

Società Italiana di Agronomia 50° Convegno Nazionale



Evoluzione dei sistemi agronomici in risposta alle sfide globali Udine, 15-17 settembre 2021

Sustainable Intensification Indicators: perspectives from European and African researchers

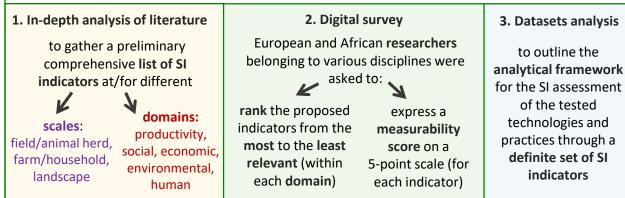
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Introduction

- → Common challenge of African and European agriculture: to ensure food production while reducing its environmental impact
- → Context: global climate change, unpredictability of water supply, increased land degradation
- → Possible answer -> Sustainable Intensification (SI): conceptualized in different ways depending on the specific environmental and socioeconomic context
- → Main objective -> to mobilize the expert knowledge of European and African researchers to orient the analytical framework for the SI assessment of the tested technologies and practices on the basis of the local agroecosystems

Materials and Methods



Results

69 questionnaires completed: 31 Kenya, 2 Ethiopia, 8 Tanzania, 3 Burkina Faso, 5 Ghana, 3 Italy, 10 Greece, 1 France, 6 United Kingdom

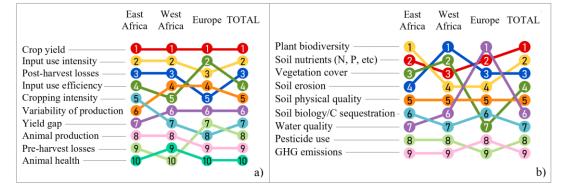


Fig. 1: Bump charts of the SI indicators' classification in the productivity (a) and environmental (b) domains as ranked by the researchers from East Africa, West Africa, Europe, and the Total.

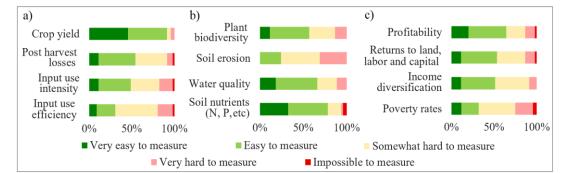


Fig. 2. Measurability score of the most relevant indicators within the productivity (a), environmental (b) and economic (c) domains as assigned by the EA and WA researchers.

Conclusions

- → Crop yield, Profitability and Food security -> unanimously identified as the 1st most relevant indicators in their respective domains
- \rightarrow Environmental domain -> very diversified priority perceived from EA, WA and EU researchers based on the agro-environmental context
- → High awareness of African researchers of the relevance of Post-harvest losses (3rd) in the food security issue in Africa
- → Outcomes -> provide a basis to outline the framework for the SI assessment of the tested technologies within the EWA-BELT project

Acknowledgments: H2020 project EWA-BELT [GA 862848] www.ewabelt.eu Facebook: ewabelt.project Twitter/Instagram: ewabelt_project