



Natural England's Natural Capital Indicators Project

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Approach and Natural Capital 22.5.19

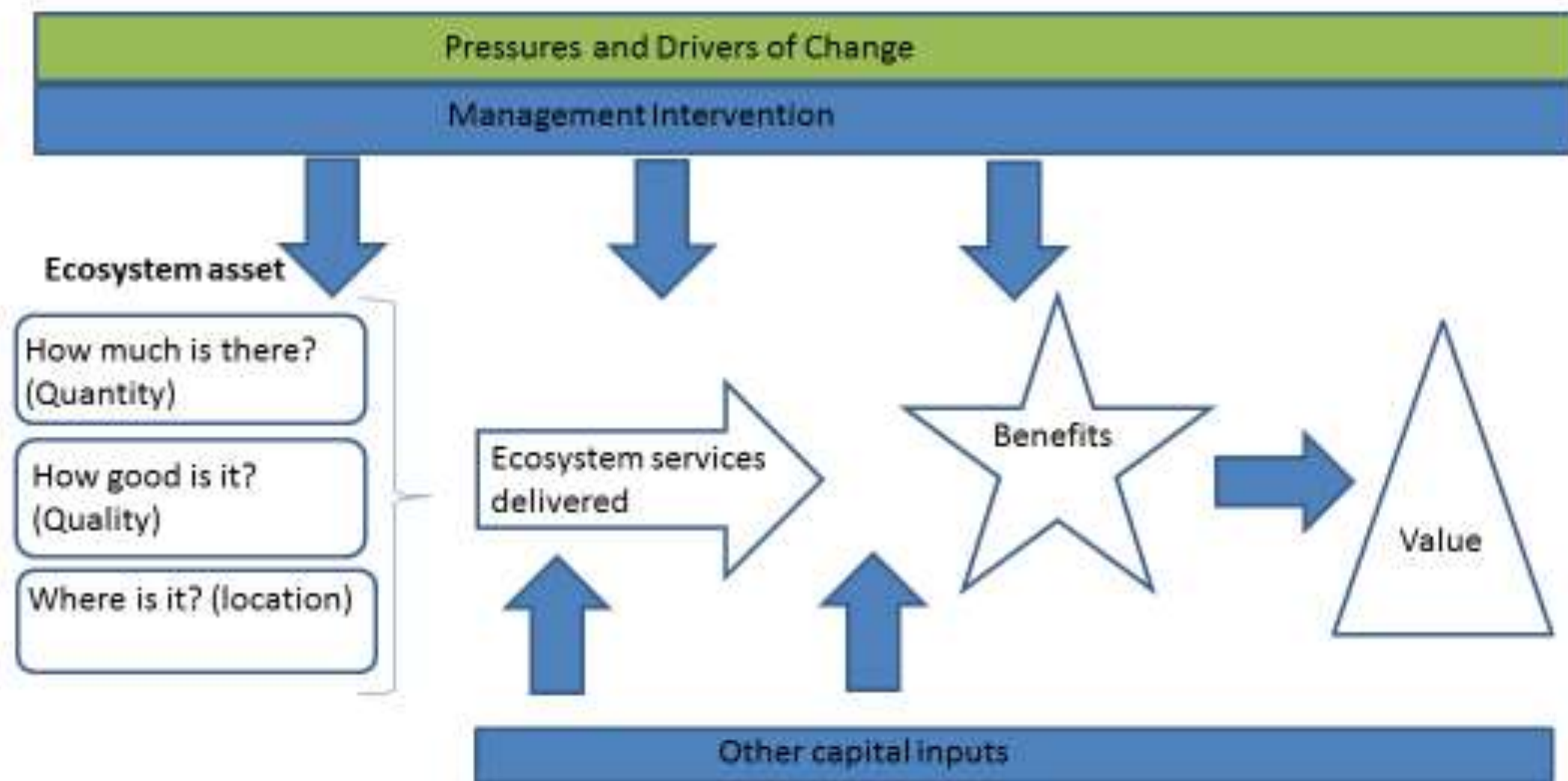
What are the ideal indicators for measuring change in natural capital?

What data can be used to do this?

What are the data gaps?



Natural England's natural capital logic chain



Who have we involved so far?

**50+ detailed logic chains for
17 ecosystem services in
8 broad habitats identifying
short list indicators**

88 people took part:
59 NE Specialists
29 EA Specialists

2 NE Deputy Chief Scientists
did the quality assurance

1 Excel spreadsheet



Extent of habitat: e.g. blanket bog, coastal & marine habitats, woodland, heath, semi-natural grassland, freshwaters, wetlands, urban blue and green space

Quality:

- 1. Hydrology and geomorphology: e.g. Naturalness of water levels, flows, flooding, extent of artificial drainage.
- 2. Nutrient/chemical status – of water, soil/sediment, air
- 3. Soil/sediment: carbon, biota, peat depth, coastal sediment supply.
- 4. Species composition: e.g. naturalness of biological assemblage
- 5. Vegetation: e.g. vegetation cover, structure, roughness
- 6. Cultural e.g. nature, landscape, historic and cultural, accessibility, quietness, facilities, safety

Location: e.g. to mediate water or air quality, for natural flood management

CAPTURED, WITH DATASETS AND DATA GAPS, IN AN EXCEL SPREADSHEET

Examples of uses for work so far:



