



Unlocking Finance to Drive Sustainable Food System Change



Unlocking Finance to Drive Sustainable Food System Change - Agenda

14:40

Welcome

Babette Bodlaender (NFP) & Suzanne van Tilburg (Rabobank)



14:45

Introduction to food systems thinking

Herman Brouwers, WCDI



15:00

Introduction financial flows to food systems

Bart van Kranenburg, Rabo Partnerships



15:15

Introduction Invest International

Raymond Beimers, Invest International



15:25

Interview with Fiber Foods and Peel Pioneers

Moderated by Suzanne van Tilburg



16:10

Wrap up

Lisette van Benthum, NFP



Introduction food systems thinking

Herman Brouwers

Senior Advisor Multistakeholder Collaboration for
Food, Agriculture and Nature
Wageningen Center for Development Innovation



Food Systems Transformation

Where does the term come from?

What is a food system anyway?

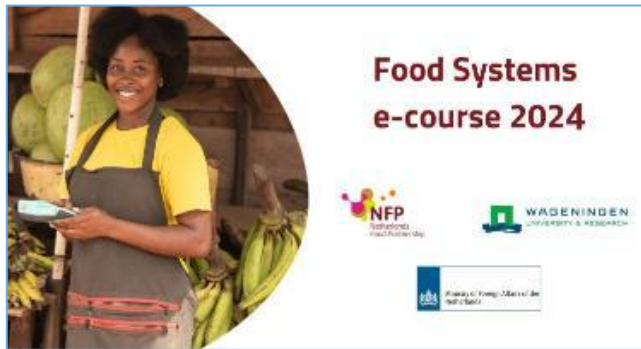
What are different perspectives on how to change food systems?



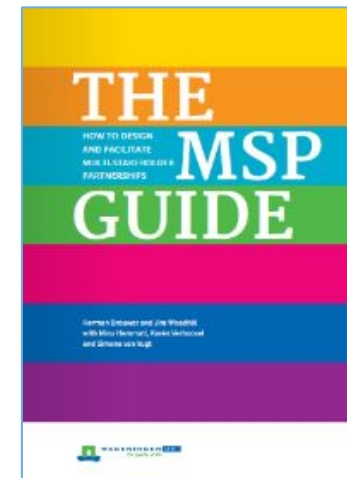
Who is Herman?



- Senior Advisor, WUR/Wageningen Centre for Development Innovation
- Thematic focus: food systems, multi-stakeholder collaboration, foresight, leadership
- Examples of projects



1. Assessment of the situation <ul style="list-style-type: none">• Conduct a baseline assessment to understand the current state of the food system.• Identify key stakeholders and their interests.• Map the food system value chain and identify bottlenecks.• Assess the resilience and sustainability of the food system.	2. Project justification <ul style="list-style-type: none">• Develop a clear rationale for the project, highlighting the need for intervention.• Define the project's vision, mission, and objectives.• Conduct a cost-benefit analysis to demonstrate the value of the project.• Identify potential risks and mitigation strategies.
3. Project implementation and support <ul style="list-style-type: none">• Develop a detailed implementation plan, including a timeline and budget.• Establish a governance structure and assign roles and responsibilities.• Monitor and evaluate the project's progress against the plan.• Provide technical and financial support to the project team.	4. Project evaluation <ul style="list-style-type: none">• Conduct a mid-term evaluation to assess the project's progress and impact.• Conduct a final evaluation to assess the project's overall impact and sustainability.• Share the results of the evaluation with stakeholders and the public.• Use the findings of the evaluation to inform future projects.
5. Monitoring and reporting <ul style="list-style-type: none">• Establish a monitoring and reporting system to track the project's progress.• Regularly report on the project's progress to stakeholders and the public.• Use the monitoring and reporting system to identify and address any issues.• Share the results of the monitoring and reporting system with stakeholders and the public.	6. Knowledge sharing <ul style="list-style-type: none">• Develop a knowledge management strategy to capture and share the project's knowledge.• Conduct knowledge sharing activities, such as workshops and seminars.• Publish the project's findings and lessons learned.• Use the knowledge sharing strategy to inform future projects.



