

Opportunities for creating an academic network for food systems science: closing the gaps

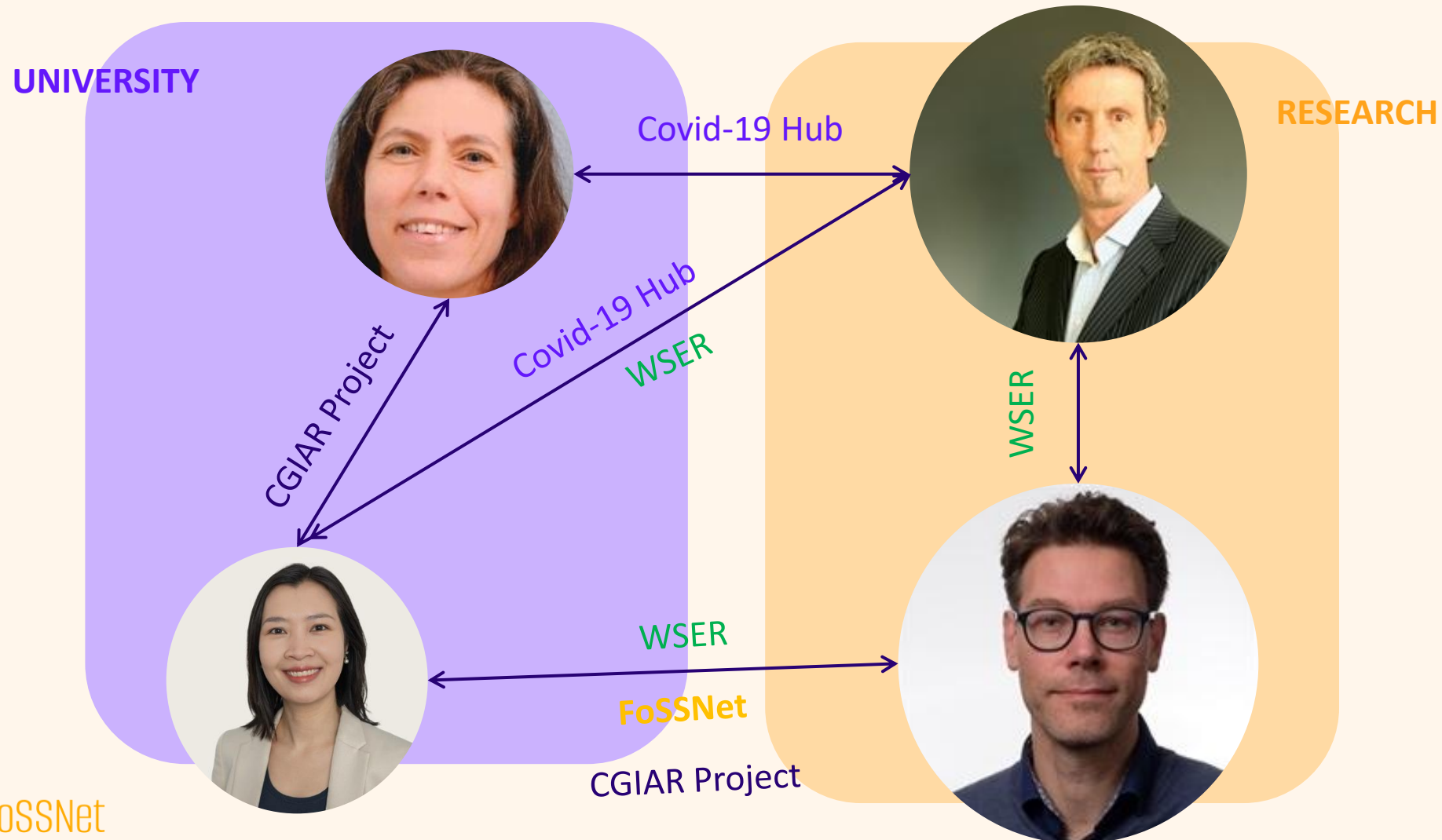
**Food Systems Science: Establishing
a Common Framework and Network**

First European Food Systems Science Conference



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Wageningen University & Research

How my network led me to FoSSNet





Social Network Analysis (SNA) method

- How people are connected and how these connections shape **behaviour, influence, and communities.**
- **SNA** looks at **relationships** first— who interacts with whom and how **information, resources, or influence** flow through networks.

Why a SNA?

