

## **UK National Ecosystem Assessment**

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<u>Ecosystem Approach – Taking Stock</u>

<u>Economic Perspectives from the NEA</u>

Acknowledgement to Ian Bateman and Lucy Simpson for slide materials



















### **UK NEA Purpose and Scope**

the UK's 1st attempt at a fully national scale assessment of the benefits that the natural environment provides to people

- current status and trends
- drivers of change
- plausible scenarios
- valuation

**Provisioning** 



Provision of timber

Regulating



Regulation of climate

Cultural



Recreation and tourism

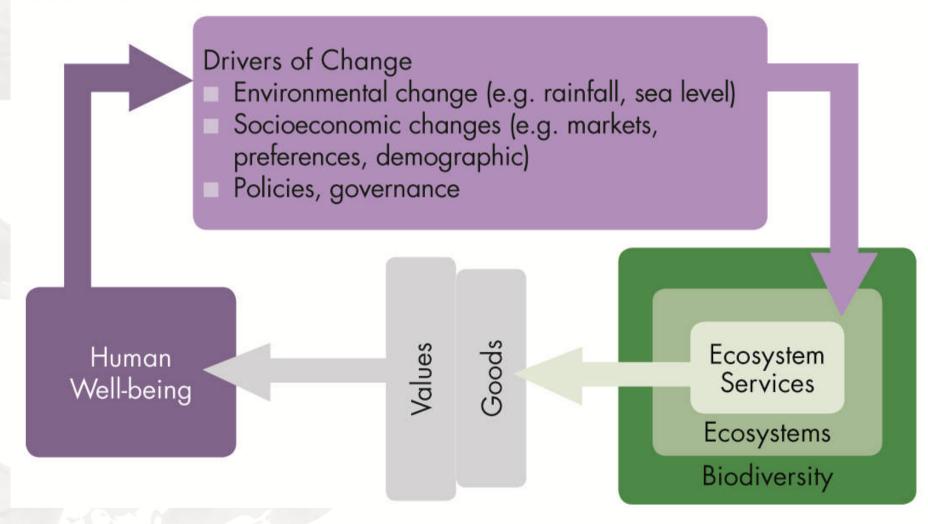
#### **Supporting**



Cycling of nutrients

### **UK NEA Conceptual Framework**

Social feedbacks



# **Economic Analysis of UK Natural Environment and Ecosystem Services**

W	hy	bo	th	er?

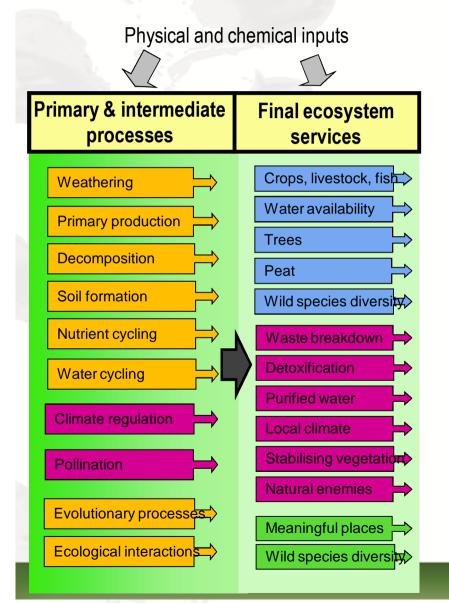
☐ Free, competitive markets are highly efficient allocators of market priced resources ☐ But market and governance systems fail to reflect the full costs and benefits of changes in natural resources and the environment e.g. water quantity and quality, flood defence, recreation and tourism, fisheries, forestry, etc. ☐ Likely that decisions do not maximise values ■ Welfare is compromised ☐ In the longer term, decisions may not be sustainable.

