

#### Ecosystem Science for Policy & Practice



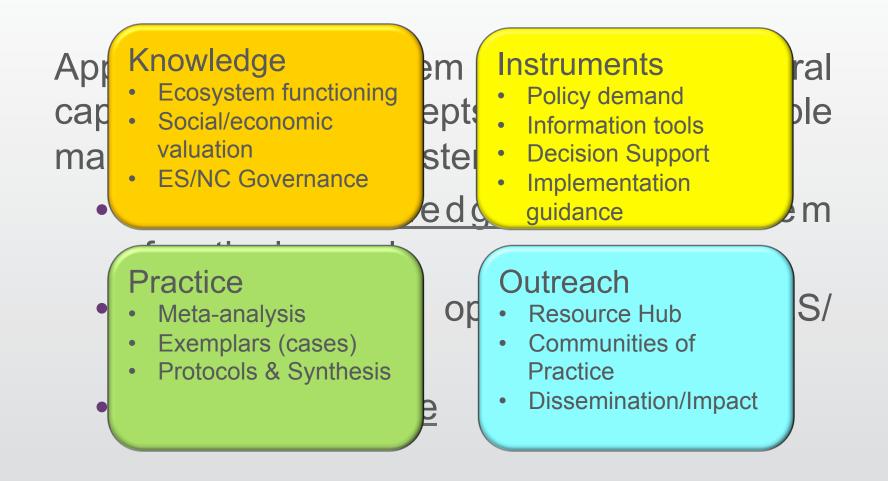
#### Overview of OPERAs

Operational Potential of Ecosystem Research Applications

> Mark Rounsevell University of Edinburgh



#### The OPERAs vision



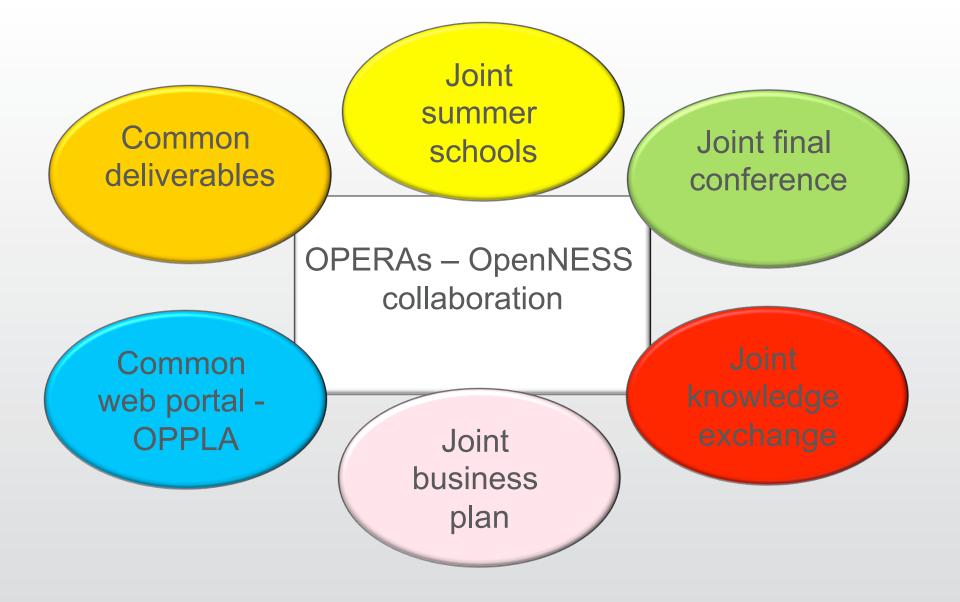


### The assessment cycle

Valuation











## Science needs: meta-analysis of ES/NC studies

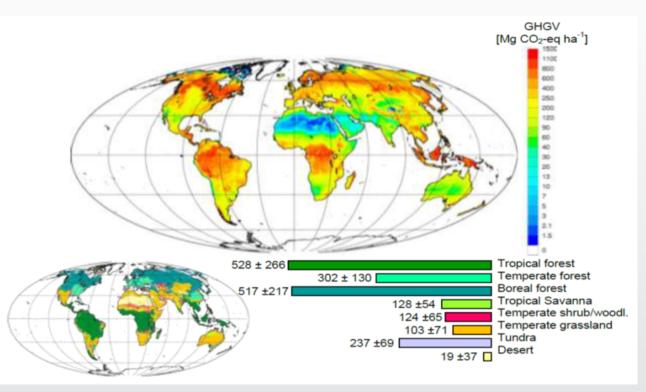
- A lack of cultural ES studies
- Little exploration of future ES scenarios
- A geographic bias towards the US, Europe and China
- A focus on ES supply and little on ES demand
- Little involvement of stakeholders
- Over use of simple models that are often not validated nor have quantified uncertainties
- Very few studies (<20%) provide specific recommendations





