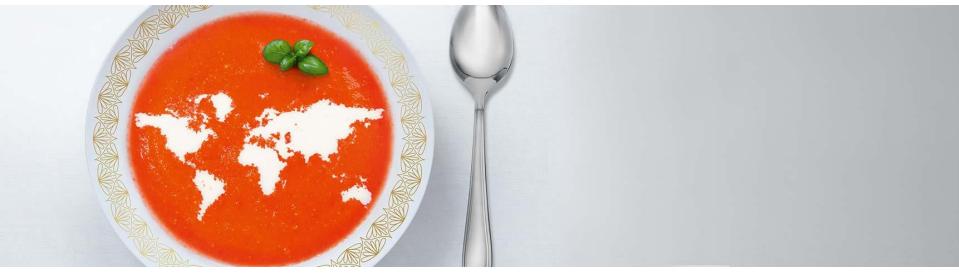
### Governance of food system transition in the EU: Roles for research and its interface with policy

Thom Achterbosch

Wageningen Economic Research





VLAG Graduate Course Healthy and sustainable diets: synergies and trade-offs, 28 June 2023

#### About me

#### Research

- Pathways to sustainable food systems and healthy diets
  - Global & EU food security
  - Economics of food systems transformation
  - Affordable healthy diets
  - Innovation systems

#### Uptake/societal impact

- Working with practitioners on applying hands-on food systems approaches
  - Food policy, national & municipalities
  - Innovation policy
  - Impact investment



### Global carbon footprint of my flexitarian plate





Source: Voedingscentrum

Photo Credit: eco-schools.nl

### Agenda for the session







EU FOOD POLICY UPDATE

SCIENCE FOR POLICY

**OPPORTUNITIES!** 



#### Farm to Fork













Make sure Europeans have access to healthy, affordable and sustainable food Tackle climate change

Protect the environment and preserve biodiversity Ensure a fair economic return in the supply chain

Increase organic farming

27 actions: new legislations, revisions of legislations, other voluntary actions (EU code of conduct for businesses)

Flagship: A new sustainable food system framework law



I am indebted to Anja de Cunto (Eurocities) for the policy update

### Establish a sustainable food system that:



- has neutral or positive environmental impact of food production:
  - preserving and restoring the land and sea-based resources;
  - mitigate climate change and adapt to its impact;
  - reversing the loss of biodiversity;



- ensures food security and public health:
  - Access for everyone to sufficient, nutritious, sustainable food;
  - high standards of safety and quality, plant health, animal health and welfare



- preserves the affordability of food, while (a.o.):
  - generating fairer economic returns & fostering the competitiveness sector
  - promoting fair trade
  - safeguarding occupational health and safety
  - ensuring integrity of the single market



Food security and food safety are cornerstones of our food system, and will never be compromised









### Adopted initiatives

- Contingency plan for ensuring food supply and food security
- F2F perspectives on Common Agricultural Policy strategic plans

Marked: Initiatives with consumer orientation



### Ongoing initiatives

- Food labelling initiatives
- EU level targets for food waste reduction
- Revision of the EU school scheme
- Revision of Food Contact Materials legislation
- Revision of the animal welfare legislation
- Revision of the feed additives legislation
- Revision of the EU promotion programme for agri- food products
- Revision of EU marketing standards for agricultural products
- EU Carbon farming, ....

# New framework legislation on a Union sustainable food system

#### **OVERARCHING OBJECTIVE:**

- Set the foundations for the systemic changes that are needed by all actors of the food system, including policy makers, business operators and consumers in order to accelerate the transition to a sustainable EU food system
- Promote policy coherence at EU and national level, mainstream sustainability in all food related policies and strengthen the resilience of food systems

Aim: Proposal by September 2023



SFS initiative

**General objectives** 

Common definitions

Common principles

### Minimum sustainability requirements

Increase sustainability of the EU food system and potentially globally and avoid negative externalities.

