



The wave of alternative proteins: changes, challenges and opportunities for the agri-food sector





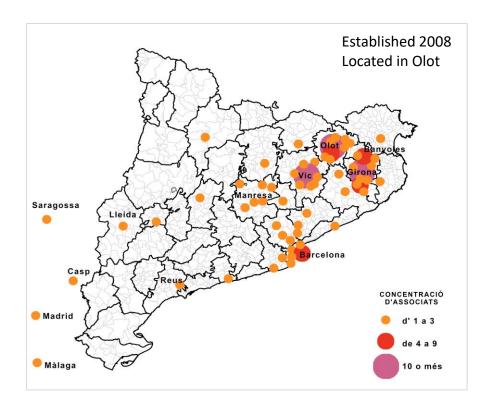


Agenda

- INNOVACC
- Innovation applied to the alternative protein
- Challenges

What is INNOVACC?

INNOVACC is the Catalan cluster for the meat and alternative protein. Our objective is to strengthen the competitiveness of the sector through innovation and cooperation.















126 members

111 companies |

15 institutions

7.073 M€ revenue

21.639 employees

34 Active projects (27 as coordinator), 204 projects since 2008. (Most with grants)







Who are our members?

INNOVACC connects the sector's value chain through its members. Facilitating the cooperation among the different players of this extensive chain.



INNOVACC and the alternative protein

In the mid 2021 following our members INNOVACC started a strategic shift. We enlarged the scope of the cluster from pork to meat and alternative protein.

Name Change

CARNI PORCÍ



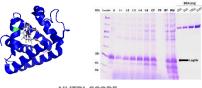


CARN I PROTEÏNA ALTERNATIVA



Projects













Activities



















Fòrum Carni

In previous editions of this congress we went deep in the plant-based and cultivated meat. In this edition we will focus in industry wide topics and dive into the world of fermentation.

Previous Editions

2016

Meat sector

2017

Meat sector

2018

Meat sector
Carn sense carn

2019















2022















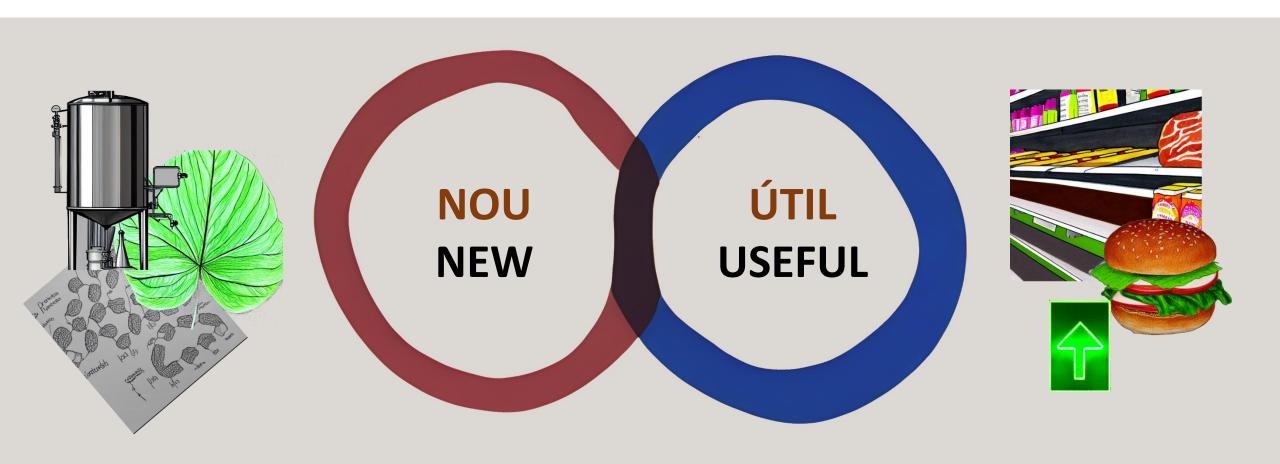






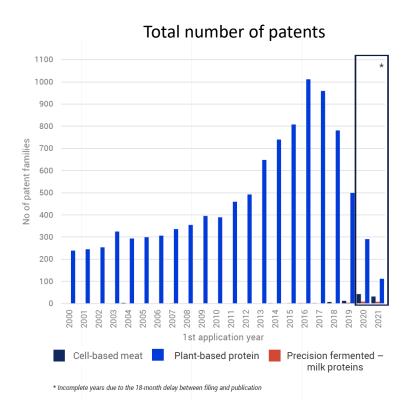
What is innovation?

