



for

Agrifood Systems

Module 1

Scope of transformation



What do you understand by “Agrifood system”?



Module 1 Scope of transformation

01 What is an Agrifood System?

02 Transformation of Agrifood Systems

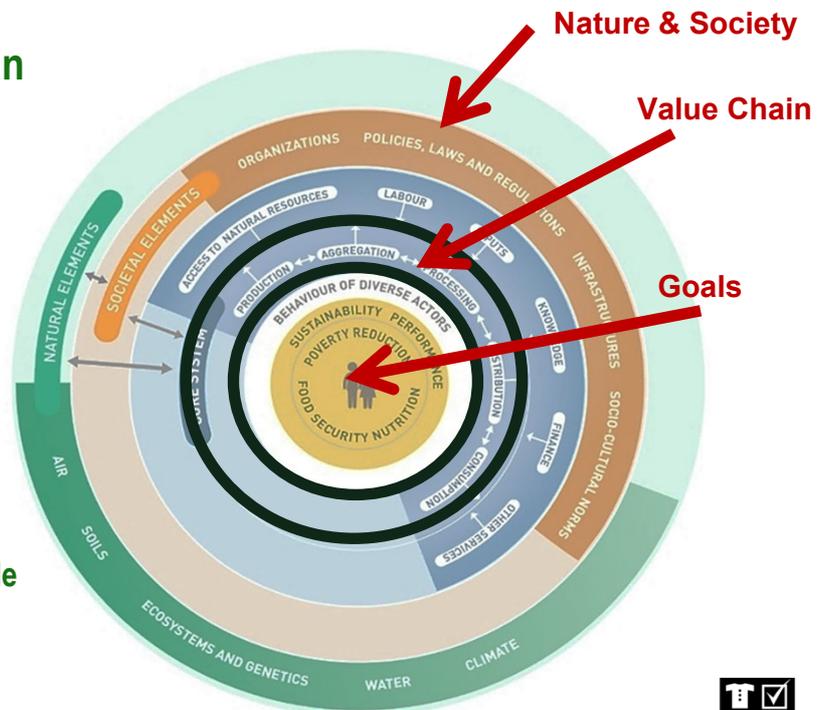
03 ValueLinks for Agrifood Systems



Visual representation of an Agrifood System # 1

FAO
Food System Wheel

Focus on system levels
Nature – policy – economy - people



Source : FAO

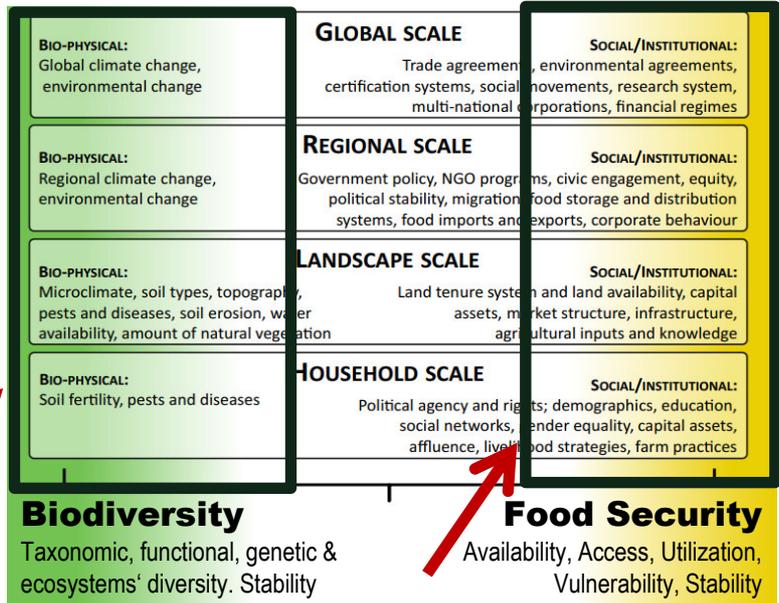


