INNOVATIONAND NEWBUSINESS MODELS

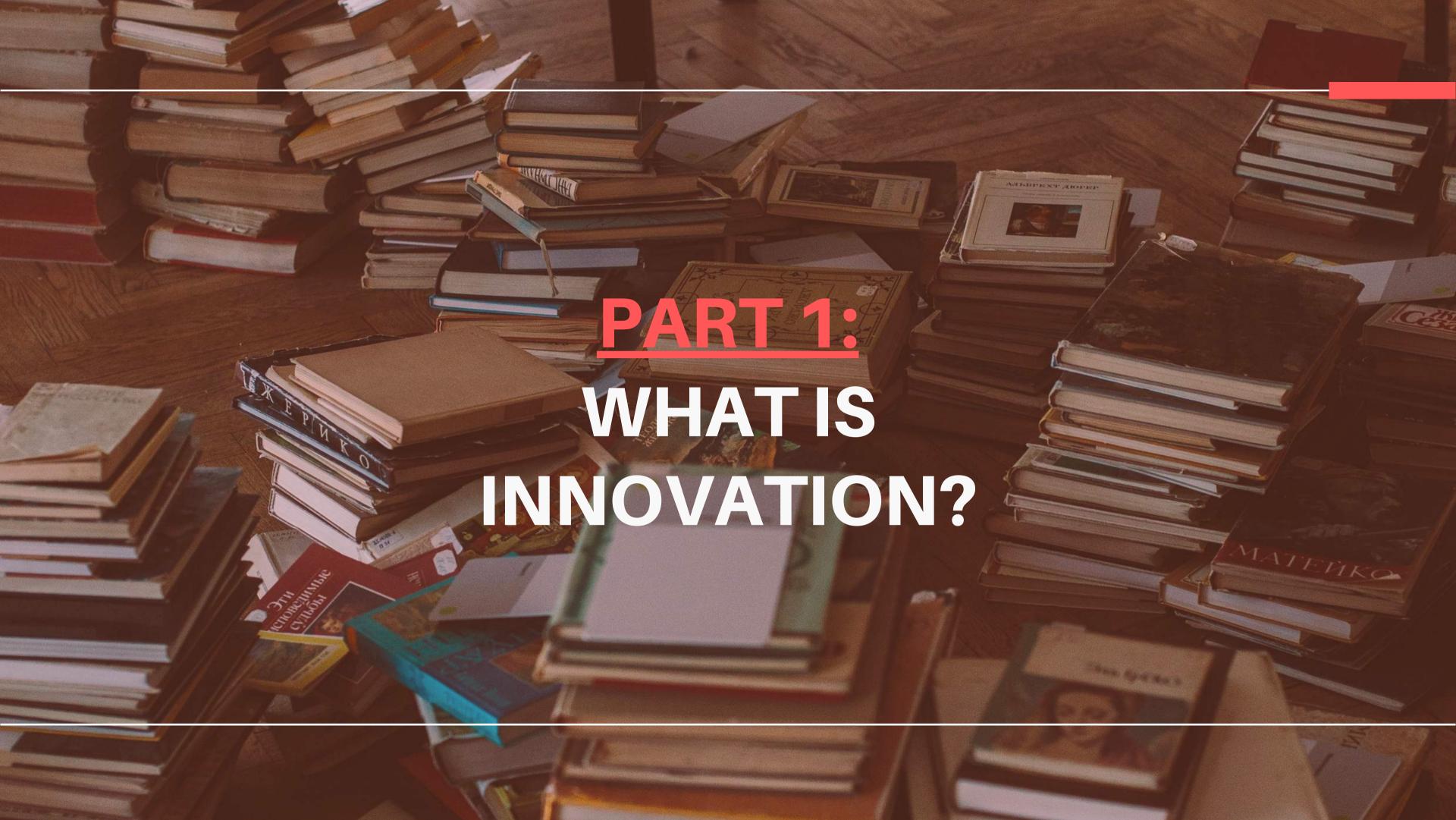
ALICIA K/BIDI - 22/02/2022 - ALICIA.KBIDI@UNIROMA1.IT



OBJECTIVES:

This seminar's objective is to give students a basic understanding of:

- how innovation is defined in the literature and what factors facilitate its emergence,
- how business models are defined, designed, and developed,
- how to evaluate the robustness of a business model,
- how to use the Business Model Canvas.

