

Towards the Sustainable Food Systems Partnership for People, Planet & Climate

Preparatory steps: SRIA and
CSA « FOODPathS »*

17/06/2022

SUSFOOD Final Event

Hugo de Vries, INRAE, FR

and many others involved

* The CSA project FOODPathS receives funding from the European Union's Horizon Europe research and innovation program under Grant Agreement No 101059497'.

SCAR
Standing Committee
on Agricultural Research



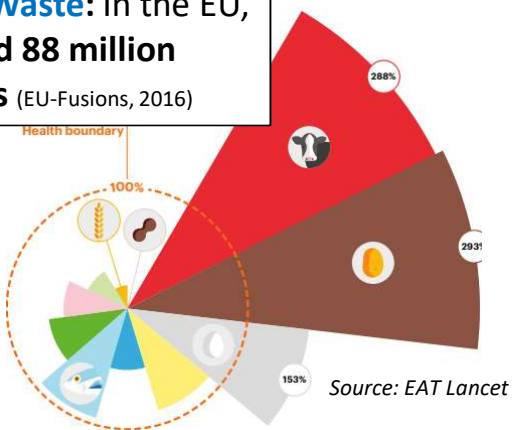
Story line

NEEDS

Stockholm
Resilience
Center;



Food Waste: In the EU,
around 88 million
tonnes (EU-Fusions, 2016)



Source: EAT Lancet

EU: **Obesity:** ~15%; **Overweight:** ~50%;
G. Brunori, SCAR SW FS, figures of 2017

EVIDENCE



ACTIONS



<https://scar-europe.org/index.php/food-main-actions/food-systems-partnership>

https://ec.europa.eu/info/files/european-partnership-safe-and-sustainable-food-system-people-planet-climate_en

Since 2019: numerous workshops
June 2021 – Narrative & Fact sheet
April 2022 – TEMPLATE
Autumn 2022 – SRIA

What is the Partnership SFS about?

- To collectively develop and implement an EU-wide mission-oriented R&I partnership
- To accelerate the transition toward safe and healthy diets, that are sustainably produced in resilient EU and global food systems'



There is no one “silver bullet”

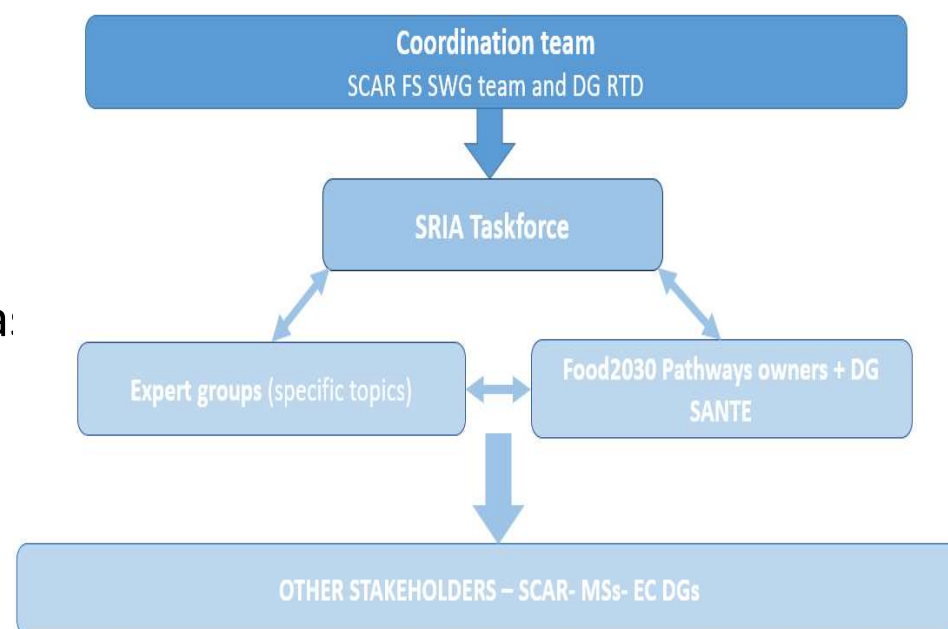
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*develop systems approaches &
understanding the complexity of SFS*

Planned activities in SRIA process

- Basis for the SRIA comes from the **template**
- Developing **intervention logic** and **impact pathways**
- First elaborating:
 - The **Problem Description & Vision** (challenges, specific objectives and expected outcomes)
 - **A Food System Approach** (incl. Food System lens for considering all themes)
 - Understanding the **Complexity of Food Systems**
- Second, elaborating the **8 Focus Areas**
- Aligning FS partnership with other **relevant partnerships**
- Encourage MS to establish FS Partnership **mirror group** in their countries
- **MS consultations**

- **Coordination team** - SRIA process coordination
- **SRIA Task force** - 9 people involved in SRIA Preparation, in charge of specific SRIA “focus areas” and consulting the relevant experts
- **Expert Groups: 2nd circle of experts** – experts will be contacted to co-develop the R&I Thematic area and interconnected activities; to improve and strengthen specific topics (incl. members of Template Core Group).
- **Experts in 3rd circle:** open
- **Food2030 Pathway Owners + DG Santé:** regular exchange
- Consultation with **SCAR FS SWG members & MSs**



Intervention Logic for Sustainable Food Systems Partnership (SFS)

