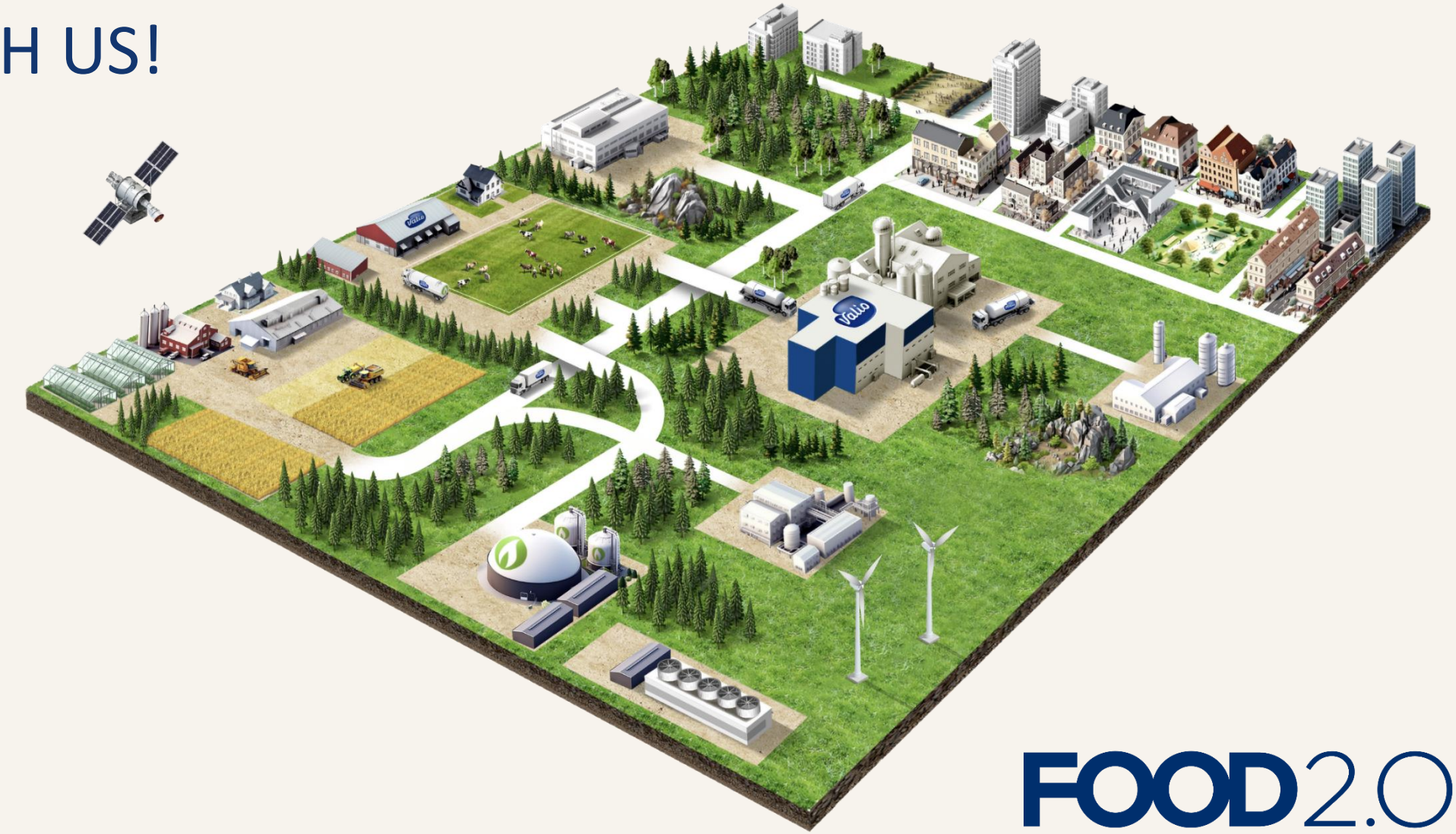
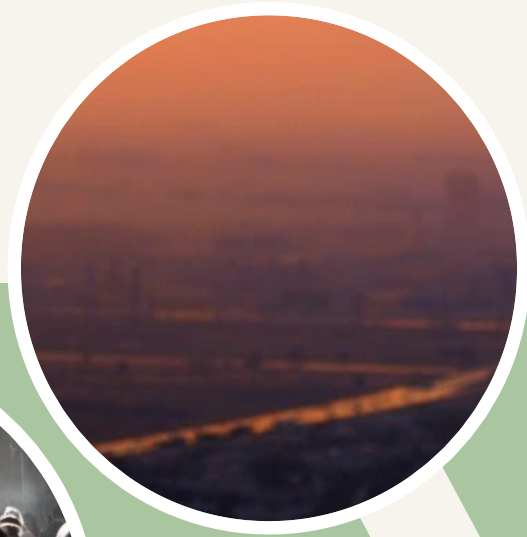
JOIN THE JOURNEY WITH US!