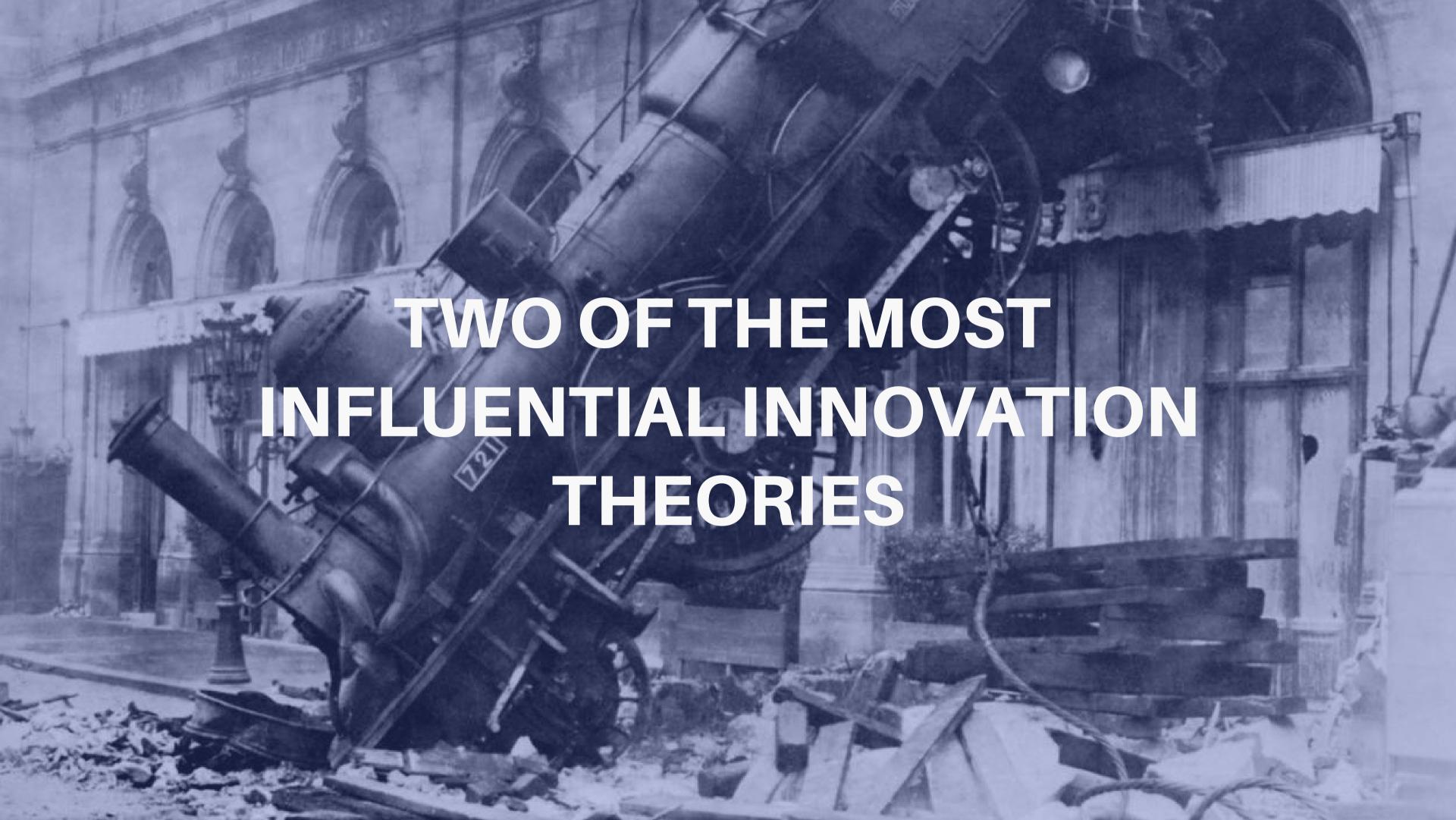


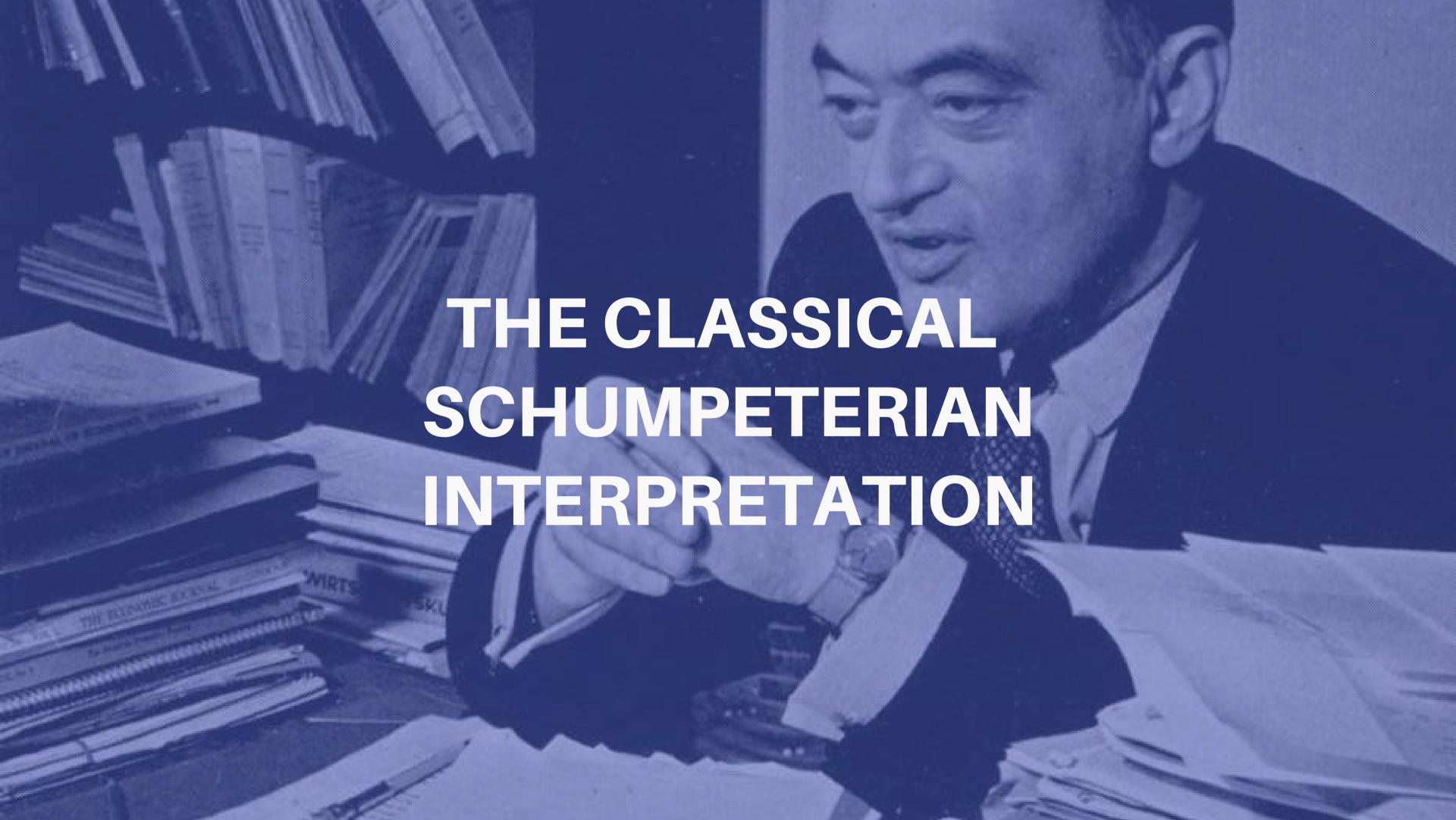
WHAT DOES THE CONCEPT OF 'INNOVATION' BRING TO MIND? Connect to: https://pingo.coactum.de/197427















"A historical and irreversible change in the method of production of things"

Schumpeter, 1934

Small (incremental) vs. Large-scale (radical)

Source: Schumpeter, Joseph A., 1934.





"Innovation and economic growth are one of the same. Countries that innovate would grow wealthier, those that did not would stagnate"

Schumpeter, 1942

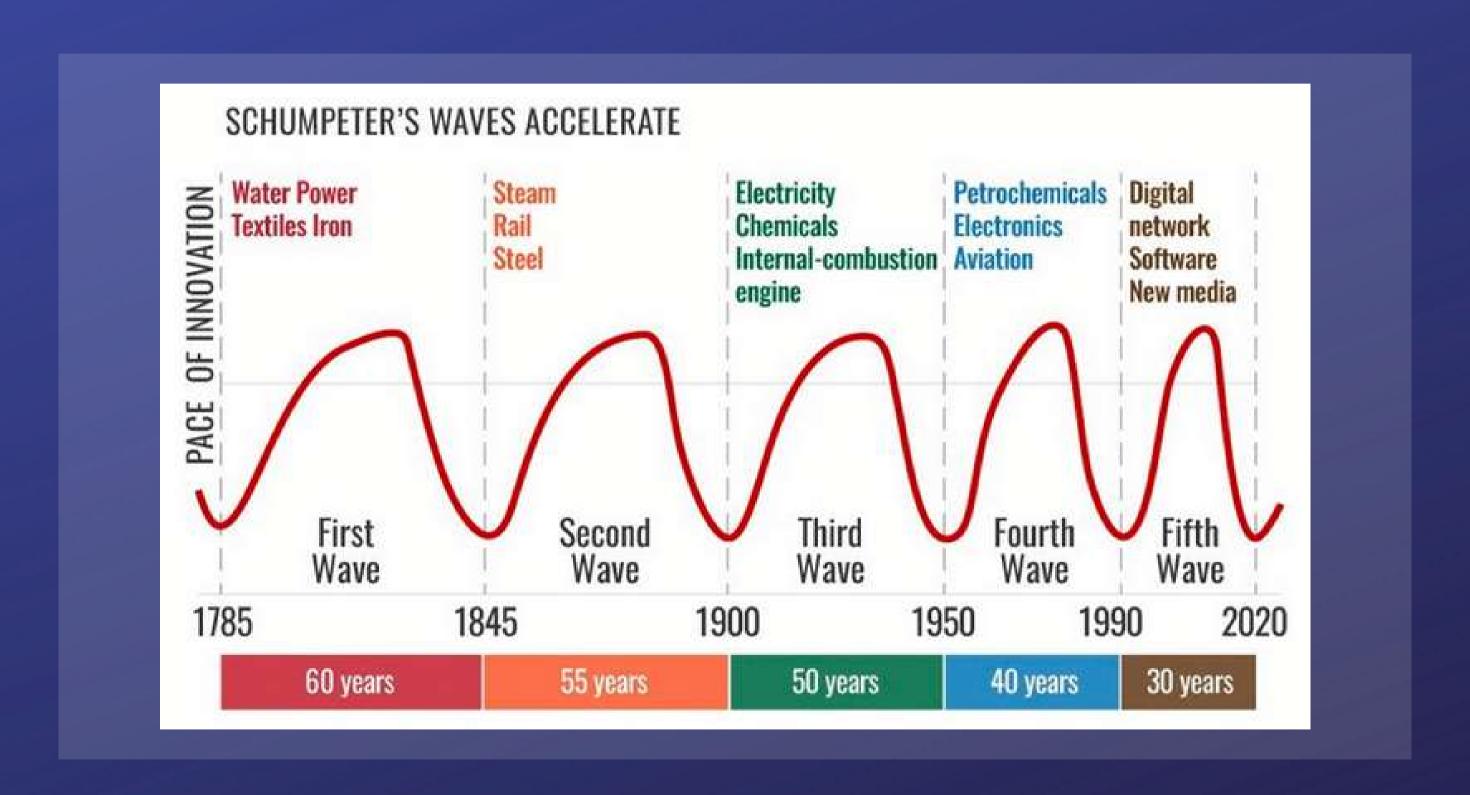




"Process of industrial mutation that incessantly revolutionizes the economic structure from within, incessantly destroying the old one, incessantly creating a new one."