Impact (what we like to achieve)			
A European Sustainable food system in 2050 and beyond based on inter-connected, territorialized, Sustainable Food Systems (being fair, safe, healthy, biodiverse, ..)			
Outcomes:			
EU-wide functioning Partnership, based on collective and inclusive actions, providing the knowledge base for realizing European SFS Policies			
Strong foundation for a European SFS Research Area, connected to global initiatives, with harmonized EU-wide policies and regulations, while respecting locally diverse contexts			
General objective ('we like to'):			
Understand <u>what SFS are</u> , how they function and how to enable their development;			
Demonstrate that the partnership ' <u>systemic approach</u> ' functions as a <u>catalyst</u> – for many FS actors – to jointly transform FS into SFS (also beyond the lifetime of the Partnership);			
Ensure that the <u>well-governed Partnership</u> contributes to SFS via frameworks and evidence-supporting policy options for EC objectives in F2F, missions, Green Deal and the UN-SDGs;			
Co-create with various actors in a diversity of Living Labs to develop SFS concepts.			
Specific objectives (leading to concrete outputs / results):			
i. Deepen insights in SFS research and innovation in particular in 4 thematic areas, all considered from a FS lens and supporting transition through Living Labs;			
ii. Develop an innovative, systems approach that change our way of collaborative working in RIPE activities;			
iii. Establish a vibrant epistemic community based on common rules, joint activities, and pooled resources that works together with related Partnerships.			
R&I&P&E Activities (R= research, I=Innovation, P = science-policy interface, E = education)			
Thematic Activity Area 1: <u>Change the way we eat:</u> Transition to healthy & sustainable diets everywhere: shifting to dietary patterns and sustainable consumption of safe, healthy, nutritious, affordable, accessible, equitable and culturally acceptable foods while tackling malnutrition in all its forms and promoting health.	Thematic Activity Area 2: <u>Change the way we process and supply food:</u> supply-side innovation towards carbon neutrality and circularity, reorienting the food environment	Thematic Activity Area 3: <u>Change the way we connect with food systems:</u> Citizen engagement and consumer trust in reoriented food systems	Thematic Activity Area 4: <u>Change the way we govern food systems:</u> Leverage points for local, national, EU and global transition pathways, co-creation, including private ones like F2F code of conduct & local initiatives (e.g. cities)
Transversal Activities			
Transversal Activity A: <u>Pooling R&I resources and programming.</u> Joint transnational R&I support via project funding and alignment of funding priorities and mechanisms enabling multi-actor and systems approaches	Transversal Activity B: <u>Launching a Food systems observatory</u> Platform for sharing metrics, data and assessments on the sustainability performance of food systems	Transversal Activity C: <u>Establishing a FS Knowledge Hub</u> for complex FS, transformative research and FS-labs on systemic innovations at different scales (using a 'vitrine' for demo's)	Transversal Activity D: <u>Knowledge sharing, and scaling</u> Adapting knowledge systems, innovation & demo platforms and science-policy interfaces for ensuring impact
Process cycle (for all Activity Areas)			
Foresighting & planning (strategy & portfolio management), acting and developing (collaborative activities in FS labs), monitoring (via KPI's), analysing and assessing, learning and deliberating, sharing and scaling, feeding back and adapting (the cycle of activities in different contexts), Impacting and strengthening (ERA)			
Contributions to EU Policies & International Initiatives, like			
Farm to Fork Strategy, Green Deal; Common Agricultural Policy / Common Fisheries Policy; Bilateral & Global Trade Policies; Circular Economy action plan, Blue Economy; Sustainable Aquaculture; Biodiversity Strategy; Single market for Green Products; Europe's Digital Decade; 2030 Climate Target Plan; Waste Framework Directive; Bioeconomy Strategy and Action Plan; Zero pollution action plan; Food2030; Open Science Policy, FAO/WHO ICN2 Rome Declaration & Framework for Action (FfA) 2014; 2030 Agenda for sustainable development & SDG, 2015; United Nations (UN) Decade of Action on Nutrition 2016-2025; EC-HLEG- International Platform for Food Systems Science (IPFSS) in food systems transformation 2022.			

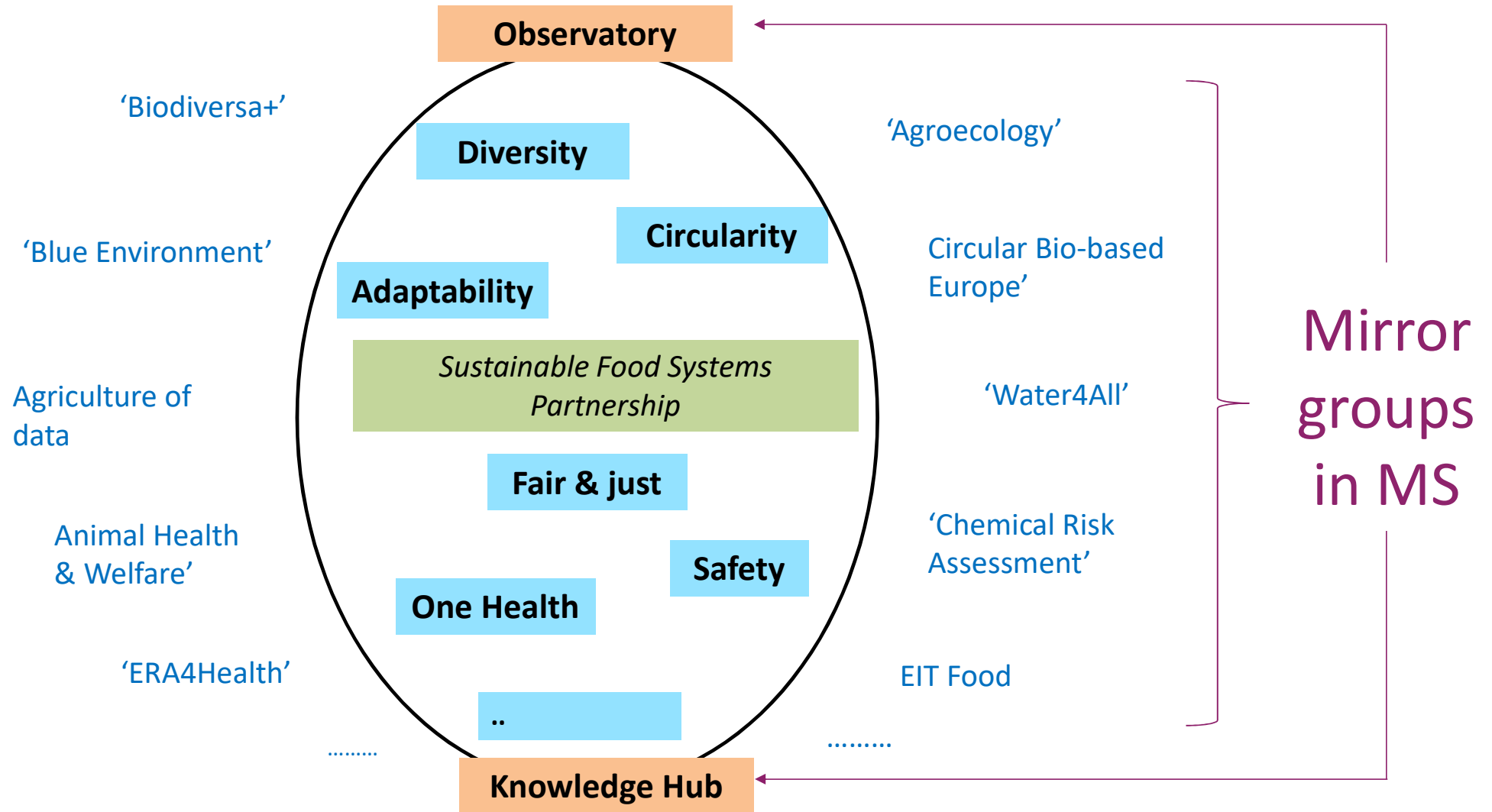
Intervention Logic for Sustainable Food Systems Partnership (SFS)