Visual representation of an Agrifood System # 2

Wittman et al., 2016

Focus on geographic scales, biophysical and social/institutional parameters

Bio-physical



Social / institutional



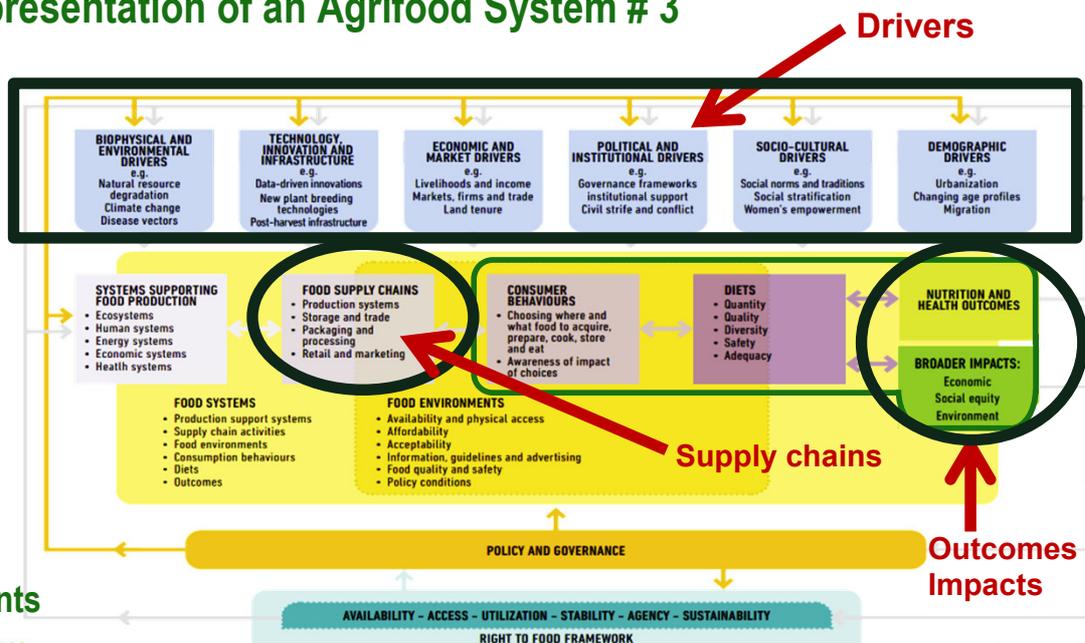
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Visual representation of an Agrifood System # 3

HLPE (High-Level Panel of experts on food security and nutrition)

Focus on drivers & components



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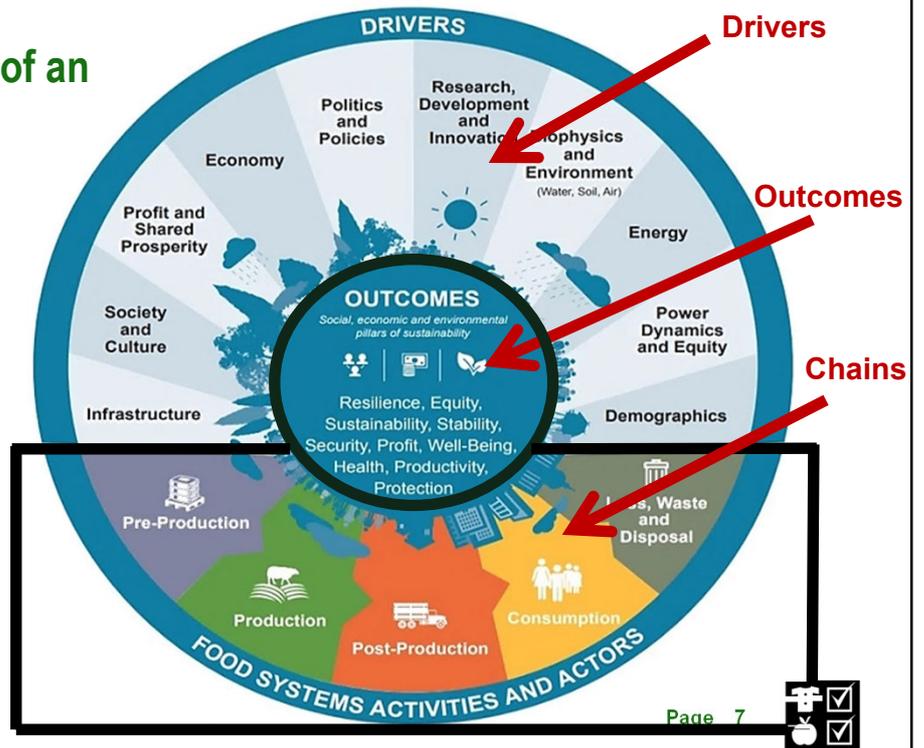