FOOD 2.0 | Valio

THE GLOBAL FOOD SYSTEM IS FACING SIGNIFICANT CHALLENGES – HOW DO WE SOLVE THEM?

Population growth



Climate change

Land use

Biodiversity decline

Economical sustainability

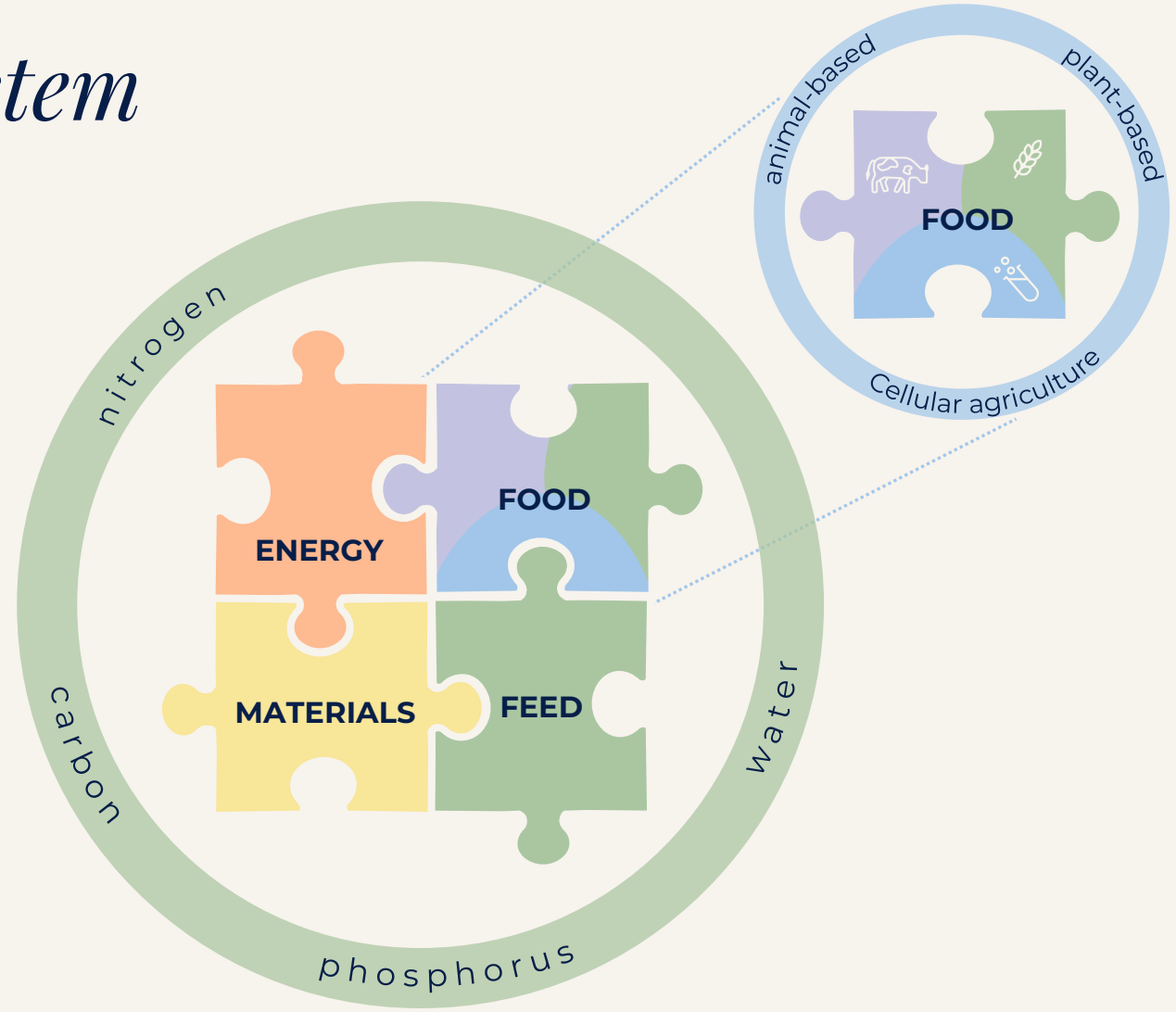
FOOD SYSTEM

FOOD 2.0 — *future food system*

BUILDING PROFITABLE BUSINESS
ON SUSTAINABLY PRODUCED FOOD

- ✓ recognises the complementary roles of plant-based, animal-based and cell-based foods