Impact			
A European Sustainable food system in 2050 and beyond based on inter-connected, territorialized, Sustainable Food Systems (being fair, safe, healthy, biodiverse, ..)			
Outcomes: EU-wide functioning Partnership to realize European SFS Policies; Strong foundation for a globally connected, EU-wide and locally specific SFS Research Area			
General objective ('we like to'): <ul style="list-style-type: none"> ➤ Understand what SFS are; ➤ Co-create SFS concepts in Living Labs; ➤ Work with a functioning 'systemic approach'; ➤ Ensure evidence for policy options thanks to an inclusive governance model. 			
Specific objectives (leading to concrete outputs / results): <ul style="list-style-type: none"> ❖ Deepen insights in 4-interconnected thematic activity areas; ❖ Develop a food systems approach for R&I&Science-Policy-Education activities; ❖ A vibrant epistemic Partnership with common rules, joint activities, and pooled resources 			
R&I&P&E Activities (R= research, I=Innovation, P = science-policy interface, E = education)			
Thematic Activity Area 1: <u>Change the way we eat:</u> Transition to healthy & sustainable diets everywhere.	Thematic Activity Area 2: <u>Change the way we process and supply food:</u> resources efficiency, diversity and circularity	Thematic Activity Area 3: <u>Change the way we connect with food systems:</u> Citizen engagement and consumer trust in FS of the future	Thematic Activity Area 4: <u>Change the way we govern food systems:</u> multi-level transition pathways & policies, co-creation, code of conducts
Transversal Activities			
Transversal Activity A: <u>Pooling R&I resources and programming.</u> Transnational R&I project funding, aligned priorities & mechanisms.	Transversal Activity B: <u>Launching a Food systems observatory:</u> sharing metrics, data and assessments of performance	Transversal Activity C: <u>Establishing a FS Knowledge Hub</u> of connected FS-labs targeting systemic R&I projects at different scales	Transversal Activity D: <u>Knowledge sharing, and scaling:</u> Adapting knowledge systems, and science-policy interfaces for ensuring impact
Process cycle (for all Activity Areas): Foresighting & strategy planning, managing portfolio's, monitoring (via KPI's), analysing and assessing, learning and deliberating, adapting, sharing and scaling, impacting and strengthening (ERA)			
Contribute to EU Policies & International Initiatives, like Farm to Fork Strategy, Green Deal; CAP, CFP, BE & CE action plans, Trade policies, Biodiversity Strategy; Europe's Digital Decade; 2030 Climate Target Plan; Waste Framework Directive; Zero pollution action plan; Food2030; Open Science Policy, UN/ FAO/WHO/U Agenda's for sustainable development, SDG, and nutrition.			