Schumpeter, 1942

THE SCHUMPETERIAN CYCLE OF INNOVATION AND ENTREPRENEURSHIP



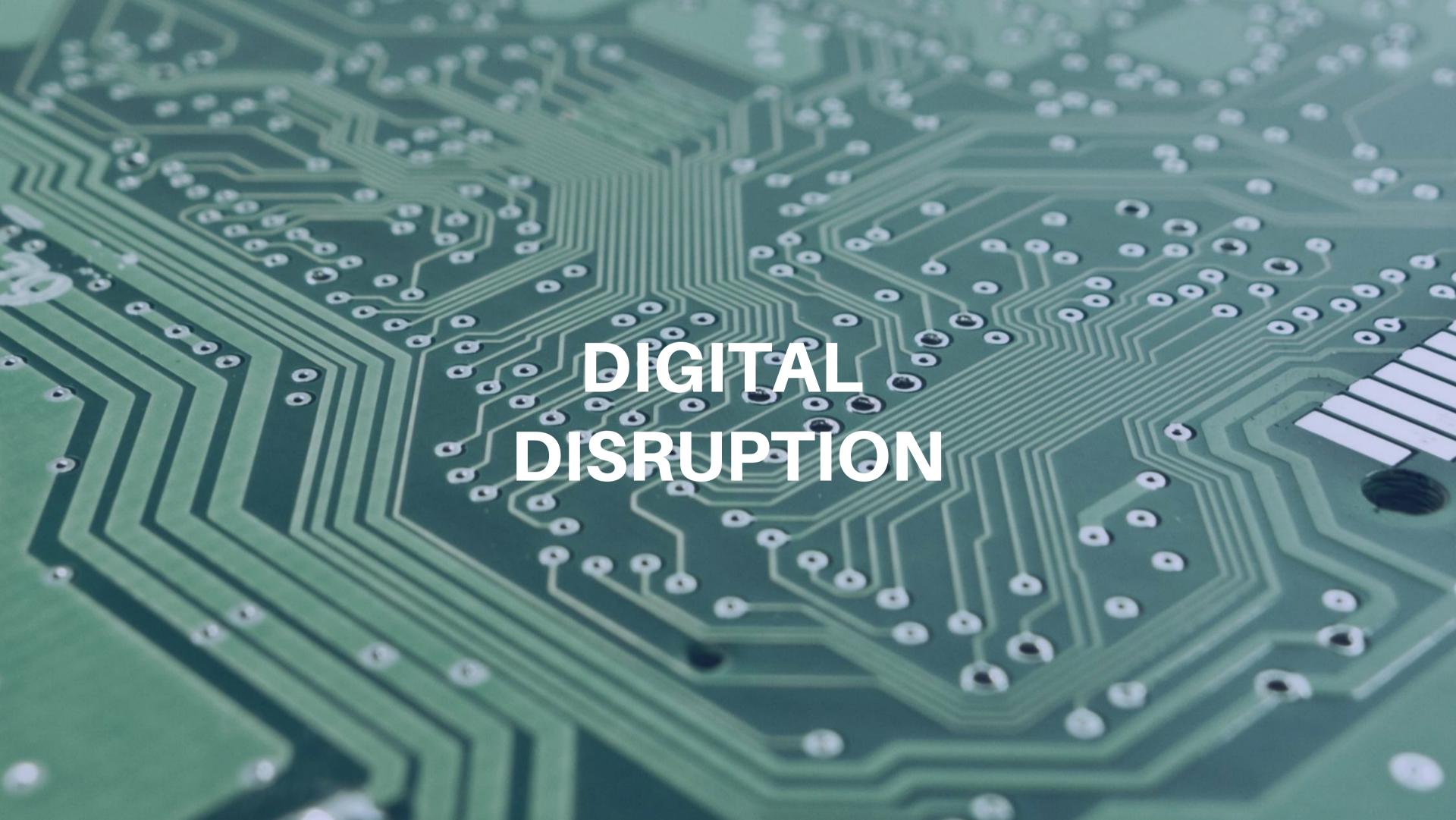




THE GALE OF CREATIVE DESTRUCTION: AN EXAMPLE

- Early adopters investment
- Transfer of value and efficiency gain
- Decrease in the cost of production, decrease in consumer prices, increase in demand
- Economic instability while the transfer of value occurs
- Economic growth and imitation

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Number of automobiles sold in the USA:
1903: 11,235
1913: 3.6 million
1923: 20 million
Number of companies in the horse
industry in the USA:
1890: 13,800
Late 1910s: 90
Jobs destroyed between 1910 and 1950:
623,000
Jobs created between 1910 and 1950:
7.5 million
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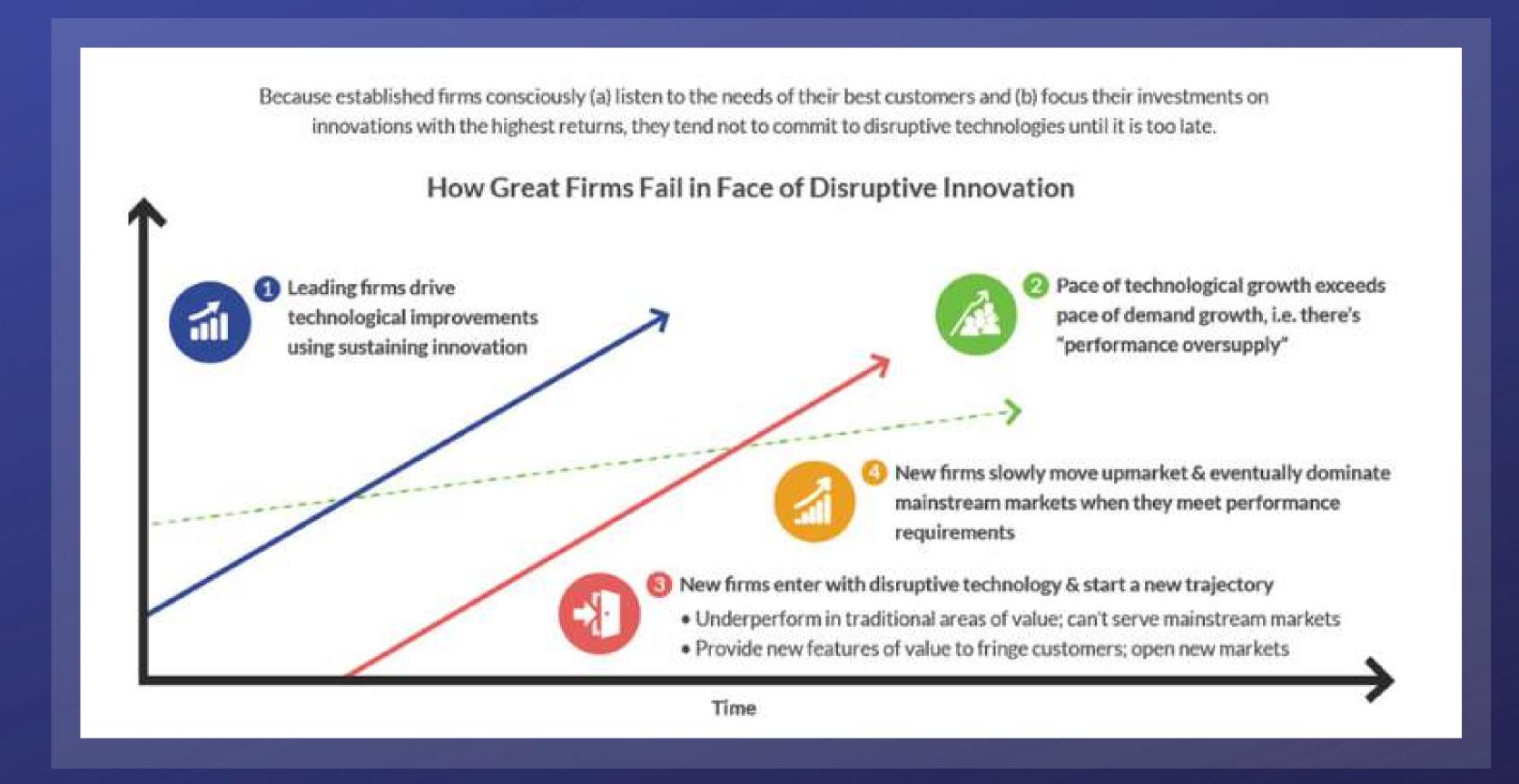




Disruptive innovation is the process in which a smaller company, usually with fewer resources, is able to challenge an established business (often called an "incumbent") by entering at the bottom of the market and continuing to move up-market.

Christensen, 1995

THE INNOVATOR'S DILEMMA

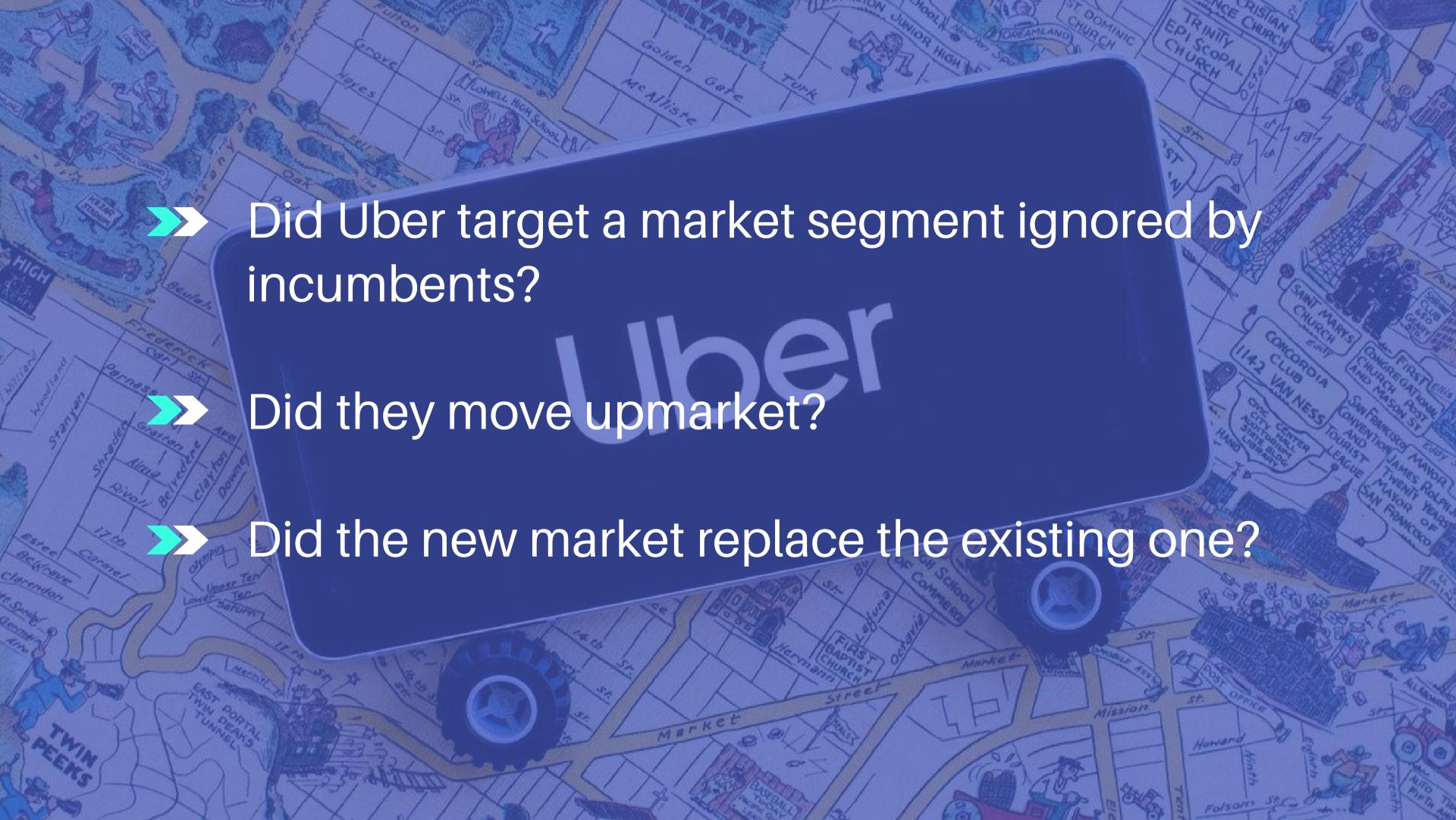




Did Netflix target a market segment ignored by incumbents?Did they move upmarket?

