Kennis voor Klimaat

Knowledge for Climate

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THEME 3 CLIMATE ADAPTATION FOR RURAL AREAS

What are the effects of climate change and autonomous adaptive strategies (i.e. adaptation strategies undertaken by autonomous actors such as famers and nature conservation organizations) on a multitude of land-use functions in the rural landscape of the Netherlands?

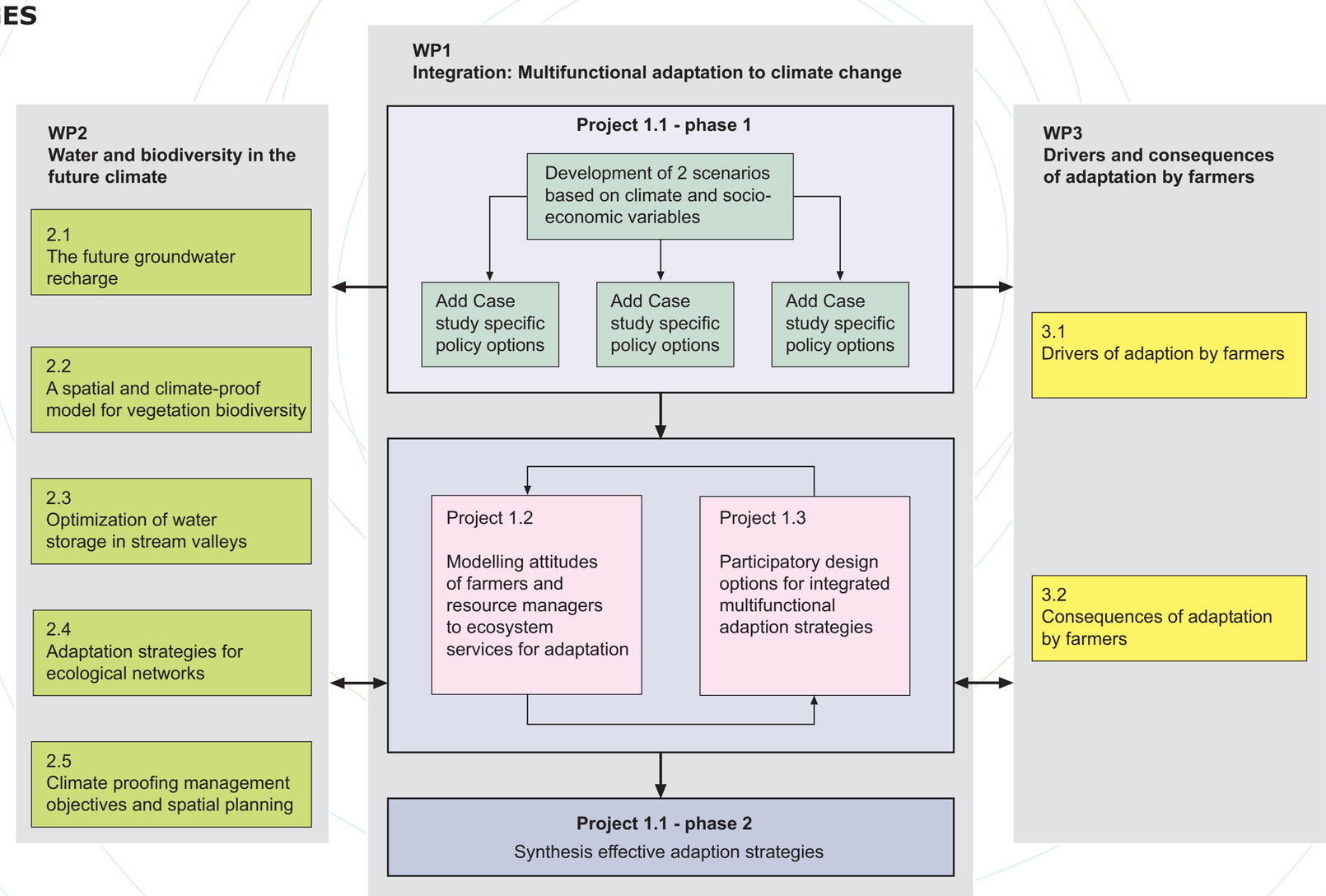
THE RESEARCH

- Focus on three case study areas, in close cooperation with local and regional stakeholders.
- Two contrasting climate scenarios will be explored within the context of one plausible socio-economic scenario.
- Region-specific policy options concerning spatial planning, drainage, water prices, etc. will be defined together with the stakeholders.
- The spatially-explicit feasibility and effectiveness of adaptation strategies, as well as their support from local autonomous actors will be investigated.

OUR APPROACH

We combine state-of-the-art research on the biophysical response to climate change with innovative methods to explore the human dimension of adaptation to climate change. We aim to predict the autonomous developments of hydrology, nature, and agriculture, and combine these developments and their interactions in one land cover / use / management model. Policy recommendations will be formulated, following an integrated impact assessment of the autonomous adaptation strategies under the various policy options.

WORK PACKAGES



This programme should support policy makers to:

- achieve a climate-proof ecological structure that allows meeting high-standard climate-proof nature targets;
- in such a way that costs for food-producing farmers are minimized and benefits for diversifying farmers are optimized;
- and the overall functionality of the landscape, in terms of water management, biodiversity, agriculture, drinking water, and recreation is maximized.

Working with hotspots

- Hotspot Shallow waters and peat meadow areas
- Hotspot Dry rural areas
- Hotspot South-West Netherlands Delta
- Hotspot Wadden Sea

Stakeholders involved

- At individual level (farmers and nature managers), and co-operations of individual stakeholders and ngo's (LTO, Natuurmonumenten) and various drinking water companies;
- Governmental institutions (Staatsbosbeheer, provinces, Environmental Assessment Agency (PBL), water boards / STOWA) and ministries (LNV, VROM, and V&W).

THE CONSORTIUM PARTNERS

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