Cultural

Provisioning

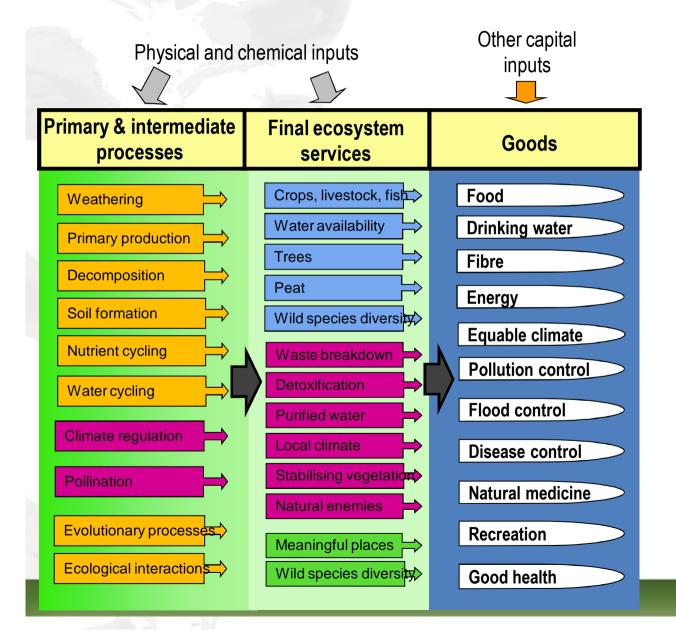
Regulating

Supporting

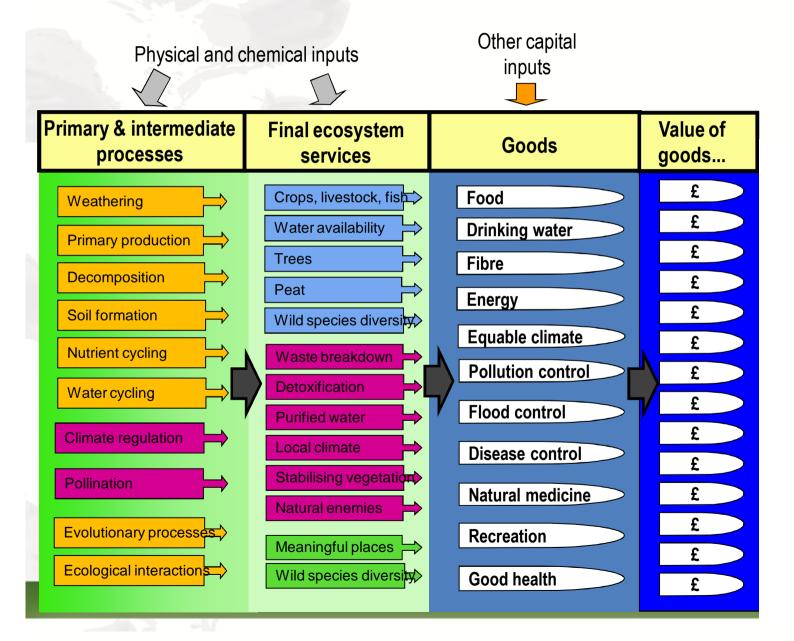


Cultural
Provisioning
Regulating

**Supporting** 



UK National Ecosystem Assessment



Cultural

**Provisioning** 

Regulating

Supporting

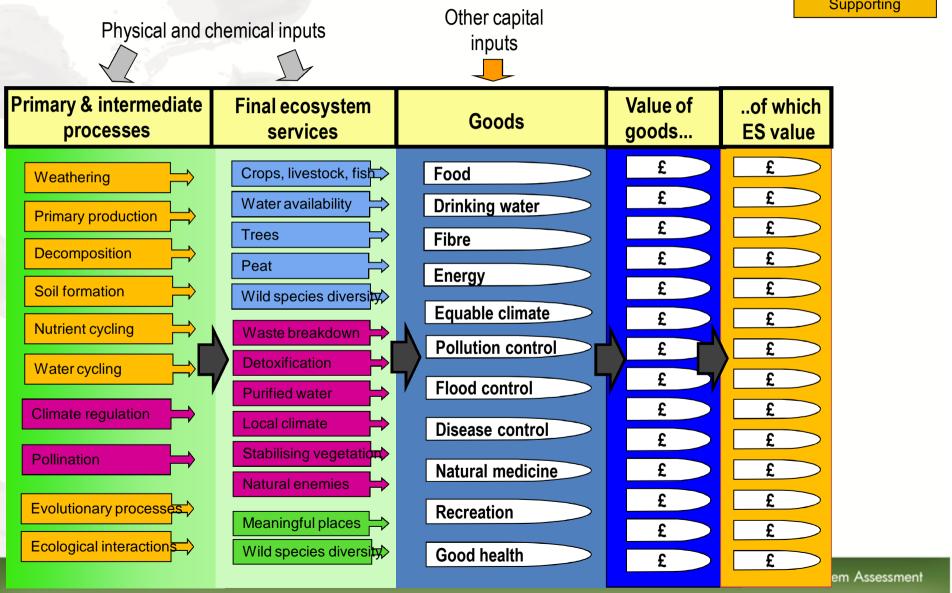
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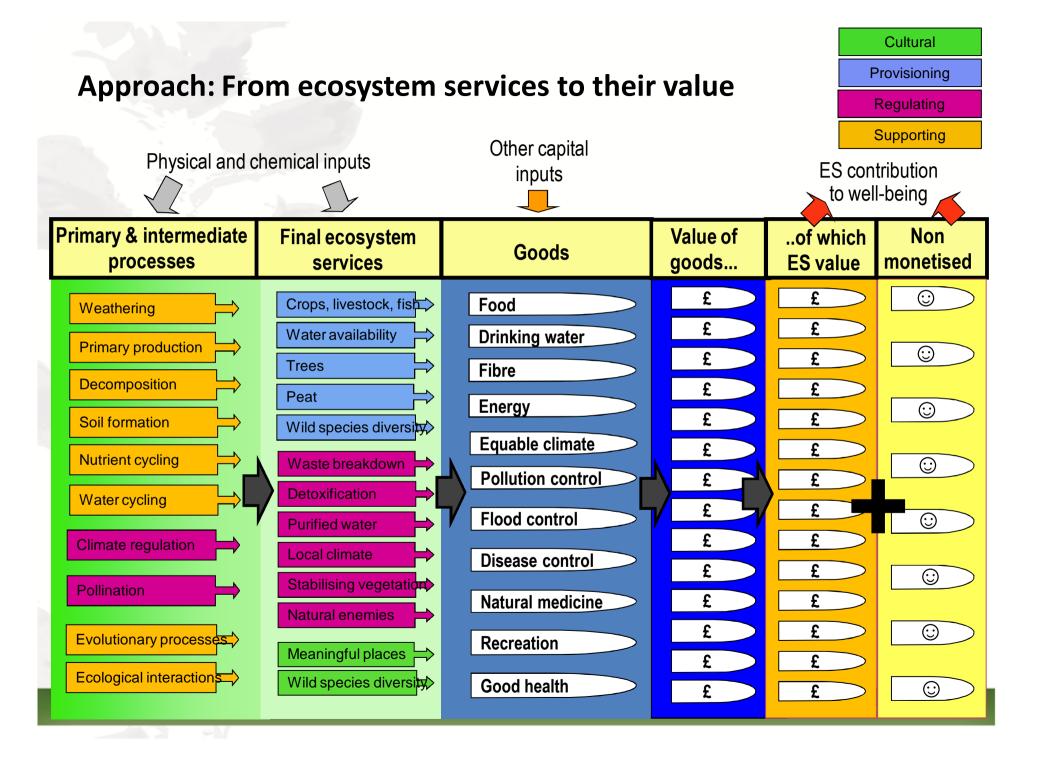
Cultural

