SUSTAINABLE RESILIENT EU FARMING SYSTEMS

SURE Farm

Improved Risk Management Towards More Resilient EU Farming Systems

3 Key Findings

Robert Finger, Alisa Spiegel, Willemijn Vroege, Miranda Meuwissen, Yann de Mey, Thomas Slijper, Marijn Poortvliet, Mauro Vigani, Julie Urquhart, Robert Berry, Peter Midmore, Sue Fowler, Pip Nicholas, Isabel Bardají, Alberto Garrido & Bárbara Soriano

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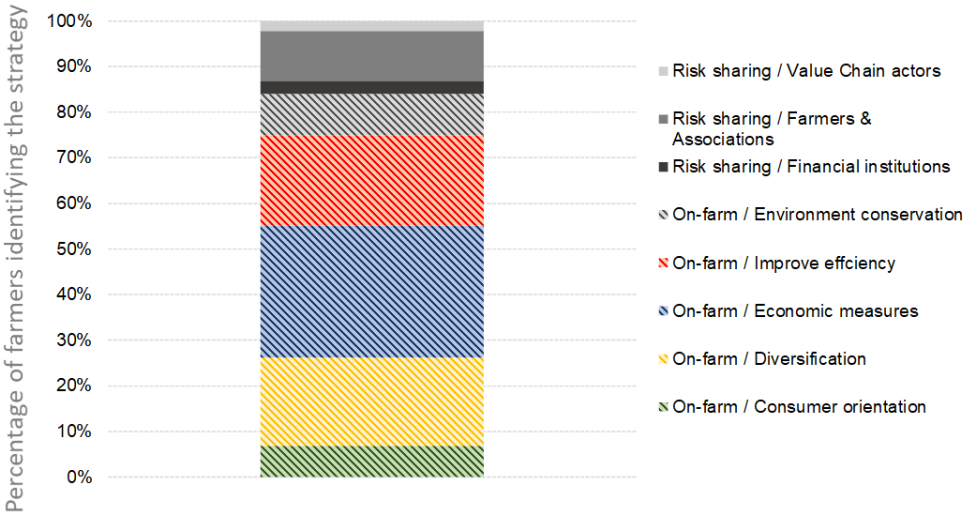
1 Farmers perceive a wide variety of challenges affecting farms, and use many different strategies to deal with them

Strategies implemented by farmers across Europe



- **Not only shocks but also long-term pressures matter**
- **Risk sharing strategies highly relevant.**
- **Important role of learning and cooperation**

Source: Own elaboration based on 1,152 farmers' survey in 11 case study regions across Europe

References:

Spiegel et al. (2020). Risk Management and its Role in Enhancing Perceived Resilience Capacities of Farms and Farming Systems in Europe. *EuroChoices*, 19: 45-53.

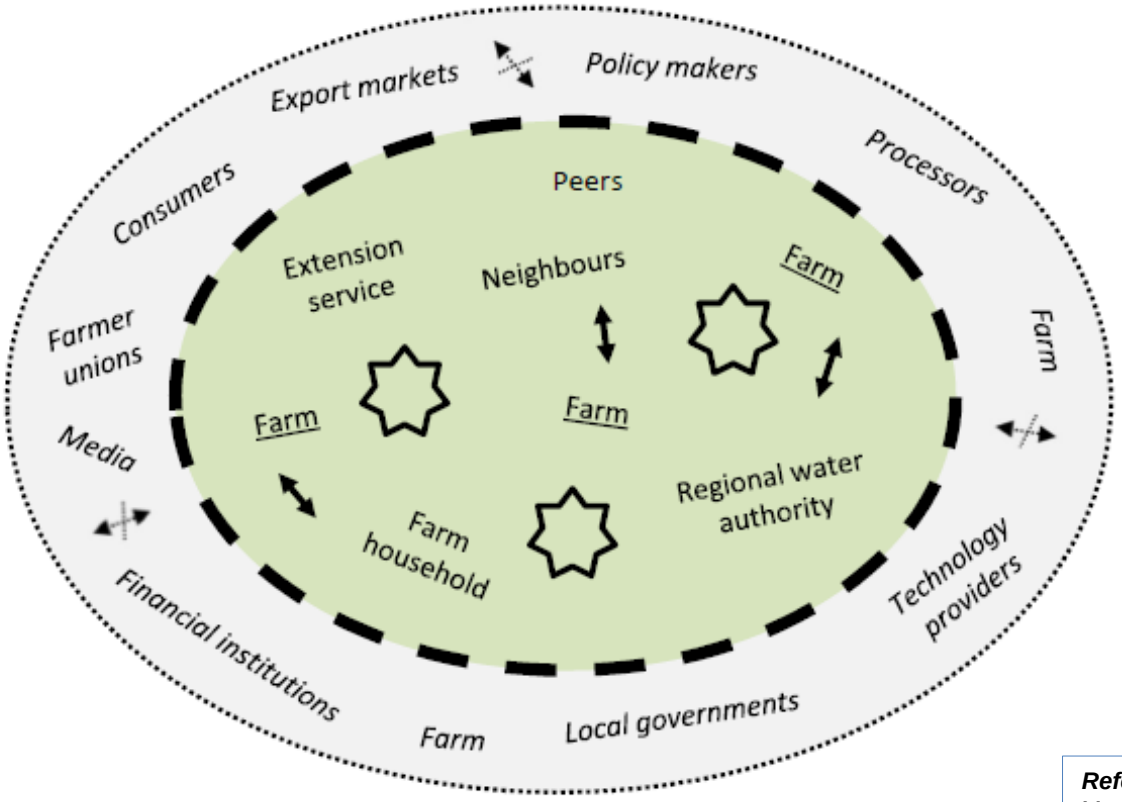
Coopmans et al. (2019). Report on analysis of biographical narratives exploring short- and long-term adaptive behaviour of farmers under various challenges.

