

ESDecide project:

from Ecosystem Services Framework to Application for Integrated Freshwater Resources Management

Marcin Penk, Jeremy Piggott (Trinity College Dublin, Ireland), Mary Kelly-Quinn (coordinator), Michael Bruen, Craig Bullock (University College Dublin, Ireland), Mike Christie (Blue Island Consulting, UK), Christian Feld (University of Duisburg Essen, Germany), Jasper Kenter (University of York, UK)

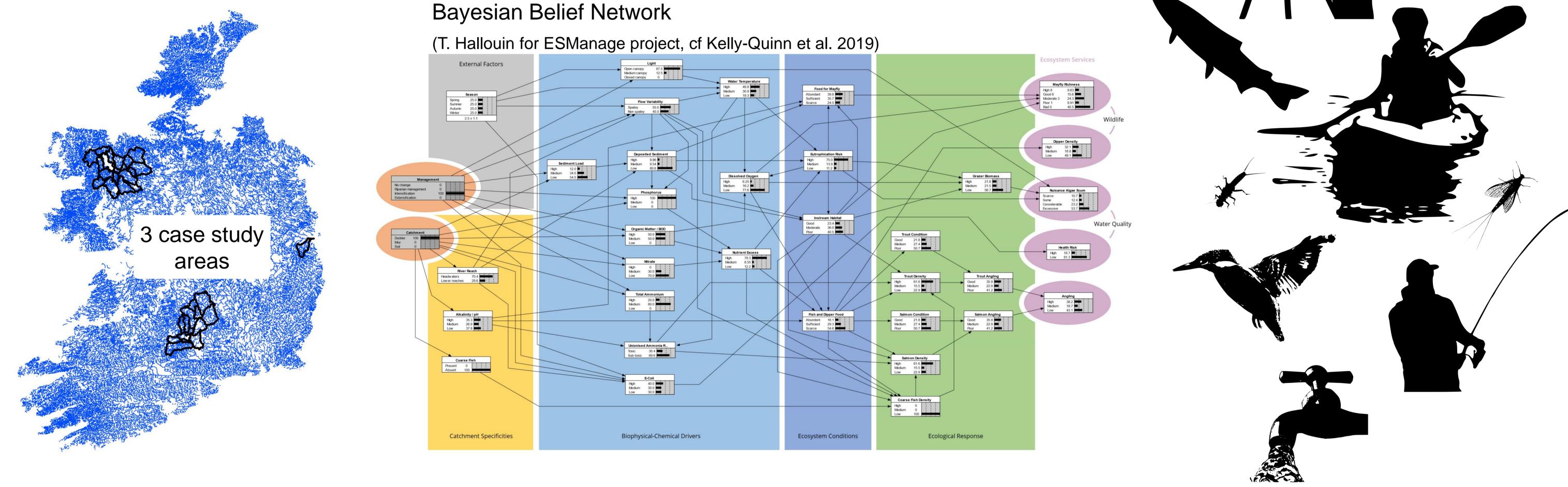


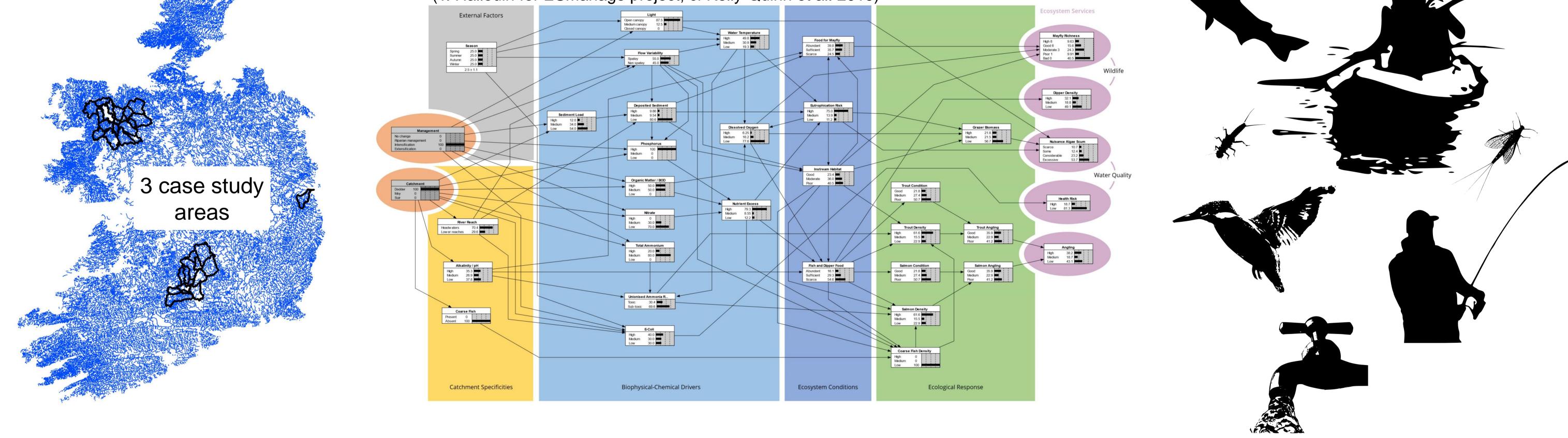




Economic & Valuation

> Ecosystem Services





Freshwaters cover <1% of the Earth's surface but contribute disproportionately highly to ecosystem services, including water for consumption and food production, sanitation and recreation.

Freshwaters are also among the most degraded and threatened ecosystems, undermining these services. The ecosystem services

ESDecide (2019–2022) develops an evidence-based decision-support tool for Ireland's river ecosystems using a Bayesian Belief Network (BBN) model linking managerial decisions to the desired ecosystem service outcomes through biotic and abiotic causality chains.

The existing provisional BBN model will be restructured and reinforced

framework can be a useful management tool, because it focuses on targets with existing stressor-response data. Ecosystem services will undergo

that policy makers, managers and stakeholders can directly relate to.

monetary and non-monetary valuation. The BBN model will then be

developed into an intuitive online decision-support tool.