## Science: mapping ES supply

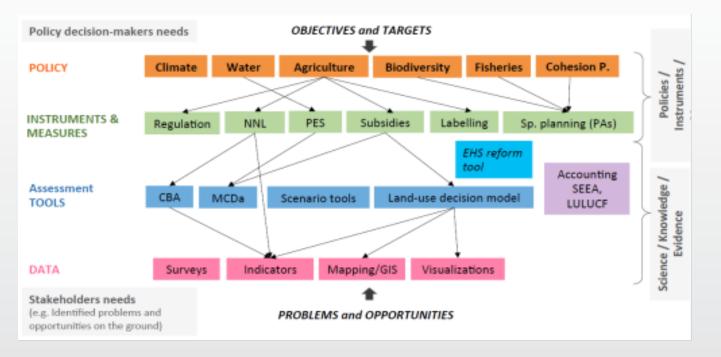
Greenhouse Gas Value simulated for 2000 under consideration of actual land-sue and management (global average is 325 ± 267 Mg CO2-equivalents ha-1).



- Mapping of ES supply is common for terrestrial ecosystems using land cover as a spatial proxy
- A clear lack of ES supply mapping in marine ecosystems



## EU policy needs: demand analysis



- Weak uptake of the ES/NC concepts in policy instruments
- Potential for greater conceptual and operational integration
- Monitor policy impact to inform policy development or refinement
- Replicating the policy needs study in Scotland



#### Practice

- 12 exemplars across Europe
- Used to test ES/NC instruments in practice
- Currently developing <u>films</u> to introduce each exemplar
- Action in practice



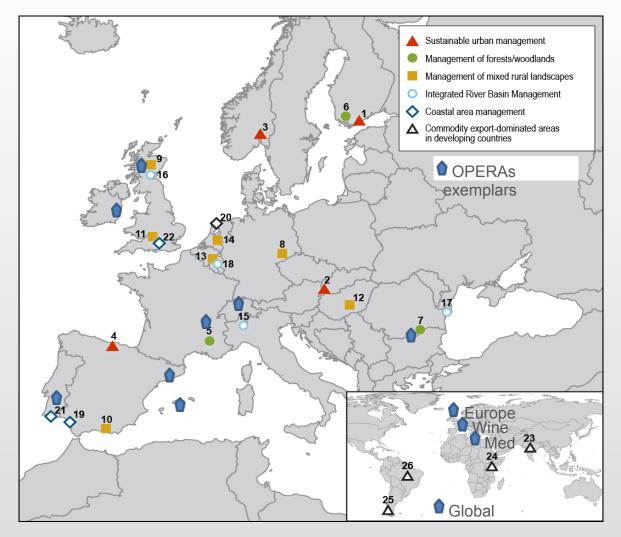
Place-based, e.g. Dublin's urbanrural fringe



Sectoral, e.g. wine production



### The OPERAs exemplars & OpenNESS



Total of 38 exemplar case studies (12+26)

case studies





#### Outreach

- International activities- IPBES, IPCC, MAES, National NC accounting, IUCN small islands conference (overseas territories), UK National Ecosystem Assessment
- Communities of Practice Ecosystem Services Community Scotland (ESCom-Scotland)
- **The Resource Hub** OPPLA (with the OpenNESS project)



Conserving Montado cultural landscapes, Portugal



## Ecosystem Services Community – Scotland

- Bringing together the major Scottish research providers with
- Government, government agencies, research and HEI, NGOs, professional organisations, trade bodies & SMEs
- Launch and science workshop
  in Spring 2014
- Management team now in place













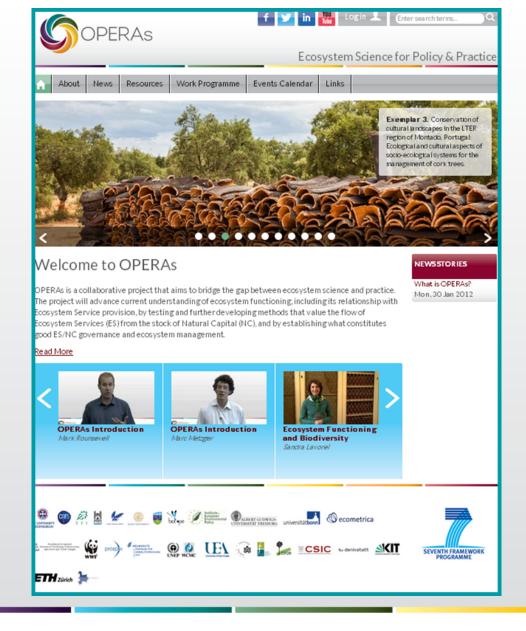




- Developing content data, tools, maps, guidelines, worked examples, videos, training, education, services (SMEs), …
- Planning for perennity (continuity beyond the project lifetimes)
- Business model and planning (governance, income streams, ...)







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## Any questions?

