



Stakeholder relevant SI options and metrics

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Working premises

Holistic

- agronomic, ecological, socio-economic and cultural sustainability perspectives involved in SI (Gliessman, 2014)
- · acknowledging complexity via systems perspective
- · considering trade-offs across sustainability dimensions

Generic and flexible

- · compatible with diverse agricultural contexts and definitions of SI
- applicable to various questions, assessment methods, and scales
- consistency, efficiency, and comparability across SI assessments

Policy-relevant

- better communication in the science-policy interface
- compatibility with changing policy goals
- consideration of key societal challenges

Operational for application by modelling

- modelling facilitates ex-ante assessment of policies, increasing their efficiency and effectiveness (van Ittersum et al., 2008)
- contribution to ex-ante evaluation of SI measures and policies



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Research Aim

- Present a holistic, generic, flexible, and policyrelevant SI Metrics framework (SIM framework)
- Propose and evaluate an approach for operationalising it for application by agricultural systems modelling

Not a blueprint for the complex problem of quantifying, assessing, and implementing SI, but rather one of many steps towards the quantification of SI and the ex-ante assessment of SI policies and measures.



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