Introduction to tools and methods for assessing and anticipating synergies and trade-offs

Getting started
Tools and methods for Assessing and Anticipating Synergies & Trade-offs

- Why do we need tools and methods for anticipating and managing synergies and trade-offs?
- What are examples of existing tools and methods for assessing synergies and trade-offs at different scales and levels?
- When to use which tool or method?
Why do we need tools/methods for anticipating and managing synergies and trade-offs?

- Food, land and water systems are complex
- Models/methods to promote systems understanding
  - Deliberate choices to be made, e.g.
  - Where to place system boundaries
  - Which parts of the system to omit
Analysis & design in a real world

Research
Deepening understanding. Computer models can offer a structured, reproducible way. Input data can be obtained through stakeholders or ‘big data’ sources.

Implementation
Translating findings for end-users. Stakeholders play a central role, but computer models can assist.

Based on Goewie, 1993
What are examples of existing tools and models for assessing synergies and trade-offs at different scales and levels?

- Different spatial levels
- Can be used sequentially
- Mostly designed for researchers in collaboration with other stakeholders
When to use what?

- This learning module contains tool & method descriptions and case studies to show how the model can be used.

- Consider from the start:
  - What is the purpose that the modelling/use of the method serves?
  - Who are the users of the tool/method?
  - Who are the intended end-users of the results?
Further reading?