#### Sustainable Public procurement of food and catering services:

Promote healthy and sustainable diets in institutional catering and boost the demand for organic farming and organic aquaculture products

#### Provisions of sustainability information

Accelerate the transition to an EU sustainable food system by:

- Empowering consumers
- Incentivising food business operators

**Enforcement provisions** 

Governance provisions

Favourable food environment provisions

Horizontal elements

Measures addressing the supply and/or demand side of the market

Figure 1. "Building block" of the SFS initiative

#### Main elements

- Common definitions:
  - food system/ sustainable food system/ food environment/food system actors/sustainable diets
- General objectives to be pursued
- General principles targeting policy makers future and existing legislation will be aligned/adapted where relevant to those principles
- Governance provisions to frame and encourage multilevel engagement
- Favourable food environment' provisions
- Monitoring and enforcement provisions



### Sustainability requirements

			Requirements within FSFS			
Option 0	Option 1	Option 2	Option 3		on 4	Option 5
Do	Voluntary	Review and alignment of sectoral legislation through requirements,	Increasing compliance with sustainability standards by explicitly establishing the primary responsibility of	Elimination from the Union market of the least sustainable food systems operations/products by setting minimum sustainability requirements based on the 'do no harm principle'		A combination of options 2, 3 (primary responsibility) and 4 (sustainability requirement)
nothing		in line with FSFS objectives/principles	business operators (strengthened due diligence) for sustainability purposes	<b>4A</b> – Only products produced in the EU	4B – Products produced and placed in the EU (imports are covered in the scope)	The options are not mutually exclusive
The baseline is characterised by the "no policy change" scenario, where the current acquis would remain unchanged and all current measures and processes in the food system remain in force.	Voluntary approaches that go beyond legal requirements, such as policy guidelines and/or private initiatives such as codes of conducts. No legislative initiatives.	The FSFS will lay down a set of legally binding general principles and objectives applicable to the entire Food system, including public authorities in order to mainstream sustainability in all EU and national food system policies and ensure their coherence.  This can be achieved through the following mechanism:  Evaluation of existing vertical and sectoral legislation by [e.g. 2030] except those instruments reviewed under the F2F action plan;  Where needs are identified, operationalize these principles/objectives via detailed requirements laid down in thematic/sectoral legislation (existing or, where needed, new).	A general primary responsibility (strengthened due diligence) for business operators involved in the food system to ensure that their internal operations/ processes and/or products, within their businesses and under their control satisfy any sustainability-related requirements of EU/national law and to verify that such requirements are met.	Minimum sustainability requirements, based on the 'no harm' principle, requiring business operators to ensure that their operations on the EU territory and the food or feed that they are placing on the EU market do not significantly harm identified sustainability objectives, focusing on certain "non-negotiable" qualifiers around the three dimensions of sustainability.	Minimum sustainability requirements, based on the 'no harm' principle requiring business operators (EU and non EU) to ensure that their operations and the food or feed produced and placed on the EU market do not significantly harm identified sustainability objectives, focusing on certain "non-negotiable" qualifiers around the three dimensions of sustainability.	Cumulative 2,3 and 4.



### Sustainability label

		/			
	Option 1	Regulatory options			
Option 0		Option 2	Option 3	Option 4	
		Орион 2	New EU framework for sustainability labelling		
Do nothing	Voluntary	Reinforcing existing legislation	Optional EU sustainability label	Mandatory EU sustainability label	
Currently applicable EU food labelling legislation remains in force. Upcoming vertical sustainability dimension/compo nent specific labelling initiatives (e.g. front-of-pack nutrition labelling (nutrition), "green claims" (environment)) are adopted and implemented.	Voluntary approaches that go beyond legal requirements are developed by the Commission such as guidelines, and/or private commitments are incentivised such as memorandums of understanding or codes of conduct.	Sustainability labelling provisions related to more than one sustainability dimension (e.g. environmental + social sustainability) are developed in sector specific legislation.	1/ Development of an EU general framework for sustainability-related food information to consumers applicable to all foods (scope, definitions, objectives and principles/general rules), and  2/ Development of a voluntary harmonised EU sustainability label for EU and imported food products:  Sub-option 3a: voluntary label applicable only to food products of higher sustainability performance  Sub-option 3b: voluntary label applicable to all food products	1/ Development of an EU general framework for sustainability-related food information to consumers applicable to all foods (scope, definitions, objectives and principles/general rules, and  2/ Development of a mandatory harmonised EU sustainability label on EU and/or imported food products  • Sub-option 4a: label mandatory for all EU food products and voluntary for imported food products  • Sub-option 4b: mandatory label for all EU and imported food products	