- ✓ builds productivity on resource- and data-efficient technologies
- ✓ reduces environmental challenges and scales positive impact
- ✓ creates new business and export

ENCOURAGES ALL PLAYERS
TO STRIVE FOR A COMMON GOAL



ROADMAP 2024 - 2030

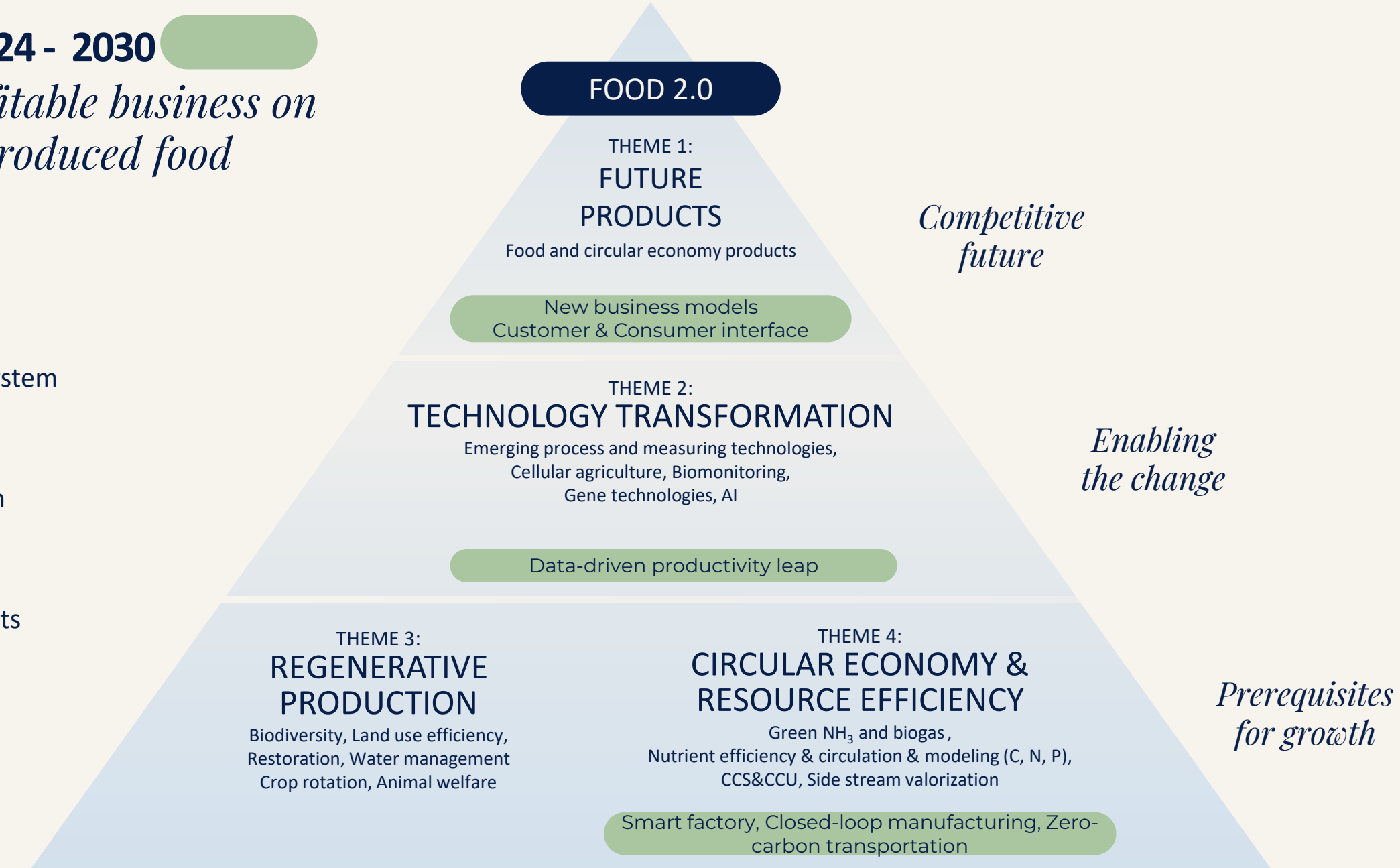
Building profitable business on sustainably produced food