Food systems are facing critical challenges worldwide



**Food security
and health**



**Livelihoods poverty
and inequality**

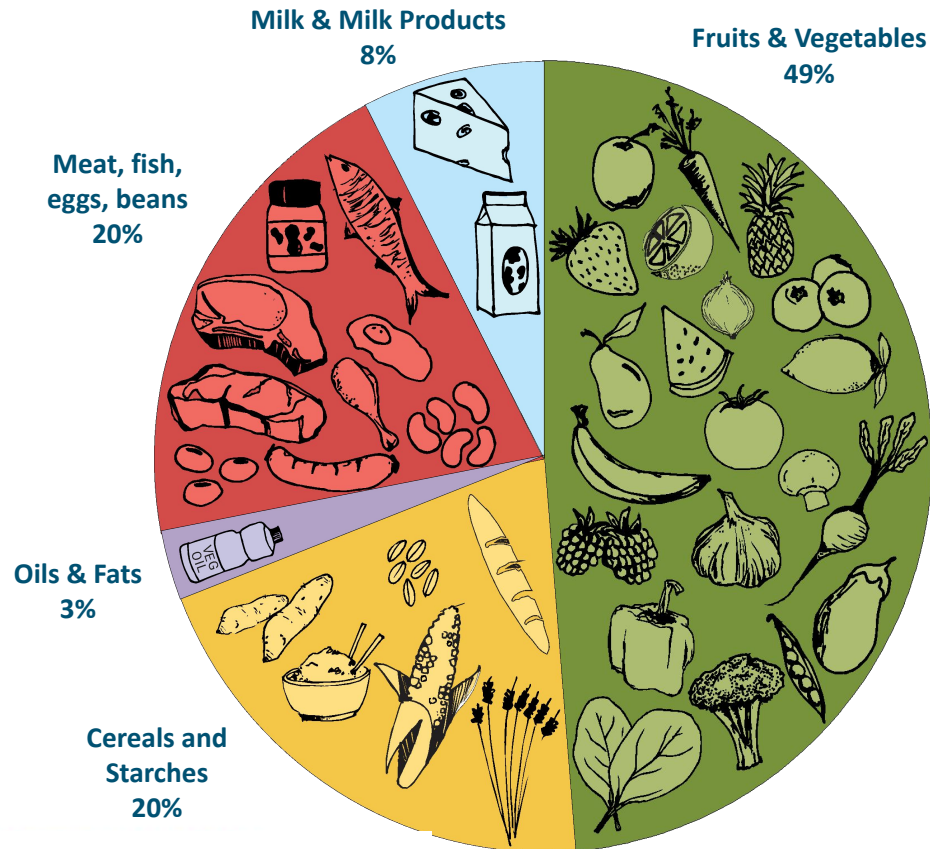


**Climate change
and environment**

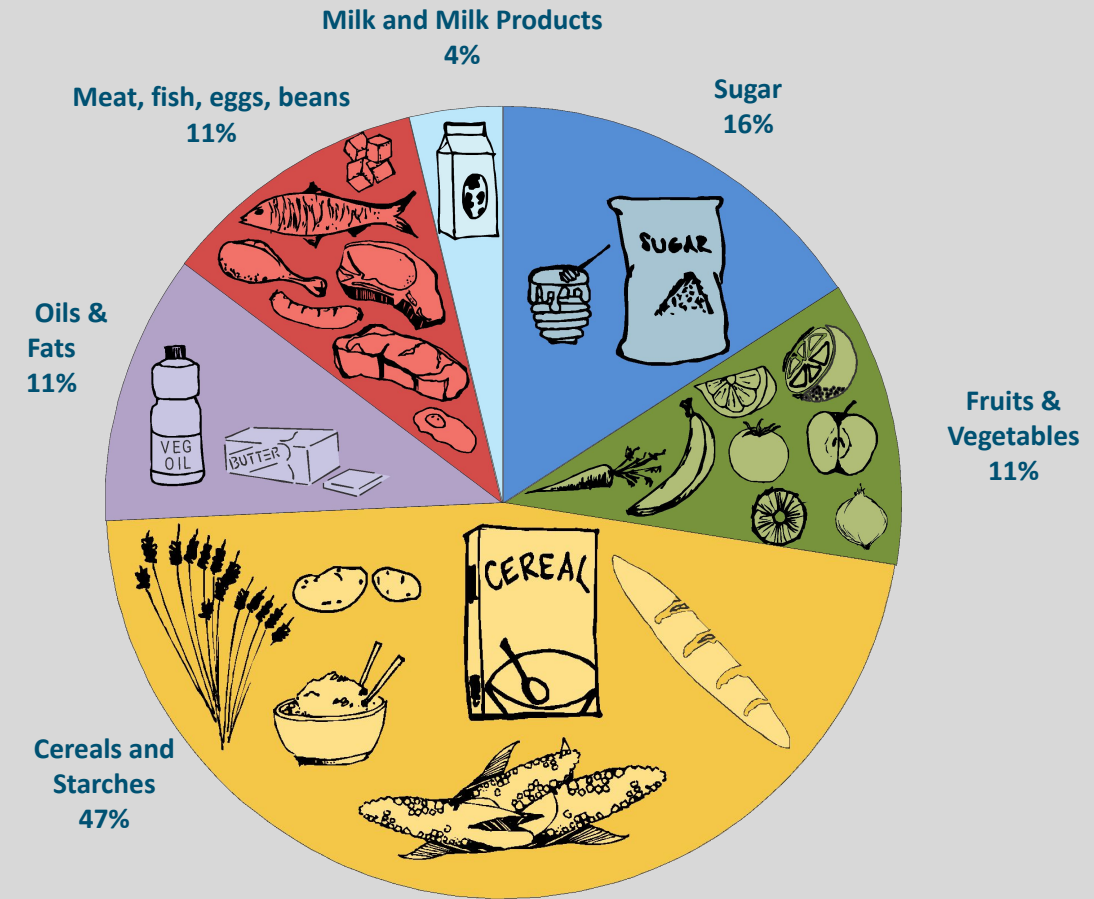


What we SHOULD eat and what we produce

What we should be eating
(Harvard's Healthy Eating Plate Model)



What we are actually producing
(According to 2011 FAO)



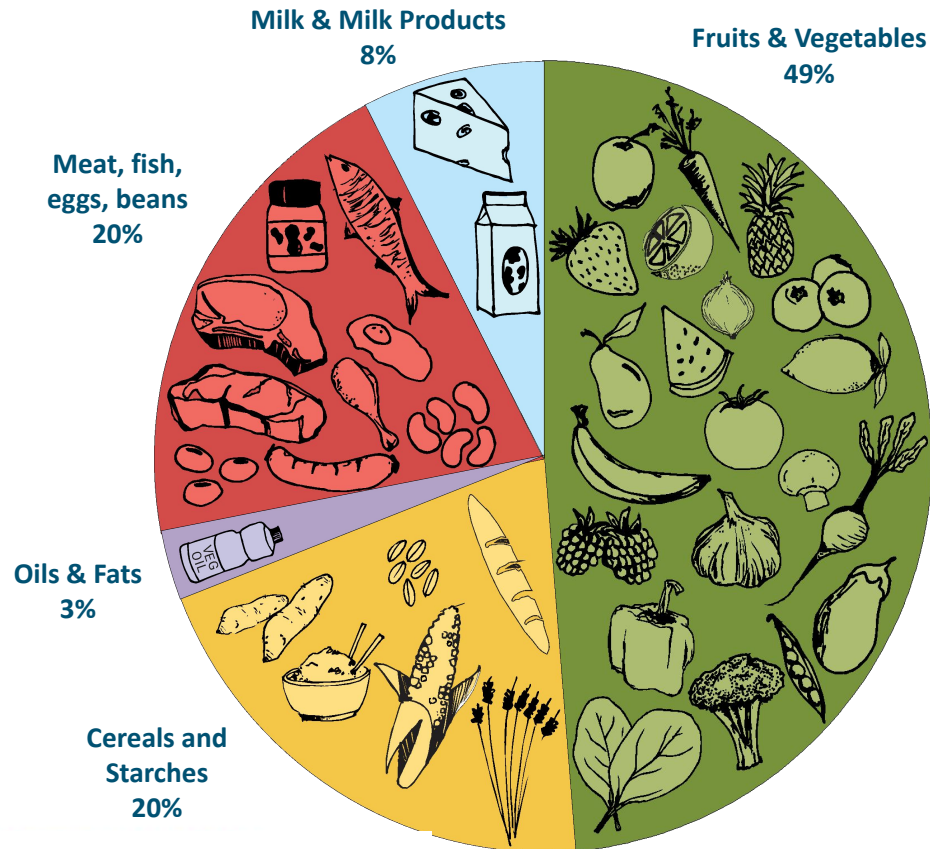
Sugar Limit



WHO < 5%

What we SHOULD eat and what we produce

What we should be eating (Harvard's Healthy Eating Plate Model)

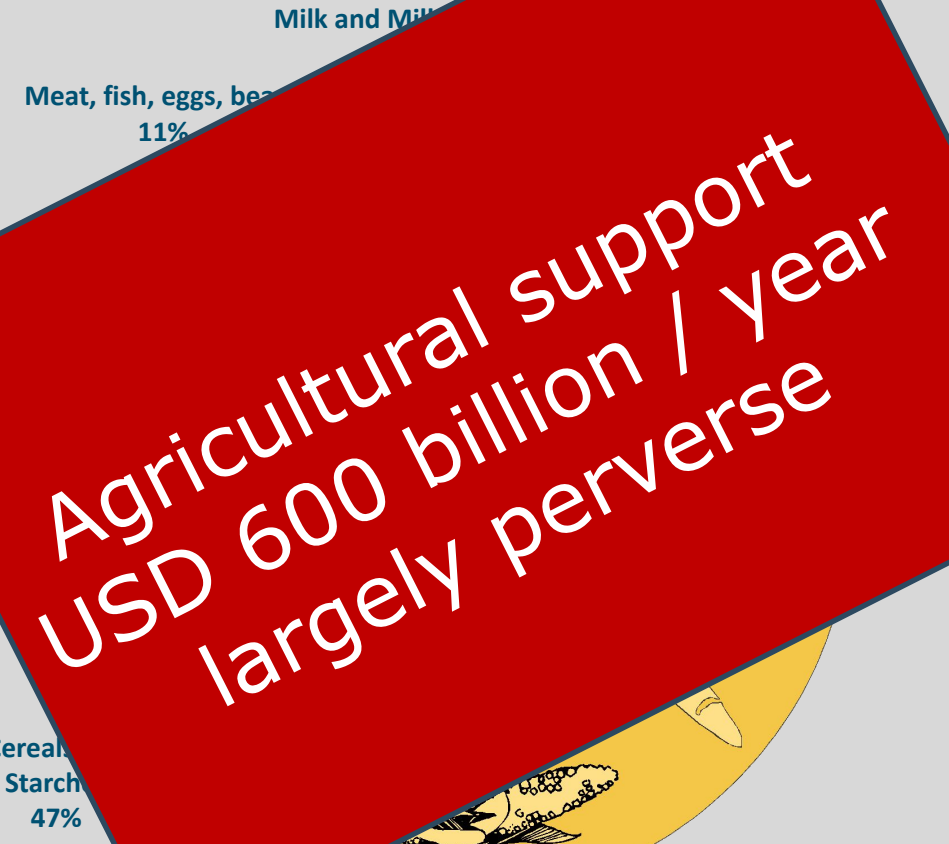


Sugar Limit



WHO < 5%

What we are actually producing (According to 2011)

