

School on transferable skills: managing, entrepreneurial and IPR

What is entrepreneurship?

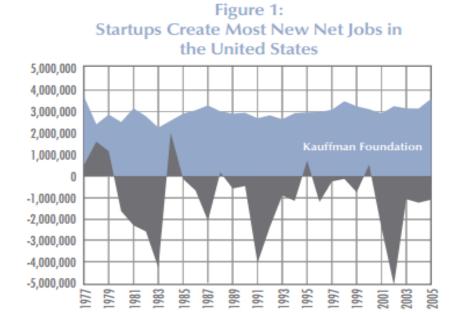
Claudio Cruz Cázares

2nd May 2025

Why is entrepreneurship important? Outcomes of entrepreneurship



- Economic impact
- Renewal in existing organizations
- Job creation
- Personal satisfaction



Net Job Change – Startups
 Net Job Change – Existing Firms

Why is entrepreneurship important? Why is now more important?



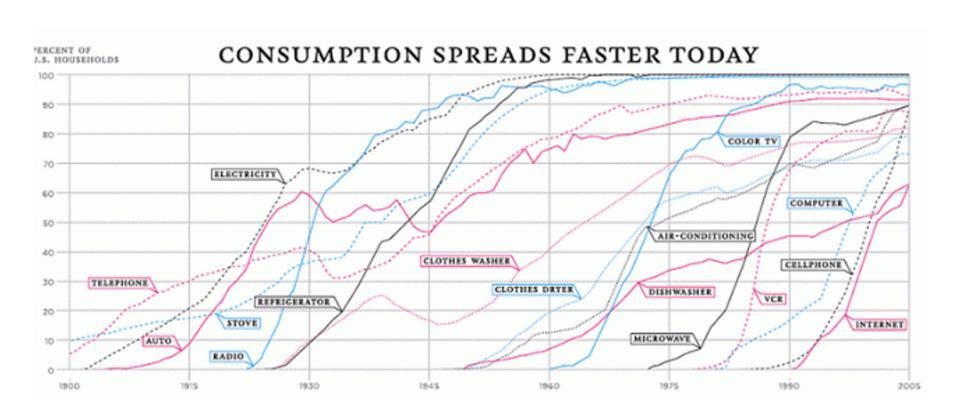
Unprecedented speed of change

- Technological
 - Rapid advancement
 - Global deregulation and standardization
 - Huge efficiency gains
- Social
 - New markets
 - New customer needs
- Economical
 - Small is beautiful and effective
 - Existing resource bases becoming obsolete

Why is entrepreneurship important? Why is now more important?



Unprecedented speed of change



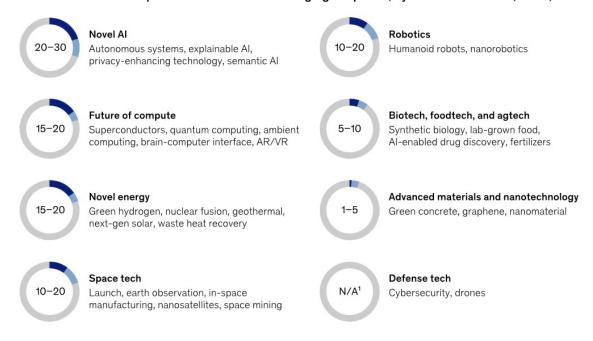
Why is entrepreneurship important? Why is now more important?



Unprecedented speed of change

Deep tech's recent breakthroughs span eight thematic investment areas.

Indicative share of European VC investment in emerging deep tech, by investment theme, 2023, %



Indicative share of investment already included in other themes. Source: Dealroom.co; press search

McKinsey & Company

Why is entrepreneurship important? **Under which conditions?**



- Entrepreneurship is unlimited
 - Age
 - Sex
 - Background
 - Prior financial condition
 - Industry
 - Country
- However, entrepreneurship is more likely...
 - Changing environments
 - Self-perception
 - Social acceptance
 - Strong motivation...



