

# WP6

## Upscaling and Synthesis

Hedwig van Delden

Research Institute for Knowledge Systems



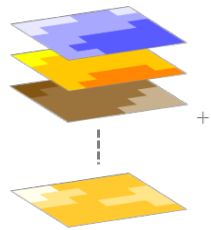
# Deliverables

- D6.1: Report on the integration and synthesis of SS results and their potential for upscaling
  - Task 6.1: Synthesize and integrate results for SS and existing data
- D6.2: Report on the potential for applying SICS across Europe
  - Task 6.2: Upscale SS results to European level using modelling
  - Task 6.3: Explore future uncertainties
- D6.3: Interactive mapping tool for the application of SICS across Europe
  - Task 6.4 Tool development

# Task 6.1: Synthesize and integrate the results from SS and existing data

- Until now:
  - Applicability approach developed
  - Approach applied to 1-3 SICS per SS
    - For regions/countries to facilitate stakeholder interaction
    - For Europe
  - Interactions with SS and stakeholders on the approach and the results
  - Meetings to discuss ways to synthesize and upscale information from other WPs
- Main contributors: RIKS, WEnR, WU, all SS partners, all WPL

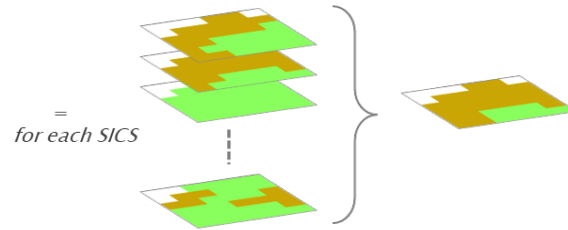
# Approach to create combined applicability and relevance maps



Applicability base maps

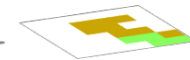
Base map	Category	SICS 1	...	SICS m
1	A	0		
	B	1		
	C	2		
2	D	2		
	E	1		
	F	0		
3	G	0		
	H	2		
...				
n	x	0		
	y	1		
	z	2		

Interpretation of categories of base maps in terms of applicability per SICS: not applicable (0) in white, not preferred (1) in brown and applicable (2) in green

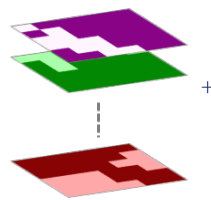


Applicability of SICS

Combined applicability of SICS



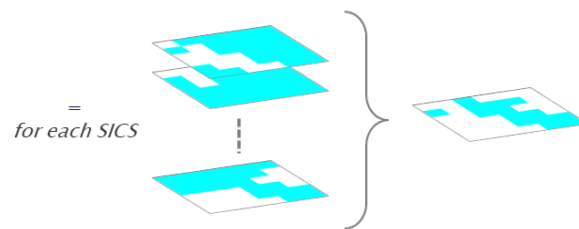
Applicability of SICS in areas where application is relevant



Relevance base maps

Base map	Category	SICS 1	...	SICS m
1	i	Y		
	ii	N		
2	iii	Y		
	iv	Y		
	v	N		
...				
n	x	Y		
	y	N		
	z	Y		

Interpretation of categories of base maps in terms of relevance per SICS: relevant (Y) in blue, not relevant (N) in white