Source : HLPE, 2020. Food security and nutrition: building a global narrative towards 2030.

Visual representation of an Agrifood System # 4

Niles et al., 2017
Meridian Institute

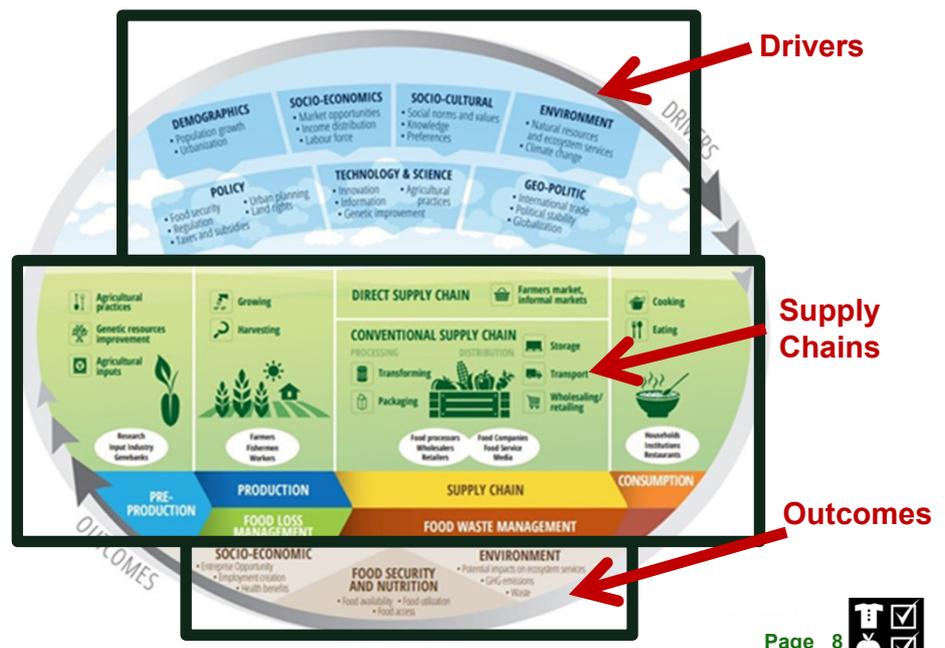
Focus on
Drivers, activities
and actors



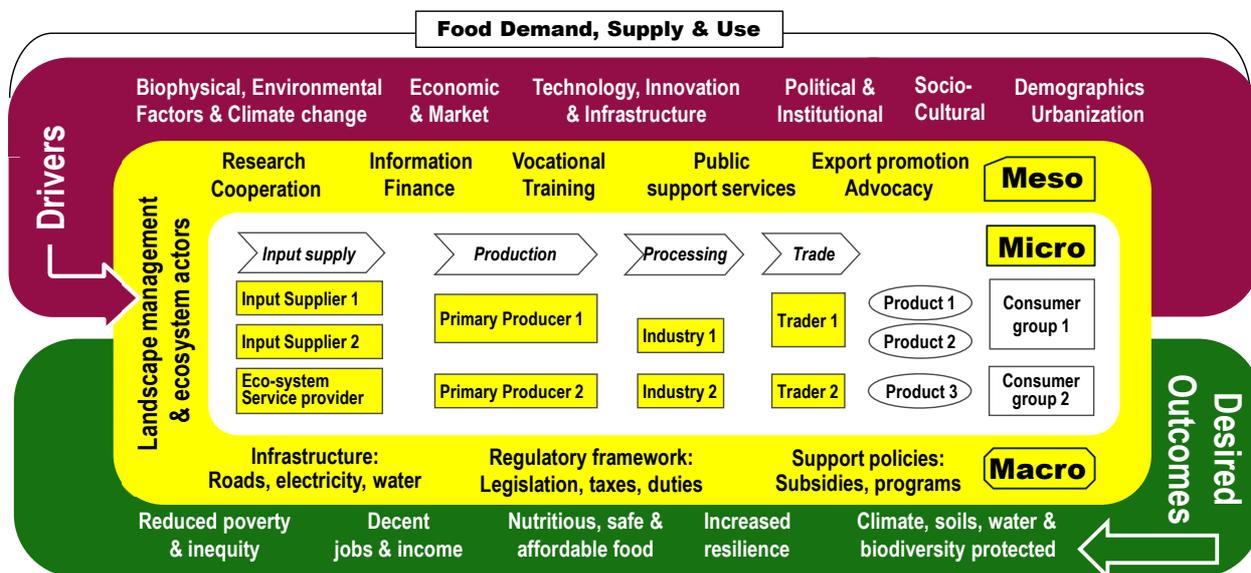
Visual representation of a Food System # 5