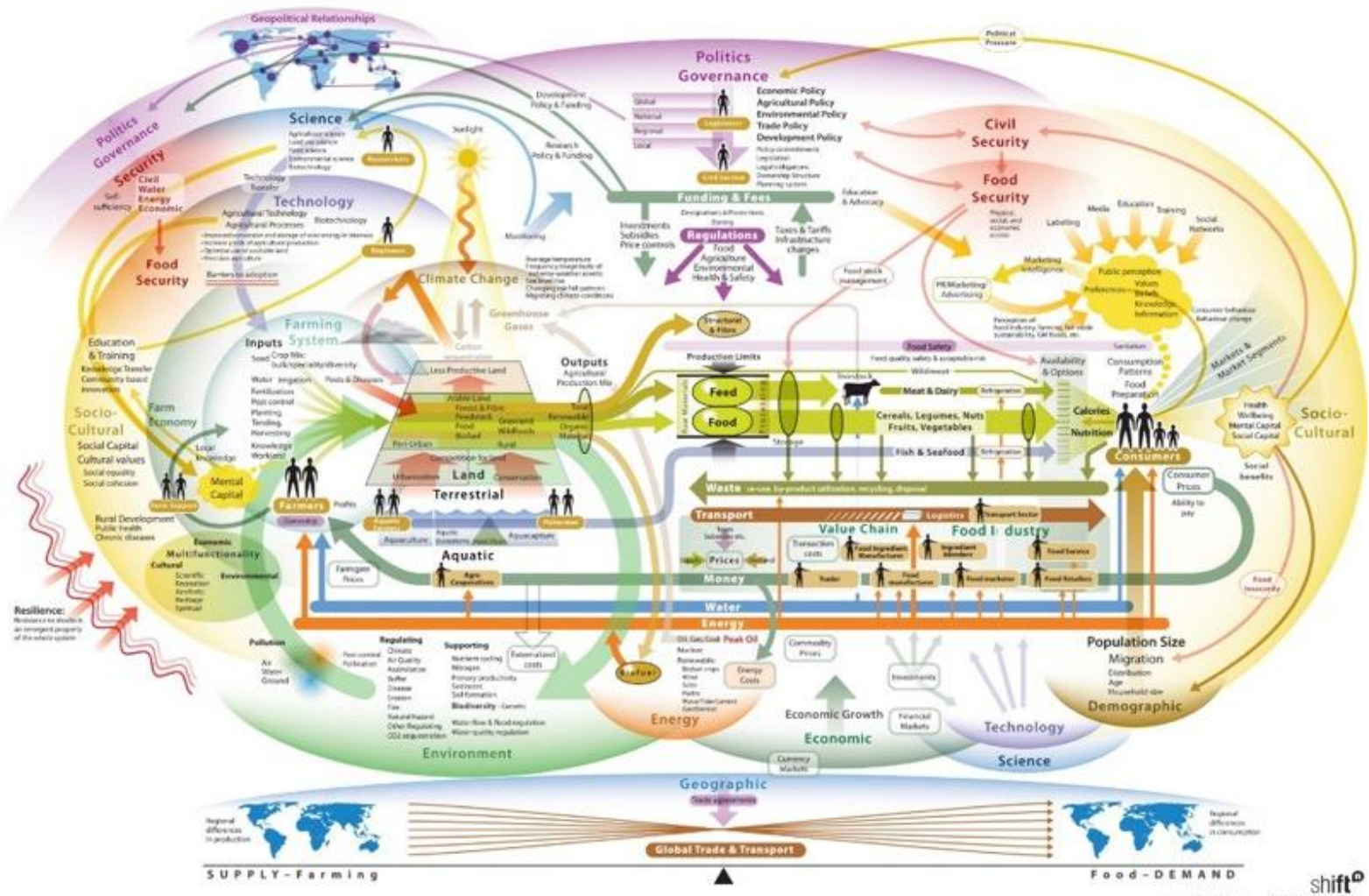


**Agricultural support
USD 600 billion / year
largely perverse**

Laborde et al 2021 <https://doi.org/10.1038/s41467-021-22703-1>

Source: Tim Benton based on Evan Fraser, Guelph, FBS analysis, 2015

Food systems are complex and adaptive



Self-organizing

Emergence

Co-evolution

Non-linearity

Unpredictable

Dynamic

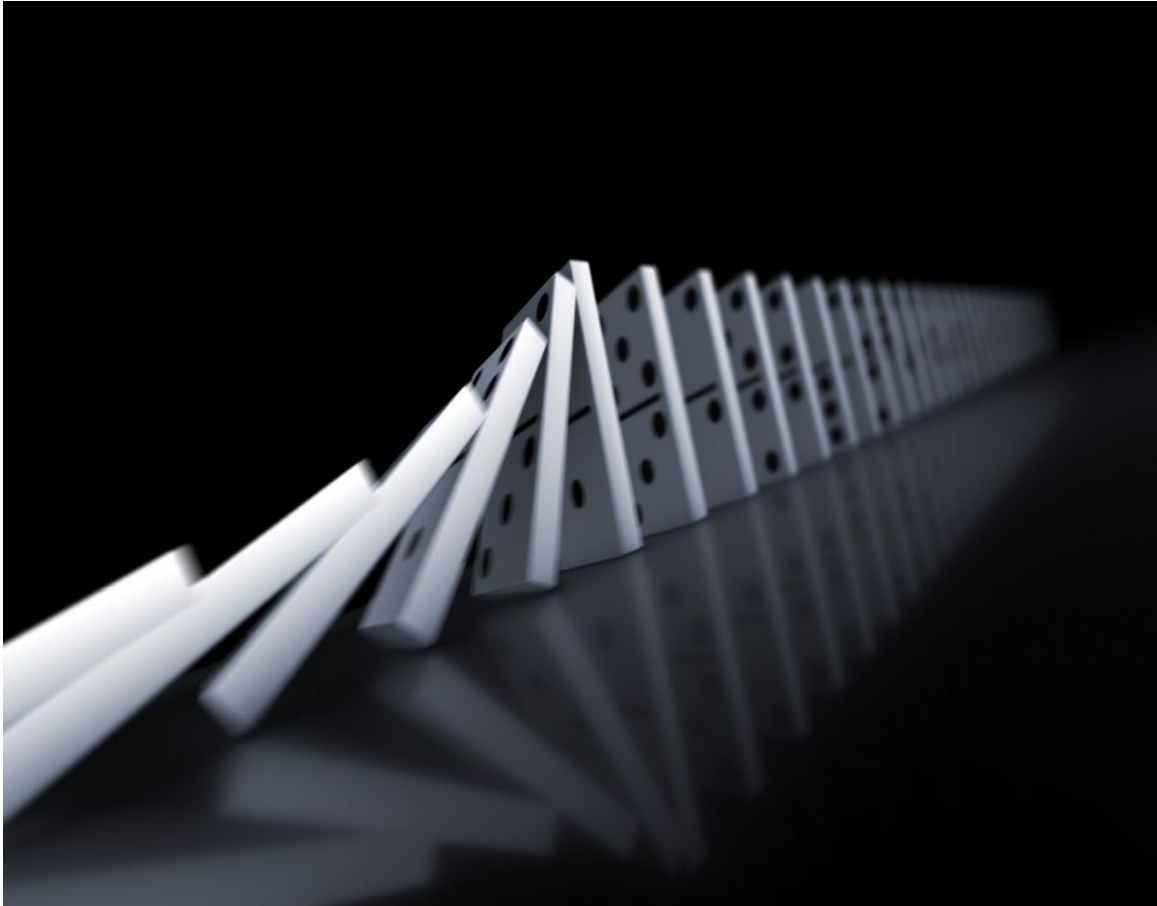
