

NEA mid-term meeting,  
February 4-5, 2013

Living With Environmental Change

# UK National Ecosystem Assessment

## *Follow-on*

## WP5 – Shared, cultural and plural values

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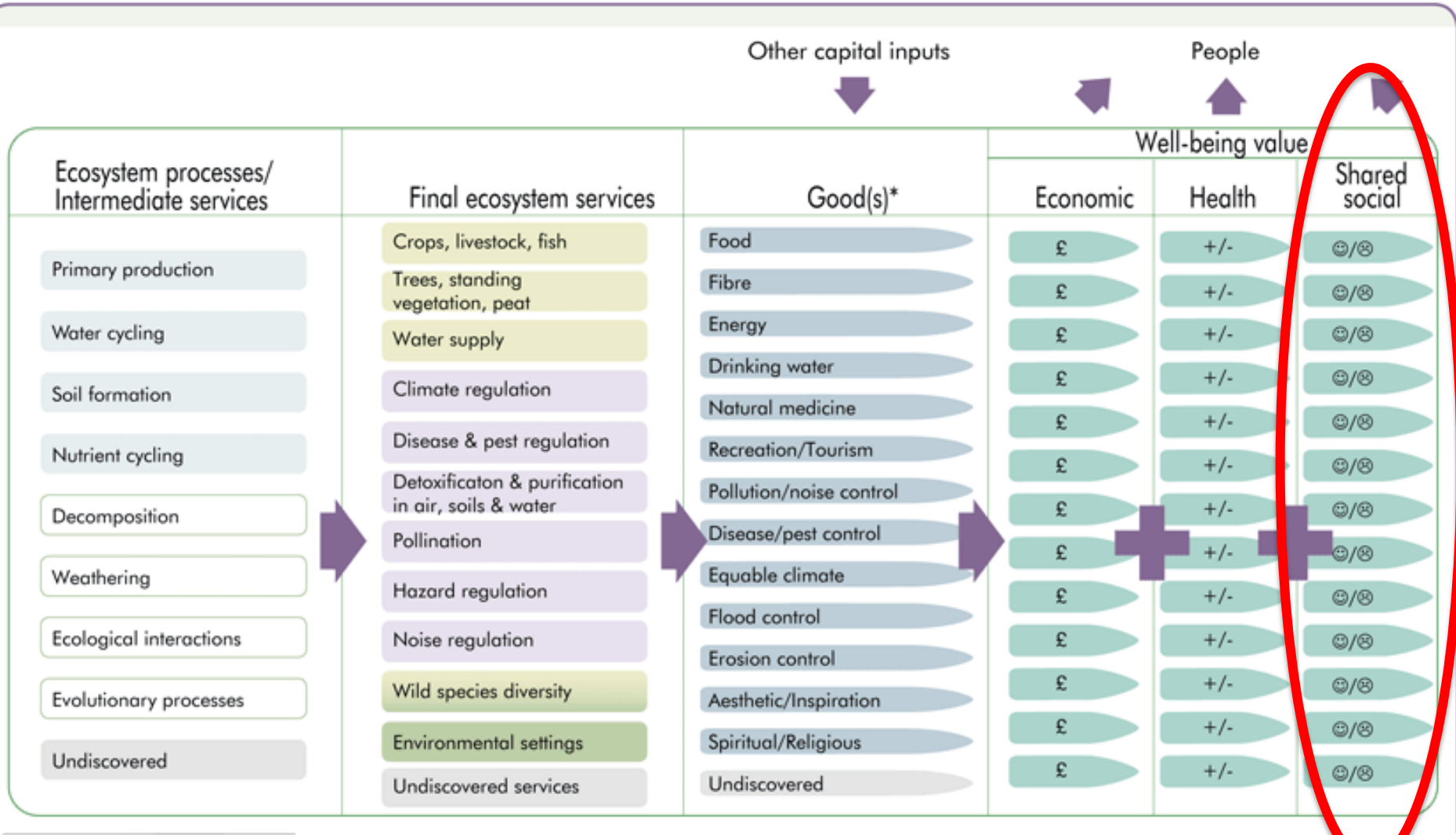


# Outline

- Work package aims
- Activities
- Progress so far



# NEA framework



# Given aim

*To understand the respective impact of cultural, shared and plural values versus aggregated individual values on cultural ecosystem service decision making and outcomes.*