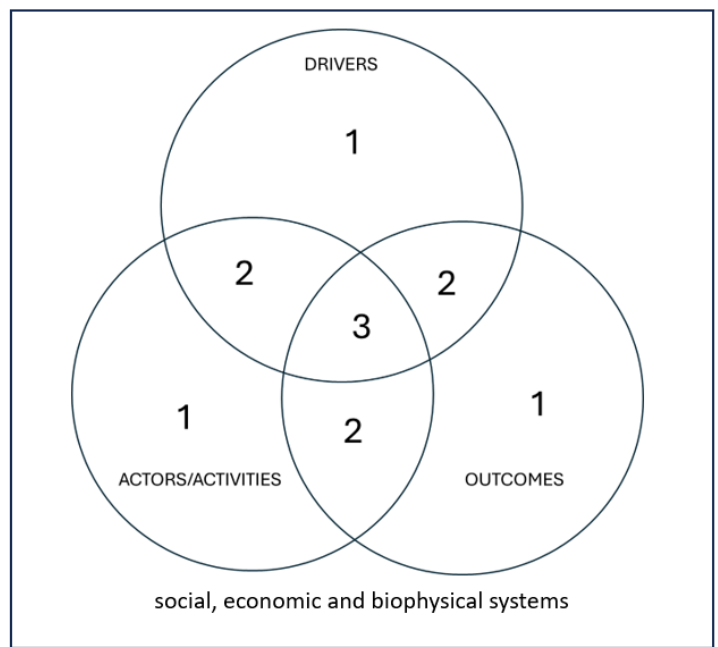
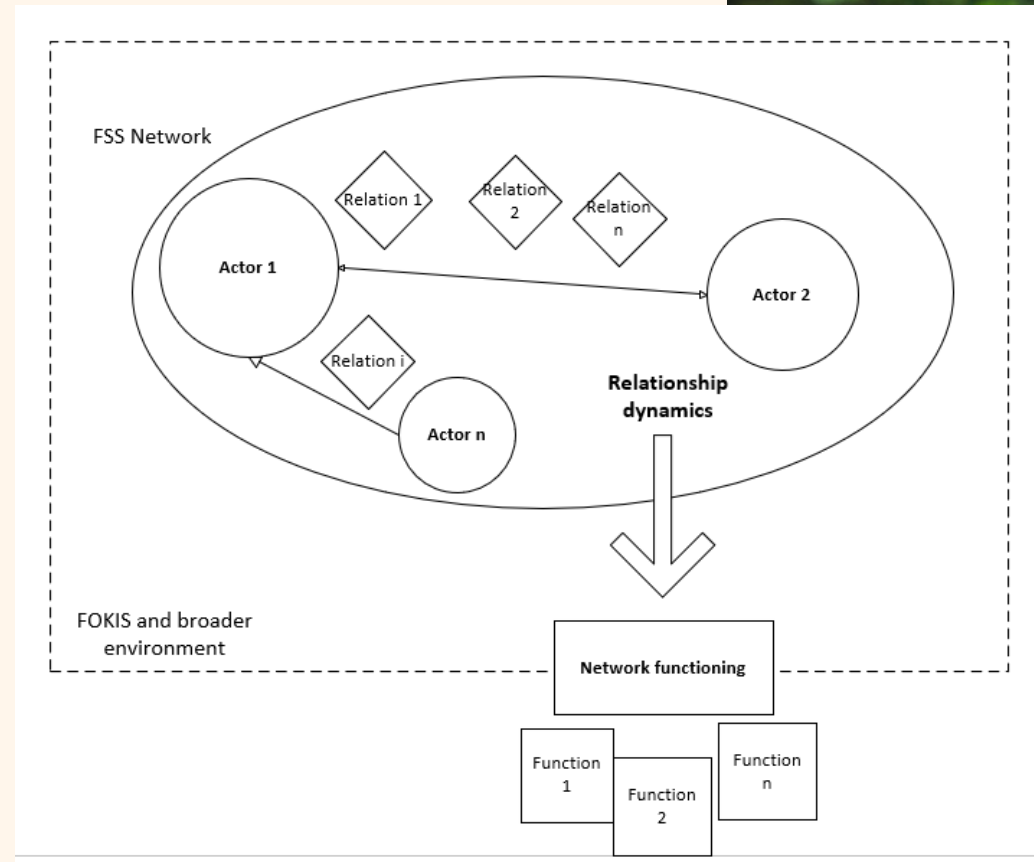


Figure 2. 3 types of food system scientists



Research Approach

- **Data collection** – Primary data: survey with