In broad terms we define innovation as something new and useful.

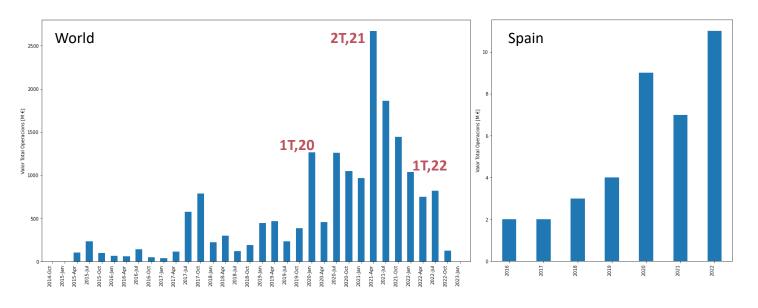


Patents and transactions

Patents and financial transactions are a good leading indicator for the future of a sector. The market puts resources in innovations with the expectation that they'll reach the consumer.



Absolute value of transactions in the alternative protein market

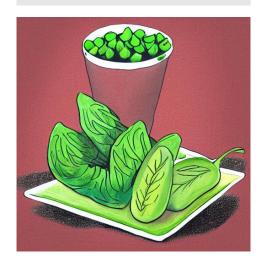


Font: Questel, Dealroom.co (dades recollides, anàlisi intern)

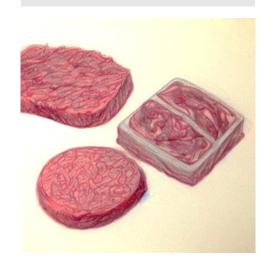
What does "new" mean?

We understand as "new" those developments that are not existent in the market. In the field of alternative protein these developments are increasingly technological.

Plant-Based



Cultivated meat



Insects



Fermentation



What does useful mean?

In the alternative protein usefulness is key. The innovations will be useful as long as they help us reach the goal of sustainably feeding a growing population with healthy food.

Useful

Hygienic Factors

Market / Distribution

Consumer

Challenges

- Food safety
- Regulations (Novel Foods) / Certifications
- Allergenic reactions
- Scale and availability
- Market size : Segment x Velocity
- Shelf placement / Naming / Category
- Category Perception
- · Shelf life and packaging
- Flavor, texture and color
- Cost
- Short labels / Nutritional quality
- Ease of use and tradition
- Origen / Local / Traceability









Have we reached the peak?

The last few months have been filled with negative news regarding the alternative protein market. Specially among American public companies. But hey, what sector hasn't!



Decline?

Font: Varis diaris, recopilat Octubre 2022

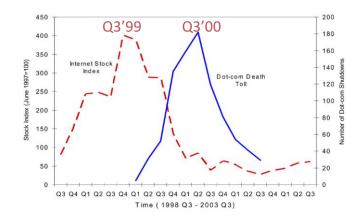




Boom and bust of the .Com sector

Highly technological sectors are rarely peaceful. Not unlike what we see in the alternative protein market .com suffered major market turbulences in the 2000s.

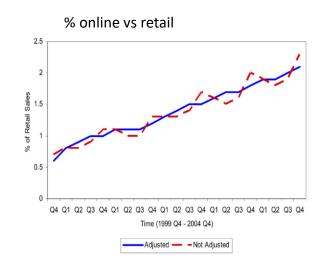
Boom and bust of the .coms

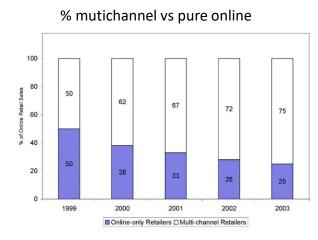


What was behind it?

- Bubble?
- Predictable margins?
- Market size?

