

WP6: High resolution spatial land system and behavioural models

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Why?

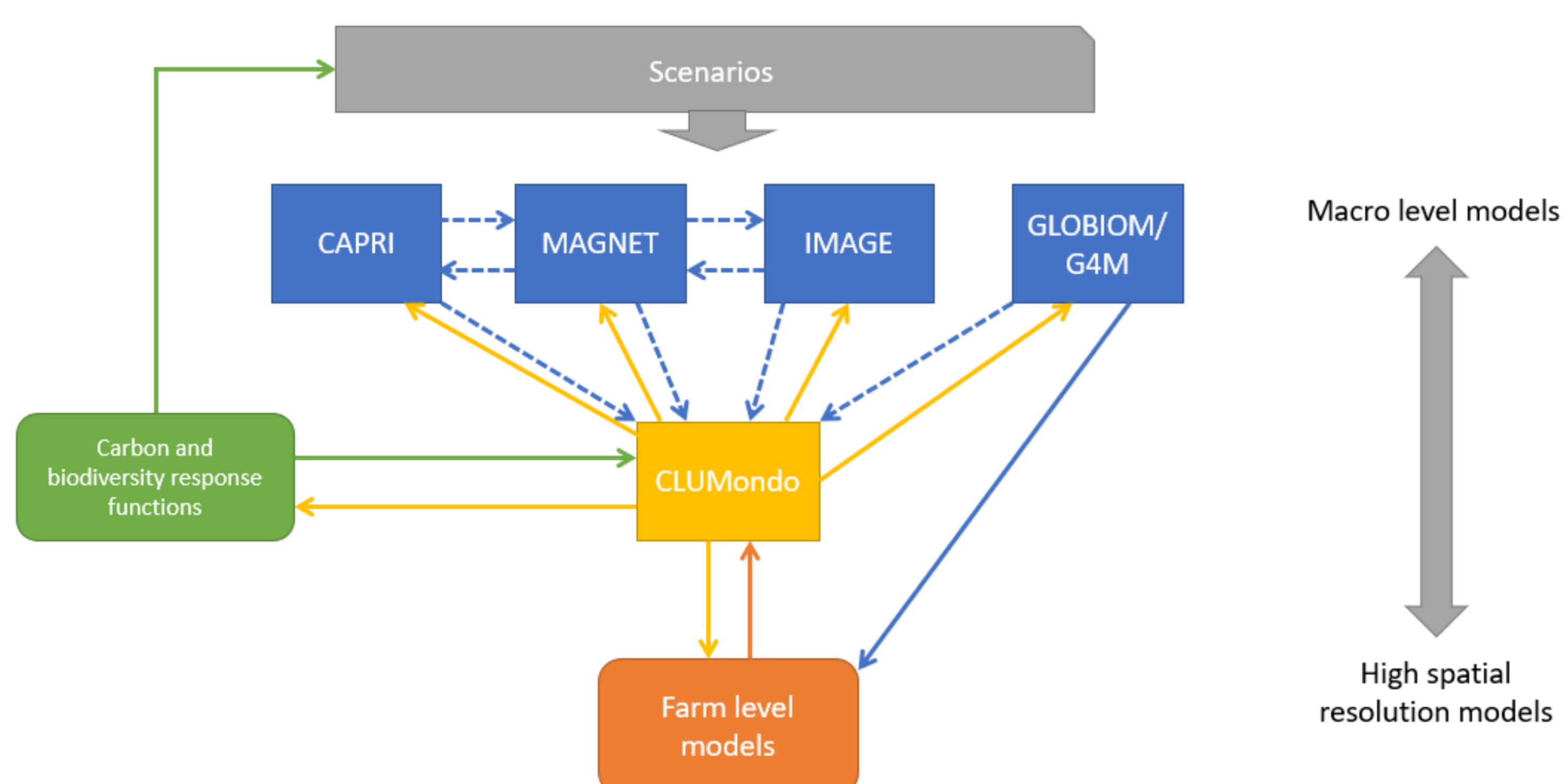
- Current policy impacts assessment on land use change and biodiversity commonly do not account for indirect policy effects:
 - EU/national/regional policies have local impacts
 - Zoning and farm-specific policies impact EU/national/regional goals
- We need to understand potential synergies and trade-offs between policy goals such as increasing organic agriculture and biodiversity in the EU

What?

- Model coupling framework to capture cross-scale dynamics of land use change (bringing together large-scale, macro-level & high spatial resolution models)
- Improved high-resolution land use model that better reflects the policy outcomes
- Maps of future land systems based on different scenarios
- Regional case studies to capture potential farm level economic response to policies

How?

- Review existing linkages between GLOBIOM, CAPRI, MAGNET, IMAGE and CLUMondo high-resolution spatial allocation model
- Adapt CLUMondo to reflect state-of-the-art input data and land system legend, and improve linkages with macro models
- Run model scenarios in CLUMondo with inputs from macro-models



Concept of the model coupling framework