Sustainable public procurement

Dastaniasie pasiie procurentente						
Option 0	Option 1	Regulatory options				
Οριίοπο		Option 2	Option 3			
Do nothing	Voluntary	General provisions and requirements aiming to raise awareness and improve skills and knowledge of SPP, capacity building and support authorities in using public procurement strategically	Mandatory general and specific requirements			
Maintain the baseline, implementation of the Directive 2014/24/EU on public procurement, and the use of the current Commission guidance documents:  • EU Green Public Procurement (GPP) criteria for food, catering services and vending machines  • Buying Social – a guide to taking account of social considerations in public procurement	Extend current guidance on Green Public Procurement (GPP) to cover the three dimensions of sustainability, and in particular healthy diets. No legislative action foreseen	<ul> <li>Extend the European Commission e-competence centre with tools and information to help public buyers with sustainable public food procurement</li> <li>Establish an EU network of food procurement professionals;</li> <li>Create centralized MS focal points</li> <li>Require MS to set up national actions plans</li> </ul>	<ul> <li>Introduction of a general mandatory requirement of procuring sustainably with a clear reference to the environmental, social-health and economic dimension of sustainability of food products and some related operations;</li> <li>Empowerment to the Commission to adopt delegated/implementing acts to specify SPP criteria</li> <li>Providing for the setting of national minimum (mandatory) targets with timelines as part of national actions plans.</li> </ul>			



#### SFS framework law - Governance

#### Provide a frame for a multi level cooperation of food system actors

Laying down appropriate processes and arrangements to enhance, and frame multi level cooperation,
 engagement and public participation both at EU, MS and regional or local levels

#### Provide a basis for the development of food sustainability strategies by member states (MS)

- Introduction of provisions requiring or recommending MS to develop plans to meet certain identified goals/objectives set out in the SFS or nationally set (quantified) goals in specific areas
- National Strategies should be regularly reviewed
- MS performance would be monitored via a monitoring framework with key indicators for the food system, the main features of which could be laid down in the FSFS



#### Impact assessment on SFS law

- Unsustainability of current EU food system
- Justify the need for EU intervention
- > need for a horizontal framework and provide common basis for action
- Feasibility of change with current crises
- Analysis of policy options and their impact
- Overall very positive



#### Agenda for the session



EU FOOD POLICY UPDATE



SCIENCE FOR POLICY



NEEDS & OPPORTUNITIES!



# <u>ALL food agents</u> need to work on <u>systems</u> <u>transition</u> simultaneously

e.g. Consumer-centric pathways	Options for improvement
1- Improve product composition	<ul> <li>Reformulation less sodium, sat fat.</li> <li>Oven baked instead of deep fry</li> </ul>
2- Efficient value chains for improving sustainability of supply	<ul> <li>Reduce carbon/land/water/energy footprint. Increase feed conversion</li> </ul>
3- Substitute un-healthy or un- sustainable options in food supply	<ul> <li>-&gt; Alternative protein, slavery-free chocolate, deforestation-free soya</li> </ul>
4- Change portion sizes	<ul> <li>Consumer less and/or consume more on value or quality.</li> </ul>
5- Change meal choice (e.g. more plant food)	<ul><li>-&gt; Vegetarian options, seasonal consumption</li></ul>



### Instruments: patchy evidence on consumeroriented policies to achieve required diet shifts

	Intervention		Effectiveness - Evidence of diet change	Model instrument
	Information campaigns		small <sup>1</sup> +18g F&V <sup>2</sup> absent for short intervention <sup>3</sup>	Preference shifters
noice	Compulsory information on products		mixed <sup>1</sup> +10g F&V/ -0.4% fat <sup>2</sup> uncertain <sup>3</sup>	
umerc	Food advertising regulations		uncertain¹ +0.4% fat² weak but positive³	
n of co	Ensuring choice availability (e.g. at school)		suggestive <sup>1</sup> +38g F&V/ -1.6% fat <sup>2</sup> effective <sup>3</sup>	
	axes and subsidies		suggestive <sup>1</sup> +8.6g F&V/ -0.8% fat <sup>2</sup> effective but intrusive <sup>3</sup> likely effective <sup>4</sup>	Taxes and subsidies
L.	Restricting/ eliminating choice	_	seems effective but no size of evidence <sup>3</sup>	Production/ trade quota