What is an entrepreneur? The entrepreneurial ecosystem





Source: https://www.euronews.com/business

What is an entrepreneur? The entrepreneurial ecosystem



STARTUP HEATMAP EUROPE

FIND ADD STARTUP CALL

SERVICES ~

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OUR REPORTS

4. LISBON

Lisbon has positioned itself as one of the rising startup cities in Europe. The capital of Portugal has a Heatmap Trust Score of 96%. However, with annual investments of only 150 million Euro (3-year average), the city's popularity has yet to be matched by capital flows.

The main buzz in town is Infrastructure, AI & Data, and Female Entrepreneurship. Startup founders appreciate the helpful ecosystem and the high value for money in the city. Lisbon is home of the Web Summit, one of the largest global tech conferences, and top accelerators Beta-i and BGI – Building Global Innovators.

Startups to look out for include Unbabel, Codacy, and Bizay.



Explore Lisbon's profile on the Startup Heatmap



3. BARCELONA

Founders like Barcelona's value for money, helpful ecosystem, and access to talent. With a Trust Score of 98%, the Catalan city ranks 3rd among the best startup cities in Europe. It has a strong international appeal, with nearly two thirds of founders coming from abroad.

Annual investments amount to 0.7 billion Euro (3-year average), with 2018 seeing the highest number at 0.9 billion Euro.

Popular Barcelona-based startup accelerators are Conector, Wayra, and SeedRocket. Barcelona is home to startups with most inspiring success stories, such as Letgo, Glovo, and Typeform.

How can we define entrepreneurship? **A simple definition**



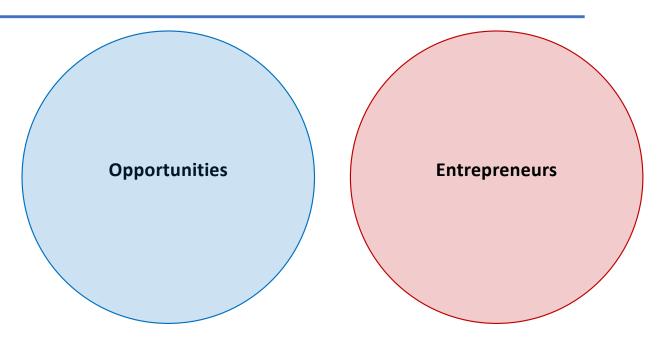
The pursuit of **opportunity** beyond the resources **the entrepreneur** currently controls (Harvard Business School)

- The pursuit: not something fixed, but rather a process
 - What is the pursuit of opportunity? When does it start? When does it end?

How can we define entrepreneurship? The opportunity and the entrepreneur



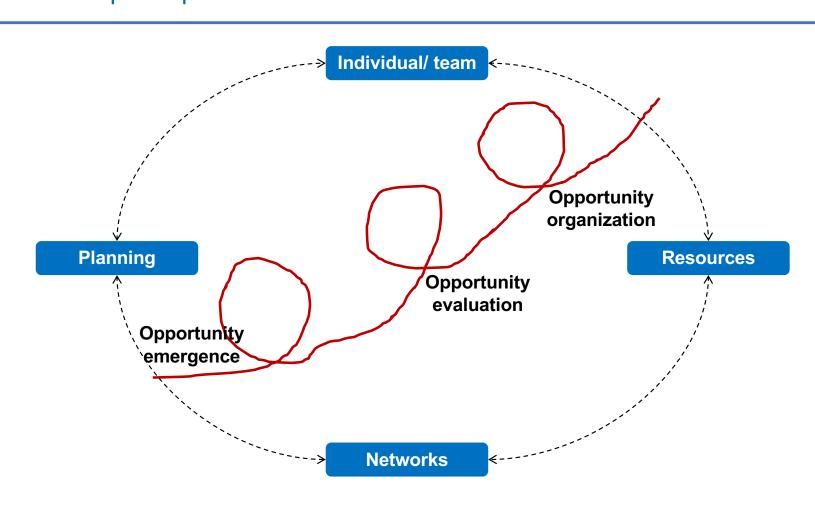
- Two key elements that interact: the opportunity and the entrepreneur
 - Which one is more important?