Provisioning

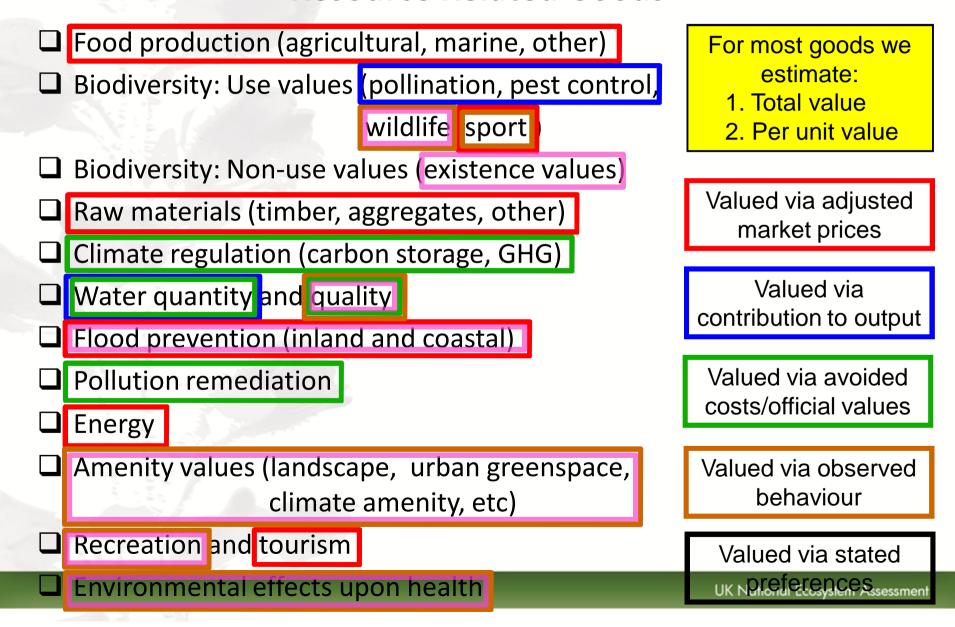
Regulating

**Supporting** 





# NEA: Ecosystem Service and Environmental Resource Related Goods



## Issues and challenges

- ☐ Understanding biophysical relations
  - Stocks/capital and flow/services
  - > Feedbacks and thresholds
  - > Handling variation, scale and uncertainty
- Valuation
  - > Values, value and valuation
  - 'Units of service' and 'final goods'
  - Benefit 'transfer'
  - Integrating economic and non-economic valuation
- ☐ Governance and implementation
  - > Engaging people: 'buy in'
  - Making decisions: making a difference



http://uknea.unep-wcmc.org