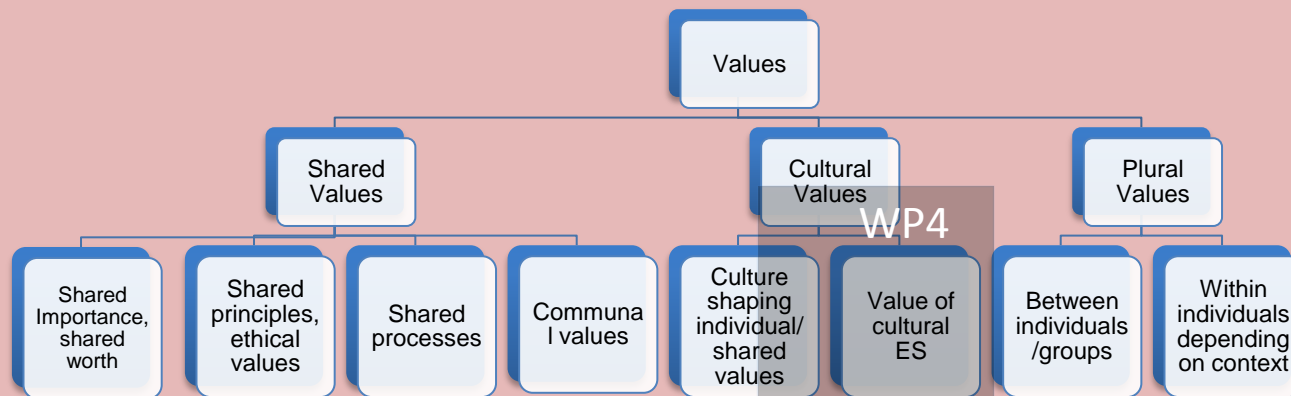
# Role of deliberation in shaping shared, plural & cultural values

Expensive luxury or essential to accurately capture values?

## How can we assess these different types of values?

Individual versus group-based techniques

Monetary versus non-monetary techniques, including qualitative & narrative based approaches



Shared, plural and cultural values for nature

# Activities

- Review
  - Systematic
  - Discursive
- Empirical work:
  - Local case study: Inner Forth (ex-ante)
  - National MPA case study (ex-ante)
  - Local MPA case study: Hastings (ex-ante)
- Knowledge exchange

# Individual vs. shared values



Monetary valuation



Subjective wellbeing



Narrative



Multi-criteria analysis

	Forth	MPAs	Hastings
Individual Non-deliberated	●	● ▲	▲
Individual Deliberated	●	● ▲	▲ ●
Shared Deliberated	●	● ●	● ●
Communal			■

# Progress so far: case studies

- Ongoing informal peer-review
- **Forth:** workshops completed, final stage of data analysis
- **MPAs:** online survey complete (draft report by Feb 18), design for MCA & DMV workshops near-complete, workshops March-April
- **Hastings:** established relationship with stakeholders; rough methods outline; data gathering late April.



# Preliminary results – Inner Forth Community Council workshops

Forth

Individual  
Non-deliberated



Individual  
Deliberated



Shared  
Deliberated



Deliberation:

- WTP decreases
- Relative importance of biodiversity vs. recreation increases

Shared values:

- Competing social priorities
- Importance of fairness

# What are important personal values for you?

✓ BELIEFS ✓

A WORLD AT  
Peace etc  
✓ ✓

EQUALITY  
EQUAL OPPORTUNITY  
FOR  
✓

FAMILY ✓ ✓

FAMILY ✓ ✓

HONESTY ✓ ✓

MUTUAL  
RESPECT ✓ ✓

RESPECTING  
THE EARTH etc ✓

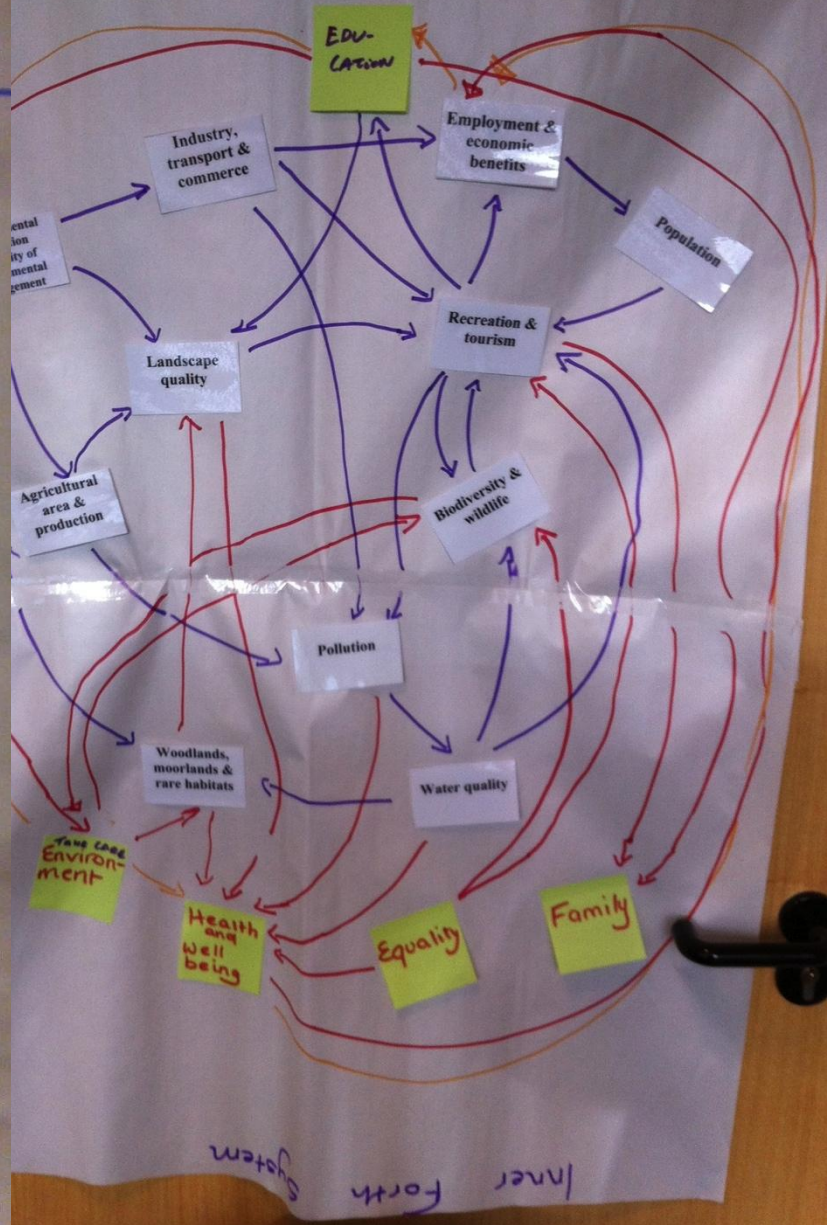
RESPECTING  
THE EARTH etc

Preserving nature  
✓ ✓

SOCIAL JUSTICE  
CARE FOR POOR

HEALTH CARE  
FOOTPRINT  
✓

# Inner Forth System



# Indicators of subjective wellbeing from cultural ecosystem services

- 15 item quantitative instrument
- Developed from:
  - NEA 1 CES framework & Human Scale Development Matrix
  - Sense of place literature
- Validated against:
  - ‘Your seas, your voice’ – qualitative answers in large-scale survey on marine protection
  - 4 focus groups with divers & anglers

# Benefits associated with CES

- Aesthetics & beauty
- Identity, attachment and nostalgia
- Reflection
- Sense of connectedness & wholeness
- Spirituality
- Health
- Knowledge
- Social bonding
- Participation

# Wellbeing indicators for proposed MPAS visited: exploratory factor analysis

- Visiting these sites makes me feel more connected to nature
- Visiting these sites has made me learn more about nature.
- I have felt touched by the beauty of these sites
- These sites inspire me
- I feel like I can contribute to taking care of these sites.

## *Factor 1*

‘Engagement with nature’

23% variation

- These sites feel almost like a part of me
- I feel a sense of belonging in these sites
- I miss these sites when I have been away from them for a long time.

## *Factor 2*

‘Attachment & identity’

18% variation

- Visiting these sites clears my head
- Visiting these sites leaves me feeling more healthy
- Visiting these sites gives me a sense of freedom.