- Entrepreneurship happens when individuals and opportunities meet, thus
 - Many entrepreneurs without opportunities
 - And more importantly, many opportunities without entrepreneur

How can we define entrepreneurship? **Entrepreneurship as a process**





What is an entrepreneur? Elements to take into account



- Uncertainty of income
- Risk of losing entire invested capital
- Lower quality of life until business gets established
- High levels of stress
- Complete responsibility

Combined with high failure rates

Idea vs. Business Opportunity Technology as a source of ideas



New technology by itself does not lead to opportunities

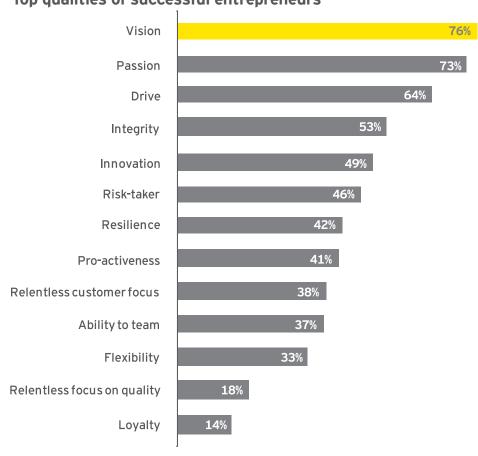
Example of the Bar code

- First Patent for a similar product (US Patent #2,612,994) by Joseph Woodland and Bernard Silver in October 1952
- First use in 1966.
- In 1974, first scanner (large scale use) installed in a supermarket in Troy (Ohio, USA).

What is an entrepreneur? Top qualities of an entrepreneur



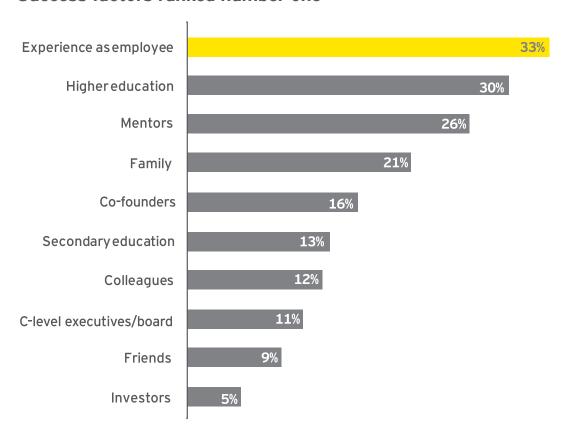
Top qualities of successful entrepreneurs



What is an entrepreneur? The entrepreneur's DNA



Success factors ranked number one

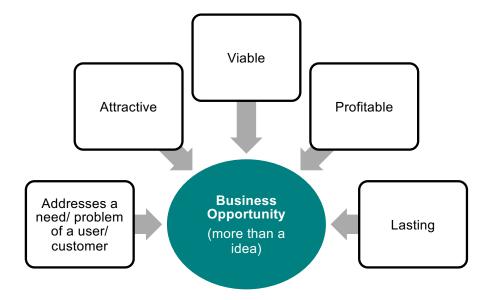


Idea vs. Business Opportunity What is a business opportunity?



It is an attractive, lasting and timely idea of a product or service that add value to the buyer or the user.

- Attractive to all stakeholders (entrepreneur, investors, customers, etc...).
- Timely Right timing...not before the window...not after.
- Lasting sustainable long enough so that stakeholders can benefit from it.





....identify / develop business opportunities / innovations ...

Which is the path to entrepreneurship? Why is creativity important?