Did the new market replace the existing one?







***** INNOVATION IS ALWAYS LINKED TO THE NOTION OFNOVELTY

Connect to: https://pingo.coactum.de/197427



INNOVATION AND INVENTION IN THE LITERATURE

AUTHOR	INNOVATION	INVENTION
Freeman, 1982	Innovation is the introduction of change via something new	An invention is the creation of a new device or process
Senge, 1990	An idea becomes an innovation only when it can be replicated on a meaningful scale at practical costs	An idea has been 'invented' when it is proven to work in the laboratory
O'Sullivan and Dooley, 2009	Innovations are more than the creation of something novel. Innovations also include the exploitation for benefit by adding value to customers.	Inventions do not need to fulfill any useful customer needs and do not need to include the exploitation of the concept in a market





GODIN'S CLASSIFICATION

Innovation as a process of doing something new

Innovation as:

- Imitation
- Invention
- Discovery

Innovation as change in all spheres of life

Innovation as:

- Cultural change
- Social change
- Organizational change
- Political change
- Technological change

Innovation as human abilities for creative activity

Innovation as:

- Imagination
- Ingenuity
- Creativity

Innovation as commercialization of new products

Innovation as the transposition of an imitation/invention/discovery to the "business world"

Source: Godin B. (2008).



THE DRIVERS OF INNOVATION

A paper from 2014 analysed 12 years of literature on innovation published at top conferences and found the most significant drivers of innovation to be:







THE DRIVERS OF INNOVATION: PERSONAL LEVEL

PERSONALITY DRIVERS

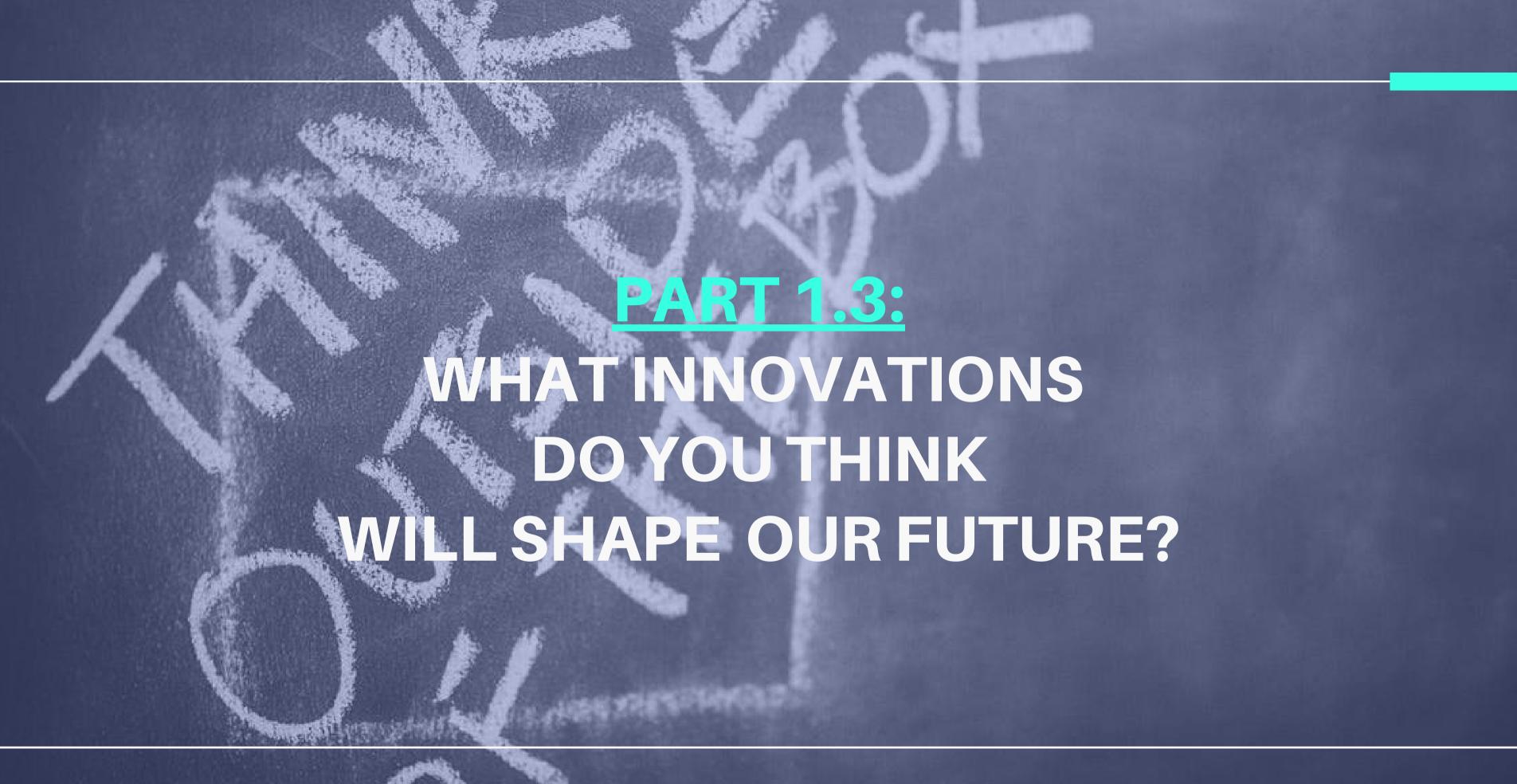
- Openness to new experience
- Autonomy
- Self-efficacy
- Internal locus of control