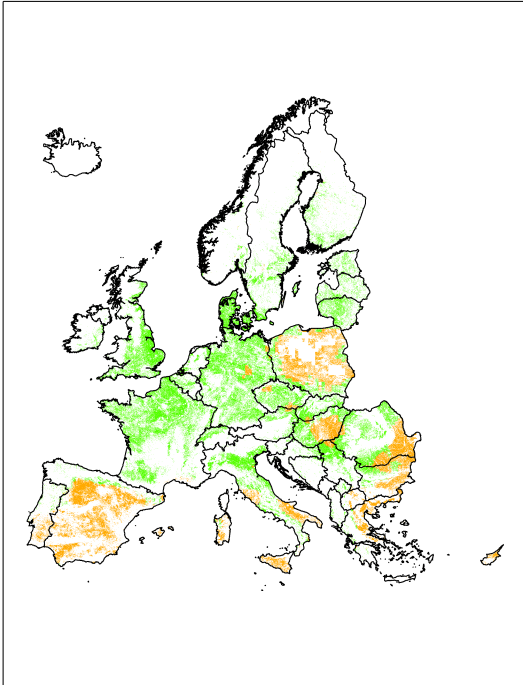
Relevance to apply SICS

Combined relevance to apply SICS

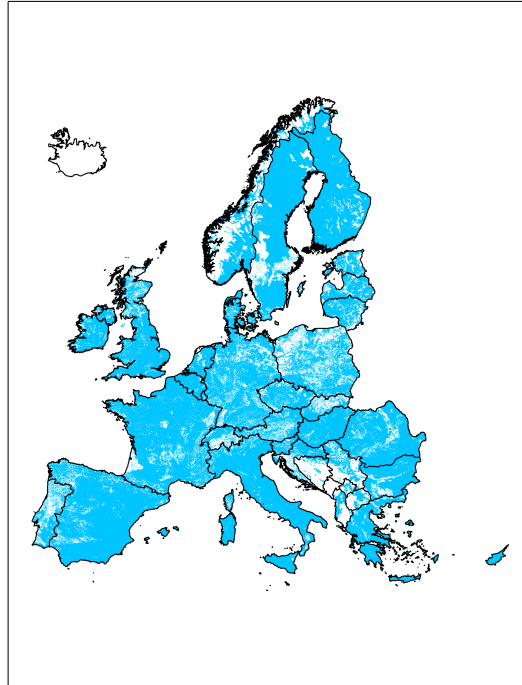
# Example Cover crops

Using European-wide data and information from Italian Study Site partner

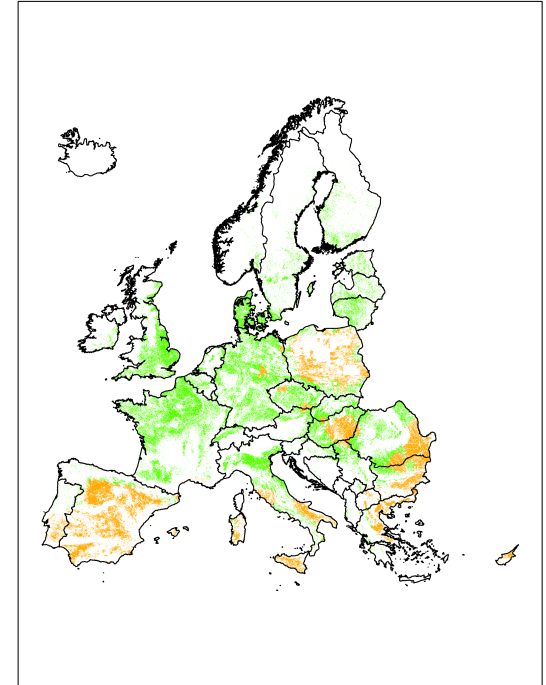
Overall applicability  
Cover crops  
Europe