FoSSNet members (FoSSNet consortium + invitees to the conference)

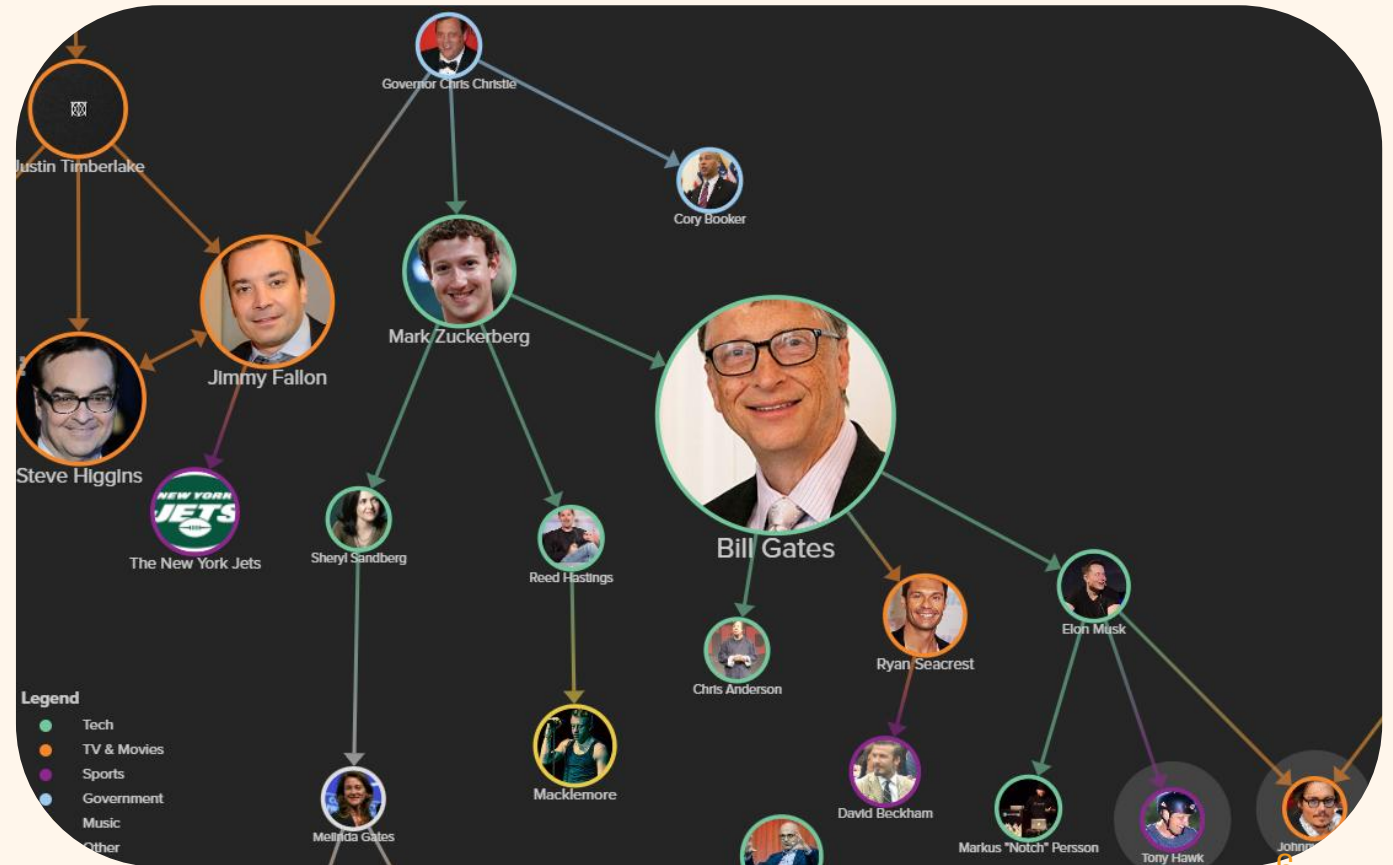
“Please list the top 5 colleagues you collaborate with on food system science activities”