MOTIVATION DRIVERS

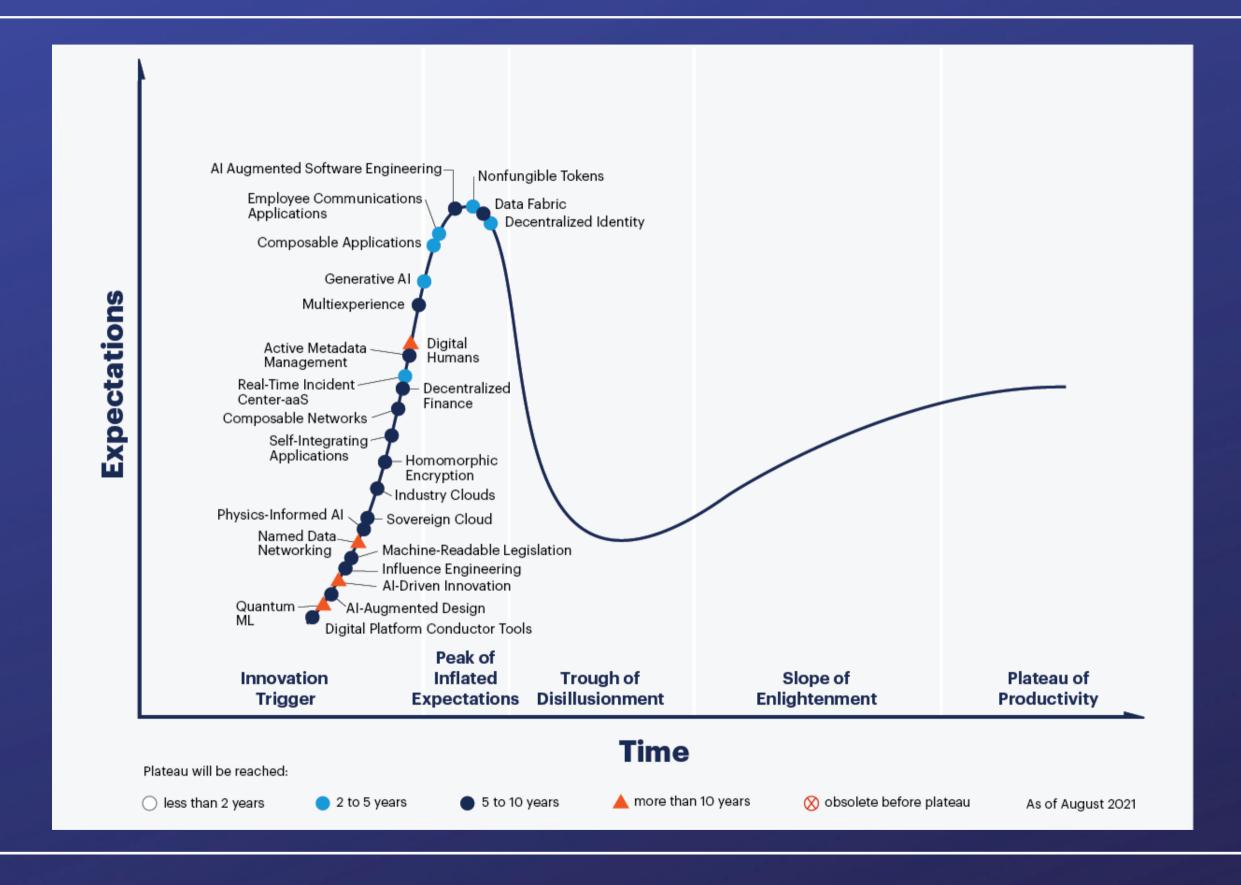
Intrinsic motivation

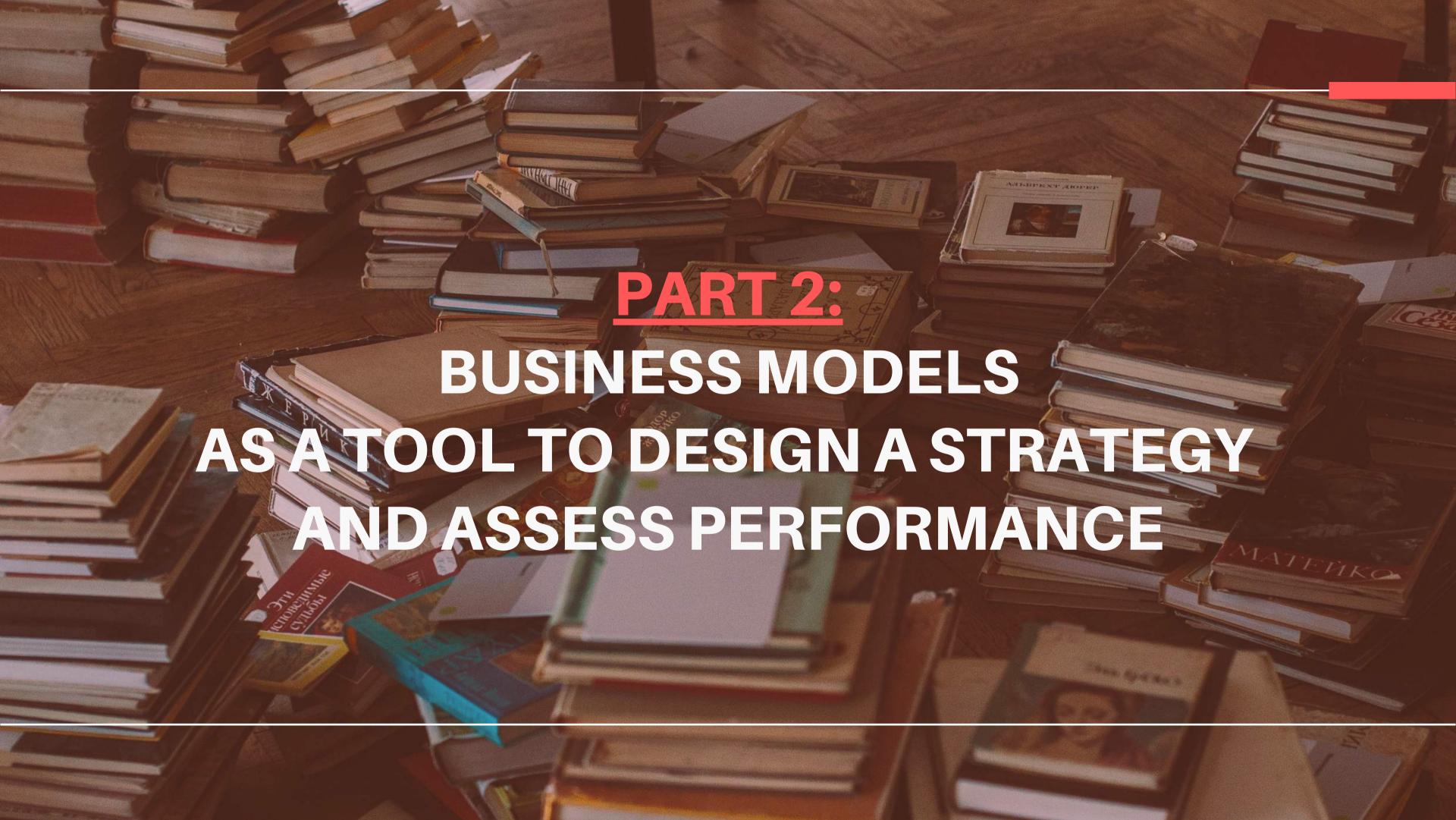
COGNITION DRIVERS

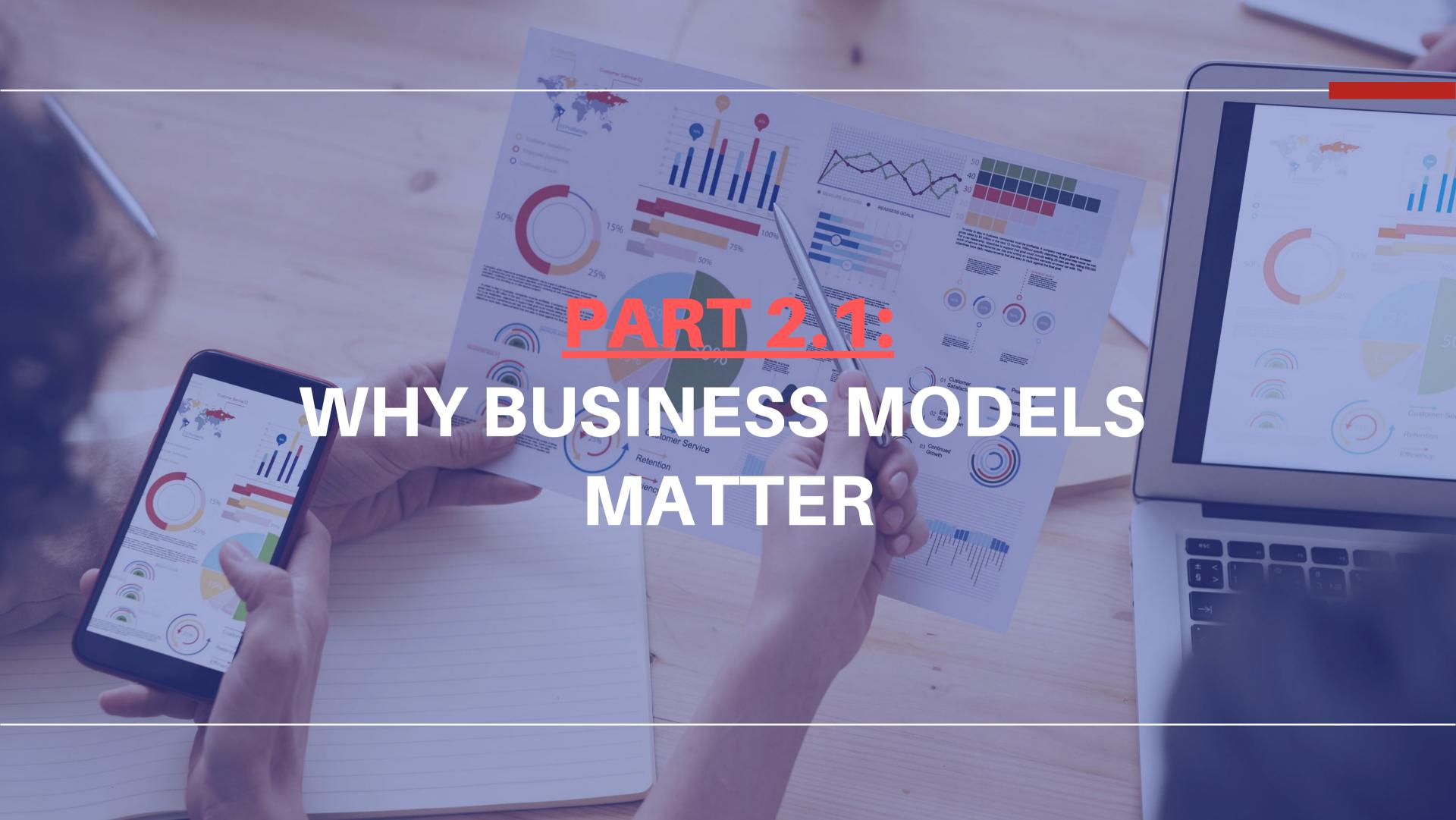
 Balance between convergent and divergent thinking



GARTNER'S HYPE CYCLE FOR EMERGING TECHNOLOGIES, 2021









"Models attempt to structure [...] knowledge so that it can be extrapolated to future applications. Models attempt to describe both facts and the relationships between them to create a dynamic representation that can identify what the past and present mean to the future.

