurrencies like Bitcoin and Ethereum are becoming more common in digital finance. Blockchain technology allows secure, decentralized transactions without the need for intermediaries.
- Mobile-First Banking: Many new financial startups are offering "neobanks" or digital-only banks, which operate without physical branches and offer all services via mobile apps (e.g., Chime, Revolut).
- Artificial Intelligence (AI) in Payments: AI is being used to enhance security, streamline payment processes, and offer personalized financial advice through virtual assistants and chatbots.

#### **Conclusion**

Digital finance has transformed how consumers and businesses handle payments, making the process more efficient, secure, and accessible. Third-party payment platforms like PayPal, AliPay, and Google Pay have successfully bridged the gap between merchants and banks, allowing for seamless transactions across the globe. As technology advances, digital finance will continue to evolve, offering new ways for people to engage in the financial system.

#### 9. Collaboration

#### 9A. Definition

**Collaboration** refers to a group of people working together toward a common goal, often by sharing knowledge, ideas, and resources. It enables individuals with different skills or expertise to combine their efforts to achieve a shared objective. Collaboration is not limited to formal settings; it can occur in personal projects, businesses, academic research, or even social causes.

In a collaborative setting, each participant brings unique value, ensuring that the collective effort produces better outcomes than if individuals were working separately. Modern technology has made collaboration easier through various platforms and tools that enable real-time communication, document sharing, and project management, even across different locations.

#### 9B. Examples of Collaboration

#### i. Photographer and Designer Collaboration

A photographer and designer might collaborate on a project to create a visually striking cover image for a magazine or a website. The photographer brings their expertise in capturing compelling images, while the designer uses their skills to enhance and align the visual elements with the overall branding and message. By working together, they ensure the final product is visually cohesive and aligned with the project's goals.

#### ii. Technology and Marketing Teams Collaboration

• In a corporate setting, the technology department may work with the marketing team to execute quarterly goals. For example, the marketing team needs a new website feature to support a product launch, while the technology department ensures that the required infrastructure, tools, and software are in place. Regular meetings allow both teams to coordinate their efforts, adjust timelines, and ensure that the project progresses smoothly.

## 9C. Types of Collaboration

## i. Intra-team Collaboration:

This occurs within the same team where members work together to achieve a project or goal. Example: A product development team working on creating a new feature.

## ii. Inter-departmental Collaboration:

• Teams from different departments collaborate to achieve cross-functional goals. Example: Finance and Human Resources departments working together to create a compensation plan.

#### iii. External Collaboration:

 Working with external stakeholders, partners, or clients to achieve a common goal. Example: A business collaborating with a marketing agency to enhance their online presence.

## 9E. Benefits of Collaboration

- Diverse perspectives: Different people bring unique ideas and solutions.
- Faster problem solving: Collaborators can solve problems quicker by pooling knowledge.
- **Shared ownership of results**: Teams feel more invested in the success of projects they contribute to.
- Innovation: Collaboration encourages creativity and innovation as people build on each other's ideas.

#### **9F.** Collaboration Tools

## i. Google Drive:

- Cloud-based storage service that allows teams to store, share, and collaboratively work on documents in real-time.
- Example: A marketing team can store all campaign assets in a shared folder, making them accessible to team members worldwide.

## ii. Google Meet:

- A video conferencing tool that allows teams to communicate face-to-face virtually.
- Example: A company with remote employees can hold virtual meetings to discuss projects and align strategies.

## iii. Skype:

- A communication tool that supports instant messaging, audio, and video calls.
- Example: Customer support teams can use Skype to assist clients through live chat and video calls.

#### iv. GoToMeeting:

- An online meeting and web conferencing tool for businesses.
- Example: A business may use GoToMeeting to hold a product demo for potential clients in different locations.

#### v. Microsoft Teams:

- A team collaboration platform that combines workplace chat, video meetings, and file sharing.
- Example: A development team can use Microsoft Teams to discuss project updates, share code, and host team meetings.

#### vi. OneDrive:

- Microsoft's cloud storage service allows document sharing and collaboration.
- Example: A project manager can upload timelines and project files to a shared OneDrive folder, enabling team members to access and update them in real-time.

#### vii. SharePoint:

- A web-based collaboration platform used for document management, file sharing, and team collaboration.
- Example: A law firm can use SharePoint to manage client case files, making it easier for legal teams to collaborate.

