

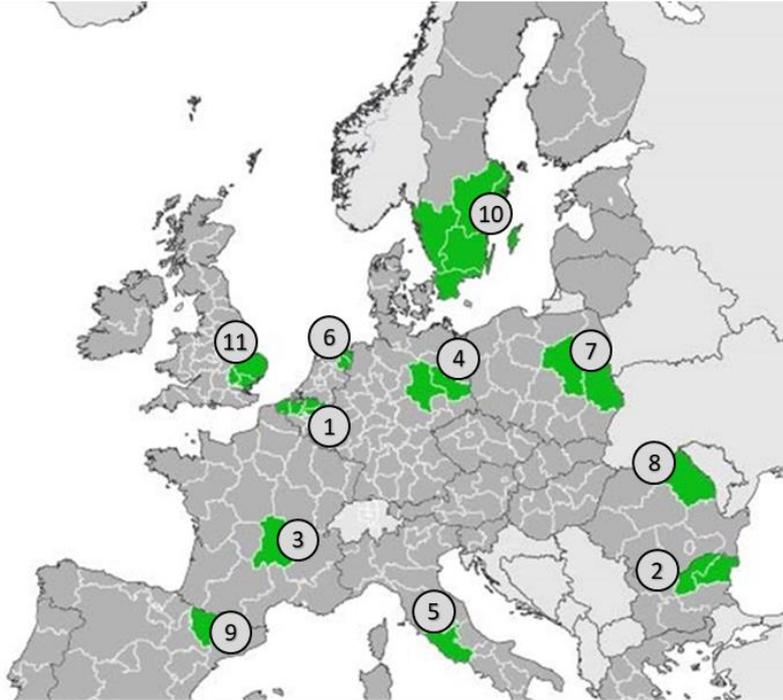
# Towards sustainable & resilient farming systems