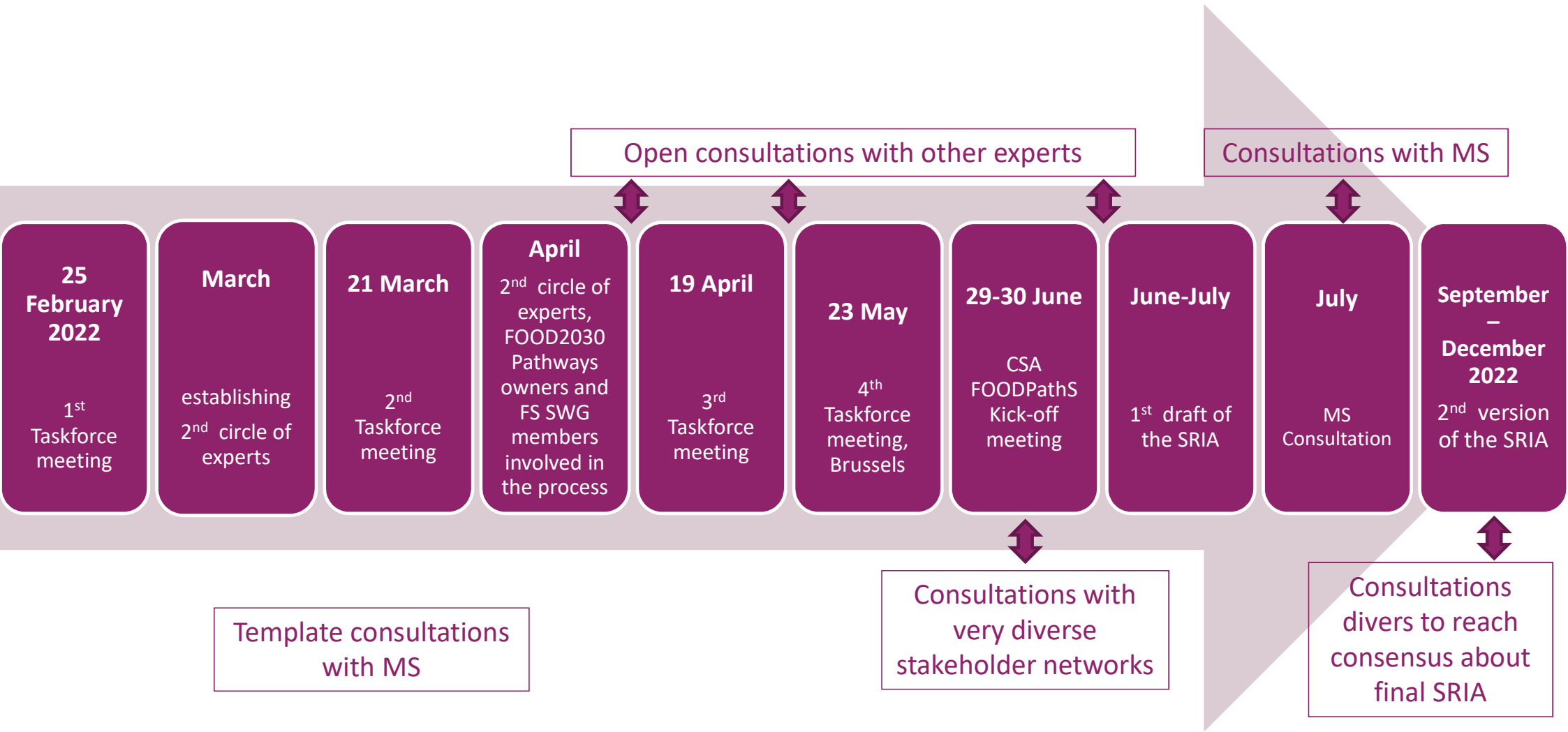
Task Force members and SRIA content

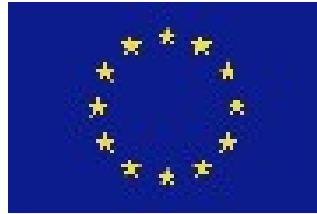
Focus Area (F.A)	Title All topics considered from a systems approach	Key Issues	SRIA Taskforce (with one representative per F.A)	Country
R&I 1	Change the way we eat	Safe, healthy and sustainable food are standard in the food environment, enabling dietary shifts	Mirjana Gurinovic	RS
R&I 2	Change the way we process and supply food	supply-side innovation towards carbon neutrality and circularity, reorienting the food environment	Hugo de Vries	FR
R&I 3	Change the way we connect with food systems	Citizen engagement and consumer trust in reoriented food systems	Niels Halberg	DK
R&I 4	Change the way we govern food systems	Leverage points for local, national, EU and global transition pathways - incentives and co-creation	Gianluca Brunori	IT
Activity 1	Pooling R&I resources and programming	Joint calls, joint Programming, and strategic research and innovation agendas (SRIA)	Nikola Hassan	DE
Activity 2	Launching a Food systems observatory	Platform for sharing metrics, data and assessments on the sustainability performance of food systems	Thom Achterbosch	NL
Activity 3	Establishing a Food systems knowledge hub	Network of transformative research and innovation labs (FS-labs) on systemic innovations at different scale	Jonas Lazaro-Mojica	
Activity 4	Knowledge sharing and scaling	Adapting knowledge systems, innovation platforms and science-policy interfaces for ensuring impact	Minna Huttunen	FI

FS is too broad to cover in one Partnership SFS:
interactions with other Partnerships needed & MS mirror groups:



Timeline





CSA Project 'Co-creating the **Prototype** 'Sustainable FOOD Systems PArTnersHip' (FOODPathS)

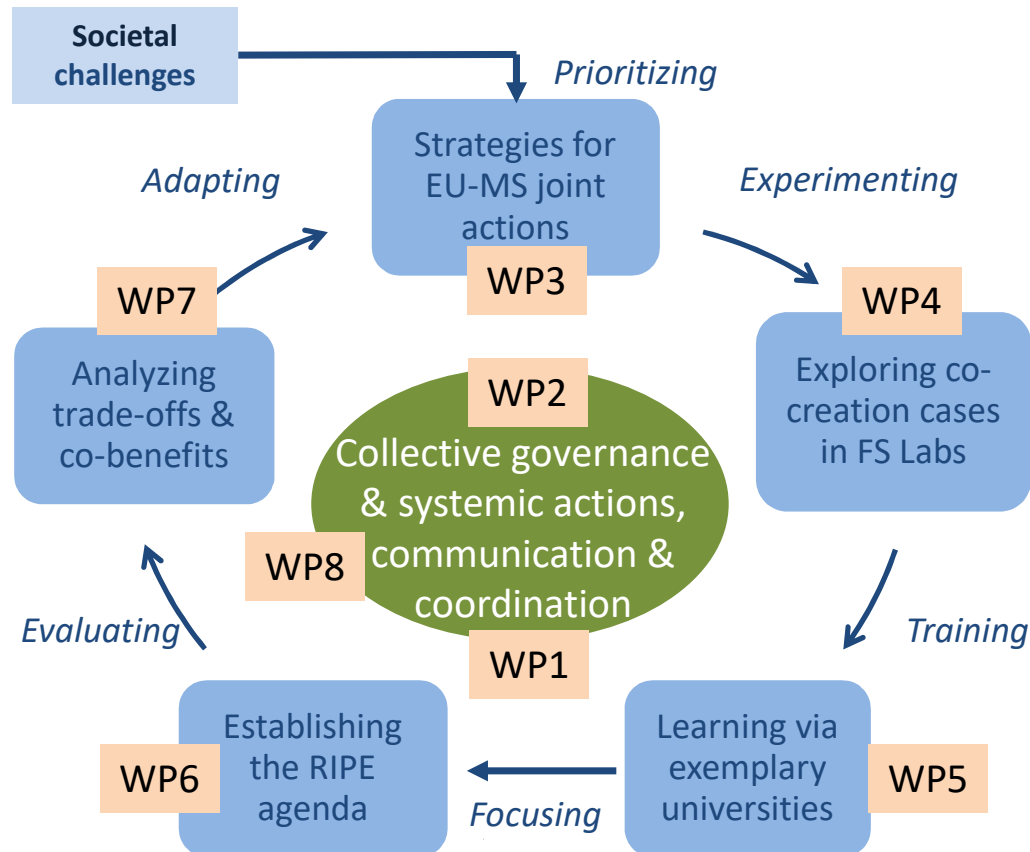
- European Project no. 101059497
- Call topic: 'HORIZON-CL6-2021-GOVERNANCE-01-03 'Preparatory action for the HE Food Systems Partnership'.
- Duration: 3.5 year (foreseen: 1.5 years overlap with start of partnership)
- 17 partners representing 18 networks (local, regional, national, European, global, public-private, philanthropic, research, education, innovation, communication, management)
- Budget: 4.9 M€
- Kick-off: June, 1st 2022

A network of networks



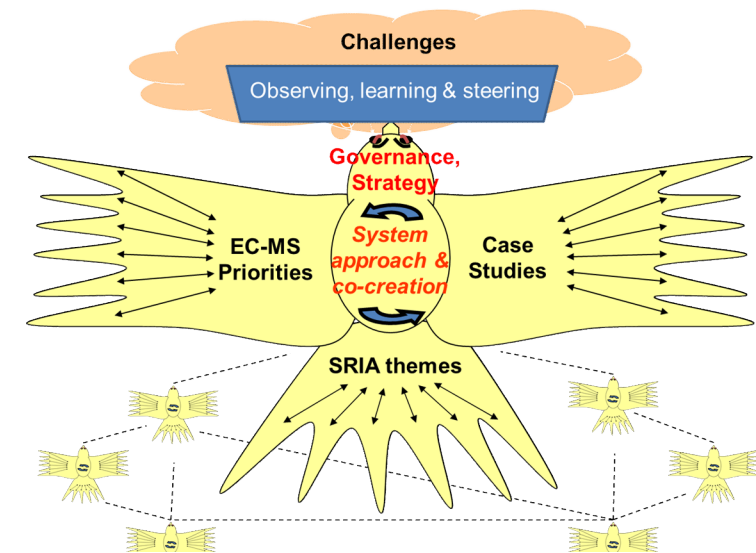
The Work Packages in FOODPathS:

Please note that the CSA functions as a system itself



Governance model orientation: *Gaps to be addressed by CSA*

- **Common co-funding food strategy**, while respecting local food cultures & needs
- **Coordination** between the EC and national programs related to food, across all levels (global, European, national, regional, local-community);
- **Effective networking** across the food value chain across Europe (in particular SME's, and local food ecosystems / public-private partnerships);
- **Market uptake of R&I** (with EIT Food now operational);
- **Current food surveillance systems** (under-equipped);
- **Citizen's access** to information & participatory trajectories
- **Food Systems knowledge & approach** (inter-disciplinarity and trans-disciplinarity)



Adapted from Figure 1 CSA FOODPathS project

FS Approaches and Existing FS concepts

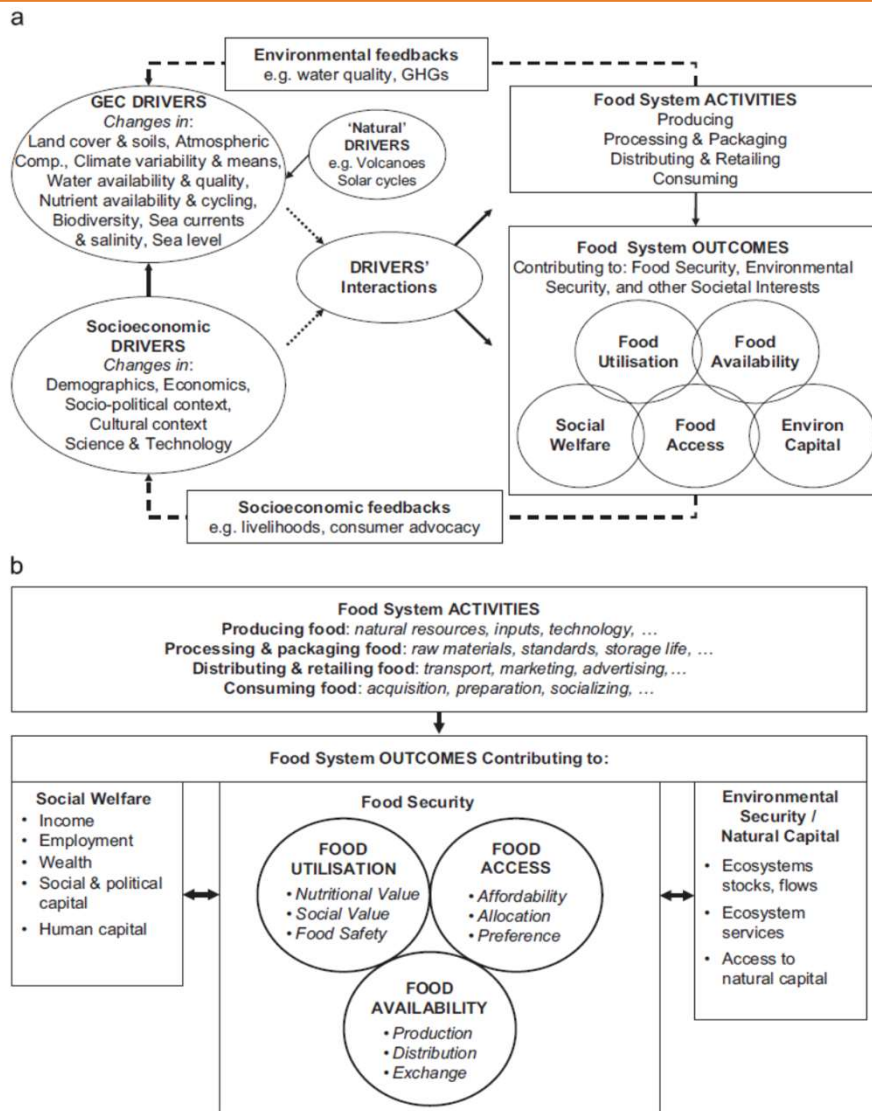
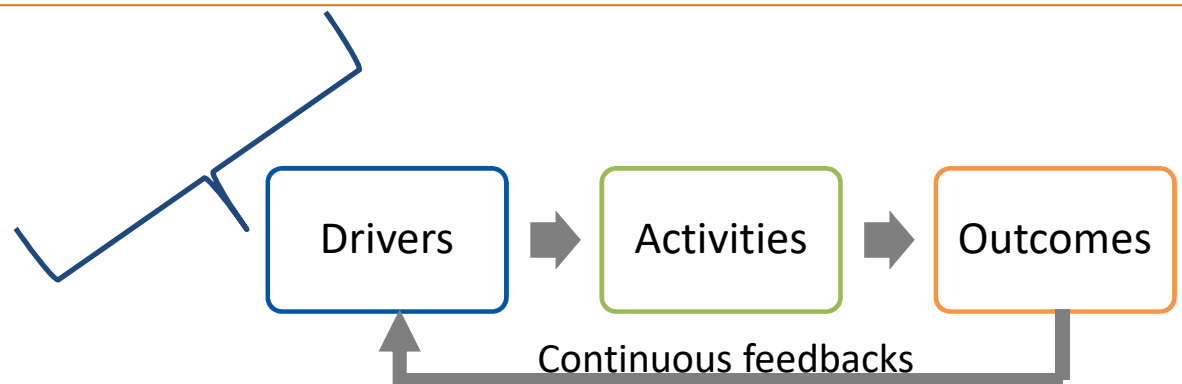
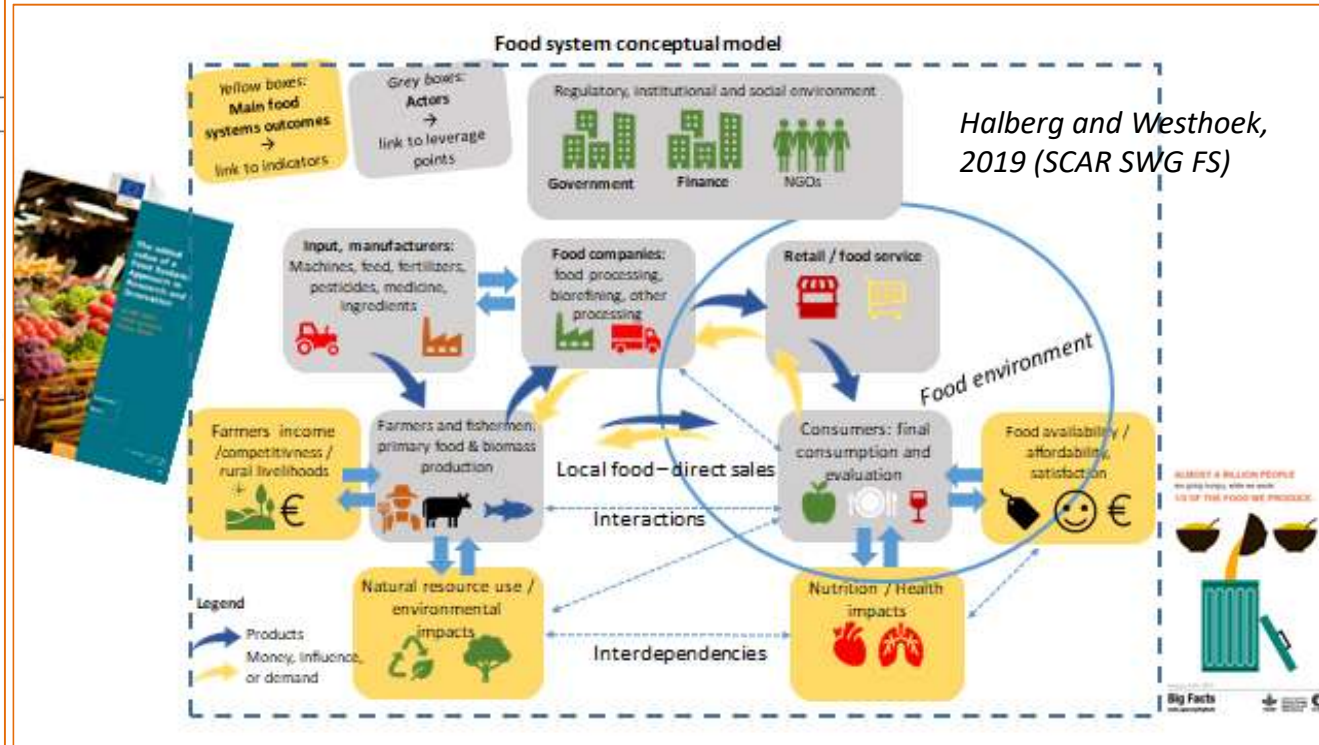
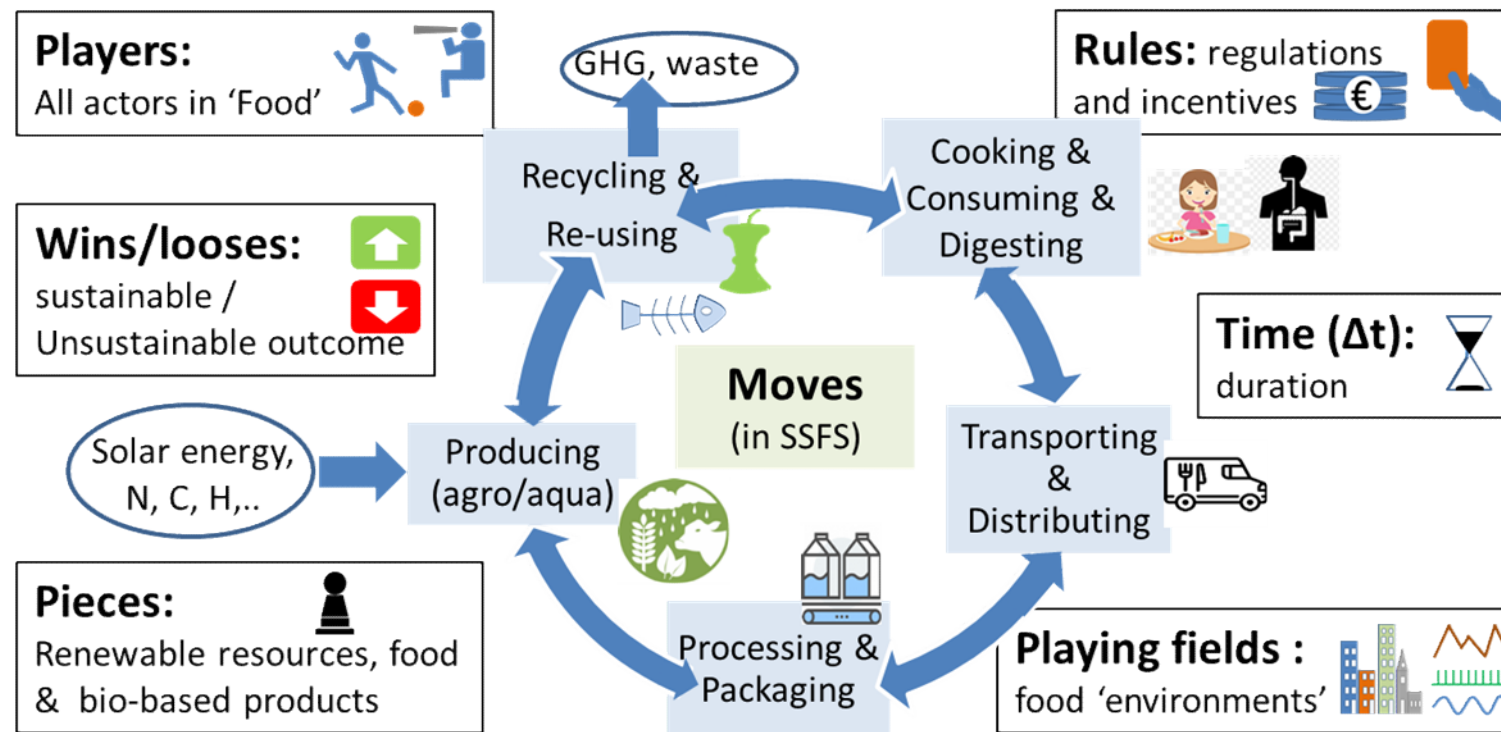


Fig. 1. (a) Food systems and their drivers. (b) Components of food systems.