#### viii. Yammer:

- An enterprise social network used for team communication within organizations.
- Example: Employees across different departments can share company updates, ask questions, and collaborate on projects in an informal setting.

#### ix. Trello:

- A project management tool that helps teams organize tasks and workflows using boards, lists, and cards.
- Example: A marketing team can track campaign progress, assign tasks, and collaborate on Trello boards to ensure everyone is aligned.

## x. Slack:

- A messaging app that enables teams to communicate via channels dedicated to specific projects or departments.
   Example: A software development team can use Slack to share
- Example: A software development team can use Slack to share code, discuss project issues, and coordinate deadlines in real-time.

#### **9G. Further Examples of Collaboration in Real-World Scenarios** Conclusion i. Medical Research Teams

scientists, doctors, and pharmaceutical companies. For example, in the development of a new drug, researchers conduct laboratory experiments, clinical trials are managed by doctors, and pharmaceutical companies handle distribution and marketing. Together, they work towards the shared goal of bringing a new

In medical research, collaboration often occurs between teams of

- treatment to market.
- ii. Film Production Teams A film production involves collaboration among directors, screenwriters, actors, cinematographers, and editors. Each person's expertise contributes to the final product: the director oversees the
- life, and editors shape the final cut of the movie.

communication.

iii. Open-Source Software Development Open-source projects like Linux or WordPress involve global collaboration. Developers from around the world contribute code, fix bugs, and add new features. Contributors work together virtually, using tools like GitHub for version control and Slack for

vision, the screenwriters create the story, actors bring characters to

- Collaboration is key to achieving shared goals efficiently, especially in
- today's interconnected, globalized world. With modern collaboration tools and technologies, people from diverse disciplines and geographical locations can work together in real-time, fostering innovation and driving
- success in various fields.

Summary		
•	Big Data, Cloud Computing, Mobile Internet - focuses on changes in infrastructure.	
•	Software-Defined Anything - focuses on changes in productivity.	

- Outsourcing And Crowdsourcing focuses on changes in production organization.
  - **Prosumer Economy** focuses on changes in forces of economic growth.
- Digital Finance focuses on changes in financial entities and

Long Tail - focuses on changes in competitive landscape.

- technologies.
- Collaboration focuses on changes in operations models.

# **Definition Questions**

## 1. Explain The Following Terms:

**Question 1**: Cloud Computing

#### Answer:

An environment that provides resources and services accessed via the Internet.

Cloud computing is the delivery of various services such as storage, databases, servers, networking, software, and analytics over the Internet. Instead of owning their physical hardware and software, users can access and use these resources remotely, often on a pay-as-you-go basis. This eliminates the need for users to manage infrastructure and helps in scalability and cost-efficiency.

**Example**: Companies like Google Drive, Dropbox, or AWS (Amazon Web Services) offer cloud-based services where users store data or run applications without needing their physical infrastructure.

## **Question 2**: Prosumer Economy

#### **Answer:**

Consumer demand play a leading role reshaped into the demand chain. The term prosumer is a portmanteau of the words 'provider' and 'consumer.' A prosumer is an individual who not only consumes but also produces.

The term "prosumer" comes from the combination of "producer" and "consumer." It describes an individual who not only consumes products and services but also contributes to the creation, modification, or production of them. In a prosumer economy, the traditional line between producers and consumers blurs, as consumers participate actively in product development, feedback, and customization.

**Example**: A YouTuber who both watches (consumes) videos and also creates (produces) content for others is a classic example of a prosumer. Platforms like YouTube, where users generate content, encourage a prosumer economy.

## **Question 3**: Software-Defined Anything

**Answer:** 

hardware.

It is identified as one of the Top 10 Strategic Technology Trends as a technology with the potential for significant impact on enterprises. In an era where young entrepreneurs are keen on disruptive innovation, "software-defined anything" is not merely a concept but a growing trend towards disrupting traditional way of thinking.

**Software-defined anything (SDx)** refers to the trend of using software to manage, control, and automate the infrastructure of various technologies and systems, traditionally operated by hardware. This concept includes technologies like software-defined networking (SDN), software-defined storage (SDS), and software-defined data centers (SDDC).

**Explanation:** SDx decouples the control and management of devices from the underlying hardware, allowing for greater flexibility, scalability, and automation. This shift is driven by the need for agile IT operations, where the infrastructure can be provisioned and managed through software interfaces, reducing manual intervention and dependency on specialized

For example, in software-defined networking, the network is managed by a central controller using software, rather than configuring each individual router or switch manually. This allows organizations to scale up network resources, adjust configurations quickly, and deploy network policies dynamically.