Tipping points

Irreducible / irreversible

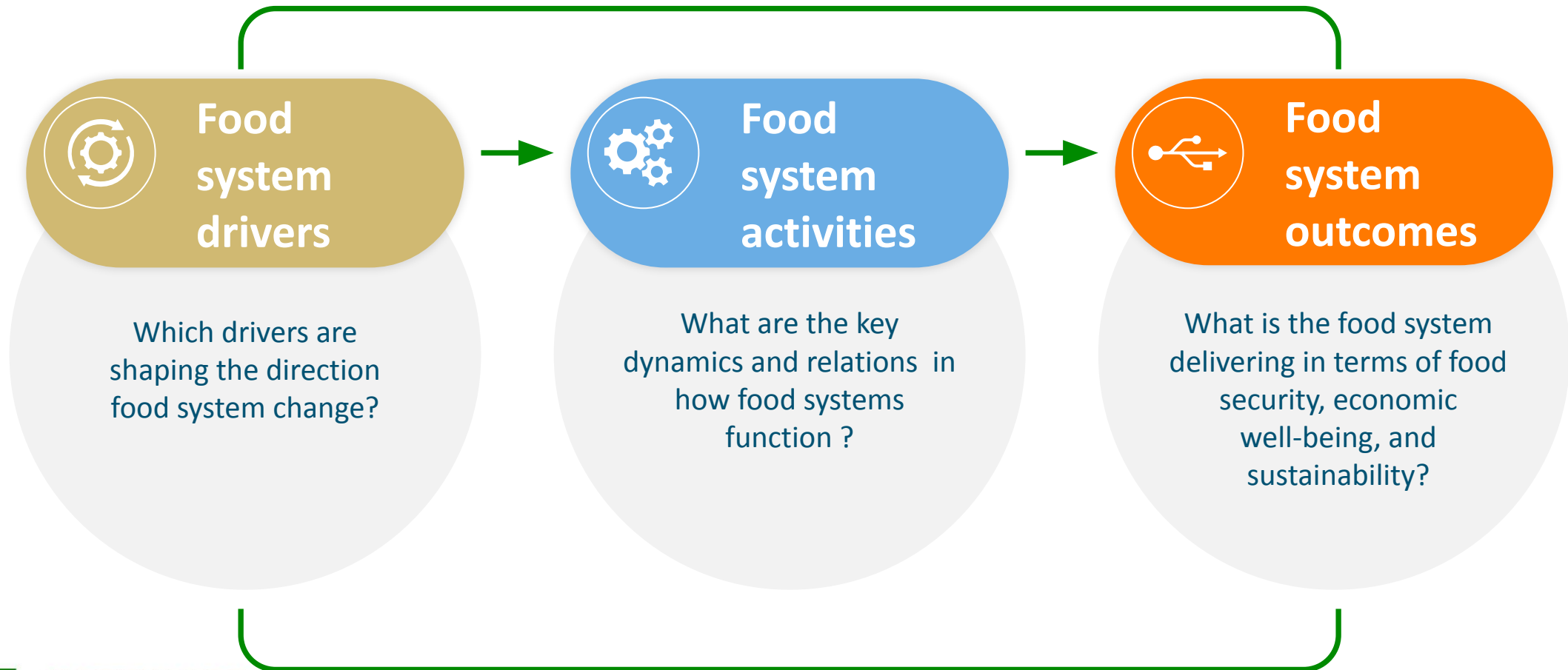
Constraints

Path dependence

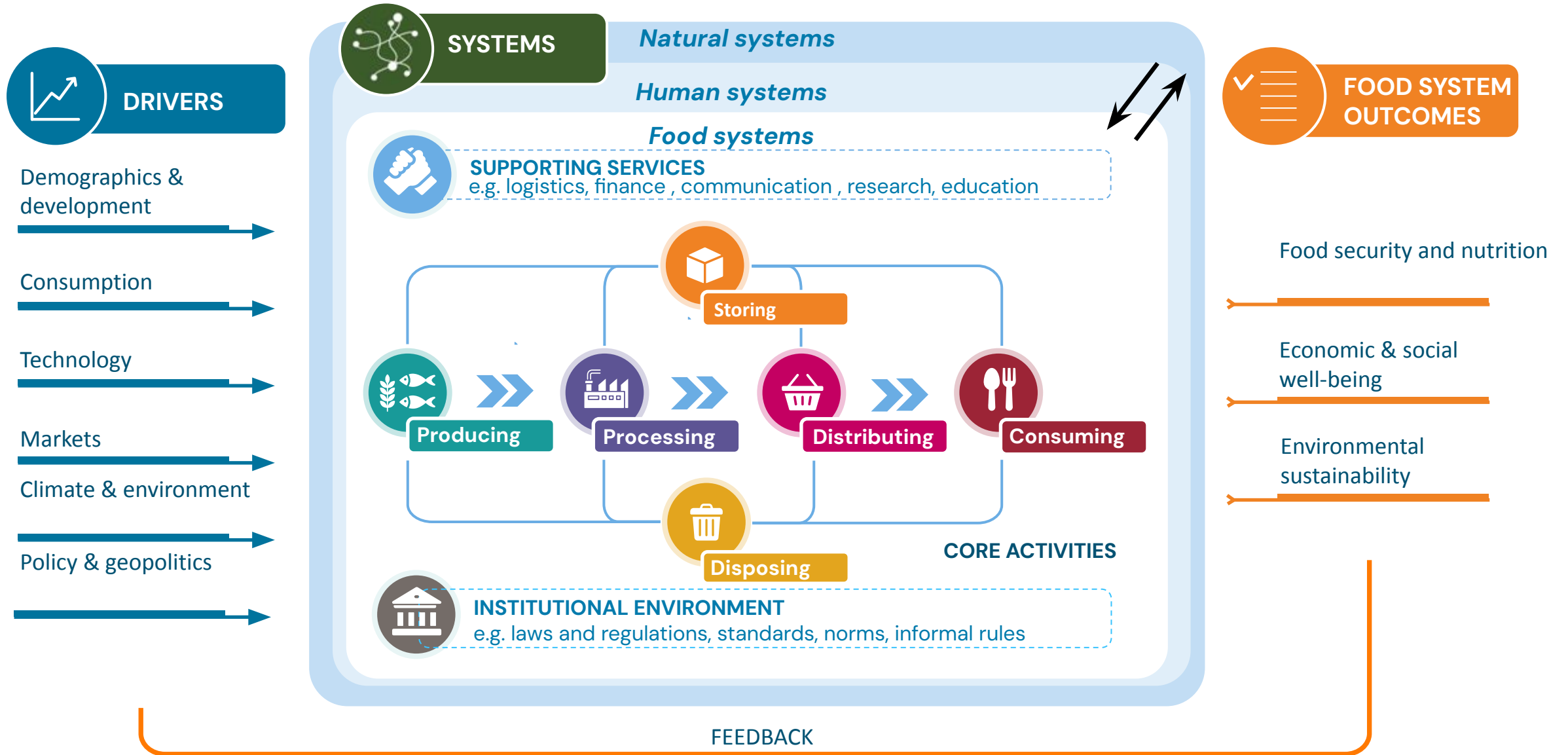
New imagination: tipping points & synergies



Systems thinking can help to navigate this complexity



Unpacking the key elements of a food system



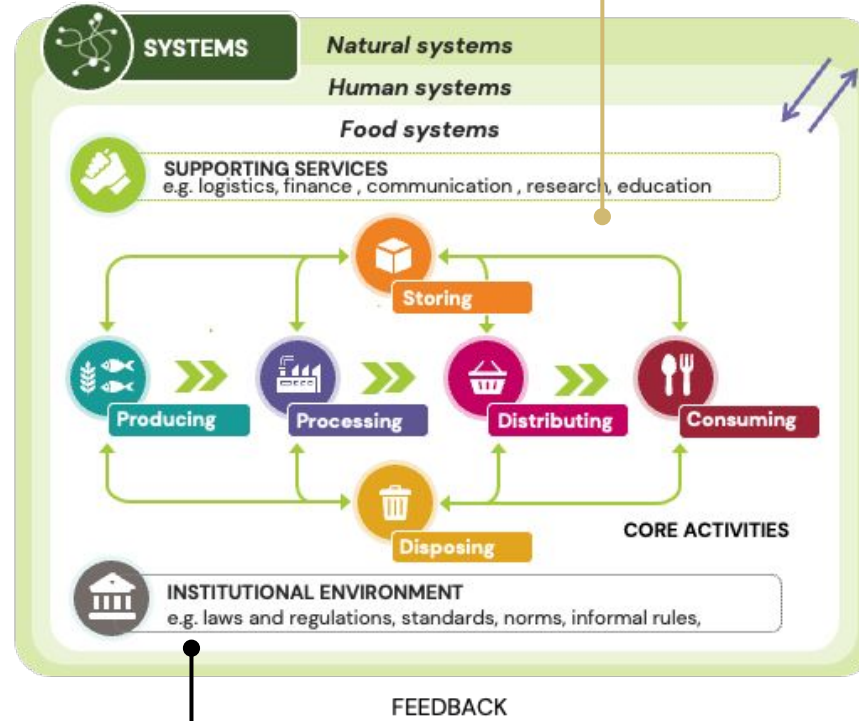
Why is a food systems approach important?

