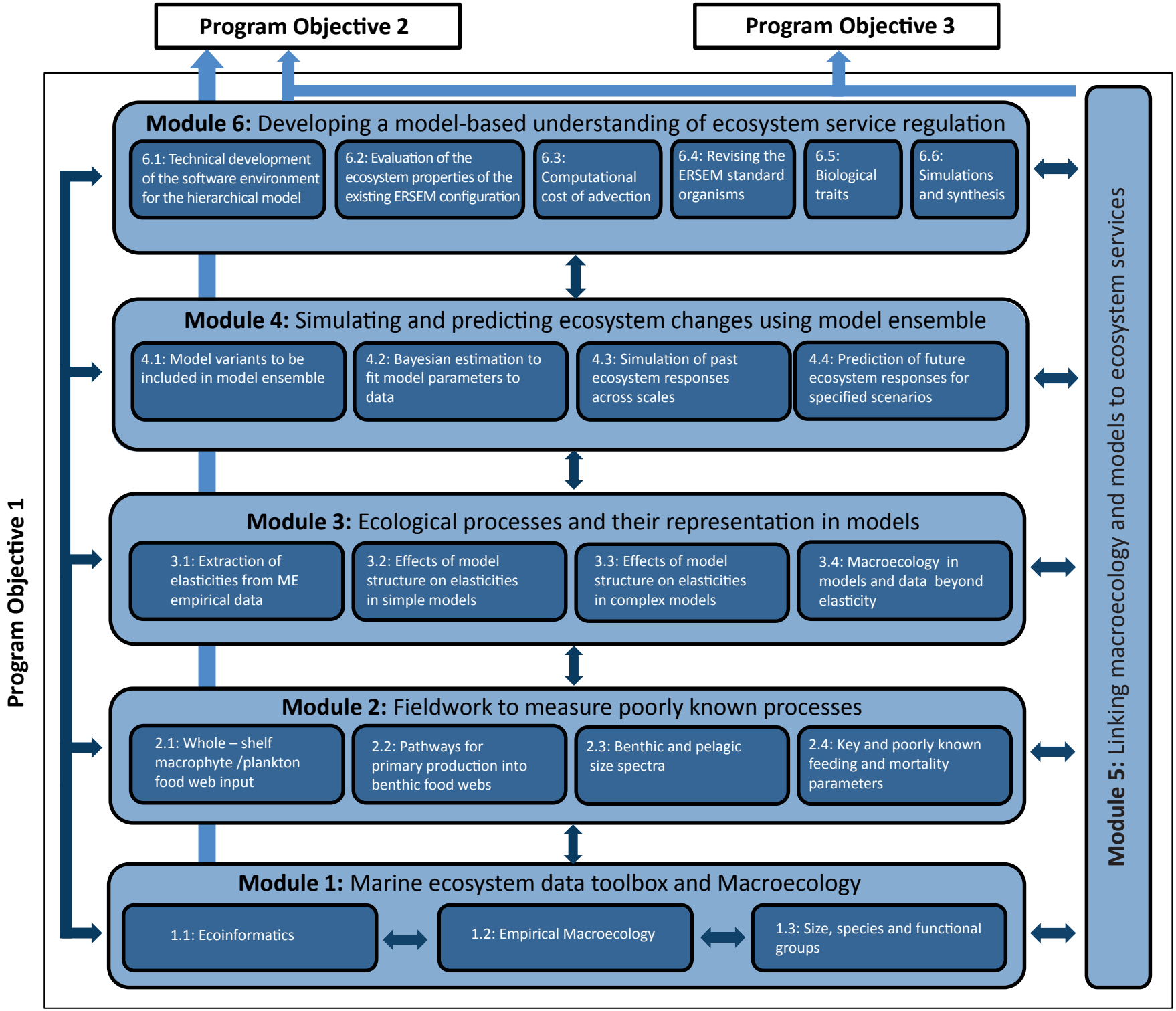
Program Objective 2
Program Objective 3
Module 6: Developing a model-based understanding of ecosystem service regulation
6.1: Technical development of the software environment for the hierarchical model
6.2: Evaluation of the ecosystem properties of the existing ERSEM configuration
6.3: Computational cost of advection
6.4: Revising the ERSEM standard organisms
6.5: Biological traits
6.6: Simulations and synthesis
Module 4: Simulating and predicting ecosystem changes using model ensemble
4.1: Model variants to be included in model ensemble
4.2: Bayesian estimation to fit model parameters to data
4.3: Simulation of past ecosystem responses across scales
4.4: Prediction of future ecosystem responses for specified scenarios
Module 3: Ecological processes and their representation in models
3.1: Extraction of elasticities from ME empirical data
3.2: Effects of model structure on elasticities in simple models
3.3: Effects of model structure on elasticities in complex models
3.4: Macroecology in models and data beyond elasticity
Module 2: Fieldwork to measure poorly known processes
2.1: Whole – shelf macrophyte /plankton food web input
2.2: Pathways for primary production into benthic food webs
2.3: Benthic and pelagic size spectra
2.4: Key and poorly known feeding and mortality parameters
Module 1: Marine ecosystem data toolbox and Macroecology
1.1: Ecoinformatics
1.2: Empirical Macroecology
1.3: Size, species and functional groups
Program Objective 1
Module 5: Linking macroecology and models to ecosystem services