**Further Example:** In cloud computing, services like Amazon Web Services (AWS) or Microsoft Azure use SDx to provide users with the ability to define their virtual machines, storage, and networking environments using a software interface, without the need to interact with the underlying physical infrastructure. This increases efficiency, reduces operational costs, and enhances adaptability.

Question 4: Outsourcing And Crowdsourcing

Answer:

Outsourcing is "focus on what you do best and let others do the rest".

Crowdsourcing encourages consumers and users to take charge and pursue their goals. Obtain info about a task by enlisting the services of a large number of people, either paid or unpaid, typically via the internet.

**Outsourcing**: Outsourcing is the practice where a company delegates certain business processes or tasks to external service providers. This allows the company to focus on its core competencies while leveraging the specialized expertise and cost advantages offered by external vendors.

**Explanation:** For example, a company might outsource its customer service operations to a call center in another country to reduce operational costs. The company benefits by focusing on product development and marketing while the outsourced company handles customer inquiries efficiently.

company, allowing them to focus on the development process without worrying about the time-consuming testing phase. This saves money and ensures that specialized testing processes are followed.

Crowdsourcing: Crowdsourcing involves obtaining ideas, services, or content by soliciting contributions from a large group of people, usually via

Further Example: An IT firm might outsource software testing to another

**Explanation:** Crowdsourcing allows organizations to tap into the collective intelligence and skills of a global community to achieve specific tasks. The concept is used for tasks ranging from problem-solving to creative design and data collection.

the internet, rather than relying on traditional employees or suppliers.

**Further Example:** Wikipedia is a crowdsourced encyclopedia where thousands of users contribute to writing and editing articles. Similarly, platforms like Kickstarter allow individuals to crowdsource funding for creative projects from a large number of small donors, rather than relying on traditional investment channels.

# **Review Questions**

Question 1: List the SEVEN (7) digital trends and their focuses.

Answer:

Big Data - Focuses on gathering, analyzing, and extracting insights from large datasets.

**Cloud Computing** – Provides on-demand access to computing resources,

services, and storage via the Internet.

**Mobile Internet** – Emphasizes connectivity and services on mobile devices

verify transactions in a tamper-proof ledger.

like smartphones and tablets.

Artificial Intelligence (AI) - Involves creating intelligent systems capable of performing tasks typically requiring human intelligence.

Internet of Things (IoT) – Refers to the interconnection of everyday devices

to the Internet, enabling them to send and receive data.

Blockchain - Focuses on secure, decentralized technology used to store and

**3D Printing** – Involves creating physical objects from digital models through layer-by-layer material deposition.

**Question 2**: Explain what is meant by Collaboration and the tools used to support it.

## Answer:

brand and marketing goals.

When a group of people come together and contribute their expertise for the benefit of a shared objective, project, or mission. For example: a photographer working with a designer to create a cover image or the IT department that regularly meets with the marketing team to ascertain if the organizational goals are achieved.

together to achieve a common goal, sharing expertise, ideas, and resources. Effective collaboration involves open communication, mutual respect, and teamwork.

**Collaboration** refers to the process of multiple individuals or teams working

**Example:** A marketing team might collaborate with a design team to create promotional content for a new product launch. The designers work on visuals, while the marketing team handles messaging. Together, they produce cohesive promotional materials that align with the company's

## **Tools Supporting Collaboration:**

## 1. Communication Tools:

2.

 Slack or Microsoft Teams allow teams to exchange messages, share files, and integrate with other tools, enabling seamless communication.

## Document Sharing and Editing Tools:

 Google Docs or Microsoft Office 365 allow multiple people to work on the same document simultaneously, providing real-time collaboration and feedback.

#### 3. **Project Management Tools:**

 Trello or Asana help teams track the progress of projects, assign tasks, set deadlines, and monitor deliverables, improving collaboration efficiency.

#### 4. Video Conferencing Tools:

 Zoom or Google Meet allow remote teams to collaborate in real-time through video calls, enhancing communication across locations.

## 5. File Sharing Platforms:

 Dropbox or Google Drive facilitate easy sharing of large files among team members, ensuring everyone has access to the latest versions of important documents.

# **Multiple Choice Questions**

Question 1: Emphasizes not the amount of data but rather using new thinking to interpret the data, with the help of the Internet.