To recognize drivers and feedback loops

To understand what incentives and signals would change behavior

DRIVERS

- Demographics & development
- Consumption
- Technology
- Markets
- Climate & environment
- Policy & geopolitics



To understand food system activities and how they need to change

To agree on what we want from food systems

To recognize trade-offs and synergies

Transformation: what are we talking about?

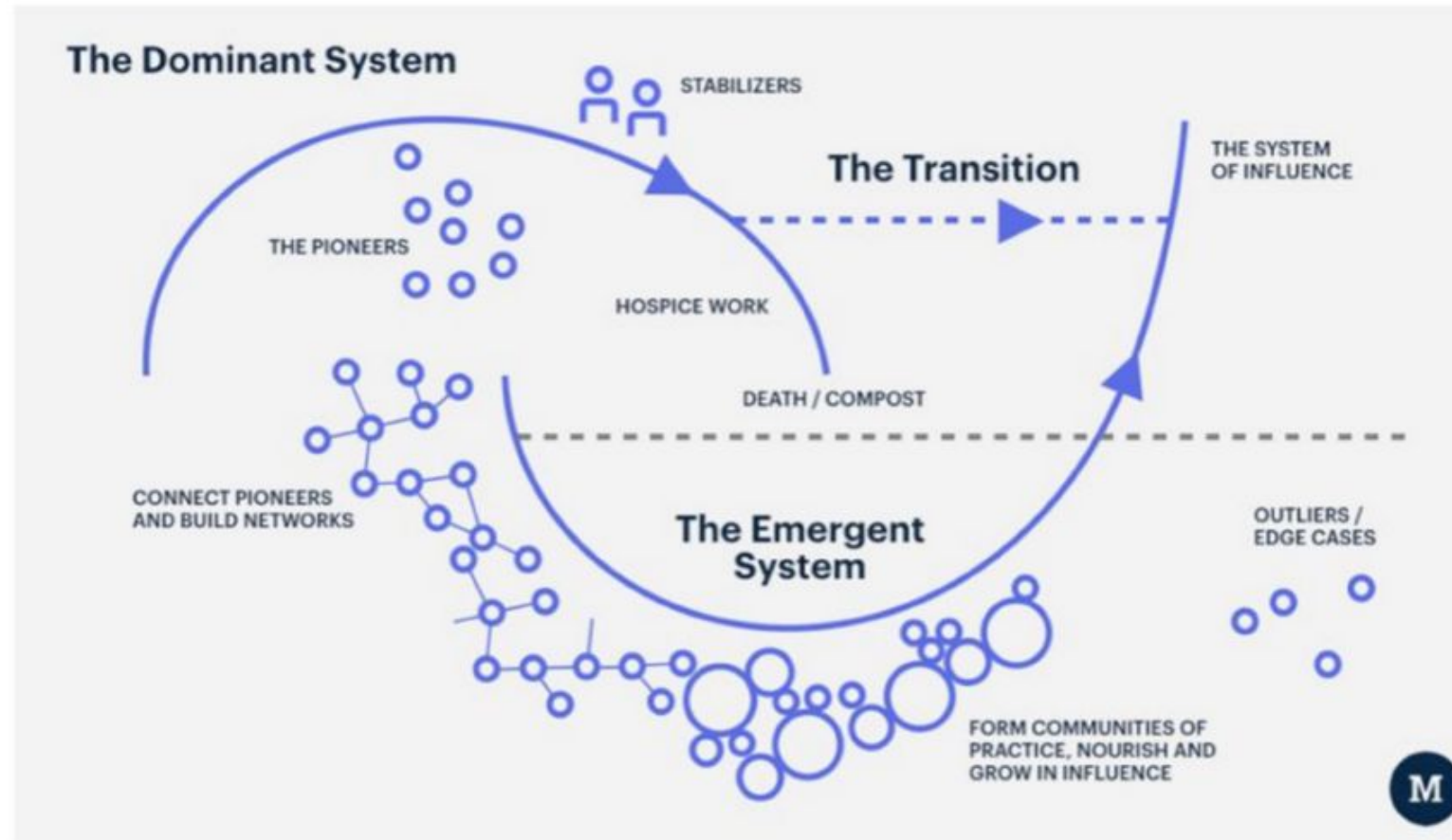
- There is contestation about terms: Transition? Transformation?

Transition	Transformation
“To transition to”	“To transform”
Step-wise, small wins	Nudging, disruptive
Designed pathways	Governed processes
Problem-solving	Vision-driven
Imposed	Emergent
Shorter-term	Longer-term
Sphere of control	Sphere of influence

- Learning from sustainable **energy** transition science: they are 10 years ahead of us
- Increasing realization it’s not only about ‘innovating our way out of...’, but also about the **demolition of resilience** of business-as-usual food system dynamics (‘hospice work’)

Key references:

- Just Dengerink, Bart de Steenhuijsen Piters, Herman Brouwer, Joost Guijt, 2022. Food Systems Transformation: an introduction. Wageningen, Wageningen University & Research. [link](#)
- Cees Leeuwis, Birgit Boogaard, Kwesi Atta-Krah (2021) How food systems change (or not): governance implications for system transformation processes. Food Security <https://doi.org/10.1007/s12571-021-01178-4>
- Ingram, J., Thornton, P. What does transforming food systems actually mean?. *Nat Food* **3**, 881–882 (2022). <https://doi.org/10.1038/s43016-022-00620-w>
- Scoones, Ian et al (2018) Transformations to Sustainability, STEPS Working Paper 104, Brighton: STEPS Centre <https://steps-centre.org/publication/transformations-to-sustainability-wp104/>



The unknown box of food systems transformation

WHY



Food System
Issues
(The problems)



But HOW?



The Transformation Process?

- Societal awareness and engagement
- Political will
- Stakeholder dialogue
- Alliances
- Coordination
- Political economy understanding
- Policy analysis
- Innovation Systems
- Human and organizational Capacities
- Data systems



WHAT



The
Transformed
Future
(What we hope
to achieve)

The unknown box of food systems transformation

WHY



Food System
Issues
(The problems)



But HOW?



The Transformation Process?