- Office for National Statistics condition indicators
- 25 Year Plan evidence annex and metrics
- NE Natural Capital Accounts for NNRs
- Eco-metric Project: quality and spatial configuration indicators
- Review of Monitor of Engagement with Natural Environment
- Assessment of agri-environment contribution to natural capital
- Assessment of CSF contribution to natural capital
- York University evidence review of indicators and metrics
- Others e.g. update of Scottish Natural Capital Asset Index, N Yorks County Council, NE Focus Areas (e.g. Suffolk and Norfolk), West of England Nature Partnership, Marine Pioneer, Lake District National Park, Water Companies for business planning



Natural Capital Atlases: for England, an example local place and three Marine Protected Areas

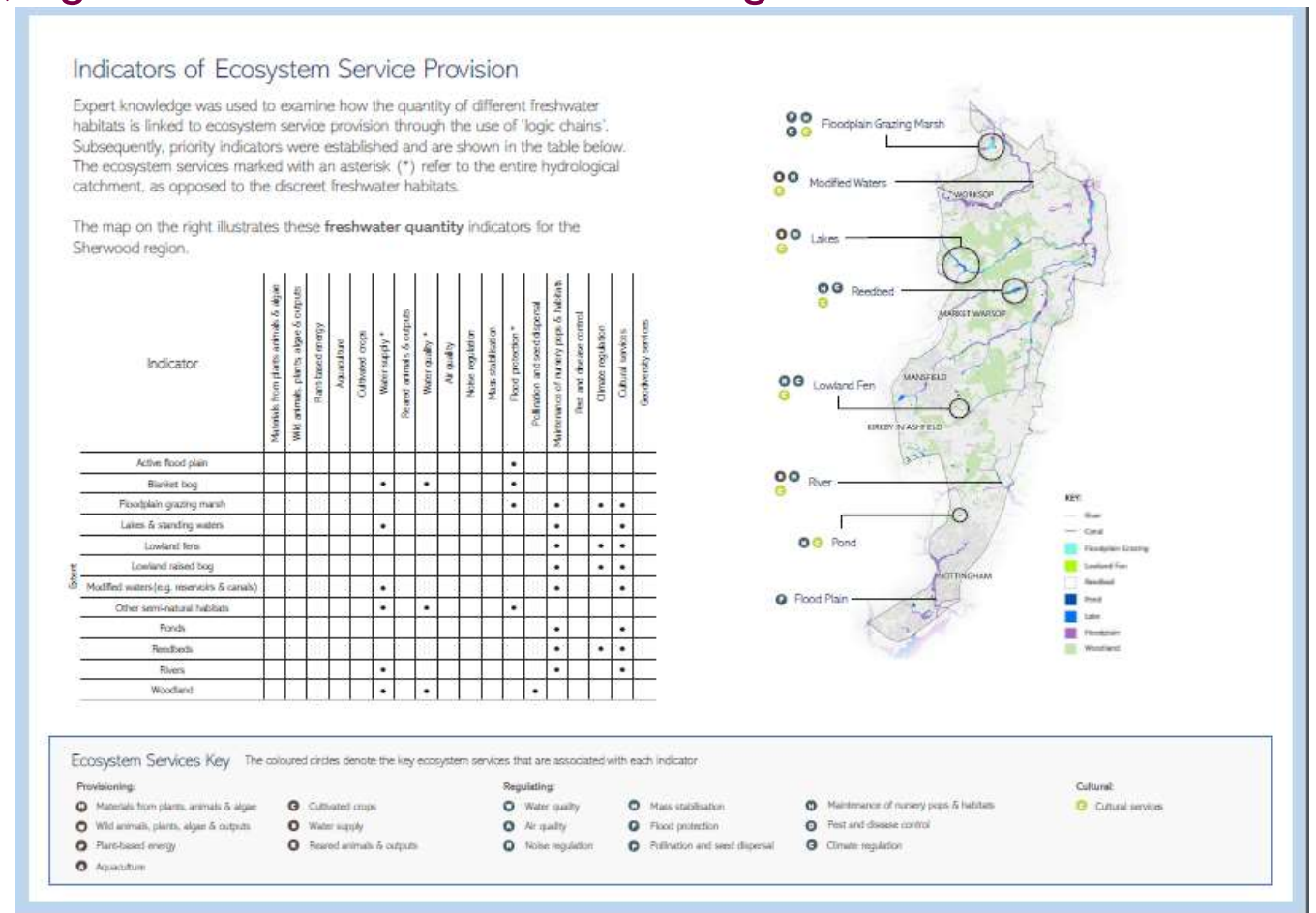


Mapped and tabulated baseline assessments of natural capital nationally (i.e. for England) and locally (Sherwood local area and 3 MPAs), against which to measure change.

Key outputs Natural capital baseline assessments for:

- England
- Sherwood
- 3 MPAs: Flamborough Head; Solent Maritime; Inner Dowsing, Race Bank and North Ridge

PLUS: GIS Template for the future development of local natural capital baseline assessments.



Natural England Research Report NERR076

Natural Capital Indicators: for defining and measuring change in natural capital

<http://publications.naturalengland.org.uk/publication/6742480364240896>

Includes:

- Final report
- Brief method statement
- Summary of results overall and for each broad habitat
- 51 detailed logic chains
- Printable tables
- Excel spreadsheet of short and long list indicators, data to measure these and data gaps