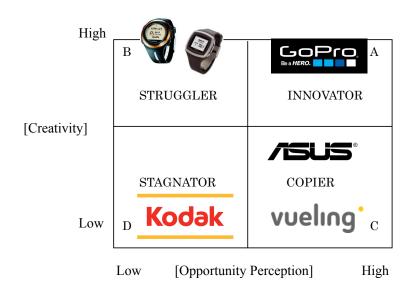
Burns's matrix

Quadrant A: A winning combination of creativity and opportunity perception leading to an entrepreneurial action.

Quadrant B: The struggler fails to see the commercial application of the idea through lack of entrepreneurial orientation. Results in a waste of ideas.

Quadrant C: The lack of creativity potential is made for by copying and possibly improving on existing ideas.

Quadrant D: Stagnators rarely survive in a competitive business environment.





Which is the path to entrepreneurship? Innovation impact





Ohoo!

Which is the path to entrepreneurship? **Innovation impact**





Stupa ice

Which is the path to entrepreneurship? Innovation impact





Which is the path to entrepreneurship? Innovation impact



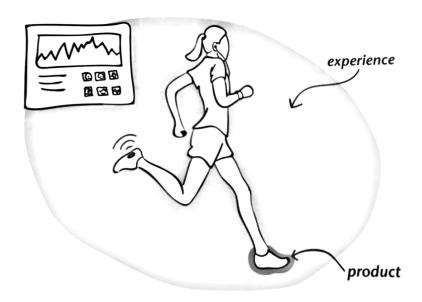


Science 'E-tattoo' could track mental workload for people in high-stake jobs, study says

Core Principles of Successful Innovation P1. Build innovations around experiences



Experience can be defined as the art of living through event. UX (user experience) is a success factor in any type of offering. Companies has to focus in the experiences that they provide as a starting point of innovation.



Core Principles of Successful Innovation P2. Think of innovations as Systems



An offering naturally belongs to a larger system of offerings, organizations and markets.

For example, a healthcare-related product has to be conceived in relation to all components of the system: patient, doctor, hospital, home, pharmacy, medical device manufacturer, medical supplier, insurance company, pharmaceutical company, government and so forth.

Understanding the flows that happen between components helps to understand the system-level implications for design the product but also reveals opportunities for innovation.

With this approach, simultaneous innovations in the system are possible.



.....now build your business model...

What is a business model? Definition 1



"assumptions about what a company gets paid for" Peter Drucker (1994)

- Markets
- Clients
- Competitors

- Technology
- Company's strengths & weakness



"A business model describes the rationale of how an organization creates, delivers, and captures value"

Osterwalder & Pigneur (2010)

Core Principles of Successful Innovation P5. Adopt a disciplined innovation process



What is a business model?

A business model has two parts:

all the activities associated with making something: designing it, purchasing raw materials, manufacturing all the activities associated with selling something: finding and reaching customers, transacting a sale, distributing the product, or delivering the service

Joan Magretta (2002)

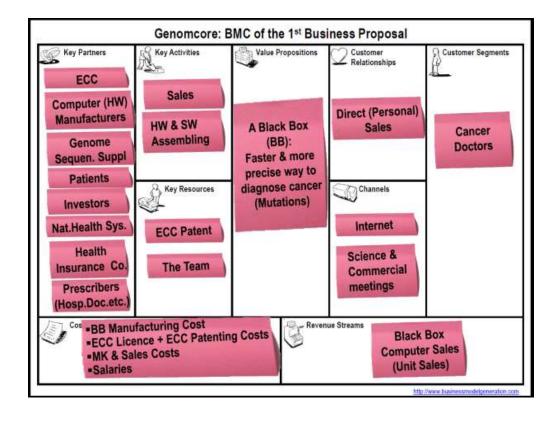
Introduction **Business Model Canvas**

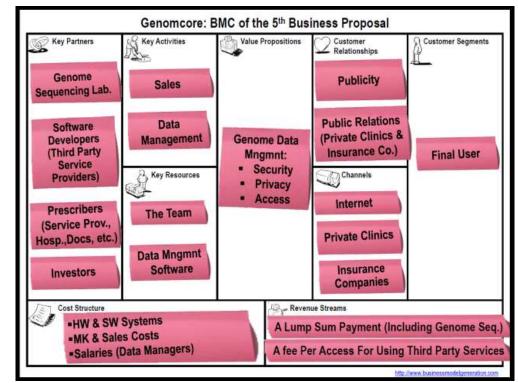


Business Model Canvas Author /				5B
			Date	Date / Version /
Key partners	Key activities	Value propositions	Customer relationships	Customer segments
	Key resources		Channels	
	11	11		
st structure		Revent	ue streams	