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j.gfs.2020.100437

Latka et al. 10.1016/

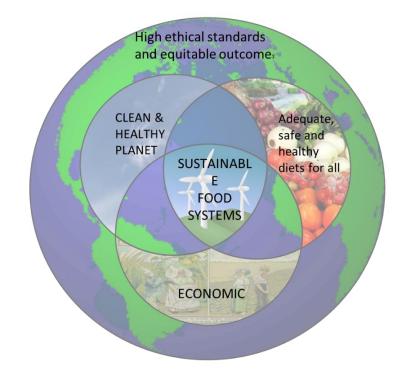
### Food as a <u>system</u>

Outcomes

Connections

Rigidities & feedback loops

Actions

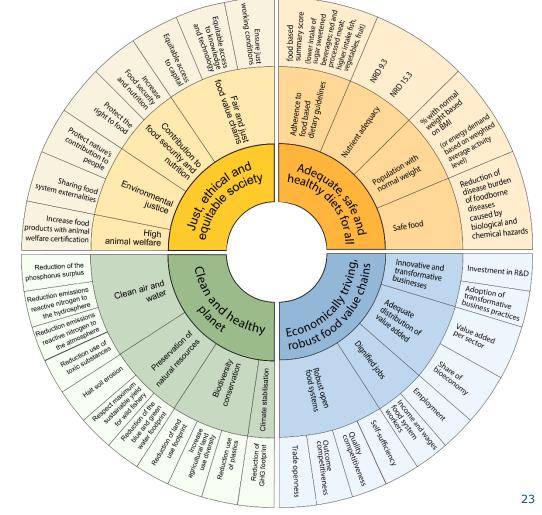




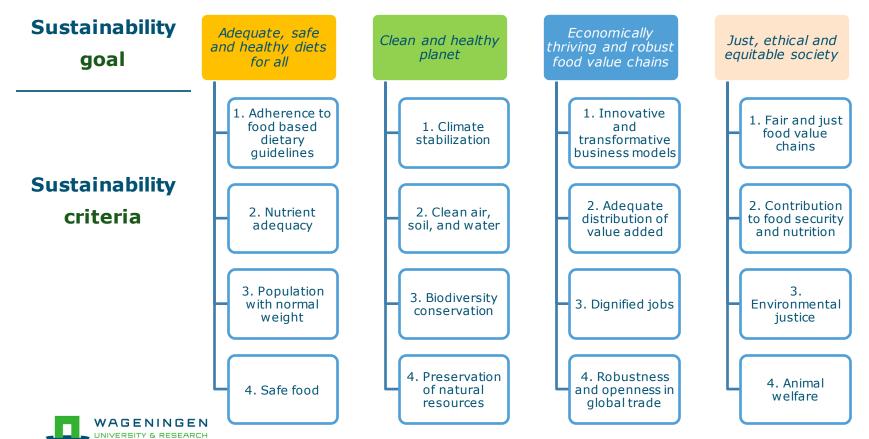
# **Policy compass** for a sustainable food system

- Outcomes on 4 goals
  - Healthy people
  - Healthy planet
  - Vibrant economy
  - Social justice
- Global, EU, country, (city) region





#### Detail: Compass for sustainable food systems



### Roles of Research and Innovation (R&I) in food systems

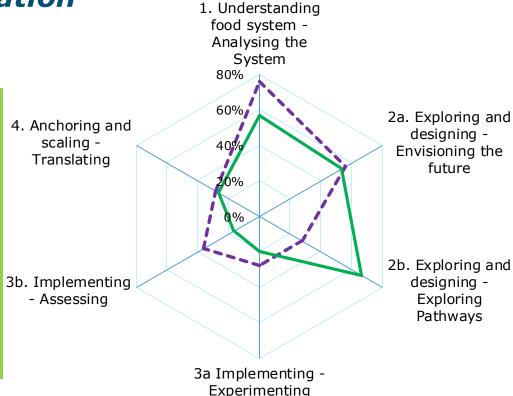
transformation

And reorient from:

assessing innovations

To:

Experimentation of innovations, studying anchoring and scaling



Reorient R&I from:

analysing
systems... and
exploring
pathways ...