Most models do not claim to be exact representations of a real system, but rather capture useful information and make predictions better than a less structured view of that information"

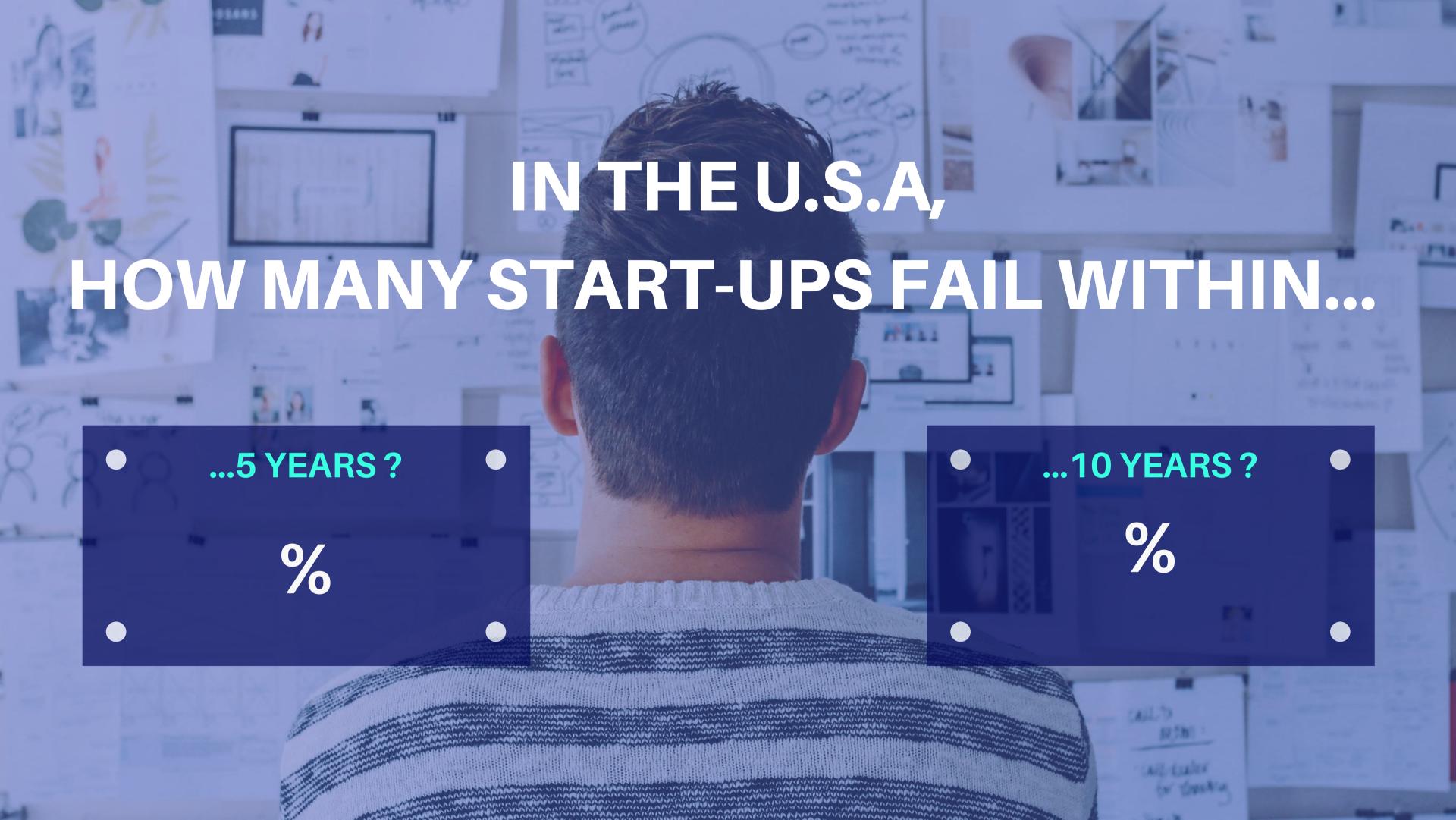
Roger Smith, 2008

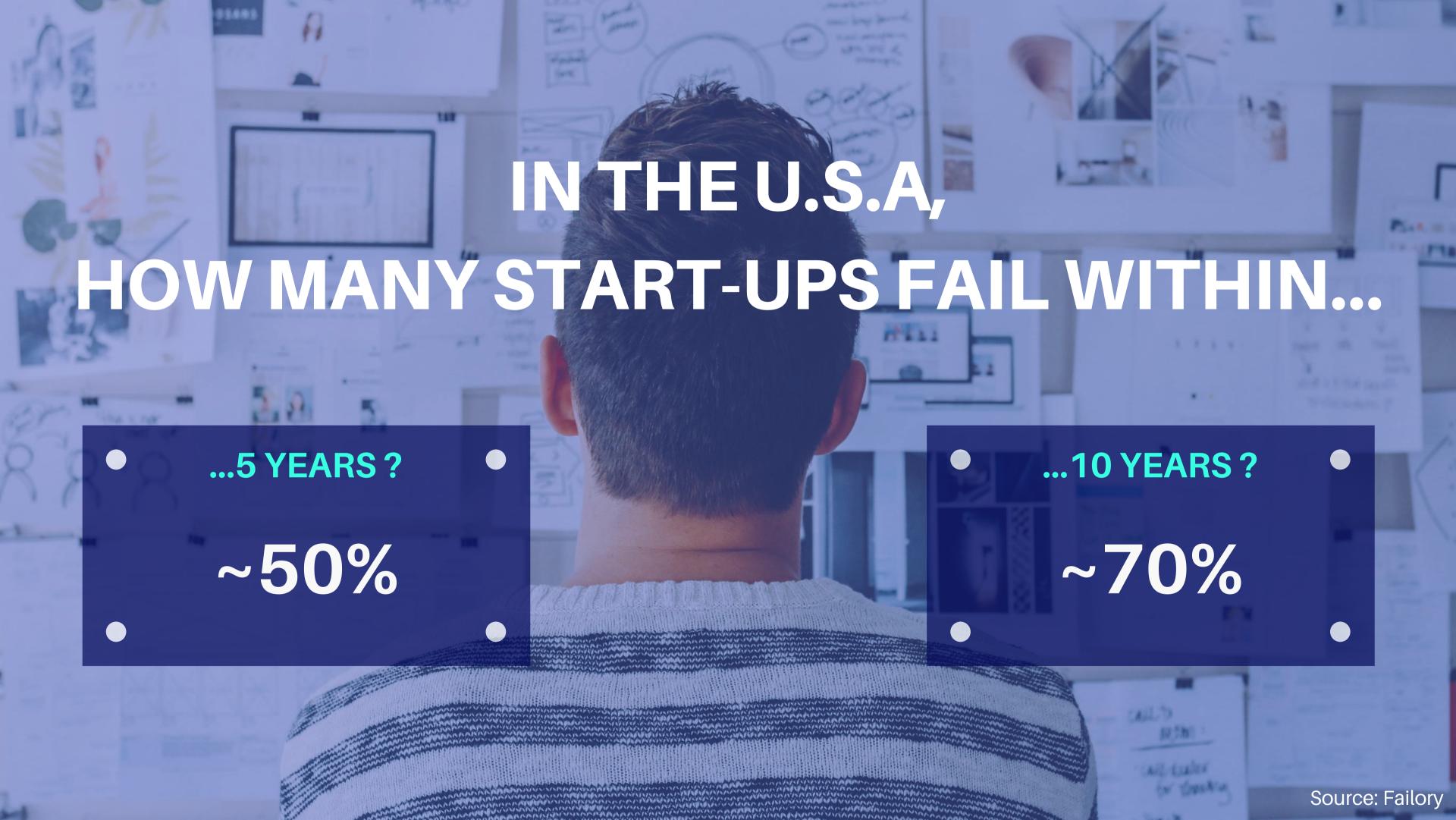




"Stories that explain how enterprises work. A good business model answers [...] age-old questions, 'Who is the customer? And what does the customer value?' It also answers the fundamental questions every manager must ask: How do we make money in this business? What is the underlying economic logic that explains how we can deliver value to customers at an appropriate cost?"

Joan Magretta, 2002











Including: product without business model, mistimed product, ignoring customers, etc.

POOR MARKETING/UX - 22%

Including: product's attributes (unfriendly product), pricing, etc.

POOR TEAM/ROLE REPARTITION - 18%

Responsibilities' overlap. Diversity: mixed team with one hacker and one hustler have 2.9x more user growth

POOR FINANCING STRATEGY - 16%

Business Models should be viable and scalable. Funds should be spent intelligently

TECHNICAL, LEGAL & OPERATIONAL PROBLEMS - 10%

Resulting from a lack of expertise or a wrong market analysis

* OF FAILED START-UPS

Color Labs - Social Media



- Fiscal irresponsibility and high burn rate
- Poor, unproven product
- Wrong market analysis

Reasons why they failed: Ran out of cash \(\sqrt{ Ignored customers \(\sqrt{} \)

Beepi - Secondhand car marketplace



- Bad execution of the founder's vision
- Bad operation of the company, high burn rate
- Wrong understanding of customer's needs

Reasons why they failed: Ran out of cash \(\strict{Failed} to deliver the promise \(\strict{Aggressive growth without business model \(\strict{Misunderstood customer's needs \(\strict{Aggressive growth without business model \(\strict{Aggressive growth growth without business model \(\strict{Aggressive growth gro

BUSINESS MODELS
ARENOT STATIC







TYPES OF BUSINESS INNOVATION

NEW **MARKET** EXISTING

RECOMBINANT

Creating new applications of existing technologies by recombining them.

Ex: Uber, Waze

INCREMENTAL

Improvement of an existing product in terms of performance, features, or costs.

Incremental = sustaining

Ex: Iphone

RADICAL

Radical change that leads to the creation of completely new industries. Rare form of innovation that allows society to take a leap forward.

Ex: The industrial revolution, the internet

DISRUPTIVE

Innovation that radically transforms an existing market or industry.