- **Analysis** – Quantitative: three analytical levels and associated metrics
 - 1. The whole network,
 - 2. Clusters within the network,
 - 3. Individual/institution (node) positions within the network.

Analysing the SNA survey



- **Network Mapping** – Create visuals showing **connections between individuals**
- **Understanding the Patterns** – Identify **clusters, key players, and isolated nodes** to uncover collaboration dynamics in food systems science.



Gaps in the network

Preliminary results of the SNA

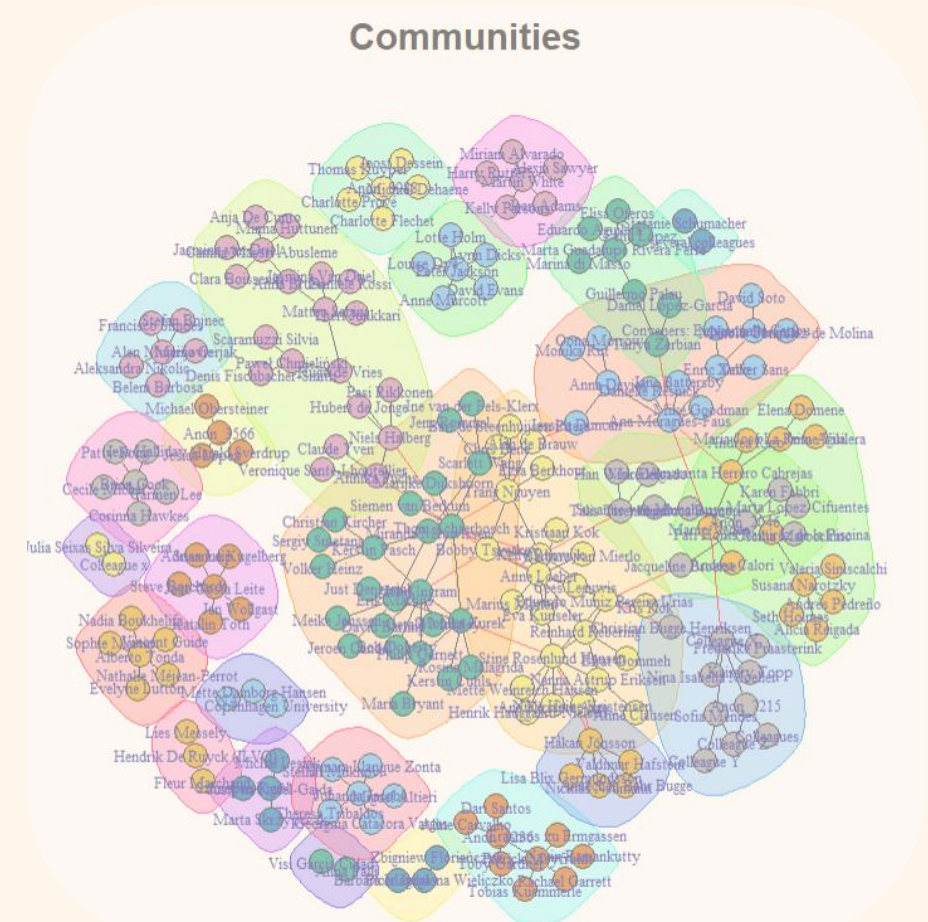
Gap 1: Lack of bridges between communities

Current state

- Clustered communities, less strong interconnections, not very tightly connected internally
- It can take 13 steps to connect the two most distant people!

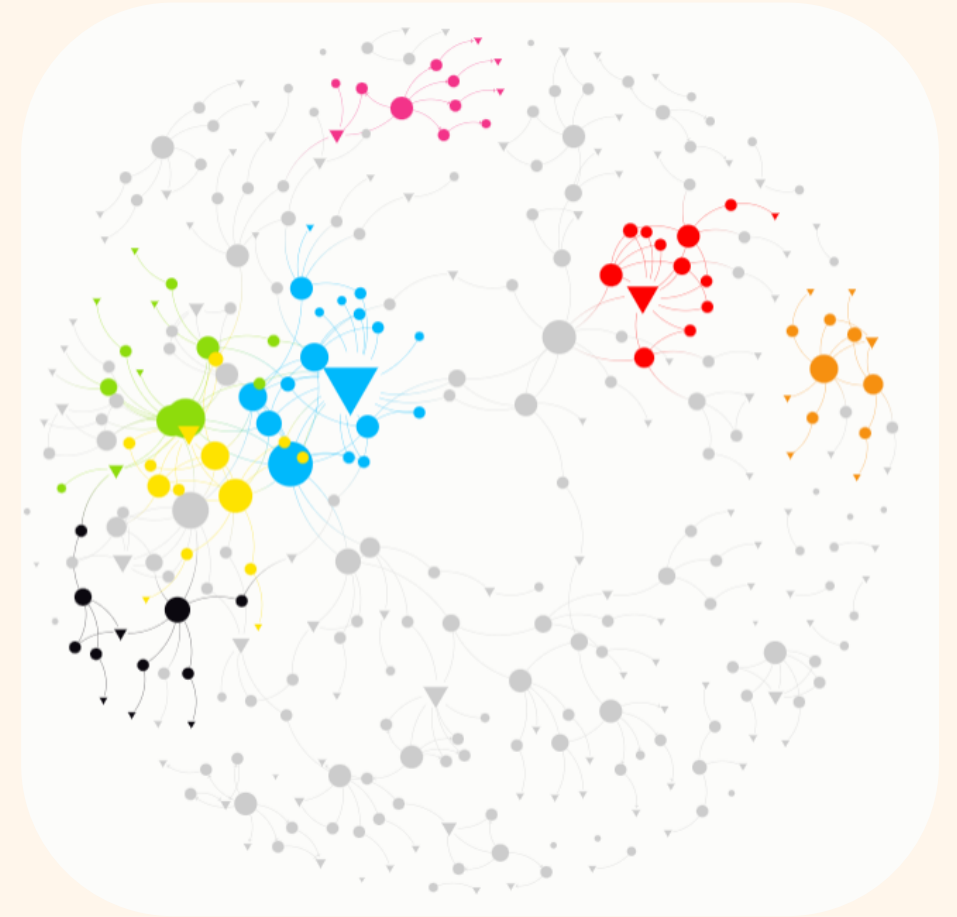
Ideal state (?)

