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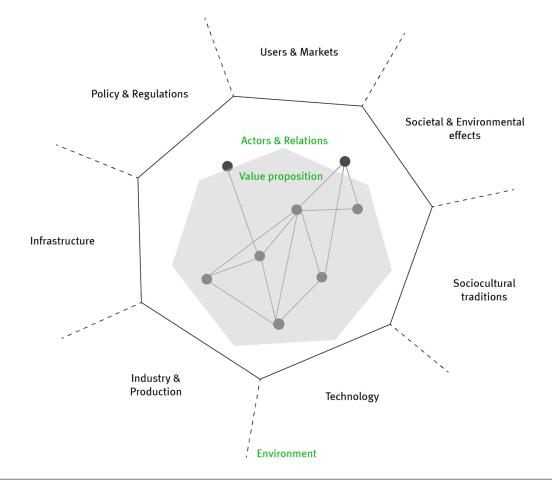


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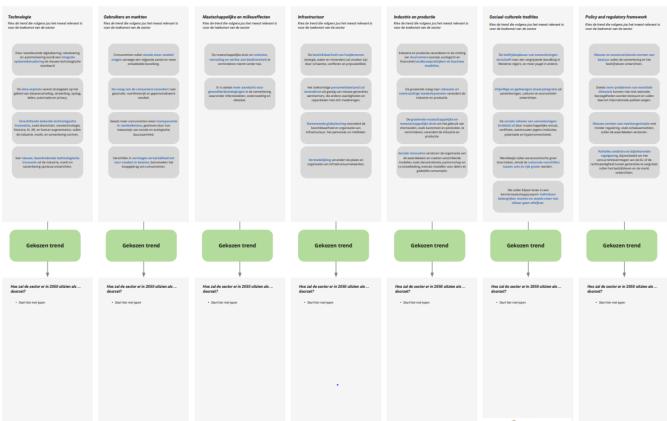






Toekomst trends in de sector: de impact van maatschappelijke ontwikkelingen op de sector

Een aanpak om beter te snappen hoe maatschappelijke ontwikkelingen de toekomst van de sector beïnvloeden. How ziet de sector eruit in 2050 als deze trends doorzetten?





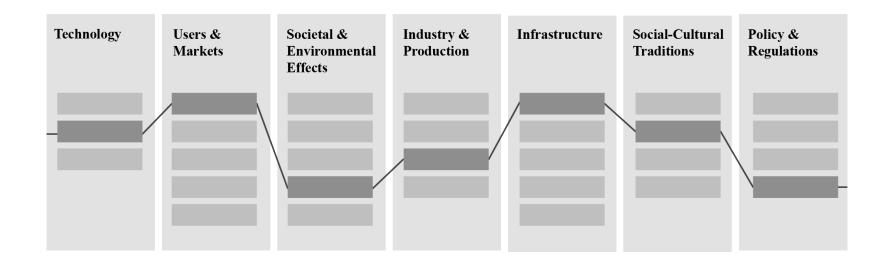
Naam: Naam

Rol in ecosysteem: Rol





Crafting story lines – thematic analysis









Crafting story lines – configuring

	Scenario A	Scenario B	Scenario C	Scenario D	Scenario E	Scenario F
Perspective	Policy Development	Farmers	Collaborative ecosystem	Society at large	Happy animal & healthy human	Knowledge economy
Driving theme	Attention to emissions	Entrepreneurship & innovation	Cooperation & fair organization	Socio-ecological systems	Welfare & wellbeing	Export of knowledge & know-how
Frame	In 2050 there is zero-emission policy and regulation	In 2050 there is a diversity of concepts in response to a more diverse society	In 2050 there is an ecosystem based on fair cooperation and shared responsibility	In 2050 our food system is resilient	In 2050 production is animal friendly with impact on people and society	In 2050 the sector is a living lab for new developments
Technology	Management in the production chain: emission reduction	Skill development	Downsides digitalization Digital optimization Integration chain links Right to exist	Alternative technology	Alternative technology Management in the production chain: animal welfare Transparency and tracking (marketing)	Management in production chain Skill development Alternative technology
Users & Markets	Market growth of concepts and quality marks	Consumer spending patterns for niche products Nichemarkets	Transparency in production chain	Transition from animal to plant-based protein Ability to spend money on high quality protein Husbandry systems based on income Population growth Carcass utilization	New products Social organization influence consumer demand Demand for products guarantee sustainability and animal welfare	Consumer spending patterns Nichemarkets
Societal & Environmental Effects	Increasing societal attention to emisison reduction Expanding the role of technology for emission reduction	Societal transition towards social and ecological indicators	Trade-offs financial vs environmental and social sustainability	Trade-off: feed-food Trade-off: integral food system Trade-off: surface area Trade-off: well- being & emissions	Health and security concerns 'Greener' business operations resulting from pressure social organizations Biodiversity	Trade-offs