- Societal awareness and
- Political will
- Stakeholder
- Alliance
- C

Smart investment

cities

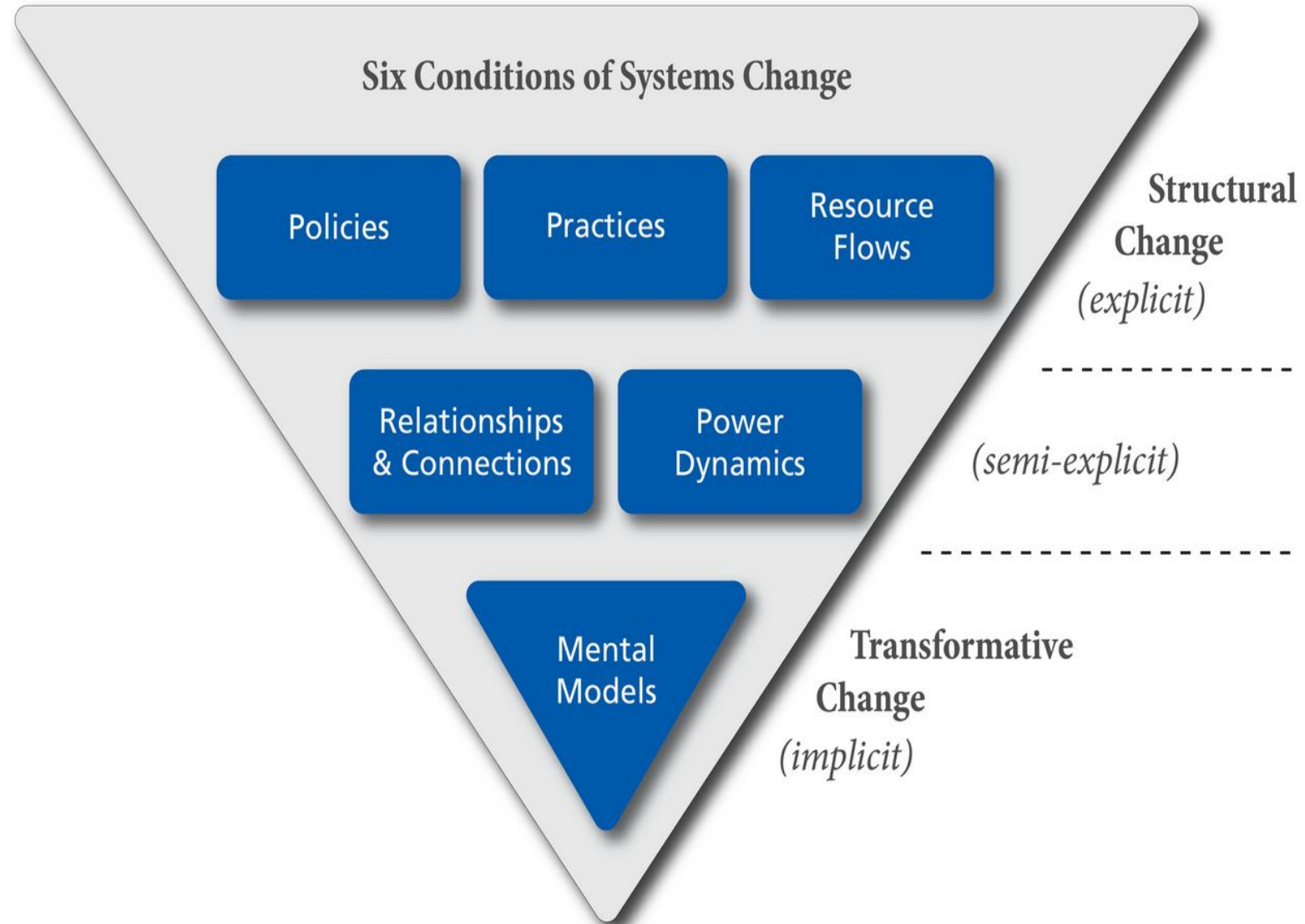


WHAT



The
Transformed
Future
(What we hope
to achieve)

Changing food systems: it's not only about \$



Food system transformations: are we going to change our food systems now?

- National dialogues and UN summit 2021. COP

28 announcing in 2023

Governments are going to regulate: are they?

Major investors adapt their policies: withdrawal of activist shareholding?

Private sector: different levels of engagement, but systemic change?

Consumers: increasing inequalities and responses



Recap

A food systems approach helps you to...

- Zoom out, and zoom in again
- Go beyond fixing symptoms towards building overall food system resilience
- See the dynamics (=not static)
- Create the foresight needed to manage risk opportunity
- Get clarity about trade-offs and synergies
- Identify systemic leverage points for interventions



Six pathways to follow for food systems transformation

What do finance institutions need to step up their contribution to such a transition process?

1

Integrating humanitarian, development and peacebuilding policies in conflict-affected areas.

2

Scaling up climate resilience across food systems.

3

Strengthening resilience of the most vulnerable to economic adversity.

4

Intervening along the food supply chains to lower the cost of nutritious foods.

5

Tackling poverty and structural inequalities, ensuring interventions are pro-poor and inclusive.

6

Strengthening food environments and changing consumer behaviour to promote dietary patterns with positive impacts on human health and the environment.

Introduction financial flows to food systems

Bart van Kranenburg

Project Manager Rabo Partnerships



Financing Food System

Introduction and outcomes NFP Learning Event 27 September 2024

World Food Day 2024, Bart van Kranenburg



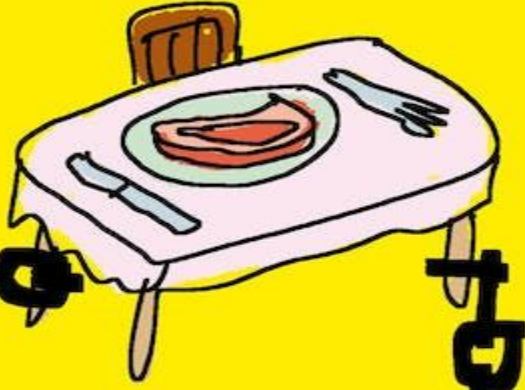
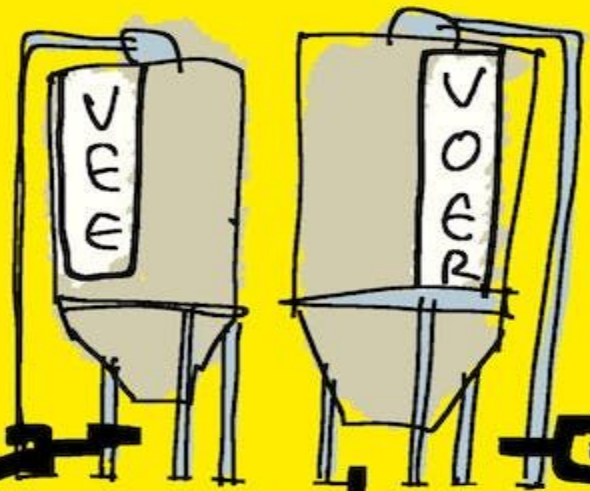
125 years ago...



...and now



SHOULDN'T YOU BE TAKING SOME STEPS?



How
de
Kohr

Financing From Farm to Fork

Food System Transition requires change throughout the agri-food chain

Farm inputs

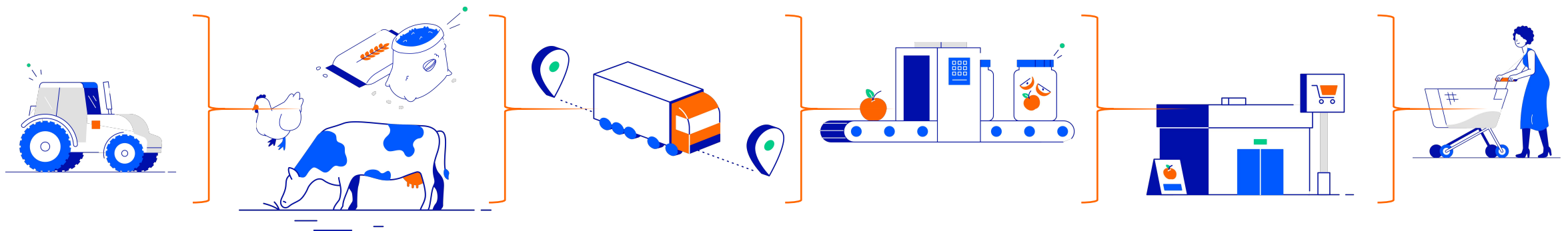
Primary sector

Trade & export

Processing

Retail

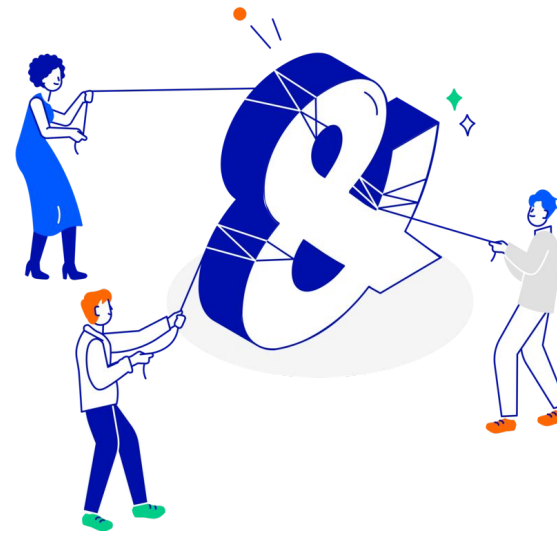
Consumer



Outcomes of the learning event



1. Insights & Understanding



2. Collaboration & Partnerships

Insights & Understanding



The FST is filled with dilemma's...

Dilemmas in financing Food System Transformation

FMO
Entrepreneurial
Development
Bank



Crop inputs – should we use organic or chemical inputs and what is the implication for cost and yields?
Seeds – should we rely on nature or use science (GMO, CRISP) for genetic improvements?
Water – rainfed or irrigated (but what about the ground water level....)