TARGETS:

250 PARTNERS
involved in the ecosystem

EUR 185 MILLION
investments in RDI
across the ecosystem

EUR 1.5 BILLION
GROWTH
in food system exports
by 2032



NEED FOR ECOSYSTEM RDI

Nutrients[4]	Biodiversity and animal welfare[3]	Climate impact[3,4]	Resource efficiency[4]	Human nutrition[1,2]	Digitalisation[2]	Disruptive & enabling technologies[2,4]	Consumer and Customer[1]
Nitrogen and phosphorus circulation in food system	Biodiversity, especially remote sensing for ecosystem level and monitoring at farm level	Sustainable farming practices increasing carbon sequestration	Food industry side stream valorisation and logistics (spatial and temporal)	Nutritionally valuable compounds from side streams	Data ownership, quality and integration	Gene technologies for resilience and efficiency	Networked foresight, future scenarios
Green urea production concept in Finland	Monitoring and verification of animal welfare	Carbon cycle and climate impact modeling	Water efficiency in food processing	Nutritional quality and safety of new foods	Value-chain data flow	Cellular agriculture	Developing research on consumer technology perceptions
Agronomic efficiency of urea fertilisers	Sustainable farming practices improving water and nutrient retention in soil	Agricultural aerosols	Solutions for energy efficiency and low energy processes	Health monitoring and diet	Mobile robotics and automation	Process technologies for foods and ingredients	360° view on operational environment
Systemic modeling of nitrogen circulation		Application of CRCF-regulation in sustainable food business	Valorisation of agricultural biomasses	Business models for personalised nutrition	Application of sensors and edge computing	Evaluation of CCUS value chain in Finland	
Technologies enabling nutrient cycling		ESG data management and models for sustainable business	Biogas production value chain optimisation		Simulation – machine learning models – generative AI	Closed-loop factory	
			Green and smart logistics		Data and AI for system-level understanding	Mass customised food production	
					Digital business models	Water management in agriculture	

THE FUTURE FOOD SYSTEM