Relevance  
Cover crops  
Europe



Combined  
Cover crops  
Europe



# Task 6.1: Synthesize and integrate the results from SS and existing data

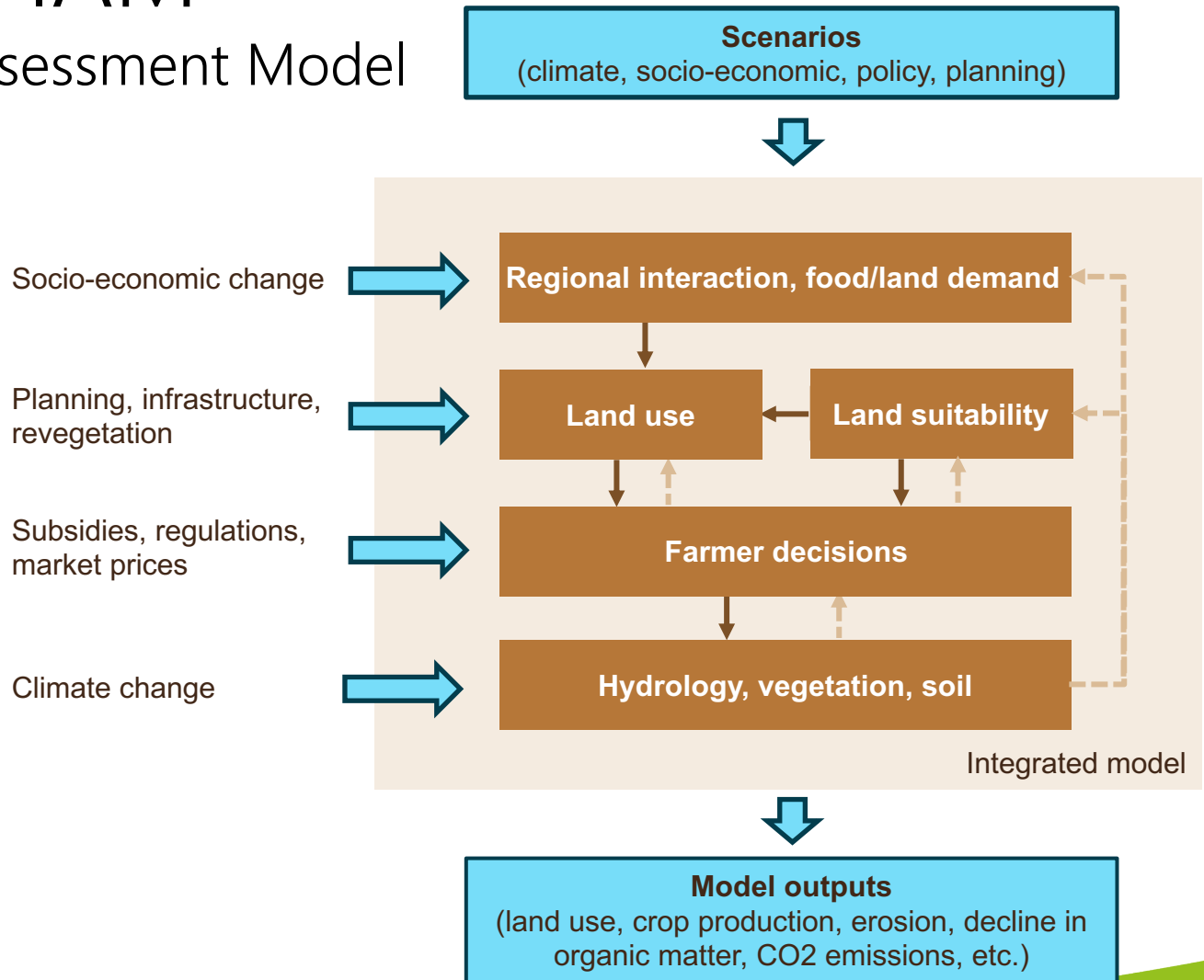
- Beyond reporting period:
  - Finalise applicability maps for individual SICS
    - Assessment by Study Sites, stakeholders, and experts
  - Discuss potential to thematically upscale the applicability maps
  - Develop applicability maps for grouped SICS
  - Joint effort with other WPs (WP3, WP4, WP5, WP6, WP8) to synthesize and upscale additional Study Site results

# Task 6.2: Upscale SS results to European level using modelling

- Until now:
  - Development and adaptation of individual components
  - Integration of components
  - Application, testing, calibration and evaluation of individual components and integrated model (ongoing)
- Main contributors: RIKS, WU, KUL, WEnR