- Clear communities, and active but not overwhelming communication: a good balance between **collaboration** and **specialisation**.



Gap 2: Vulnerable Hub-driven Network

- Most nodes in the network are sparse or isolated, with a majority having only one connection.
- Potentially "hub"-driven network: nodes with many more connections than others
 - Unequal influences and power dynamics
 - Bottlenecks and overloads

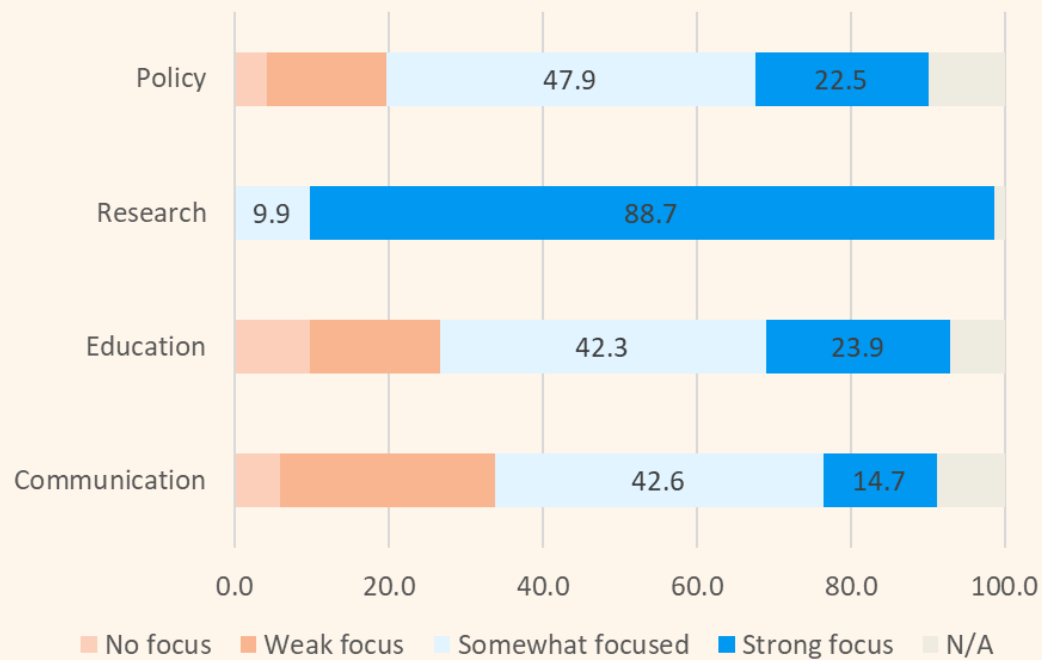


Gap 3: Lack of Collaboration beyond Research

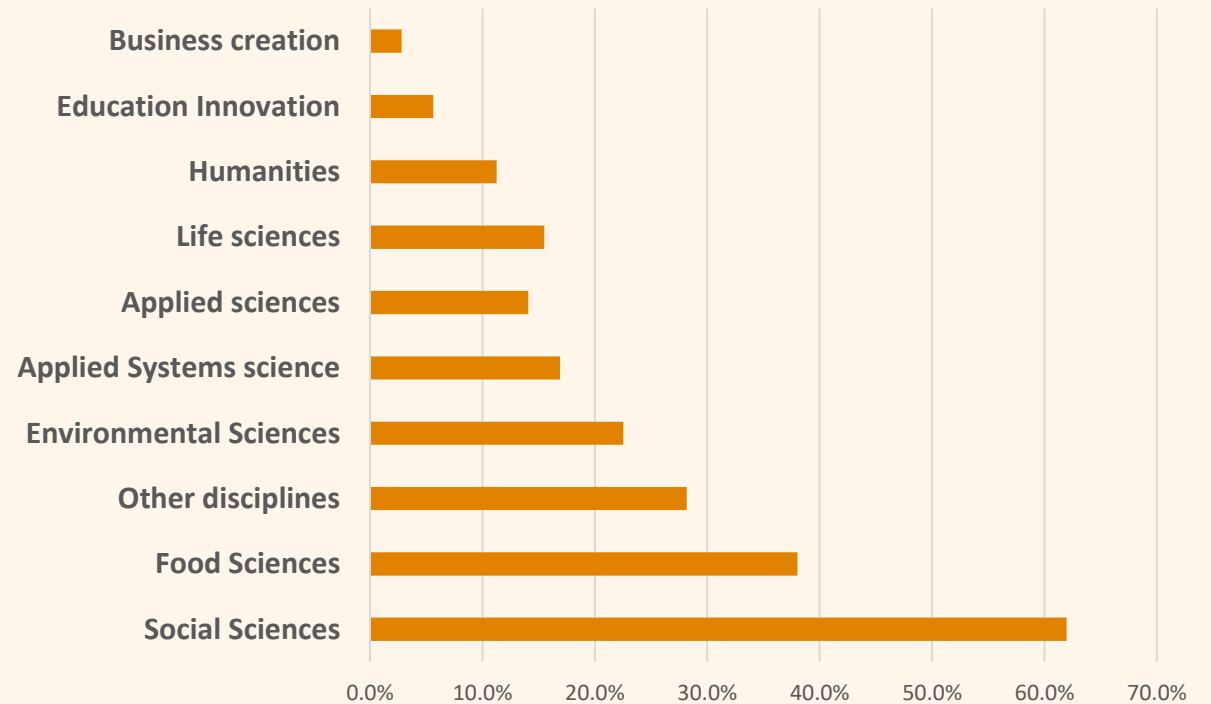
	Collaboration activities	% of all connections
RESEARCH	Working in projects together	79%
	Applying for research grants	60%
	Publishing scientific publications	58%
POLICY	Members of science advisory board steering committee	15%
	Development and formulation of policies	14%
	Other	8%
EDUCATION	Development of bachelors/masters/postgraduate programmes	13%
	Development of career trainings	11%
	Other	7%
COMUNICATION	Co-organisation of events and gatherings	44%
	Building partnerships	37%
	Collaboration on social media platforms and websites	17%