CIAT
(International
Centre for Tropical
Agriculture)

Focus on
"drivers, activities,
actors, outcomes"



ValueLinks for Agrifood Systems



Module 1 Scope of transformation

01 What is an Agrifood System?

02 Transformation of Agrifood Systems

03 ValueLinks for Agrifood Systems



Agrifood Systems DO CHANGE all the time

Close your eyes for 1 minute and go back to your childhood.

Did you observe anything you would call "transformation of an agrifood system"?

What was it?



Planetary boundaries

...describe the "safe operating space" limiting human impact on natural systems. Beyond these boundaries, the earth system will shift irreversibly threatening human well-being and stability.

Climate change

Biosphere integrity

Modification of biogeochemical flows (Nitrogen, Phosphor)

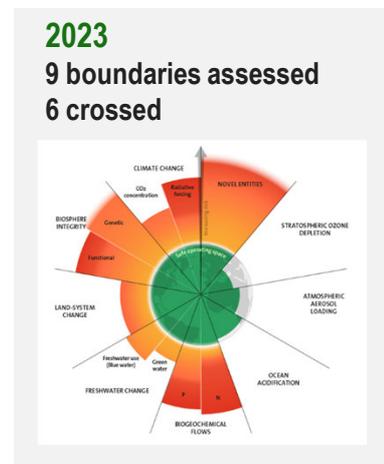
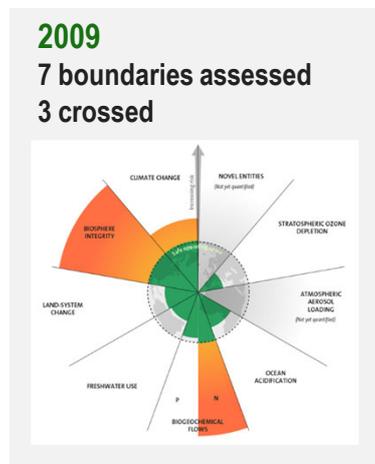
Freshwater use