Ericksen, P., 2008 (Oxford)



Understanding the complexity of FS, by identifying their main building blocks (simplifying)

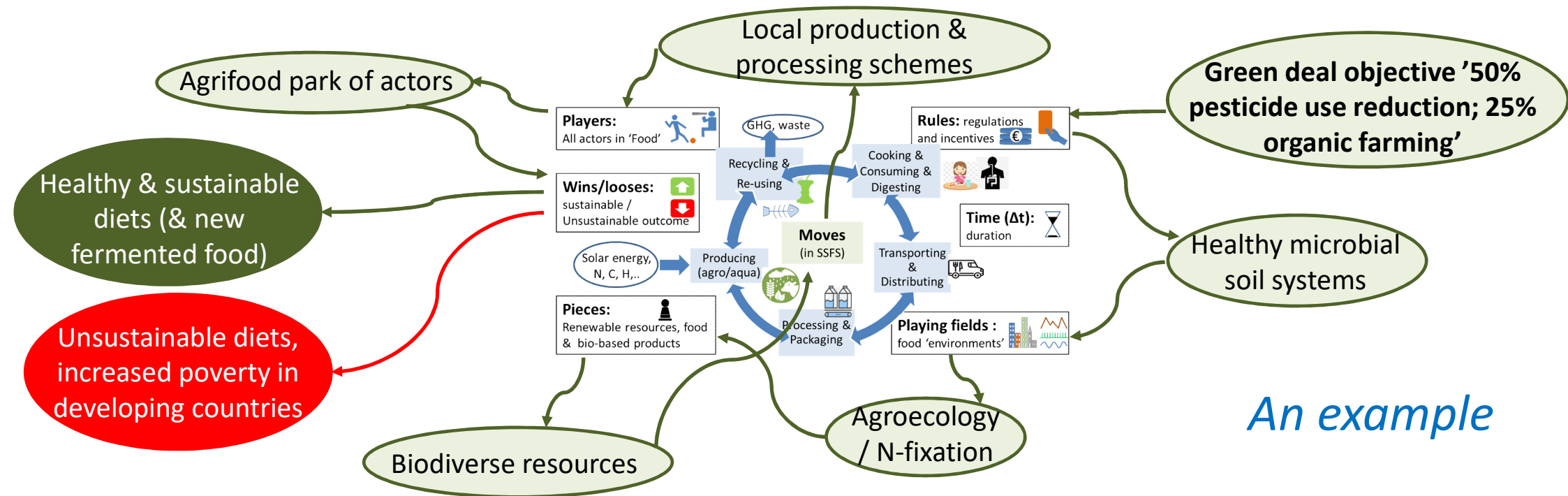


Modified from: de Vries, Donner, Axelos 2022 in *TIFS*, :
<https://doi.org/10.1016/j.tifs.2022.03.027>

E.g. how is the protein transition impacting each building block? Or new fermented products from co-products?

Main questions, co-benefits & trade-off considerations:

- What is the impact of an external trigger (stress, leverage point, stated aim, ..) ?



An example

- Will it destabilise the entire system and how ('avalanches' & 'butterfly effect' & **trade-offs**)?
- Will systems be sufficiently resilient to withstand and how to adapt?
- Will systems be capable of learning and evolving?
- How should FS transform themselves to evolve sustainably, globally - locally?

SRIA Focus areas, according to narrative groups:

Vertical

TF1 – CHANGE THE WAY WE EAT

**TF2 – CHANGE THE WAY WE PROCESS
AND SUPPLY**

**TF3 – CHANGE THE WAY WE CONNECT
CITIZENS AND FOOD PRODUCTION**

**TF4 – CHANGE THE WAY WE GOVERN
THE FOOD SYSTEMS**

Horizontal

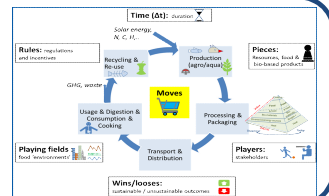
TF5 – CO-FUND PROCESS

**TF6 – FS OBSERVATORY, DATA,
METHODS**

**TF7 – FS KNOWLEDGE HUB OF HUBS,
CO-CREATION**

**TF8 – SCIENCE TO POLICY AND VICE-
VERSA**

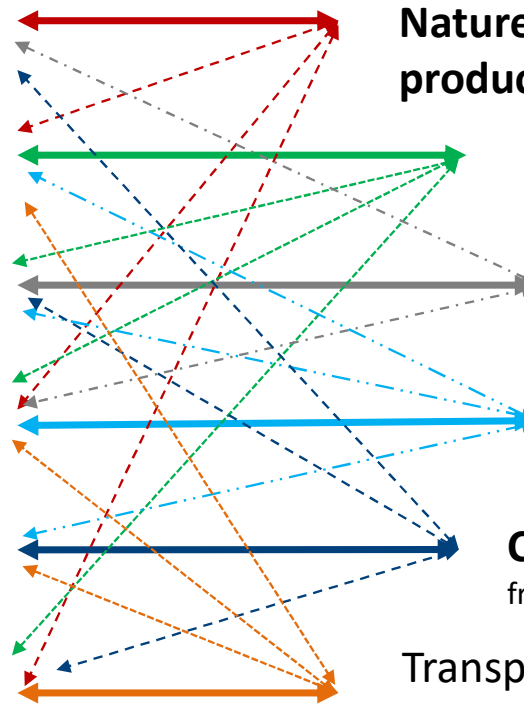
*All from a Food Systems
lens perspective, taking
into account trade-offs &
co-benefits*



<https://scar-europe.org/index.php/food-main-actions/food-systems-partnership>

Enriched by co-creation cases that may be driven by scenarios, targeting missions / local societal challenges / goals

Challenge	SDG / Farm-to-Fork goals
Climate change	Climate action, CO2 neutral (GHG), clean energy
Biodiversity loss	Life on land/sea, zero pesticides, 25% organics, low fertilizer input,.
Fair access to food for all, always	Zero Hunger, no poverty, 50% less waste & nutrients loss, New safety measures, re-thinking value chains
One Health / Global health	Healthy & sustainable diets, healthy environments
Drought & salinity	Clean water, precision irrigation, salt tolerant crops
Crises, green-blue environment,	Reduced inequalities, trade-offs, leverage points, sustainable cities, ...
....	...