## *Factor 3*

‘Restoration’

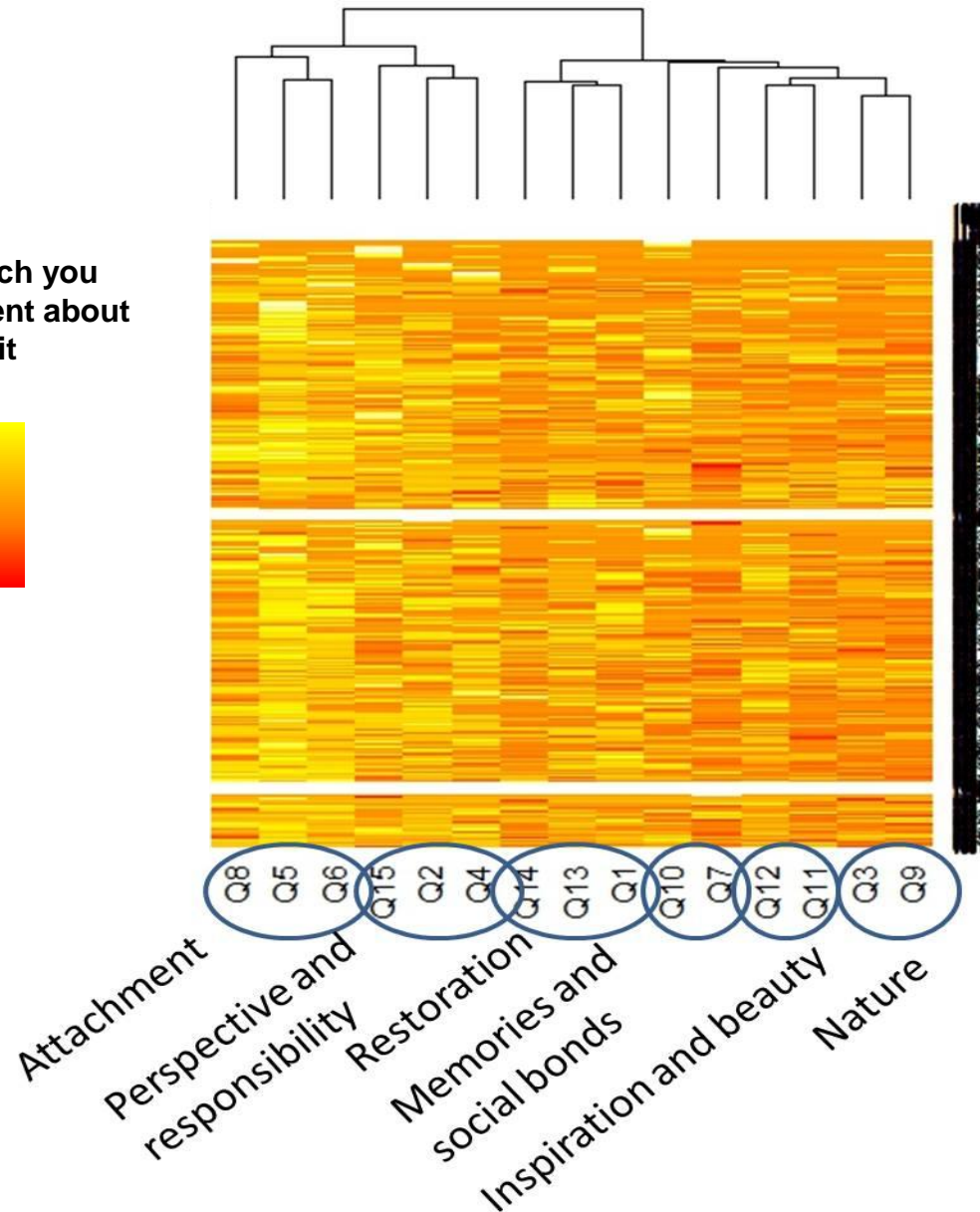
17% variation

- I gain perspective on life during my visits to these sites
- I have made or strengthened bonds with others through visiting these sites
- At these sites I feel part of something that is greater than myself

# Indicators of wellbeing: cluster analysis

Please indicate how much you agree with each statement about the marine sites you visit

- 1 = strongly disagree
- 2 = disagree
- 3 = neutral
- 4 = agree
- 5 = strongly agree



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