

wageningen soil conference

MASTERCLASS

M24: Reliable decision support systems for dealing with complex soil health issues

Name main contact: Marko Debeljak

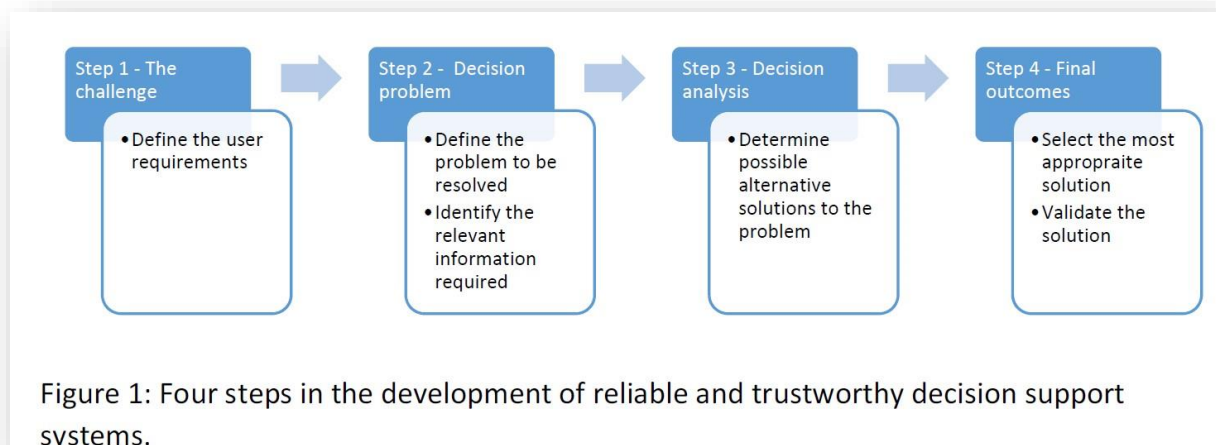
Institution: Jozef Stefan Institute

Short description:

Decision support systems (DSS) are very powerful tools that facilitate the decision-making process in the assessment and management of soil properties, processes, functions and health. Solving complex soil issues requires reliable and trustworthy DSS developed by validated modelling methods. The workshop will provide instructions for developing such a DSS and the participants will be guided through four key methodological steps that address the following questions related to soil health:

1. What are the soil-related problems and who is the owner of these problems?
2. What are the decision problems and what are the alternative solutions?
3. What method of decision analysis should be used and what input data are needed?
4. What criteria should the end user apply in selecting the most appropriate solution proposed by the DSS?

The DSS developed with the presented methodology can also be used as a knowledge graph that enables the digitised storage and exchange of soil expert knowledge.



Theme: Advances in measuring and modelling soil processes

Keywords: soil health, decision support systems, decision modelling, methodology

Type of masterclass: Tutorial