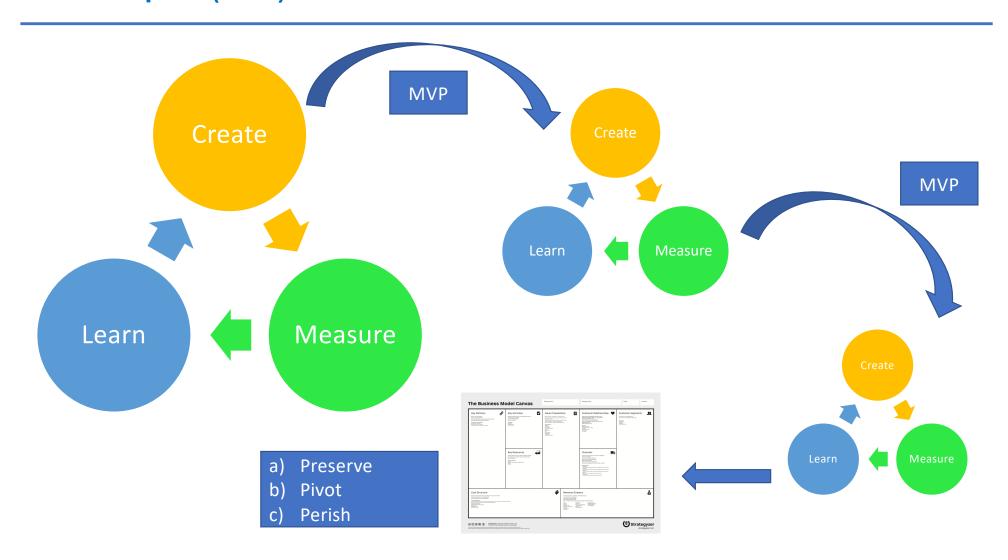
Market Pull Research and Development Manufacturing User | Odel Innovation - User | U





Introduction The Lean path (Ries)





Road to market License out technology



Coolinside

surgical sealing dissector



Introduction The Lean approach



Lean can be defined as a customer and value-centric approach to creating a flow of activities that continuously generate customer value by eliminating non-value-adding activities or "waste"

(Feld, 2000; Liker, 1997; Womack & Jones, 1997).

Introduction The Lean principles



- 1. Create value for the customer. Value is created when internal waste decreases and so costs are reduced, and is increased by offering new services and/or functions valued by the customer.
- 2. Identify the value stream. The concept of value stream must not hide behind a wall of obscurity. The costs of every firm must be transparent to all supply chain partners.
- 3. Create flow. The principle of creating flow has the aim of avoiding any stoppage in the value stream by preventing the main causes of such stoppages (i.e. changes in production, breakdowns, incorrect batches in terms of quantity or timing, lack of necessary information and re-entrant loops).

Introduction The Lean principles



- 4. Produce only what is pulled by the customer. This principle implies high responsiveness while producing the highest quality products in an efficient and valuable way. The production pull is extended uphill to the suppliers and the whole upstream supply chain.
- 5. Pursue perfection by continuously identifying and eliminating waste.

Road to market **Spin-off**













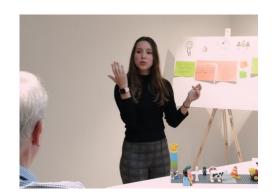
Looking for Support







Personalized advice



Incubation space



Training and activities