Type – should we support “unsustainable” high yield agriculture or regenerative agriculture?
Scale – should we support large scale or smallholder-based agriculture?
Crops – should we focus on cash crops or food crops (or energy crops)



Supply – is there enough supply of “sustainable raw materials” to run at full capacity
Demand – are buyers willing to pay for more sustainable products?
Leverage – to what extent can a processor influence both upstream and downstream partners?



Trading – should we source close at home or transport internationally?
Transport – how to ship products sustainably?
Import restrictions – EUDR has good intentions, but also good outcomes?



Consumer demand – driven by price or sustainability issues?
Carbon accounting – focus on the environment only or include social measures as well?
Standards – too many standards (including self-certification) erodes the value of certification

7

... and requires a significant investment.



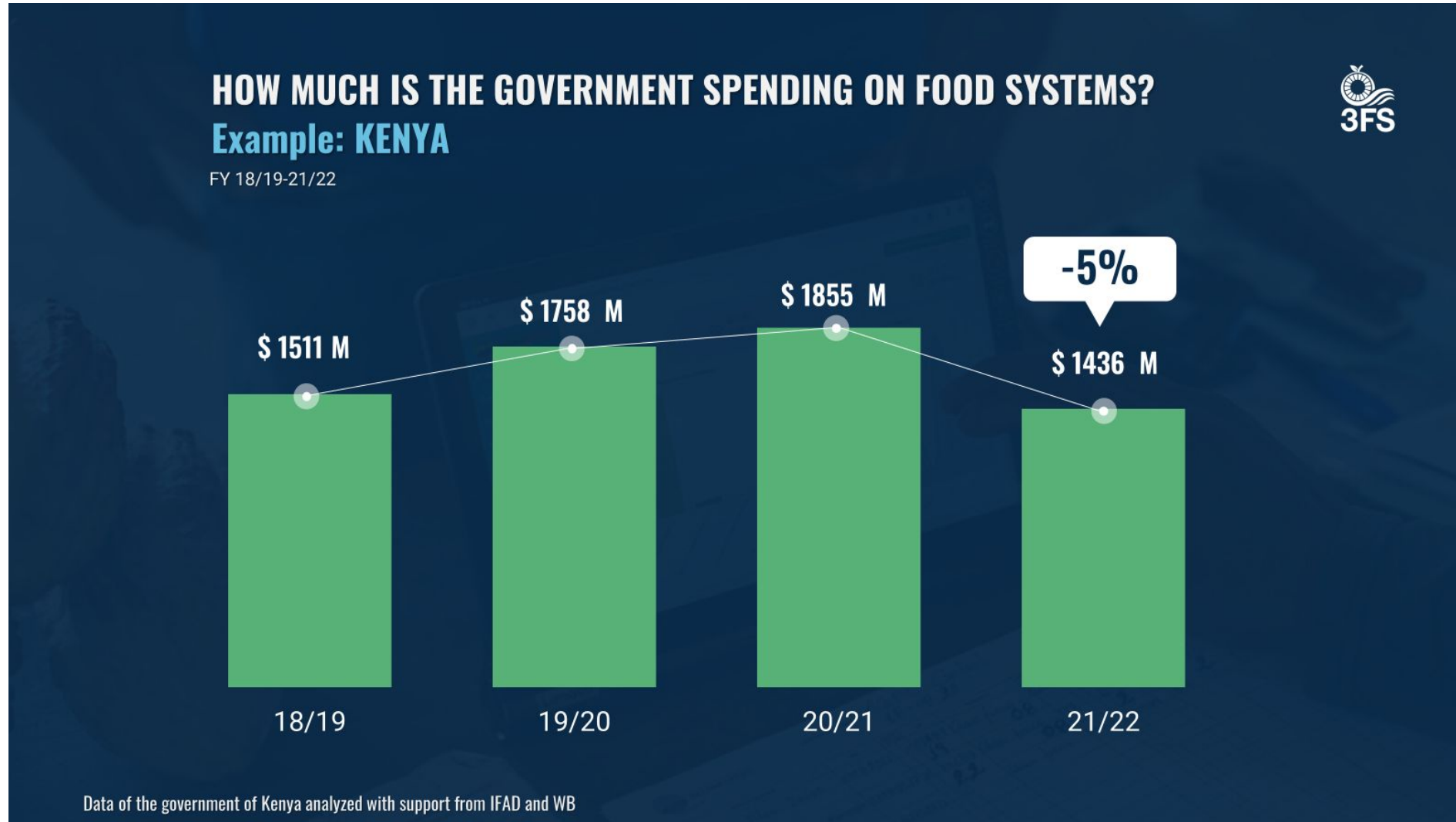
Tracking financial flows...



... from different sources



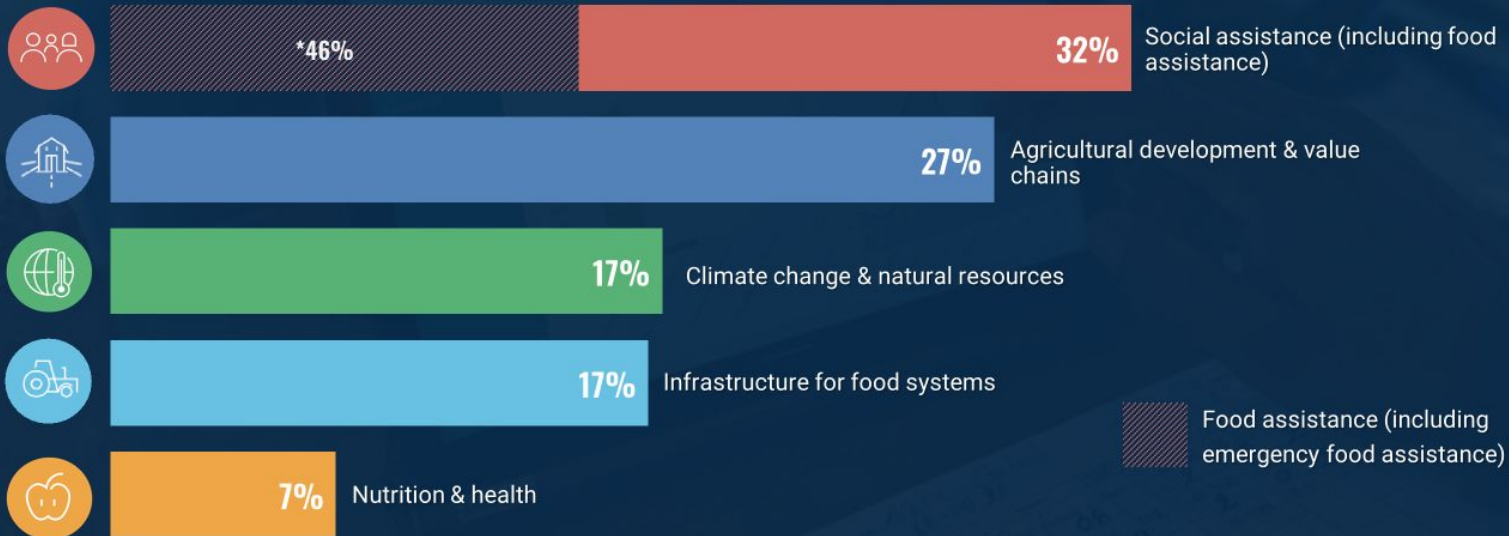
At a country level...



.. And globally

GLOBAL INTERNATIONAL DEVELOPMENT FINANCING TO FOOD SYSTEMS - ON WHAT?

2018-21, average in % based on disbursements



* Share food assistance in social assistance

Data accredited to OECD

3 challenges for a commercial bank



Funding



Risk



OpEx

Collaboration & Partnerships



Collaboration as a critical success factor



A practical case study



A tablet displaying a loan application form. The form is titled "Full Name of Customer" and contains the following fields and options:

- Full Name of Customer: Tony Sanders
- Product Type: Tractor (dropdown menu)
- Price asset: USD 12,000
- Interest: Amortized Upfront
- Down Payment: 10% 15% 20% 25%
- Tenor of loan (in years): 1 2 3
- Months per payment: 1 3 6

The summary section shows:

- Monthly installment: USD 450
- Total initial payment: USD 2,520
- Hide calculation ^

The breakdown of the total initial payment is:

Category	Amount (USD)
Upfront Interest	936
Service fee	72
Insurance	312
Down Payment	1,200

At the bottom of the form, there are two buttons: "SAVE & CLOSE" and "APPLY FOR LOAN".