Novel entities

Land system change

■ "safe" state within the boundaries

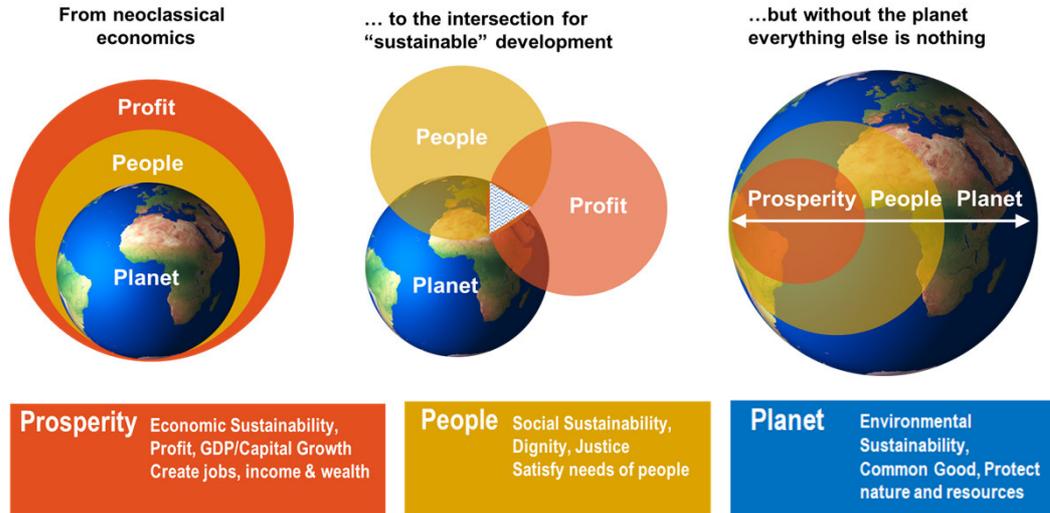
■ "overshoot" of boundaries



www.stockholmresilience.org/research/planetary-boundaries



Juggling with sustainability ... our long way to planetary thinking



The "Great Transformation" towards a sustainable world

Business as usual
"More of the same but better"

Increased economic and environmental efficiency, social improvements

Reforms
Structural change within existing systems

Regulatory innovations, Restructuring production, use of renewables

Transformation means a new food system following other paradigms, values and ways of living

UN 2023 "Transitioning to a net-zero world is one of the greatest challenges humankind has faced. It calls for nothing less than a complete transformation of how we produce, consume, and move about."

A world without hunger
No more fossil energy
Planetary boundaries observed



AFS Transformation – the greatest challenge ever

Poverty and hunger

- 828 million people suffer from hunger
- 3.1 billion cannot eat healthily
- 1.9 billion are overweight

Food losses and waste

- 25-30% of food is lost or wasted



Agrifood Systems' ecological footprint

- 23-42% of greenhouse gases
- 90% deforestation
- 86% loss of biodiversity
- 70% water use



Agricultural productivity reduced

Multiple crisis

- Climate, energy, COVID, wars

Socio-economic inequality

- 80% of agricultural produce in SSA and Asia produced by smallholders
- 70% of extremely poor people live in rural areas
- Only 15% of the world's landowners are women
- Income distribution frequently to the disadvantage of poor producers



Healthy diets for
10 billion people
with planetary
boundaries kept

EAT-Lancet Commission, 2019

Resilience to crises
linked to climate change,
conflicts, energy supply,
biodiversity loss ...



Dealing with the challenge

The powerful drivers that dominate the change of the AFS

...can be harnessed to change direction

The complexity of the AFS

... can be managed breaking it down to elements that can be understood and addressed

The intimidating scale of the great transformation we seek

...can be reduced to a level that can be tackled by people capable of collective action



Module 1 Scope of transformation

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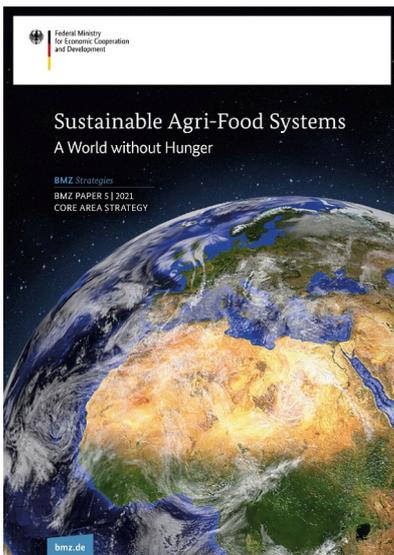
03 ValueLinks for Agrifood Systems



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BMZ Strategy



3 areas of intervention

- **Food and Nutrition Security**
"Measures in production, access to healthy food, nutrition interventions"
- **Rural Development**
"A territorial approach is at the core"
- **Agriculture**
"Strengthening, above all, sustainable agricultural value chains and food systems, ..., increase local value added, boost income and employment, protect the environment"