Ex: Netflix, Wikipedia

EXISTING

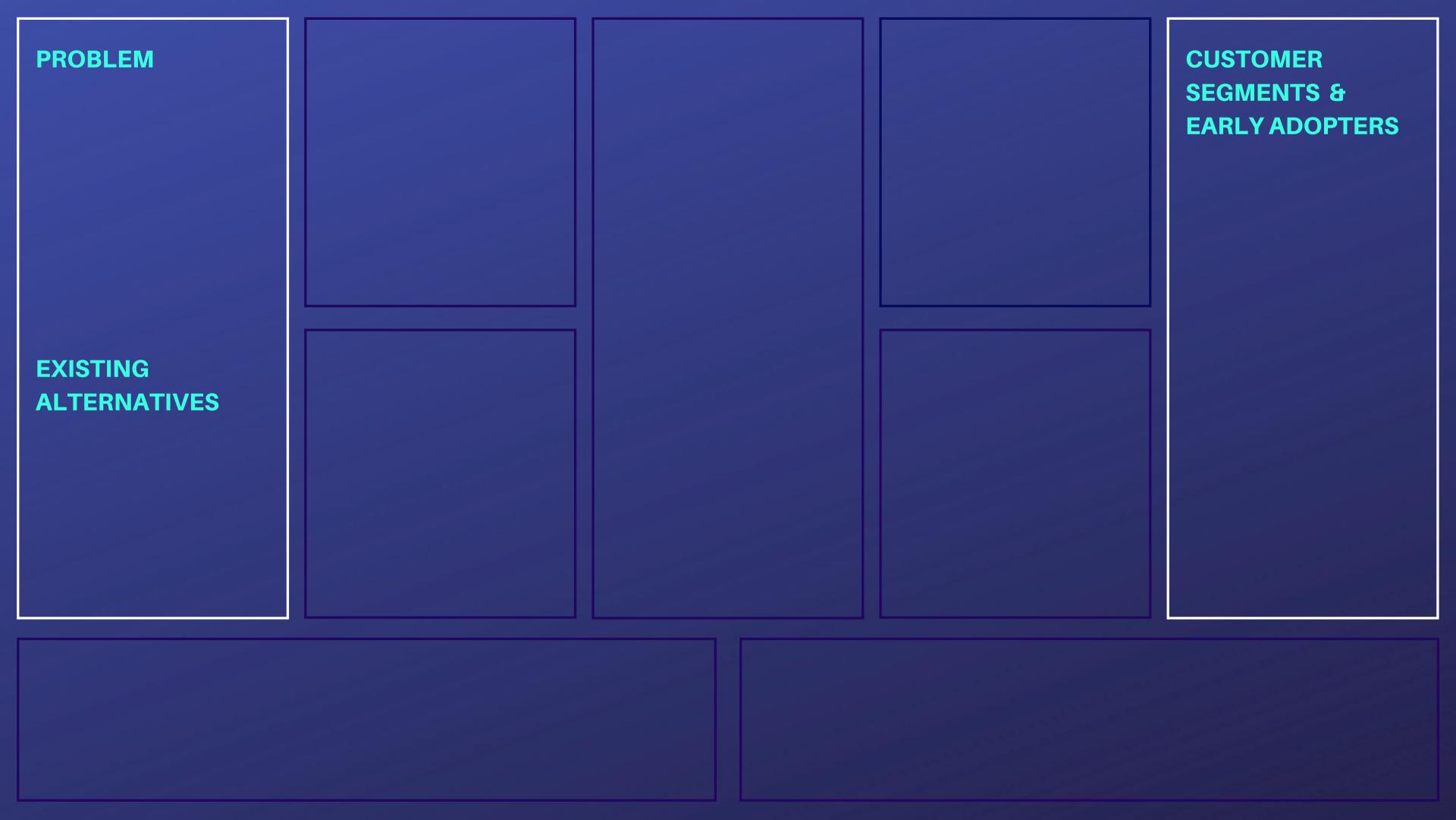
TECHNOLOGY



KEY PARTNERS	KEY ACTIVITIES	VALUE PROPOSITIO	NS	CUSTOMER RELATIONSHIPS	CUSTOMER SEGMENT
	KEYRESOURCES			CHANNELS	
COST STRUCTURE			REVENUE STREAMS		

PROBLEM	SOLUTION KEY PARTNERS	UNIQUE VALUE PROPOSITION	UNFAIR ADVANTAGE	CUSTOMER SEGMENTS & EARLY ADOPTERS
EXISTING ALTERNATIVES	KEY METRICS	HIGH LEVEL CONCEPT		
COST STRUCTURE		REVENU	ESTREAMS	







TYPES AND PURPOSE

Market research consists in collecting information to understand if there is a need for your product and help develop your business plan

Customer-related information:

- <u>Exploratory research</u>: focused on finding the problem(s), usually through open-ended interviews (qualitative research).

 Understand underlying reasons, opinions, and motivations
- <u>Specific research:</u> focused on diving in the problem(s) raised by exploratory research with smaller samples

Market-related information:

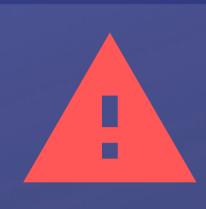
- Industry, competition, target market, products & services and operations management
- Found from public, commercial or internal sources





ASK YOURSELF

- Who are my customers, who are my users?
- Who/what influences their purchasing decision?
- What is the problem/need I want to solve for them?
- Am I adding value to my customers' life?
- Are there enough people who are facing this issue?
- Would they pay to solve this issue?
- How much would my customers be ready to pay?



DON'T

- "My users = My customers"
- "My customers are all identical"
- "If my product is good, someone will buy it"



DO

- Research
- If you do not know, ask someone who does
- Think of ways to create value and connection with your customers



UNDERSTAND CUSTOMER NEEDS

In marketing, a need is a user's desire for a product's or service's benefit.

A functional need is a basic need rooted in logic.

An emotional need appeals to the emotional connection to the product.

A need becomes <u>demand</u> when combined with an <u>ability to buy.</u>

THE IMPORTANCE OF EMOTIONAL BENEFITS



AMAZON PRIME

Fast delivery - Power and immediate gratification



NIKE

Apparel - Feeling of greatness



REDBULL

Energy drink - Feeling you can achieve the impossible

MARKETING PERSONAS



LEA RUSSI

" I play games with my friends at the weekend. I mostly do dungeons and quests"

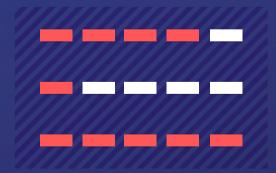
QUESTS

PVP

PVE

TIME SPENT

% OF PLAYERS



10H/week

10% of the player base



GIORGIO FONTANA

"I do not care about quests, I want to fight other players and world bosses to get stronger"

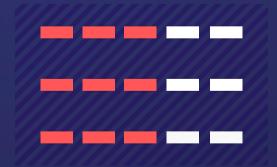


30H/week 40% of the player base



FABIO COSTA

"I play a bit every day after work, it relaxes me. I made some friends ingame and we play together"



14H/week 20% of the player base



THE FIVE TYPES OF NEEDS



STATED NEEDS



"i want a car"

"i want to buy meat"

REAL NEEDS



"i need a mean of transportation with low operating costs"

"i am planning a gathering at home"

UNSTATED NEEDS



"i want a good aftersale service"

"I am hoping to impress my guests"

DELIGHT NEEDS



"i want the car to include some gift"

"the butcher gave me the best pieces"

SECRET NEEDS



"i want the car as a status symbol"

"my event was better than the one of Patrick"



Find Your Competitive Position with a SWOT Analysis

A SWOT analysis is a strategic planning tool which helps specify the objectives of the business by identifying the internal and external factors that are favorable and unfavorable to achieving those objectives

Strengths

What advantages does your company have? What do you do better than anyone else? What are your unique selling points?

Weaknesses

What areas can you improve on?
What does your company lack?
What do your competitors do
better than you?

Opportunities

What changes in technology, policies, and social patterns can be a growth opportunity for the company?

Threats

What are the obstacles to your company's growth? Who are your competitors? What changing factors can threaten your company's position?

Analyse external factors with a PESTLE analysis

A PESTLE analysis is a framework to analyse the key factors influencing an organisation from the outside. It offers insight into the macroeconomic factors impacting an organisation (newly created or existing)

Political

Government policy, political stability, bureaucracy, corruption, foreign trade policy, funding grants & initiatives, etc.

Technological

Infrastructure, consumer access to technology, competitor technology and development, emerging technologies, automation, research and innovation, technology incentives, etc.

Legal

laws on: discrimination, antitrust, employment, consumer protection, copyright, patent, health and safety, tax policy, trade restrictions, environment etc.

Economic

Economic trends, growth rates, industry growth, seasonal factors, international exchange rates, International trade, labor costs, consumer disposable income, unemployment rates, taxation, inflation, interest rates, availability of credit, monetary policies, raw material costs, etc.

Social

Attitudes and shared beliefs: money, customer service, imports, religion, taboos, health, work, leisure, the environment; population growth and demographics, immigration/emigration, family size/structure, lifestyle trends, etc.

Environmental

Define your corporate strategy with the Porter's Five Forces analysis

Porter's Five Forces model can be applied to any industry or segment of the economy to understand the <u>level of</u> <u>competition</u> within the industry and enhance a company's longterm profitability

THREATS
OF
NEW ENTRANTS

BARGAINING
POWER
OF
SUPPLIERS



BARGAINING
POWER
OF BUYERS

THREAT OF
SUBSTITUTE
PRODUCT OR
SERVICE







IMAGINE YOUR PRODUCT

- What are the main features of my product/ service?
- Are these features indispensable or optional for my customers?
- How does my initial customer and market research help me improve the product/service?
- What partners will help me deliver value to my customers?