Gap 4: Limited Integration of disciplines & roles

Focus of Work

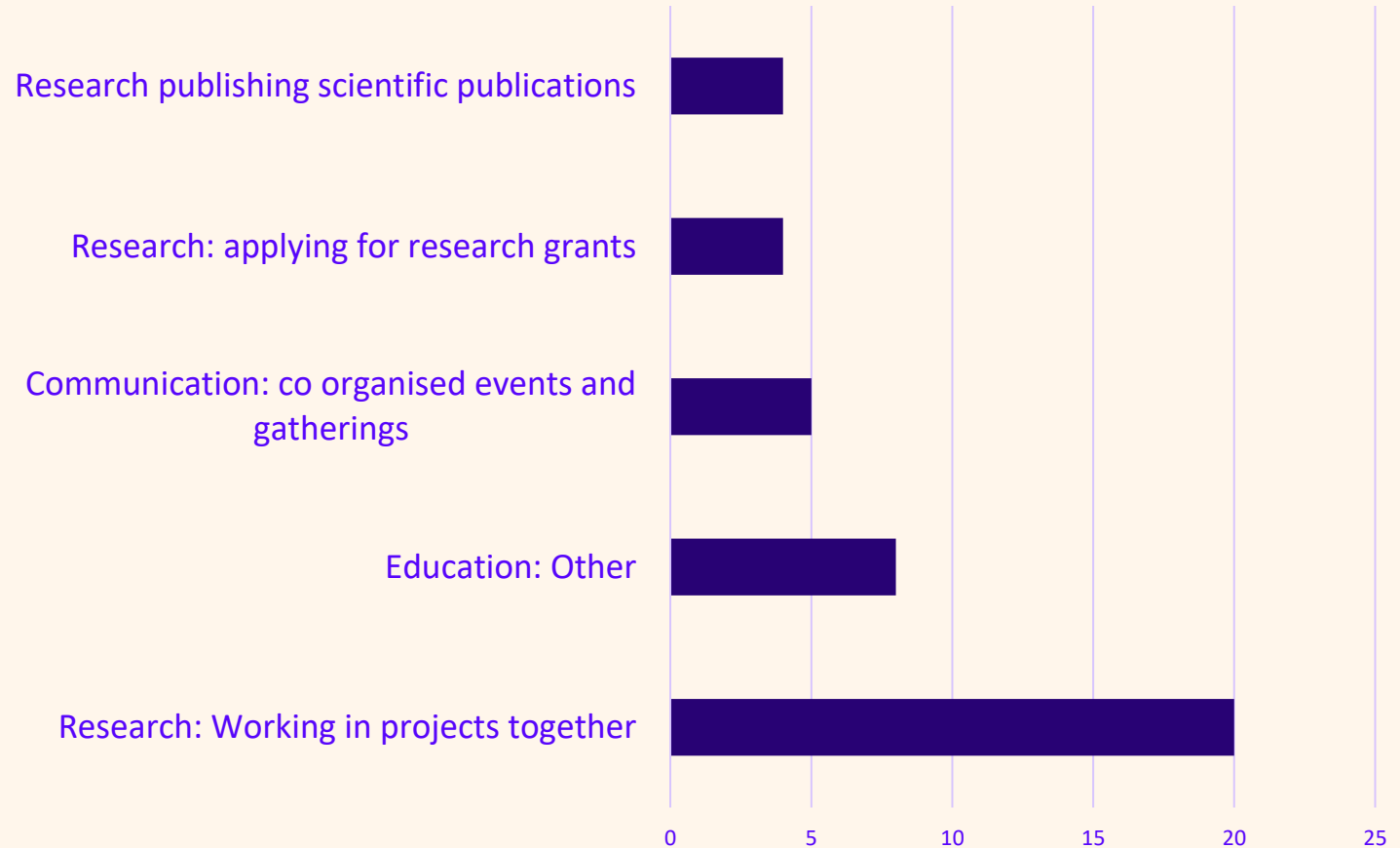


Fields of expertise



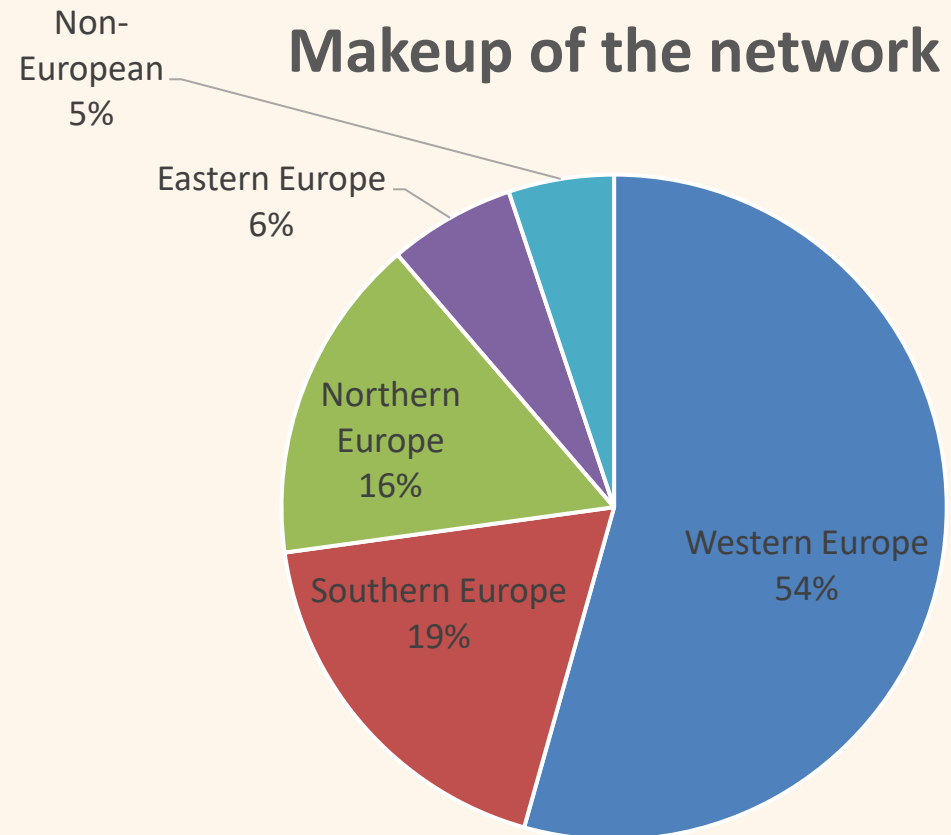
Gap 5: Limited role of earlier career researchers

- Focus on research
- More likely to work with people of their own organisations
- Fewer types of collaborations