Urquhart. et al. (2019). Report on farmers' learning capacity and networks of influence in 11 European case studies.

Soriano et al. (2019). Report on state and outlook for risk management in EU agriculture

Vigani et al. (2021) Drivers of EU regions expenditure on the Risk Management Toolkit of the CAP

2 Many actors are involved in risk management strategies implementation



Source: Meuwissen et al. (2019)

- **Strategies go (and further shall go) beyond the level of the individual farmers**

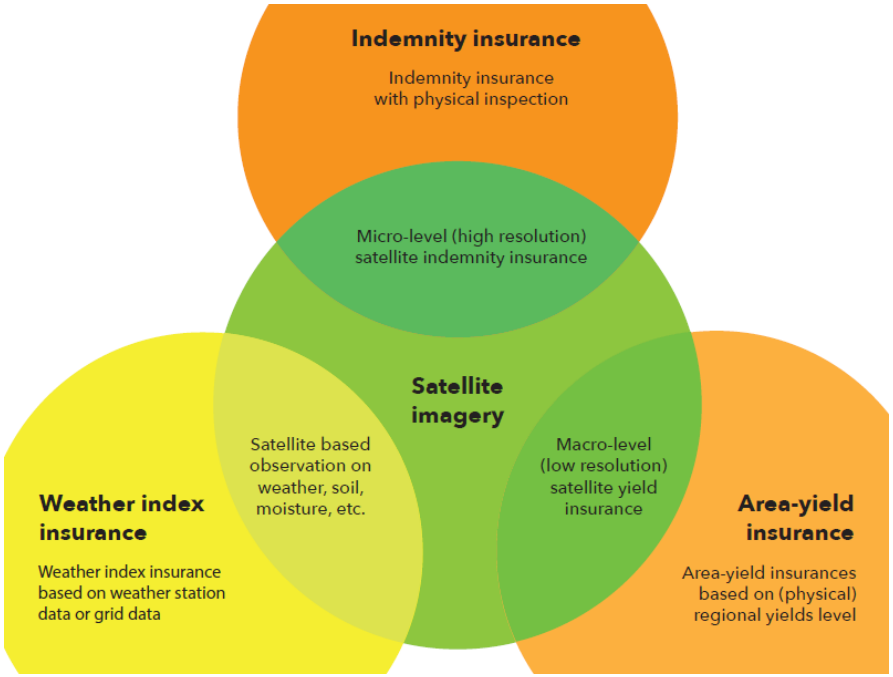
References:

Meuwissen et al., (2019). A framework to assess the resilience of farming systems, *Agricultural Systems*, Volume 176.

Soriano et al., (2019) Business Brief on opportunities for improved risk management for EU agriculture

3 Opportunities for novel risk management approaches are available.

- **Take full advantage of the rapid technological progress**
- **New forms of insurance solutions complement existing tools**



Source: Vroege, et al. (2019)

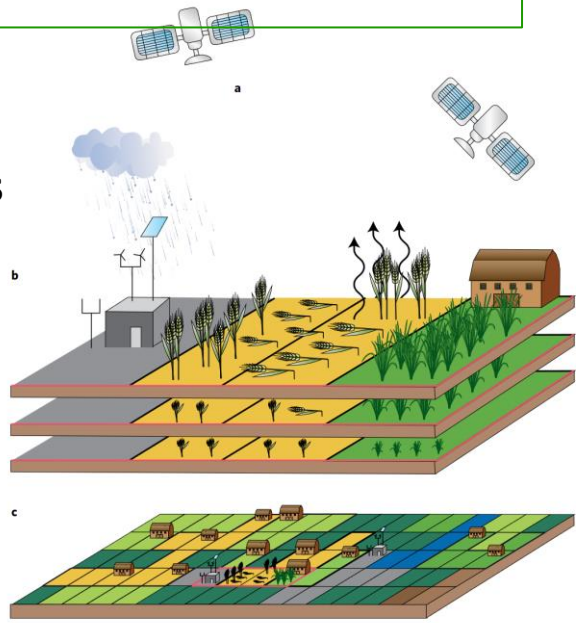


Fig. 1 | **Key requirements for the design of index insurance from satellite-retrieved imagery. a**, Context-dependent selection of parameters and data products. **b**, Transparency on modelling steps and uncertainties. **c**, Spatial aggregation to meaningful insurance units.

References:

Vroege, W., Vrieling, A., Finger, R. (2021). Satellite support to insure farmers against extreme droughts. *Nature Food* 2, 215–217

Vroege. W., Bucheli, J., Dalhaus, T., Hirschi, M., Finger, R. (2021). Insuring crops from space: The potential of satellite retrieved soil moisture to reduce farmers' drought risk exposure. *European Review of Agricultural Economics* 48(2) 266–314 .

Vroege, W., Finger, R. (2020) Insuring Weather Risks in European Agriculture. *EuroChoices* 19(2): 54-62.

Bucheli, J., Dalhaus, T., Finger, R. (2021) The optimal drought index for designing weather index insurance. *European Review of Agricultural Economics*. In Press.

Vroege, W., Dalhaus, T., Finger, R. (2019). Index insurances for grasslands – A review for Europe and North-America. *Agricultural Systems* 168, 101-111

Thank you for your attention!

Policy recommendations

1. Policies shall support the **diversity** of risk management strategies across Europe.
2. Policies need to enable **long term** strategies to deal with long term pressures
3. **Learning and sharing of risks strategies** shall be strengthened.
4. **Holistic approach**: Coordinated policies shall follow a **multi-actor** approach targeting beyond the farmer.
5. Policies shall enable that a wide and diverse set of **innovative insurance** solutions can develop.