DON'T

- Build a product or service before doing market research
- Assume no one had the same idea
- Add too many 'nice to have' features

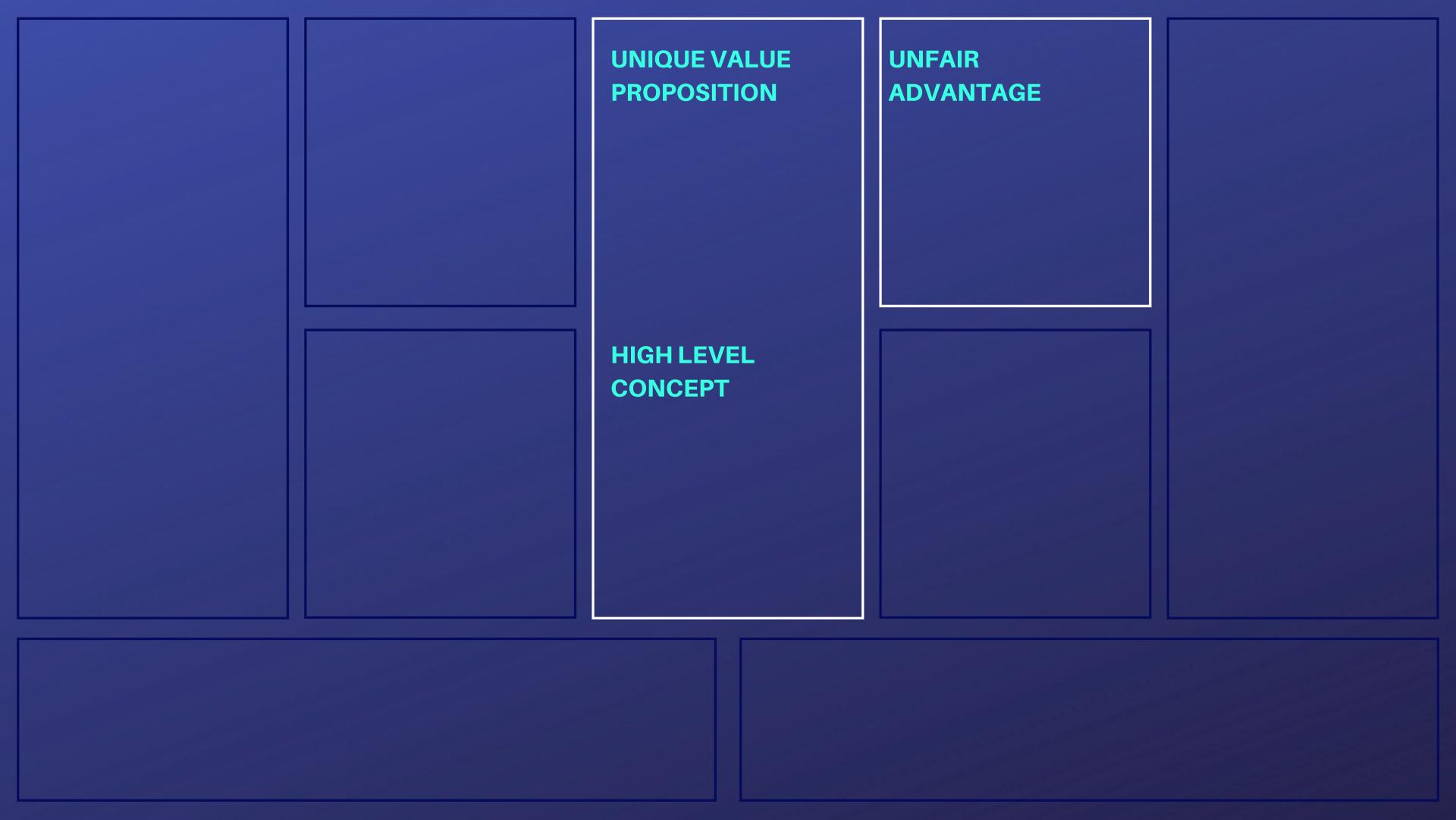


DO

- Get advice from specialised people from the industry
- Talk to your customers
- Create a culture of feedback







"WHATEVER IS WELL-CONCEIVED IS CLEARLY SAID"

Nicolas Boileau-Despreaux



DEFINE YOUR UNIQUE VALUE PROPOSITION

A value proposition refers to the value a company promises to deliver to customers should they choose to buy their product.

A value proposition is also a declaration of intent or a statement that introduces a company's brand to consumers by telling them what the company stands for, how it operates, and why it deserves their business.



UBER: THE SMARTEST WAY TO GET AROUND

Offering convenience while pointing our everything that is wrong with traditional taxis without explicitly saying it. Hassle-free, quick, affordable



IPHONE: THE EXPERIENCE IS THE PRODUCT

Offering a unique experience, a unique design, easy of use. Apple is not selling a phone with different features, it is selling a different experience



SLACK: BE MORE PRODUCTIVE AT WORK WITH LESS EFFORT

Offering a productivity app that can fit in any company's existing communication workflow. Promise of simplicity, finding everything in one place, anywhere, anytime, from any device. Value proposition backed by NASA Jet propulsion lab





Analogy allowing anyone who does not know your company to immediately understand what you do



AMAZON

Earth's biggest book store



AIRBNB

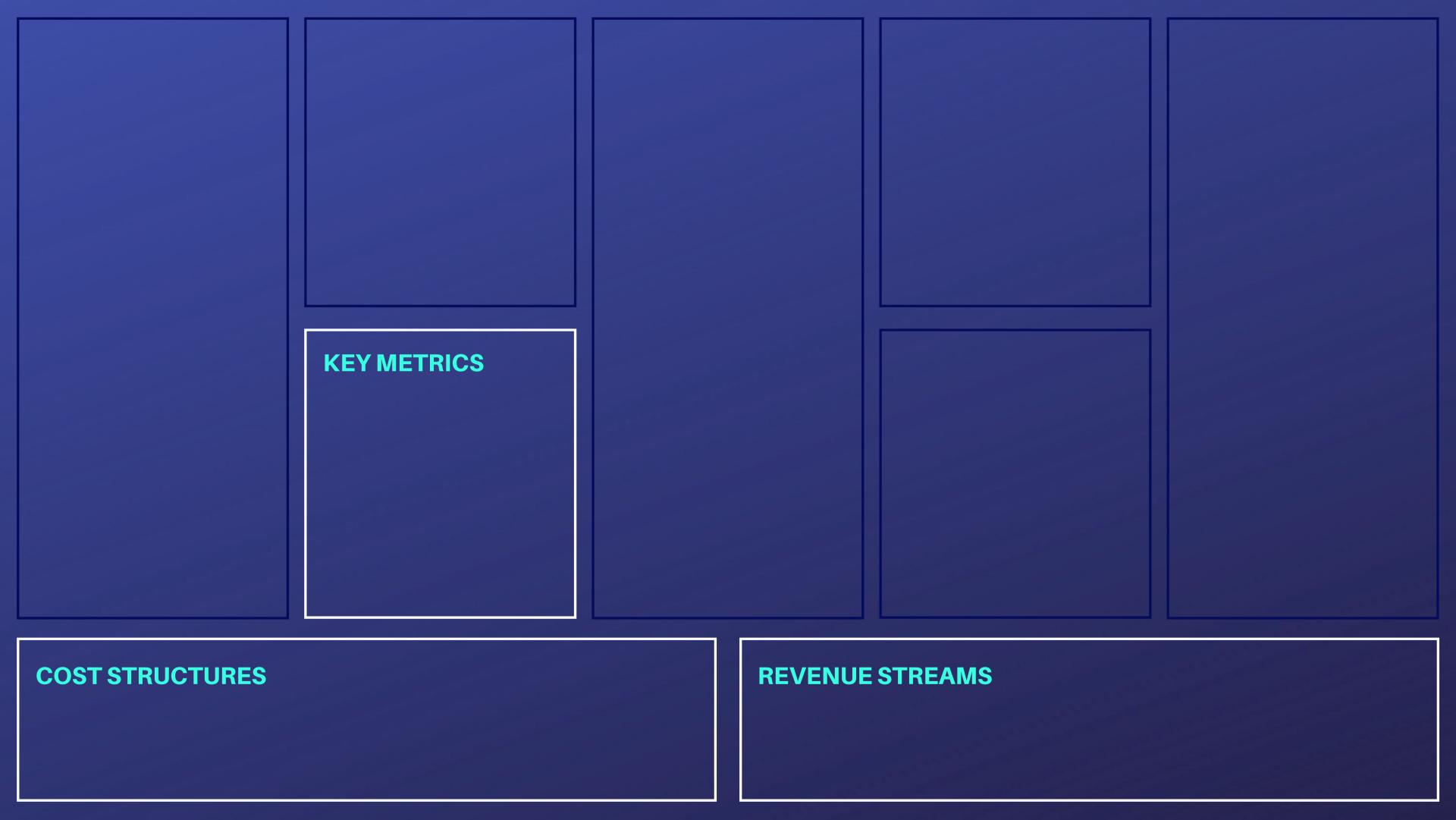
Everyone can become a host



UBER

Taxis, but cheaper, easier and safer





* COSTS & REVENUES

Costs and revenues are business specific.

One model can work for a company and be disastrous for another.

<u>Examples of costs:</u> workforce, licensing, raw material, premises, overheads (electricity...), rental of material, taxes, duties etc.

Examples of revenue models: subscription based, adbased, affiliate-based, transactional, freemium. etc.



MEASURING SUCCESS

Key Performance Indicators need to be: Simple, Actionable, Relevant and Measurable.

Economic/Financial indicators: estimated breakeven point, sales, net income, net income ratio (profit/income), etc.

Marketing/Sales indicators: average customer reviews, customers referral, social media reputation, net promoter score, nb of contracts signed, etc.

Organisational/Operational indicators: employees' satisfaction, time to market, order fulfillment time etc.