Social debate steered by NGOs



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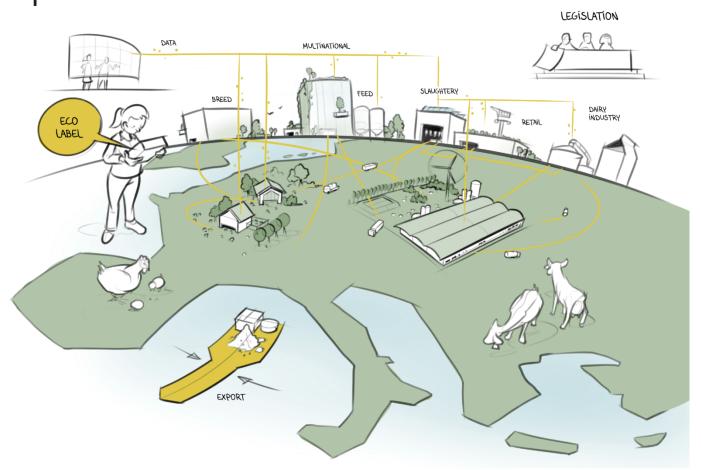
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ZERO-EMISSION POLICY AGENDA

2050, Europe. - Attention to the environment and reducing emissions to net zero are at the top of every national policy agenda. The environment and natural reserves have received the full attention of policymakers that aim to protect them from particle matter and other emissions.



LIVESTOCK FARMERS AS ENTREPRENEURIAL INNOVATORS

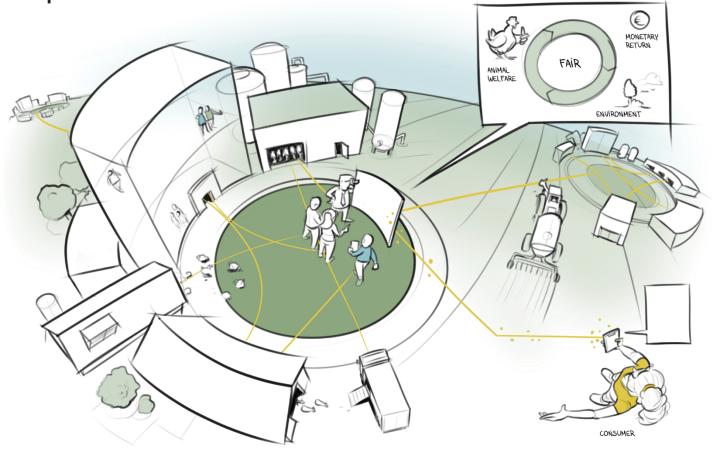
2050, Europe. – Consumers are more aware than ever of the impact of agriculture on the environment and animal welfare. In a diverse society, this has resulted in a wide range of different customer groups with specific needs and demands. Farmers have risen to the challenge and closely listen to society to adapt to the changing demands of customers. Leading to the development of new concepts and niche products that push the boundaries of the industry.



PRODUCTS

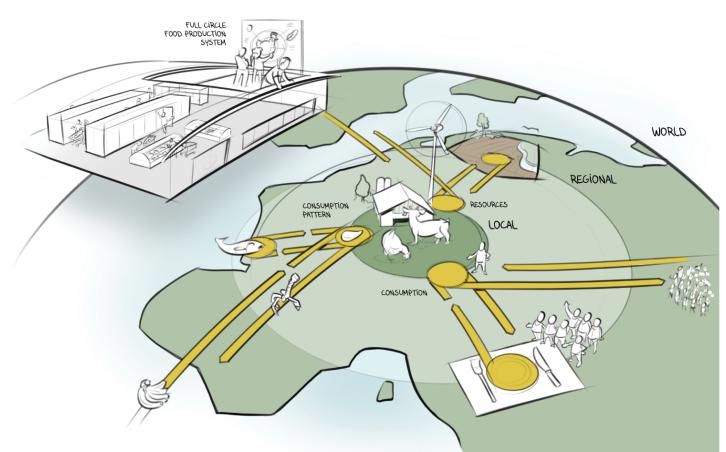
COLLABORATIVE ECOSYSTEM

2050, Europe. - Organizations in the agriculture sector take responsibility for addressing trade-off between finances, animal welfare and the environment that has plagued the industry for a long time. The central objective of the food system is a fair price for all actors while ensuring social and environmental sustainability.



