

## Partner organisations:

THE UNIVERSITY of York

CEGIS

CORDIO

SEI STOCKHOLM ENVIRONMENT INSTITUTE



সুশীলন  
Shushilan



The University of York

Stockholm Environment Institute (SEI)

Coastal Oceans Research and Development in the Indian Ocean (CORDIO) East Africa

Kenya Marine and Fisheries Research Institute (KMFRI)

Bangladesh Centre for Advanced Studies (BCAS)

Centre for Environmental and Geographic Information Services (CEGIS), Bangladesh

Sushilan, Bangladesh

United Nations Environment Programme (UNEP)

## Whole Decision Network Analysis for Coastal Ecosystems (WD-NACE)

A UK Department for International Development, Natural Environment Research Council, and Economic and Social Research Council funded project as part of the Ecosystem Services for Poverty Alleviation (ESPA) Programme framework

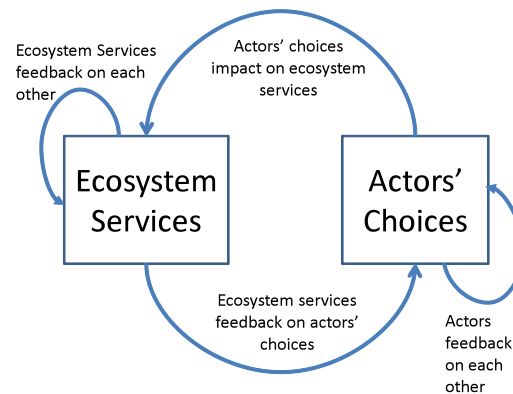


The ESPA research programme aims to “provide the evidence and tools to enable decision makers to manage ecosystems sustainably and in a way that contributes to poverty reduction”

## Summary of project

The WD-NACE team will be working with partners in Kenya and in Bangladesh to understand coastal resource use and management and their implications for human well-being and poverty alleviation. The 'whole decision network' of the title indicates that the research will assess integration of locally-grounded knowledge about climate change, ecosystem health and resource use to power and decision networks. The main objectives are to understand:

- How human actors working autonomously as well as within the power networks generate, share and select knowledge and act upon it;
- How social and ecological interactions across multiple scales produce non-linear feedbacks that pose a challenge to sustainability of both the ecosystem services and the livelihoods that depend on these services.



This will help understanding of 'how decisions are made' for coastal resource use and management and can also contribute towards creating a locally-validated knowledge base for poverty reduction. The overall aim is to help decision takers at all levels, both in situ and internationally, to better understand what knowledges resource-users cum decision-takers at the local level utilise to determine their action. WD-NACE will focus on

understanding how the actions of human actors influence ecosystem services and poverty alleviation and how these 'outputs' in turn influence their actions (see diagram).

### Main expected findings

WD-NACE will develop a conceptual framework that links ecosystem and livelihood domains to knowledge networks and decision structures. It will make novel applications of mathematical and computational tools within the context of participatory research methods.

### Key personnel include

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### For more information

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For more information on the ESPA Programme see <http://www.esi.ac.uk/espa/>