

Transactional Environmental Support System

WP4: Information supply from modelling

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Overview and context in TESS project of WP 4

Task 4.1: Creation of data-base of models suitable for bio-socio-economic predictions

Task 4.2: Analysis of gaps in modelling and data sources







SWMM

SOIL

Login

Info

Info

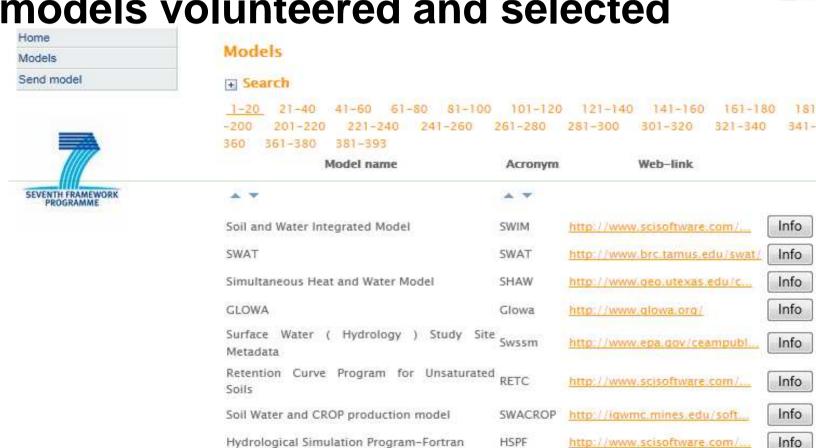
http://www.epa.gov/ednnrmrl.

http://www.trantu.ca/acadam

TESS database: 198 models volunteered and selected

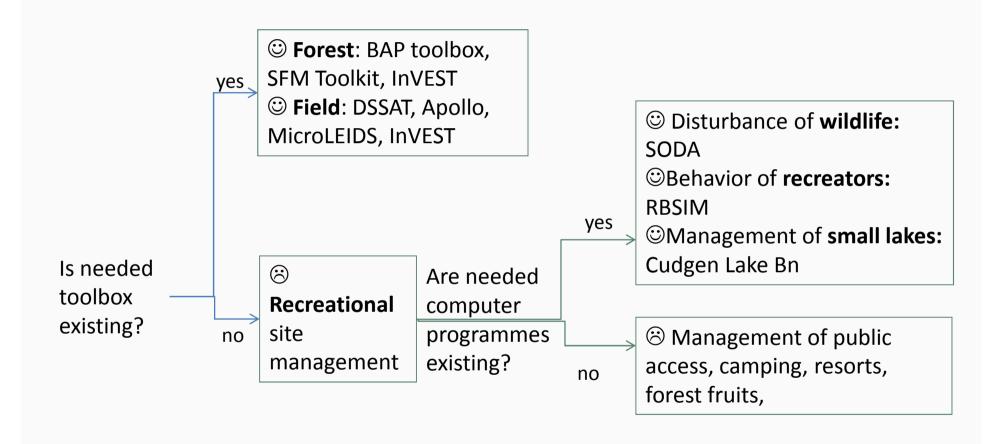
Storm Water Management Model

Soil parameter Estimation





TESS Gap analysis for toolkits





Results of gap analysis

- The existing **Crop Management Toolkits** cover soil health issues well but lack wider field health issues such as ecosystems around the fields (grassy field margin etc.) providing biodiversity, biocontrol agents, pollinators and other services
- An existing **Sustainable Forest Management Toolkit** addresses forest health issues well. However, it has been applied mostly in Canada. Hence, adaption to the European conditions might appear challenging.
- There's no comprehensive Recreational Site Management Toolkit yet. Such a toolkit needs to be created. The core models for that might be RBSIM and SODA.





TESS Results of thematic gap search

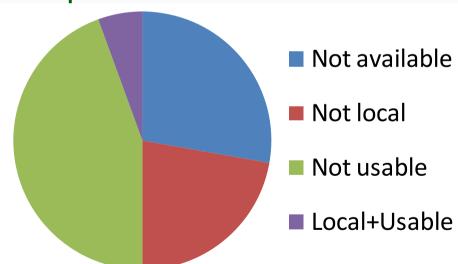
Ecosystem service type	Information demand	Information supply	Conclusion
Biodiversity	high	low	thematic gap!
Provisioning	low	high	ok
Regulating	medium	low	thematic gap!
Supporting	medium	high	ok
Cultural	medium	low	thematic gap!





Applicability of models for non-expert local stakeholders

Database models (198): 50% were no longer available or not for local use, with only 6% deemed usable locally by nonexperts.



>Other ECOBAS models (195):

84% were no longer available or not for local use; none were deemed usable locally by nonexperts.