Miranda Meuwissen & SURE-Farm & Mixed & Soilvalues

Technical workshop on resilience, 11 December 2023



# Tour d'Europe



Agency

Buffers

Connectivity

Diversity

# Use resilience framework to reflect on disc paper

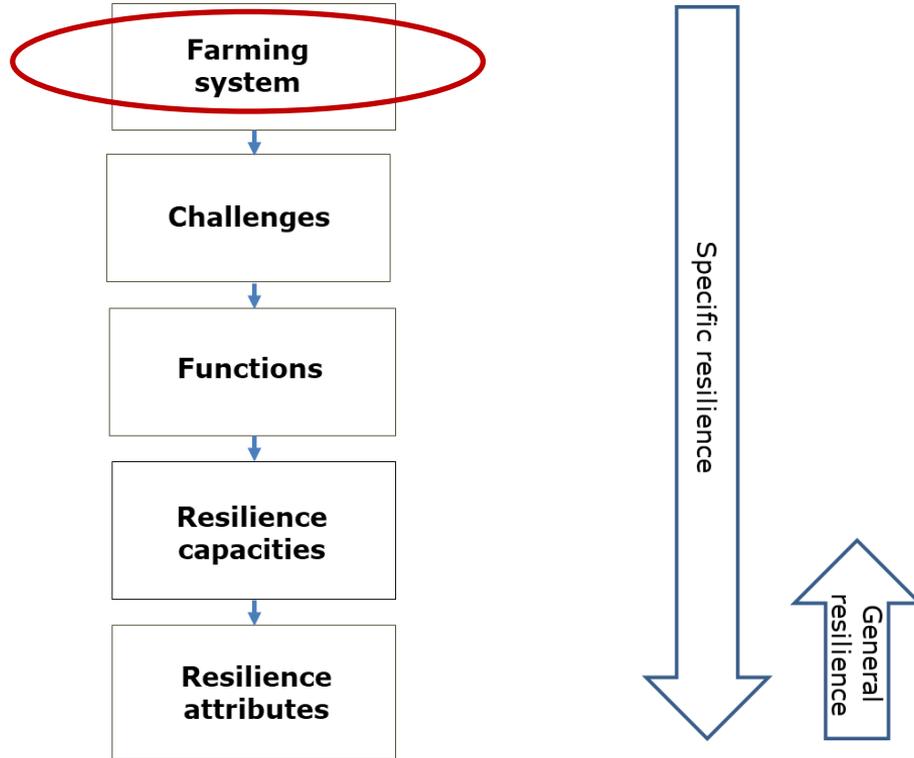
1. Resilience *of what?*

2. Resilience *to what?*

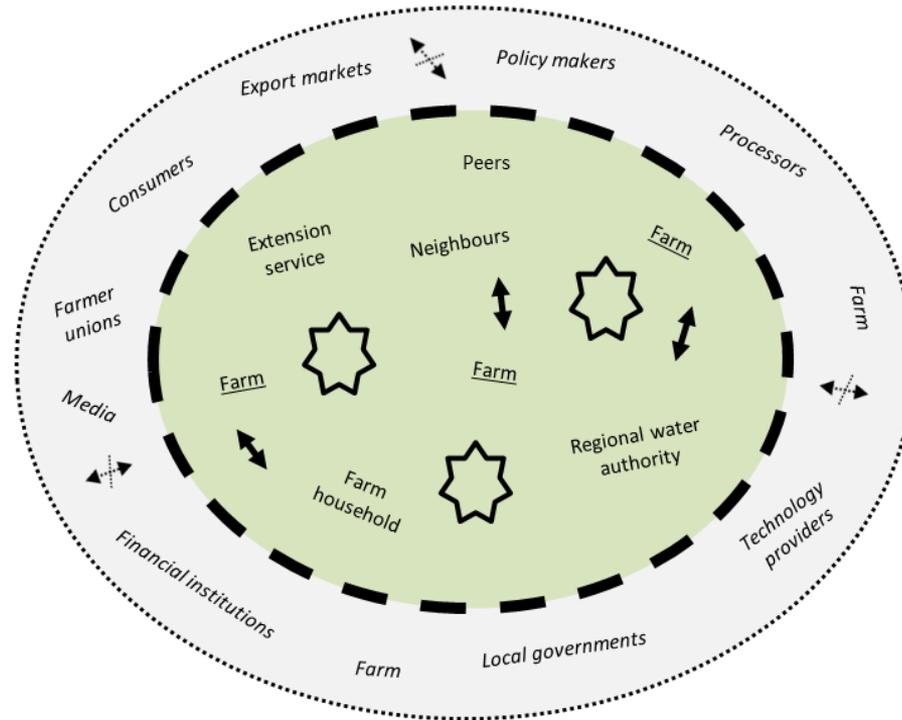
3. Resilience *for what purpose?*

4. What *resilience capacities?*

5. What *enhances* resilience?



# Also beyond-farm actors need to build resilience



# Resilience framework

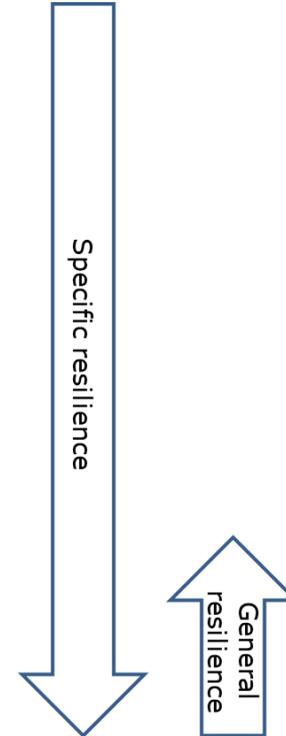
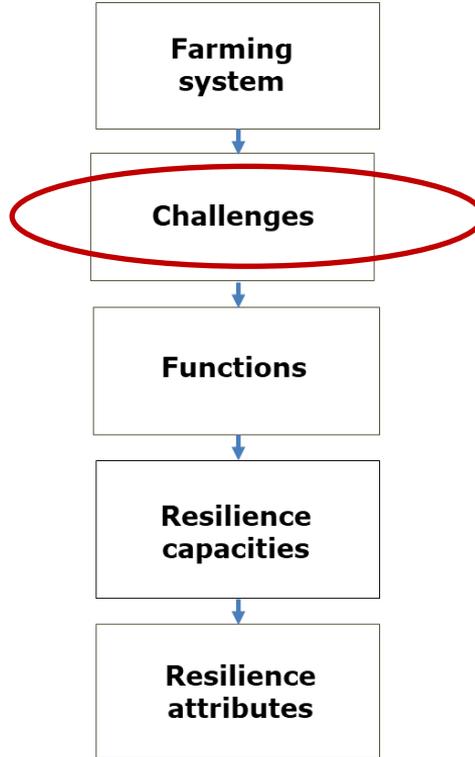
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# Think the unthinkable