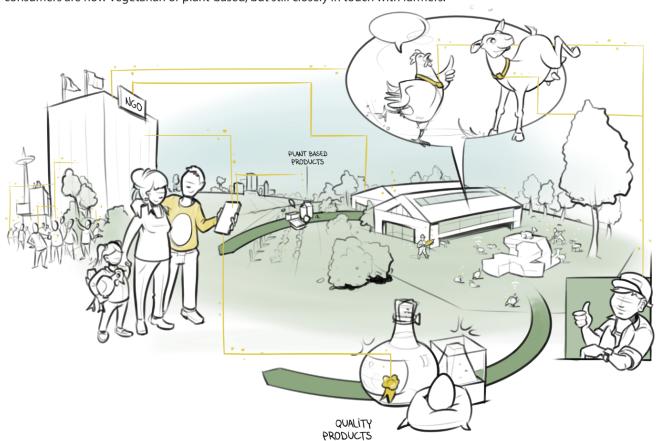
RESILIENT WORLD FOOD SYSTEM

2050, Europe. – Retailers, farmers, and production partners work together to create a resilient food system that sustainably produces food, withstands shocks, and ensures accessibility of food for a growing world population. Retailers must balance available resources, consumption of food, and consumption patterns, in collaboration with farmers and production partners at local, regional, and international level which poses design challenges.



HAPPY ANIMALS & HEALTHY HUMAN

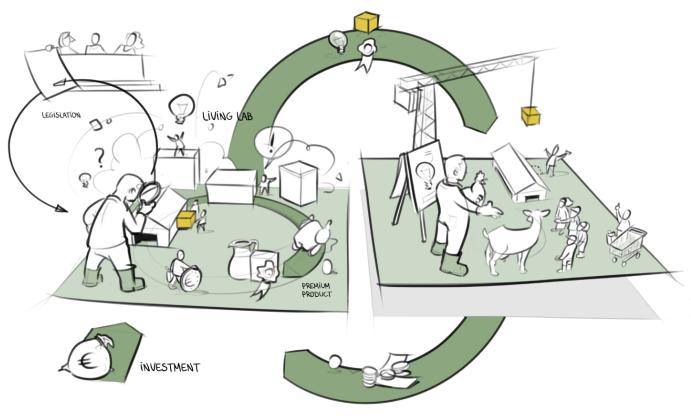
2050, Europe. – For both animals and people, life is good. Animal welfare is the top priority of farming systems and as a result it had a positive effect on people and society. In Europe we see two groups of customers. A large group focuses on the consumption of 'high-quality' products that prioritize animal welfare, even though these come at a premium. Another group of consumers are now vegetarian or plant-based, but still closely in touch with farmers.



LIVING LABS IN THE KNOWLEDGE ECONOMY

2050, Europe. – In the heart of the agricultural industries, groups of farmers, producers, suppliers, and retailers have come together to form a new value-creating initiative – a chain encompassing food living lab. Their mission is simple: to continuously innovate and experiment with different production methods and business models, with the ultimate goal of creating sustainable food systems.

KNOWLEDGE TRANSFER

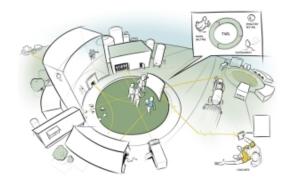


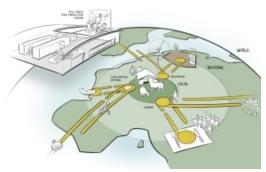
REVENUE

Future images

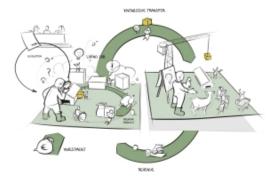


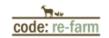
















Ecosystem value propositions

[WHO]		WITH [ACTIVITY/ PRODUCT/		IN COLLABORATION
DELIVERS	[WHAT VALUE]	SERVICE]	TO [CUSTOMER]	WITH [KEY PARTNERS].
Research	access to healthy and	sensors and dashboards for	the whole value	universities, private
centers	sustainable food	measuring emissions	chain, government,	innovators, and producers
			and society	using crowdsourcing
Government	understandable information	one label for food using	Consumers	poultry farmers,
	about emissions for	standardized measures and clear		marketing bureaus,
	consumers	information		academics
Poultry farmers	zero-emission and zero-	maximized carcass utilization	Consumers	feed (residual waste
	kilometer value chain	through product and process		flows) and retail
		innovation		