# SoilCare IAM

## Integrated Assessment Model



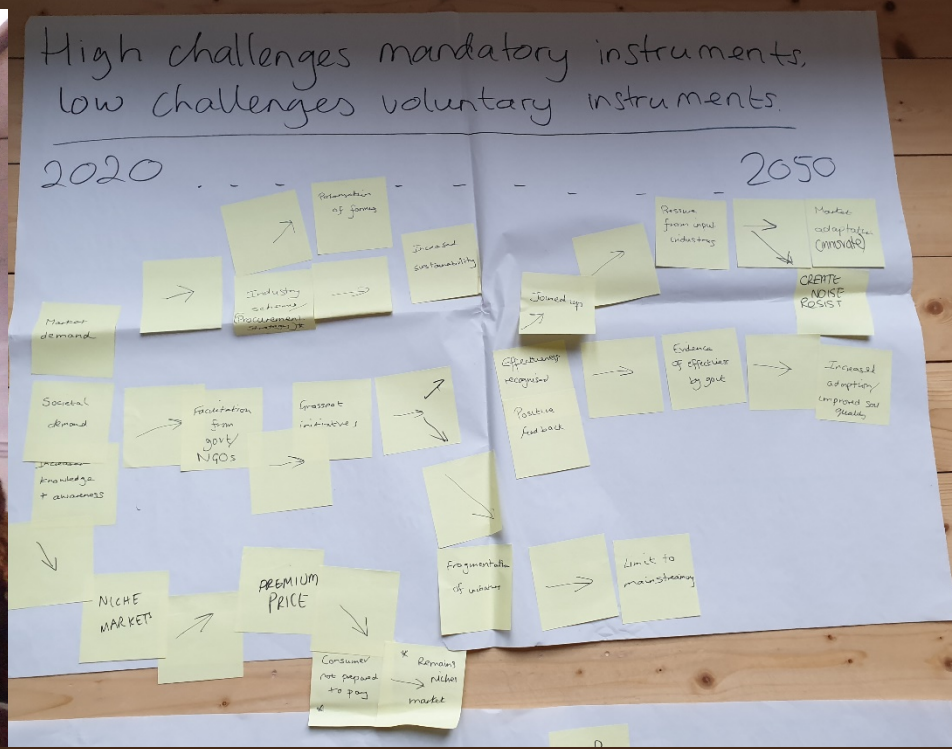
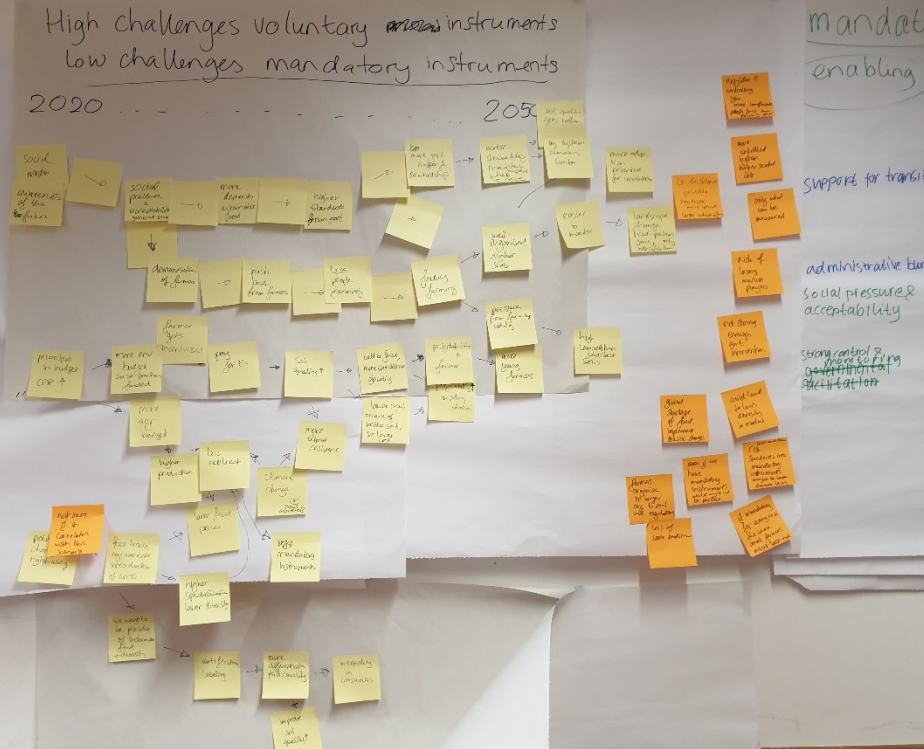
# Task 6.2: Upscale SS results to European level using modelling

- Beyond reporting period:
  - Assessment of calibration results by experts/partners
  - Modelling to inform four scenarios for European agriculture (see next task)
  - Modelling to inform temporal dynamics of applicability maps – impact of SICS on relevant indicators over time
  - Collaborate with WP4 on long-term cost-benefit analysis of SICS

# Task 6.3: Explore future uncertainties

- Until now:
  - Interviews
  - European workshop 1
  - Interaction with EU Policy Lab
  - Webinar to present and obtain feedback on draft narrative scenarios

<https://soilcare-project.eu/en/resources/policy-scenarios>
- Main contributors: RIKS, Milieu, UoG, WEnR, WU, KUL, Teagasc, NU



# Scenarios and motivating factors



# Task 6.3: Explore future uncertainties

- Beyond reporting period:
  - Questionnaire (June/July 2020)
  - Modelling the scenarios
  - European workshop 2 (December 2020)
    - Feedback on quantification, scenarios in total
    - Policy options and recommendations
  - Finalisation and reporting of scenarios with qualitative and quantitative components, including its use for policy support

# Task 6.4: Development of an interactive mapping tool

- Task will only start in 2020
- Tool will incorporate:
  - Applicability layers for a range of SICS (D6.1)
    - Where applicable?
    - Where relevant?
    - What impacts (effectiveness, side-effects)?
  - Changes over time (in applicability) based on scenarios (D6.2). Changing included are those based on climate change and socio-economic change

# Changes in planning

- EU-level workshop in Brussels moved till end of 2020
- Deadlines of D6.1, D6.2 and D6.3 moved till early 2021
- Discussion and feedback regarding applicability maps/index from now till October 2020
  - Hedwig to get in touch with SS partners
- Feedback on model results
  - Hedwig to get in touch with SS partners

# Questions?