Gap 6: Uneven geographical coverage

- 5 countries from Southern Europe, 3 from Eastern Europe

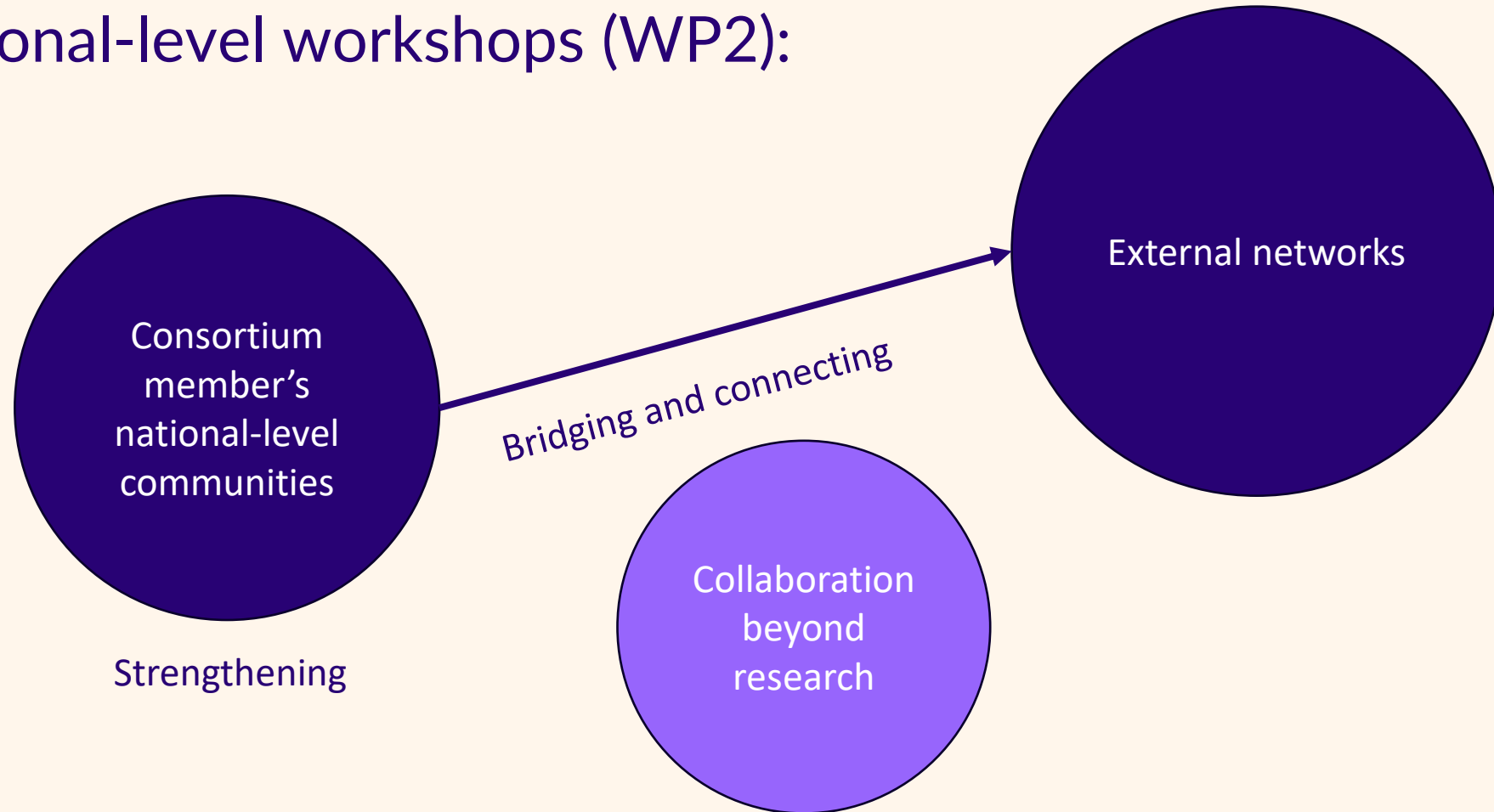


Opportunities

FoSSNet Upcoming Activities

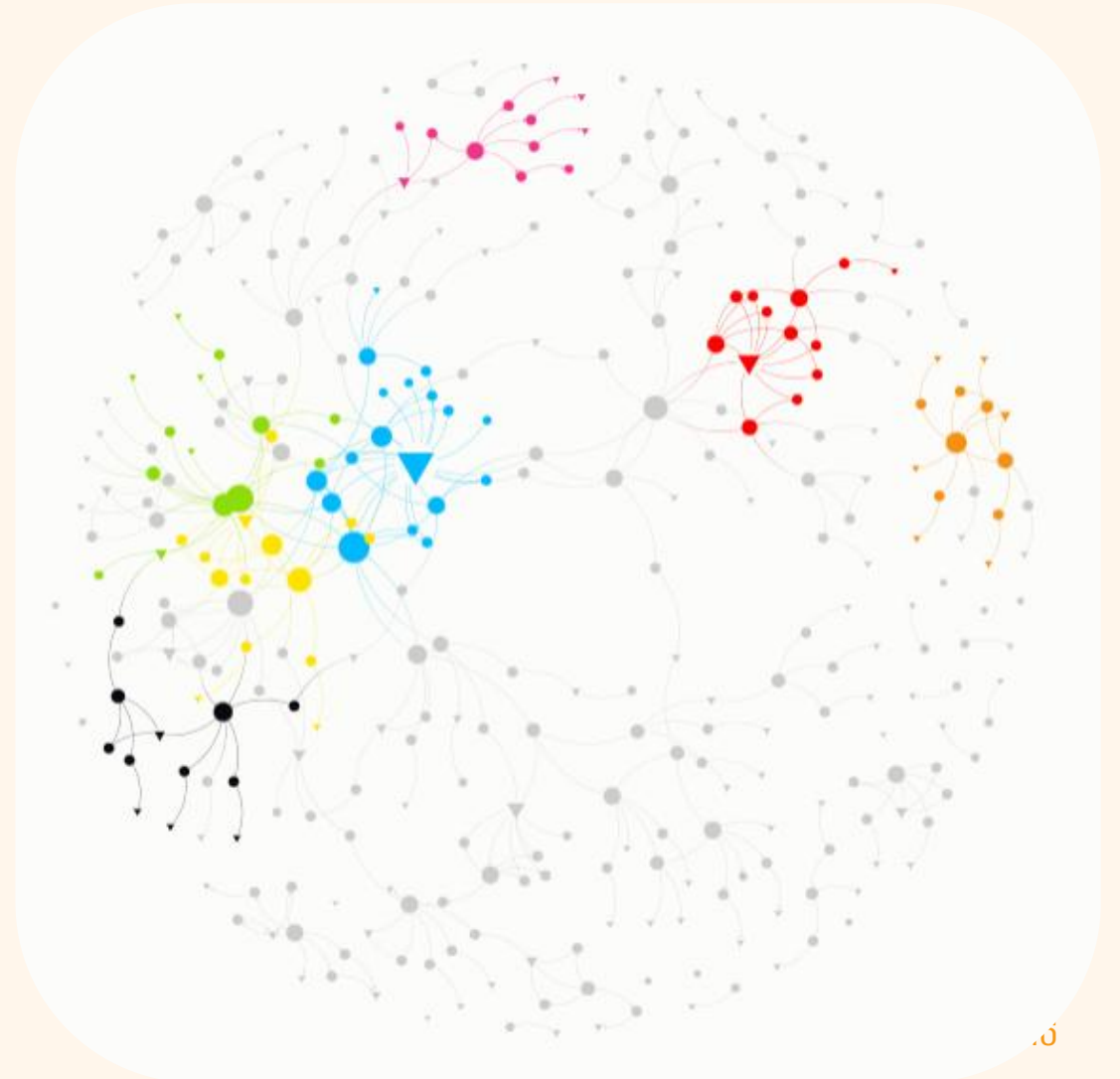
Leveraging Communities

- National-level workshops (WP2):