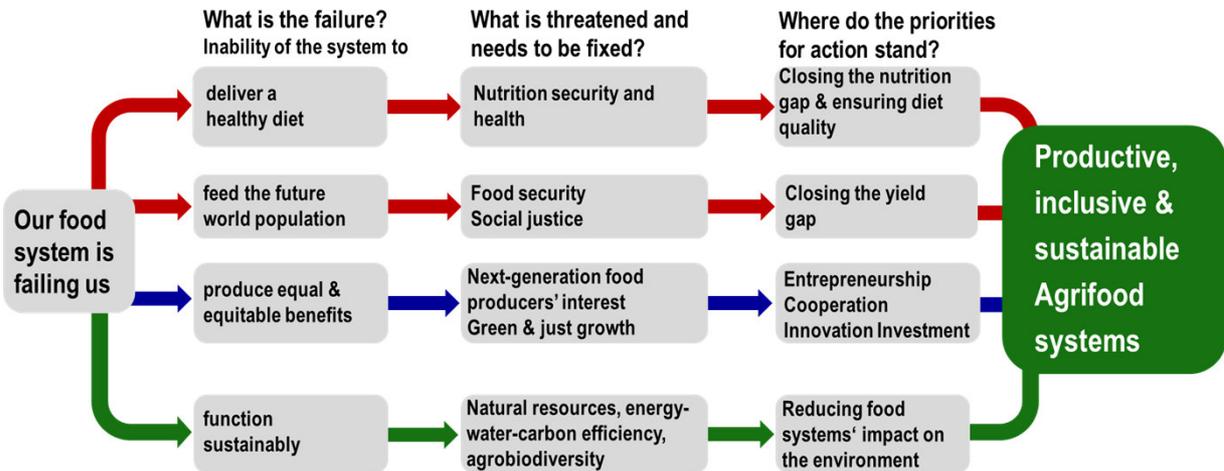


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brings narratives on agrifood systems together



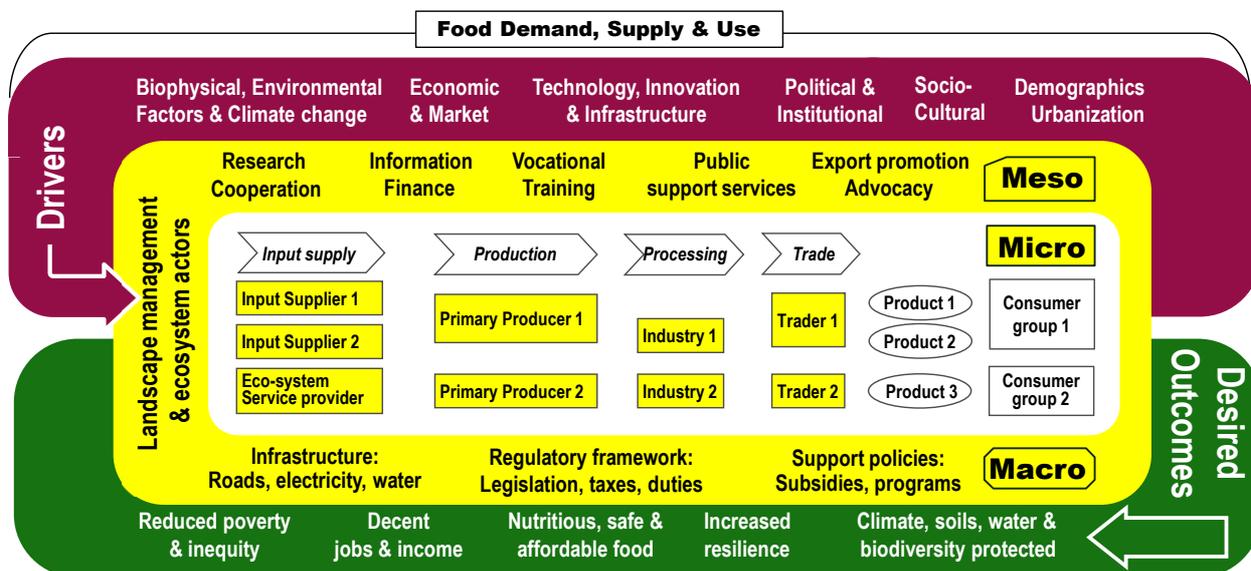
Based on Naeem, Lipton S., van Huysen Tim. 2021: Sustainable Food Production, p. 149