To:

designing possible futures

Review of FOOD of 60+ cases of food systems research Achterbosch et al. <u>EC report</u>



-- Cases not self-identified as food systems approach

Cases self-identified as food systems approach

# Knowledge and Innovation system for FOod system transformation (FOKIS)

- Fostering structural network relations around food system transformation, among research, government, business, civil society/citizens
- Develop the European Research Area for food systems for interdisciplinary systems research
- Provide policy incentives for economic actors, scientists, civil society, government, to collaborate on mission-oriented research to develop food systems transformation.





#### Agenda for the session







SCIENCE FOR POLICY



NEEDS & OPPORTUNITIES!



# Join The Sustainable Food Systems Network



a virtual platform where actors interested in the transformation of European food systems can connect, interact and inspire each other

#### RRI in a nutshell

Responsible Research and Innovation is:

- Involving society in science and innovation 'very upstream' in the processes of R&I to align its outcomes with the values of society.
- A wide umbrella connecting different aspects of the relationship between R&I and society: public engagement, open access, gender
  equality, science education, ethics, and governance.
- A cross-cutting issue in Horizon 2020, the EU Programme for Research and Innovation 2014-2020.









PARTNERSHIP ON SAFE AND SUSTAINABLE FOOD SYSTEMS FOR PEOPLE, PLANET AND CLIMATE





Thom Achterbosch

www.wur.nl

www.susfans.eu





### Candidate HE Partnership: Sustainable Food Systems for People, Planet and Climate

Collaborative EU-wide research & innovation on transition to sustainable food systems:

'The future health of Europe's people and the planet lies on our plate'

**Duration: 2024-2033** 

Budget estimate: EUR 525 million incl. 30% EU cofunding

Since 2020 under preparation. Process initiated by SCAR Food systems SWG and European Commission. Expected start in 2024.

#### PSFS Vision, Mission, Objectives

#### **MISSION**

#### to mobilize

Research and Innovation (R&I) to accelerate the transition towards Sustainable **Food Systems** with a wide range of actors, who are joining forces in PSFS

SO1
Change the way
we eat

SO2
Change the way we process and supply food

SO3
Change the way
we connect in
food systems

SO4
Change the way
we govern food
systems

#### GO1

<u>Understand</u> what SFS are, how they function and how to enable their development

#### GO2

Demonstrate that the partnerships 'systemic approach' functions as a catalyst to jointly transform FS into SFS

#### GO3

Ensure that the Partnership contributes to SFS via frameworks and evidence-supporting policy options for EC objectives in Farm to Fork Strategy, Missions, Green Deal and the UN-SDGs

#### GO4

<u>Co-create</u> with various actors in a diversity of Living Labs to develop SFS concepts





#### Component: Food systems observatory

A process of transition in the EU will benefit from information on the sustainability performance of food systems:

at different timelines... for different activities and outcomes and different geographical scales



Objective: Reflexive monitoring on the transition to Sustainable Food Systems in Europe for the purpose of food policy design and planning of mission-oriented R&I actions.



# WP5 Objectives / Tasks (combined in-kind and open calls)

### Task 5.1 – Mapping of existing monitoring activities (BLE)

- Indicators and metrics for food systems (FS) transition
- Data ecosystems and capabilities

# Task 5.2 – Methods and protocols for combining and harmonizing data for a coherent State of the Food Systems Transition (CREA-AN)

- Participatory and quantitative methods
- Practices in food business, consumption, waste, etc.

### Task 5.3 – New forms of monitoring on FS transition in in the EU (WR)

- Piloting primary data collection in sentinel sites (incl linked to Living Labs)
- Data consolidation and analysis



### Task 5.4 –Decision support and infrastructures for consolidating and using data (JSI & LW-ERIC)

- Data management & research infrastructures
- Decision support system

### Task 5.5 – Providing foresight and deliberation on potential future policy targets for SFS

- Indicators on critical drivers of transitions
- Foresight on evidence-based SFS policy targets

#### Task 5.6 – Delivering a State of the Food Systems Transition assessment report in year 2, 5, 8, 10

• Science for policy interface (with other WPs)

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PARTNERSHIP ON SAFE AND SUSTAINABLE FOOD SYSTEMS FOR PEOPLE, PLANET AND CLIMATE



### Thank you for your attention



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