Nature-inspired organisational, social and **healthy product concepts** (biomimicry?)

Eco-agro-food-industrial parks (scalable & mobile; from micro-organism to macro)

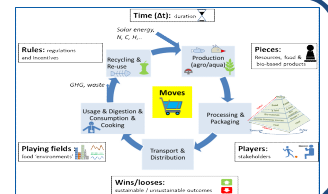
Citizen's initiatives driving sustainable bioeconomy systems (e.g. **eco villages**)

Circular concepts for **healthy & cultural-diverse & safe & affordable** products

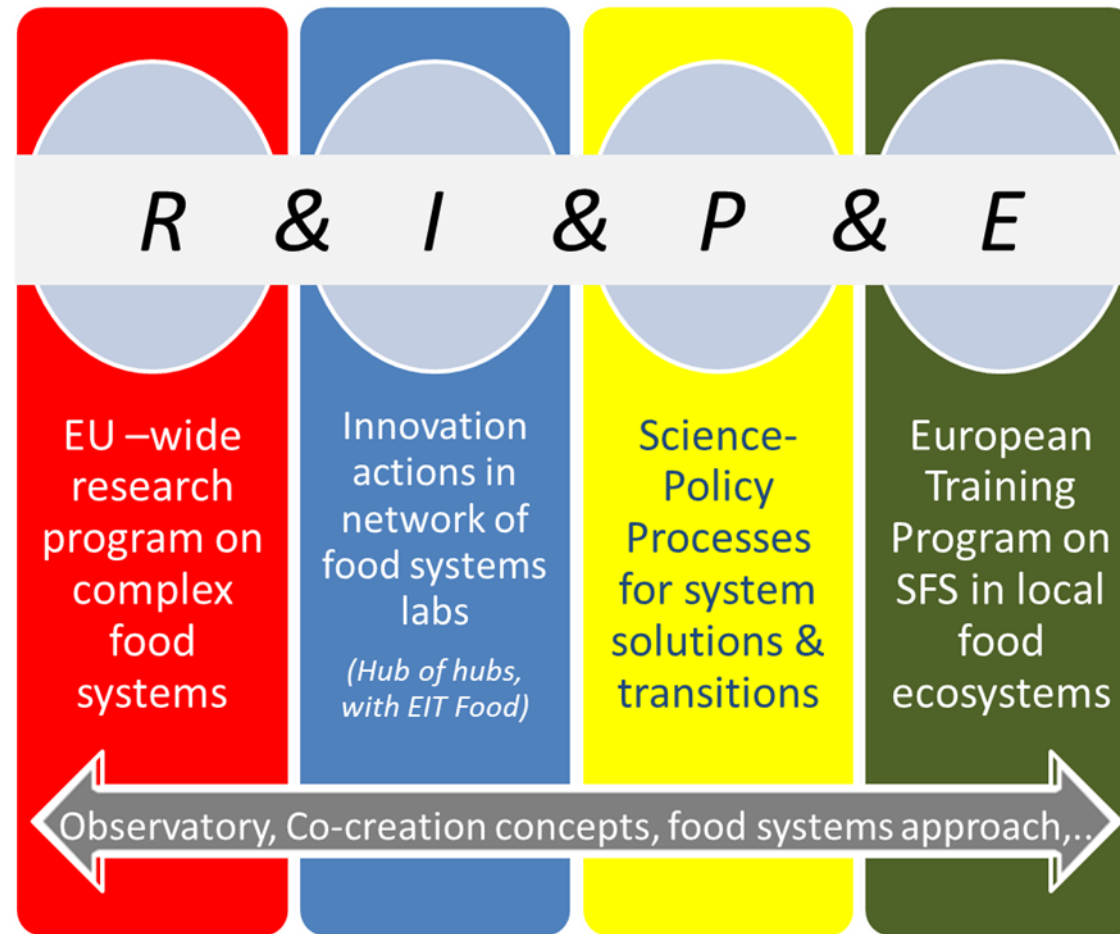
Carbon neutral products for diverse diets (also from forgotten crops, salt-tolerant species, algae, ..)

Transparent **multi-scale governance & circular business models**, mobilizing **digitalization**

All from a Food Systems lens perspective, taking into account trade-offs & co-benefits



AND alignment of R&I with science-policy and education trajectories;
thanks to the network of exemplary universities & their SFS charter



Thank YOU very much
For your attention

Hugo de Vries, INRAE, FR

Special thanks to all involved in SRIA and CSA trajectories!



Annexes

Hence, a Co-Creation process started in 2019

SCAR FOOD SYSTEMS SWG serves as convening platform for the Horizon Europe Sustainable Food Systems Partnership for People, Planet & Climate

STEP 1 – reflection on FOOD SYSTEMS Partnership

- **1st Workshop – 18th September 2019** – to identify the main challenges to be addressed by the Food Systems Partnership
- **July- September 2020:** Survey on Food Systems Partnership (DG RTD and SCAR FS SWG)
- **2nd Workshop – 01st October 2020** - exchange opinion on challenges and opportunities with various stakeholders. First outline of FS Partnership

STEP 2 - NARRATIVE

- **January- March 2021 – DRAFTING A NARRATIVE** - 4 drafting groups leading to 4 narratives - Why, What & How of Partnership on SSFS
- **March- June 2021:** 1 consolidated narrative (by volunteers) and 1 factsheet (by EC)
- **3th Workshop -3rd March 2021** – Discuss synergy and identify complementarities with other partnerships.

STEP 3 – TEMPLATE

- **May-November 2021 – DRAFTING the TEMPLATE**; The CORE -team in charge of the process, 2nd circle of experts consulted
- **4th Stakeholder Workshop – 29th September 2021** - to reflect the scope and the outcome expectations of the FS partnership.

STEP 4 – SRIA

- **2022 - Preparation of the SRIA**; The TASKFORCE –team in charge of the focus areas, experts involved

SFS Partnership Status update

Narrative and Fact Sheet:

- **June 2021- *Narrative* and *Fact sheet*** published –addressing the essential questions of Why? What? and How?
- <https://scar-europe.org/index.php/food-main-actions/food-systems-partnership>
- <https://op.europa.eu/en/publication-detail/-/publication/ca9da79e-df96-11eb-895a-01aa75ed71a1/language-en>
- **April 2022 – *Template***

Next steps 2022:

- Preparing the **SRIA**
- Building the **governance model (CSA)**