An alternative theory



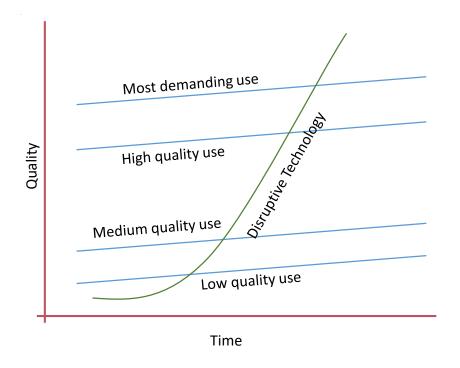


- As the market grows technological complexity increases and established companies might gain advantages.
- During this cycles a lot of new technologies are created. And these will serve as the base for the next cycle.

Disruptive innovation

The emergence of technologies that are seen as lower quality presents a dilemma to established companies. Will this be the technology that will change our industry?

Emergence of a disruptive technology



Does this apply to us?

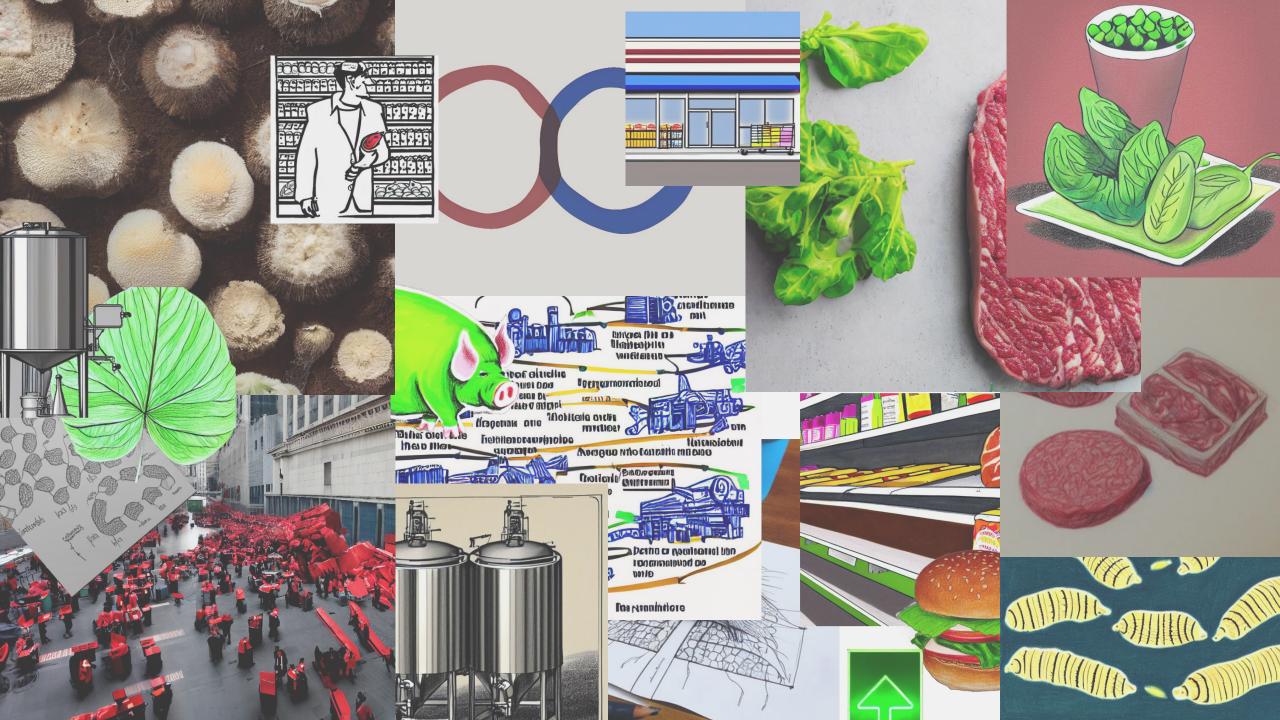
Initial phase:

- Identify experts
- Wait!
- Experiment

What next?

- From food to technology
- Still early, but a lot of research already happened
- Consumer is getting familiar with the idea
- Opportunity for existing companies

Font: The Innovator's Dilemma. Clayton M. Christensen





Thank you!

Esteve Espuña