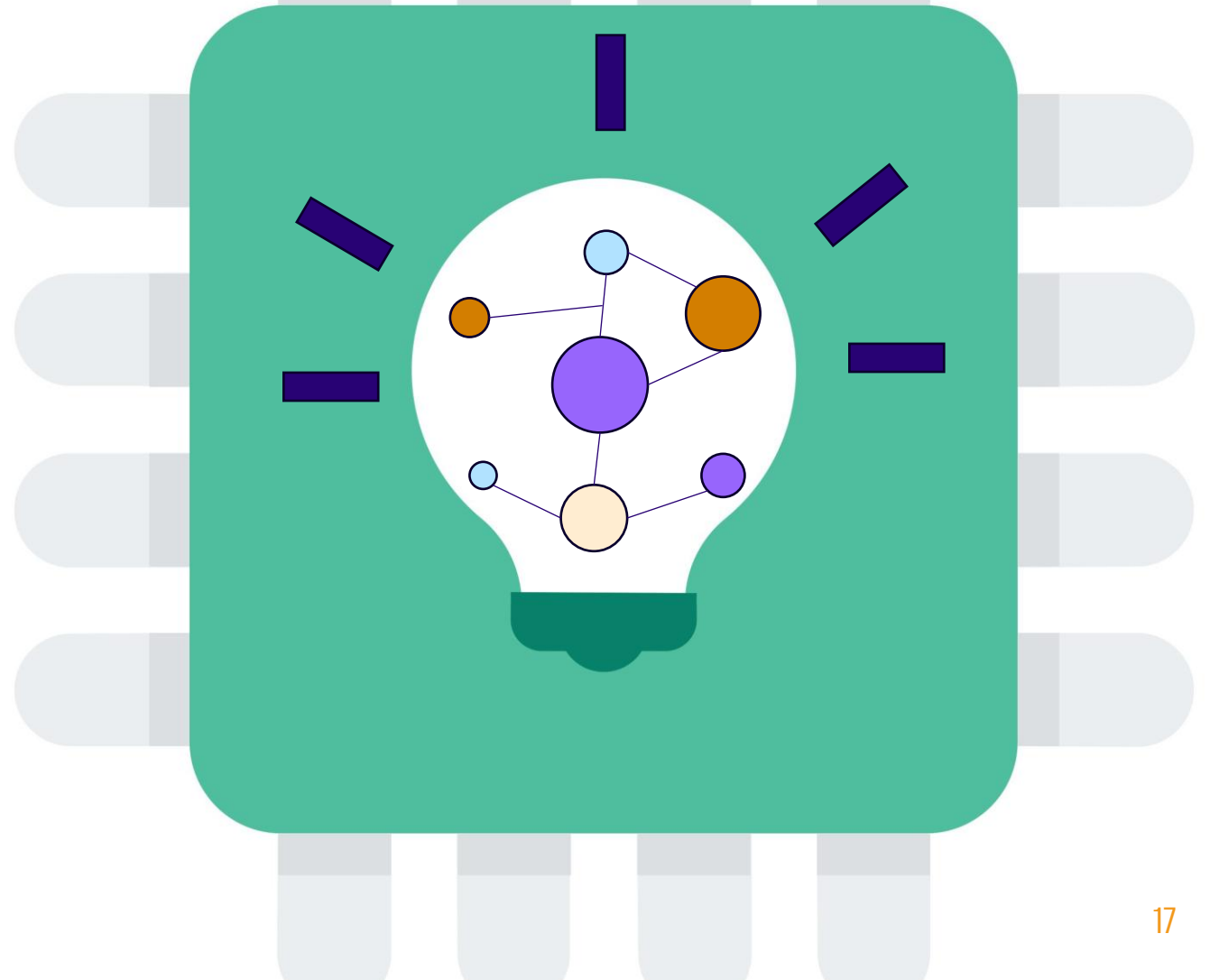
Disrupt and avoid exclusion mechanisms

- Identification of exclusion mechanisms (WP3):
 - Methods to disrupt and avoid exclusion mechanisms and foster inclusive inter- and transdisciplinary FSS.



Open Innovation to engage stakeholders

- Value proposition
- Hackathons (WP2)
- Knowledge hub (WP2)



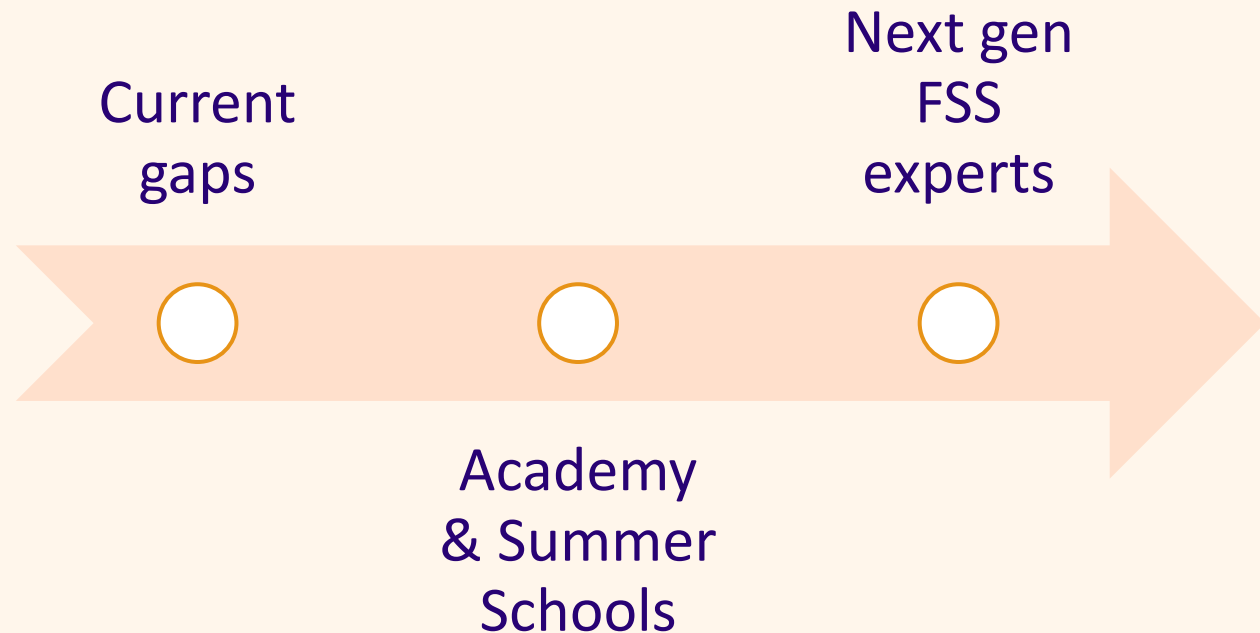
Inter- and transdisciplinary research

- Territorial and systems-oriented labs (WP4)
 - identify collaborative responses to food systems' challenges
 - research projects, development of joint programmes and activities, pilots, and other activities beyond research



Food systems Capability Building

- Academy and summer schools for food systems scientists and professionals (WP5)
 - Develop next-generation Food Systems curricula, to train future generations in FSS



Next steps for the SNA

- Complete findings with full dataset of respondents

75% considered a minimum threshold for data to be considered reliable in network analysis (80% is the gold standard)

PLEASE FILL IT IN!

- National-level workshops: FoSSNet consortium partners will select identified gaps and bottlenecks to validate in their own networks.



Contact



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#FoSSNetCon2025

The screenshot shows the FoSSNet website's newsletter subscription form. The header includes the 'Food Systems Science Network' logo and navigation links for 'About', 'Network', 'News & events', 'Conferences', and 'Resources'. The form itself is set against a blue gradient background and contains the following fields: 'Name*', 'Surname*', 'Email Address*', and 'Category*' (with a dropdown menu currently showing 'RTG/Academy governance member'). Below the fields, there is a disclaimer: 'Your e-mail address is only used to send you our newsletter and information about the activities of FoSSNet. You can always use the unsubscribe link included in the newsletter.' A checkbox for 'I agree to receive the newsletter from FoSSNet and accept the privacy policy' is checked. A 'Subscribe' button is located at the bottom of the form.