ValueLinks for Agrifood Systems: Success factors

- ✓ Value Links has been introduced in over 50 countries in Latin America, Africa, and Asia
- ✓ The majority of value chains tackled are part of agrifood systems
- ✓ ValueLinks works with actors who actually make transformation happen
 - ➔ Therefore the transformation horizon exceeds the lifetime of projects
- ✓ ValueLinks is systemic!
- ✓ Network of practitioners, trainers, consultants
- ✓ ...



ValueLinks for Agrifood Systems



ValueLinks for Agrifood Systems





Approach for transformation with private & public partners

1 Scope of transformation



- Understanding Agrifood Systems and their transformation
- ValueLinks for Agrifood Systems

2 Agrifood system analysis



- Agrifood systems analysis & VC mapping
- Environmental and climate analysis (PLANET)
- Social analysis (PEOPLE)
- Economic analysis (PROSPERITY)

3 Transformation strategy



- Transformation drivers and change agents
- Strategic considerations & transformative initiatives
- Desired outcomes and vision for transformation

Transformative Actions Menu
Modules 4 to 9



Transformative Actions for productive, inclusive & sustainable Agrifood Systems

Climate-smart approaches, reduce food losses, improve nutrition, mechanisation

Cooperatives, traceability, contract farming, market access

Climate-smart services, digitalisation, entrepreneurship training

Climate finance, carbon credit markets, weather/crop insurance

Food quality systems, food standards

Policy fields of AFS transformation, policy instruments & related incentives



4 Green & social business models



5 Reliable & fair business linkages



6 Services for innovation



7 Financing and insurance



8 Nutritious food & standards



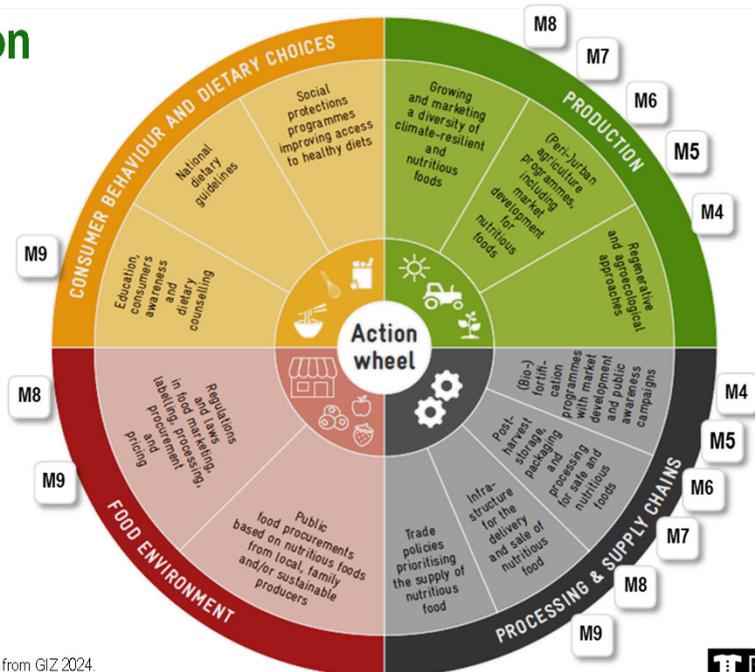
9 Policies for AFS transformation



Six solution modules

- M4** Green & social business models
- M5** Reliable & fair business linkages
- M6** Services for innovation & inclusion
- M7** Financing and insurance
- M8** Nutritious food & standards
- M9** Agrifood System Policies

50 good practice cases covering over 60 foods products



Source: Action wheel for healthy diets in food systems transformation from GIZ 2024. Entry points for transforming agricultural and food systems for healthy diets and improved nutrition for all



Conditions for using ValueLinks



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* With contributions from ValueLinks Association members

