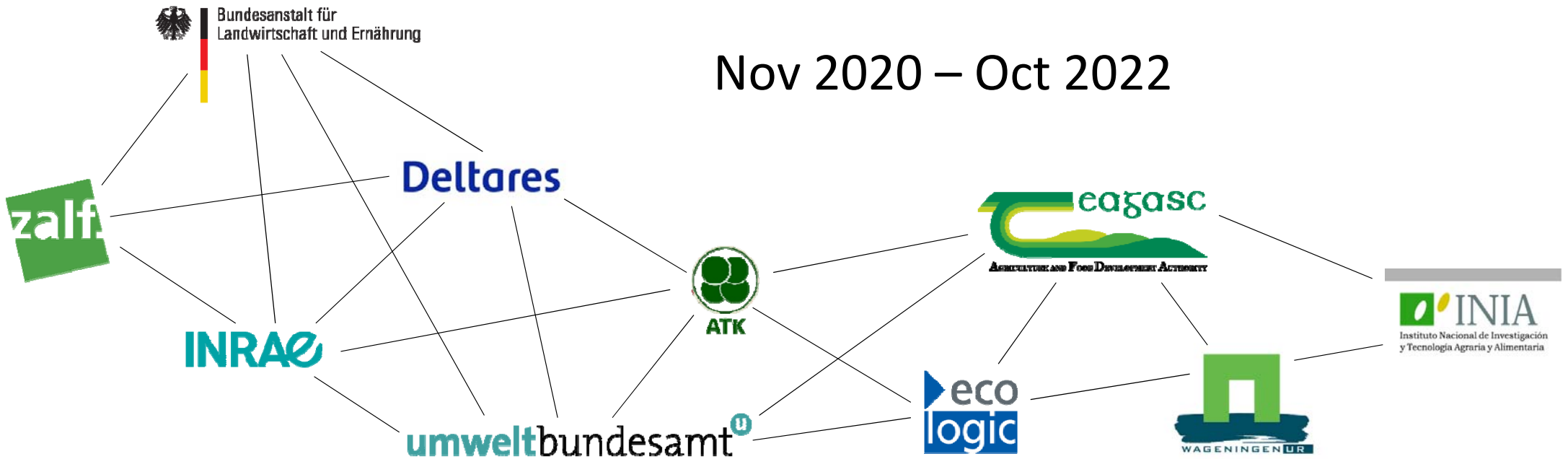


# SMS

## Towards a European Research and Innovation Roadmap on Soil and Land Management

H2020 CSA

Nov 2020 – Oct 2022



# The role of soil and land management for sustainable development

- Increased provision of biomass for food, feed, fibre, and bioenergy (SDGs 2 and 7)
- Mitigation of and adaptation to climate change (SDG 13)
- Mitigation of land take by urbanisation (SDG 11)
- Improved provision of ecosystem services & biodiversity and disaster control (SDG 15)
- Reduction and remediation of soil erosion, pollution, degradation (SDG 15)

→ This progress can only be achieved with a multi-actor partnership across locations and sectors (SDG 17)



## Mitigation of trade-offs between SDGs

# The SMS Approach of R&I roadmap co-creation

## Co-creation covering all relevant actors, sectors and policy fields:

- Co-analyse R&I knowledge and activities on soil systems and land management
  - Mapping and assessment of the state-of-the-art of R&I in soil and land management
  - Proper definition and stock-taking of Living Labs and Lighthouses
  - Identification of R&I gaps & needs for soil and land management
- Co-develop a R&I roadmap on soil systems and land management
  - Integrates thematic (what) with procedural (how) recommendations
  - Identifies strategic criteria for future R&I
- Co-design an active platform for R&I roadmapping:
  - Facilitate the coordination of R&I activities
  - Promote good practices for land and soil management research using Living Labs and Lighthouses
  - Assist in continuous co-design of the R&I roadmap together with researchers, practitioners, young professionals, policy makers, and informed citizens.

Stocks

Needs









Gaps

Actions

# The SMS Knowledge Matrix

## Knowledge themes

Knowledge types

	 			 		
	Increase biomass production for food, fibre, energy	Mitigate land take	Mitigate and adapt to climate change	Reduction and remediation of soil erosion, pollution, degradation	Increase provision of ecosystem services & biodiversity	Improve disaster control
			Living Labs & Lighthouses			
			Technical, economic and social innovation			
			Data management, sensing and monitoring			
			Assessment and modelling			
			Awareness, training and education			
			Science based policy support			
			Institutions and governance			
			Specific regions and sectors			

In line with the objectives of the Mission for Soil Health and Food