From islands of success to seas of change



Thank you for your
attention.



Introduction Invest International - investing in Dutch solutions for global challenges

Raymond Beimers

Sector Head of Agrifood
Invest International



Our mandate



Dutch linked

Contribute to Dutch economy & future earning capacity



Impact

Guided by the SDGs and focused on impact entrepreneurs that drive change



Additional to market

Resolving market failure



All markets

Excluding the Netherlands and sanction list countries & sectors

What we do

We believe Dutch innovation and expertise can provide much-needed solutions for global challenges.

We focus on 3 things:

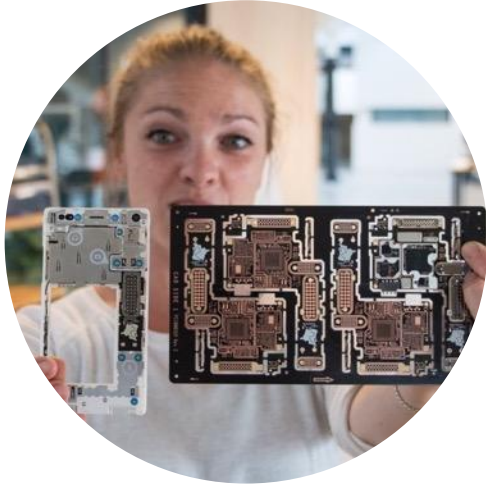
1 Finance Dutch technology & businesses that want to do business abroad

2 Accelerate Dutch innovation with development contributions.

3 Invest in public infrastructure projects in emerging markets.



We work with



**Start-ups
and SMEs**



**Mid and Large
Corporates**



**Partner
Governments**



Investors

We also look for synergies between public infrastructure needs and private businesses

Our products

With our tailor-made financing, we go the extra mile to overcome barriers and realise impact.

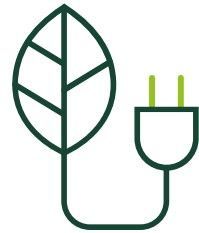
- Development Capital
- Financing Products for starters and scale-ups
- Investment Loans
- Export finance (OHV, Atradius collaboration)
- Equity
- Funding for infrastructure development in emerging markets



We focus on 5 sectors



Agri-food
Sustainable
value chains



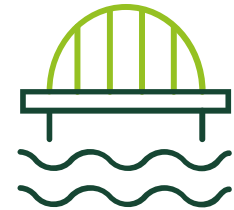
Energy
Renewable
energy



Healthcare
Improving
people's health



Manufacturing
Sustainable
manufacturing



**Water &
infrastructure**
Green
architecture

AgriFood Transition Themes

Alternative Protein

- Transition towards alternative-protein based food to be able to feed a growing population within the planetary boundaries
- Focus on:
 - Plant based
 - Insect based
 - Fermentation based
 - Cultivated meat / fish

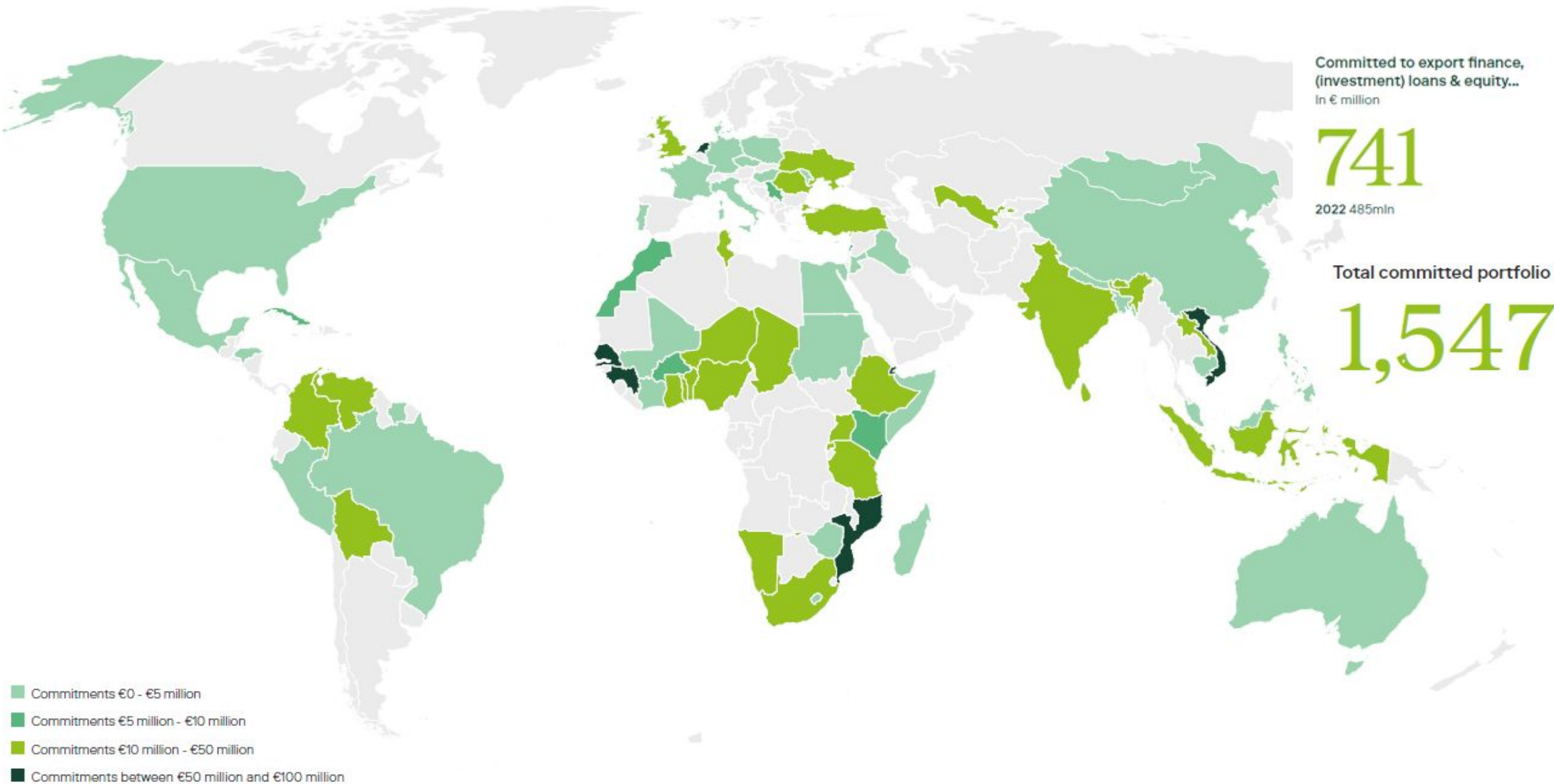
Controlled Environment Agriculture

- Transition to farming in controlled conditions to improve crop productivity, resource efficiency and sustainable production of food crops and farmed fish
- Focus on:
 - Dutch Greenhouse builders, technology and equipment providers, input providers
 - Controlled aquaculture for shrimp and fish

Regenerative Agriculture

- Transition from conventional to regenerative farming practices that will lead to better soil health and improves biodiversity
- Focus on:
 - Soil Health
 - Bio stimulants
 - Farming practices
 - Transformations
 - Technology and equipment

Track record



Let's build the
sustainable markets
of tomorrow together.

Invest
International

Check your financing eligibility via our Online Tool: [Funding advisor - Invest International](#)

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transactions and news from our organisation



In conversation with Invest International's clients: Fiber Foods & Peel Pioneers



Inez van Oord,
Fiber Foods



Raymond Beimers,
Invest International



Remco van Soest,
Peel Pioneers



Wrap-up & Way forward

Crucial role of innovative businesses like PeelPioneers and Fiber Foods **to realize Transformation**

The financial sector has an important role to play by financing innovative business solutions which contribute to Transformation.

There is a need for public & private financial institutions to **align profitability with social and environmental objectives**

Collective learning & collaboration across sectors **are critical** to enable the financial sector to take up their role in transformation

For collective learning & collaboration; join the CoP Food System Finance !