## Accumulating challenges

Geopolitics

A new pandemic

Extreme weather

Lack of farm  
succession

Price peaks

## Deep uncertainties

A series

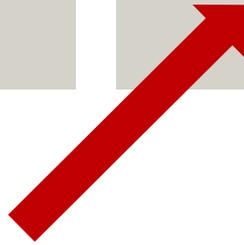
of 'never-thought-of'

events

## Strategies stay behind

Based on vulnerabilities

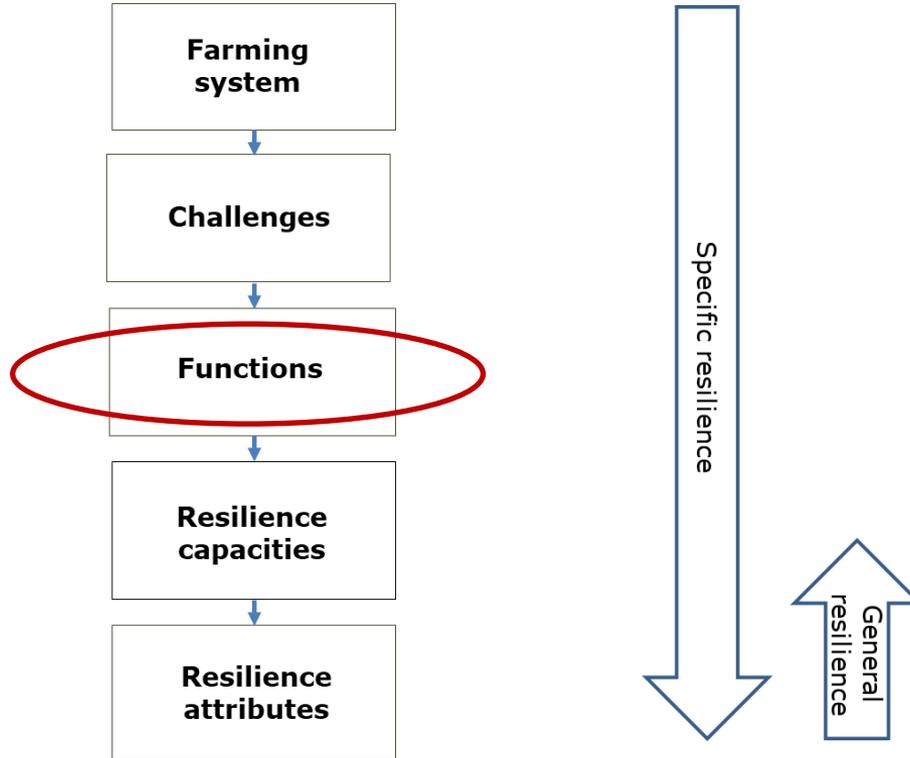
& drivers of the past



Feindt et al., 2022

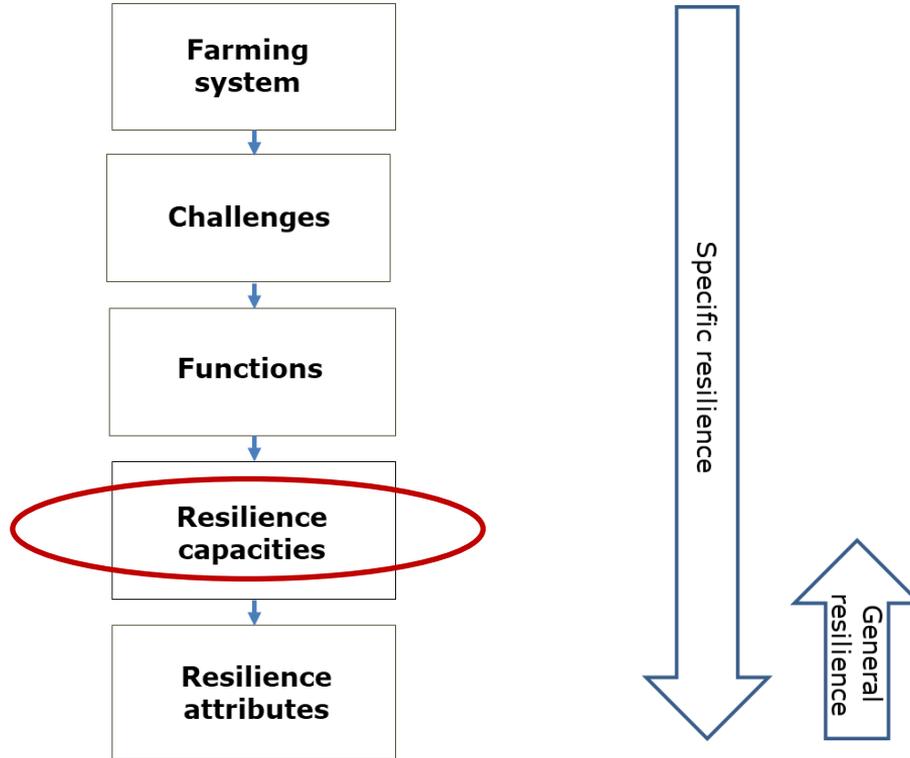
# A lot of attention for functions ("no empty shelves")

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# Resilience framework

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# Robustness: for which farms?



a. Robustness



b. Adaptability



c. Transformability

# Resilience framework

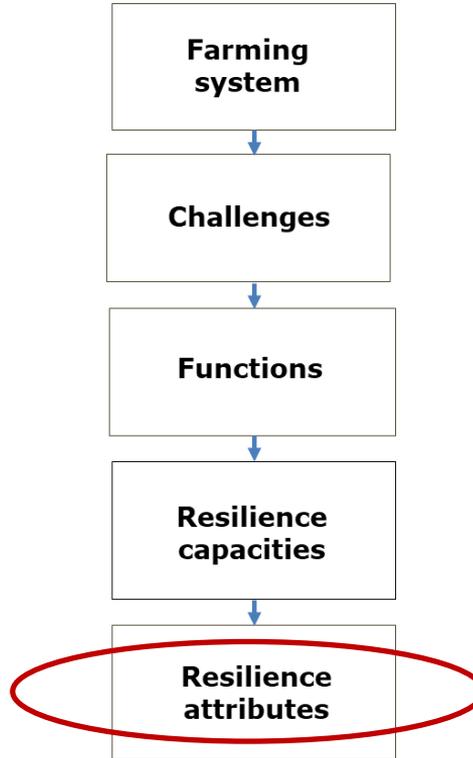
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Agency

Buffers

Connectivity

Diversity

# The most important challenge

- Resilience is a latent concept (Meuwissen et al., 2020)
- Limited attention for uncertainties (Hardaker et al., 2015)
  - Availability bias
  - Underestimation of low-probability-high-consequence risks
  - Narrow perceptions of imaginable futures
- Resilience attributes (agency, buffers, connectivity, diversity) differ substantially from attributes of current food systems (De Steenhuijsen Piters et al., 2022)

# The greatest opportunity

- Make resilience-building part of transformation
  - For farms & other actors: Good Resilience Practices
  - More broadly: Resilience governance
- Also include beyond-farm actors

# Thank you