- (a) Cloud Computing
- (b) Big Data
- (c) Mobile Internet
- (d) Digital Trends

Answer: (b) - Big Data refers to massive amounts of data that require advanced techniques and technologies to process and interpret. It emphasizes extracting valuable insights from this vast data pool, often facilitated by cloud computing and AI.

Question 2: Focus on what you do best and let others do the rest.

- (a) Prosumer
- (b) Outsourcing
- (c) Long Tail
- (d) Crowdsourcing

**Answer: (b)** - Outsourcing is the practice of delegating certain business tasks or functions to external parties, allowing companies to focus on their core competencies. For example, a company might outsource its customer service or IT management to external specialists.

## Research

Question 1: Kodak was on top in the imaging and photographic film market. It created the world's first digital camera using a Charge Coupled Device (CCD), a major piece of technology for digital imaging. Yet, Kodak failed to capture its own moments.

- (a) How do you take pictures today?
- **(b)** Where do you store the photos?
- (c) Why do you think Kodak did not make it through?
- **(d)** What could Kodak have been done to keep abreast of digital technologies?

#### **Answer:**

**Kodak and Digital Transformation:** 

a) How do you take pictures today? Today, most people use smartphones to take pictures. The built-in cameras in smartphones have significantly advanced, offering high-quality photography and features like filters, effects, and instant sharing capabilities.

b) Where do you store the photos? Photos are primarily stored in cloud-based services like Google Photos, iCloud, or OneDrive. Some also store them on social media platforms or external hard drives for backup.

c) Why do you think Kodak did not make it through? Kodak failed to adapt to the digital revolution despite being one of the pioneers in digital imaging technology. It focused too much on its profitable film business, not fully embracing the shift to digital photography. As a result, competitors who capitalized on the digital camera and smartphone boom overtook Kodak in the market.

d) What could Kodak have done to keep abreast of digital technologies? Kodak could have invested more in digital camera development and shifted its business model towards services like digital photo storage or online image-sharing platforms. It could have also focused on building partnerships with smartphone manufacturers to integrate its imaging technology directly into mobile devices. Additionally, transitioning to a more agile, innovation-driven approach could have helped it stay competitive.

undisputed king of photographic film, with two thirds of global market share. Kodak created many "firsts". Research to determine the reasons why Kodak failed to retain its number one position in the market – what was the prime reason of its downfall.

Question 2: Kodak started its business in the 18th century and was the

## Answer:

revolutionized the photography industry with innovations like the handheld camera and easy-to-use film rolls. However, despite its early dominance, Kodak failed to adapt to the rise of digital photography, leading to its eventual downfall.

Research Findings: Kodak was a global leader in photographic film and

## Prime Reasons for Kodak's Downfall:

• Failure to Adapt to Digital Technology: Kodak invented the digital camera in 1975, but the company was hesitant to fully embrace the digital age, fearing it would cannibalize its profitable film business. As digital photography became more popular, Kodak's traditional film products became obsolete, and competitors like Sony, Canon, and Nikon captured the digital market.

Kodak continued to prioritize its film business, delaying its transition into the digital space until it was too late to catch up with competitors who had already established a strong foothold in the market.

**Example:** Despite recognizing the potential of digital cameras,

- Slow Strategic Shift: Kodak's management underestimated the speed at which consumer preferences would shift to digital formats.
   While it attempted to pivot by introducing digital cameras and printers, these efforts were too late and lacked the innovation needed to compete with established tech companies in the digital sphere.
- Overreliance on Legacy Products: Kodak was too reliant on its film-based revenue streams and failed to invest sufficiently in new digital technologies. The company's iconic brand was associated with film, and the transition to digital required a complete overhaul of its business model, which it was unwilling or unable to execute swiftly.

Further Example: Kodak's decision to stick with its legacy film business while its competitors embraced digital innovation left it at a competitive disadvantage. By the time Kodak fully embraced digital photography, it had already lost significant market share to companies that had invested in cutting-edge digital technologies.

**Late Diversification:** Kodak tried to diversify into printing and other

digital products, but these efforts came too late, and it couldn't compete with companies that had already established dominance in the digital world.

in the digital age, combined with a reluctance to let go of its profitable film business, ultimately led to its downfall. It serves as a classic example of how disruptive technology can dismantle a once-dominant player that fails to innovate in time.

**In Conclusion:** Kodak's failure to anticipate and respond to market changes