

# UK National Ecosystem Assessment

## *Follow-on*

### UK NEA follow on phase WP2

### Macroeconomic implications of ecosystem service change and management

Annela Anger, *UEA*

Stanislav Shmelev, *Environment Europe*



# WP 2

- ***Aim:** Provide a scoping review and research agenda for understanding the **macroeconomic** implications of ecosystem service change and management in the UK.*
- **WP2.1** - Literature review
- **WP2.2** - Mapping ecosystem services and their values against their macro implications - NACE sectors
- **WP2.3** - Assessment of methods and models
- **WP2.4** - Comparison of existing methods and models to identify the differences (differences in theory, coverage, etc.)
- **WP2.5** - Establish a provisional research agenda
- **WP2.6** - Final report

# WP 2 - Progress

**WP2.1** done

**WP2.2** in progress

**WP2.3** started

Regular feedback from our advisory board and Defra and Environment Agency

1<sup>st</sup> Workshop 28<sup>th</sup> February – 1<sup>st</sup> March in Madingley Hall Cambridge

# WP 2.1 – Literature review

**Conducting an extensive SYSTEMATIC literature review of macroeconomic implications of policies and usage regarding ecosystem services**

- Includes existing academic and grey literature
- identification of key services and their connections with creation of jobs, sectoral outputs, GDP, trade, investments, etc macro indicators
- impacts on countries that provide ecosystem services for other countries
- geographic coverage of literature as wide as possible

WP2.1 is concerned the conventional/formal accounts (NACE rev 2 classification), impacts of non-market services on national accounts considered as much as possible. Direct and indirect impacts. Additional output – literature database

# WP 2.1 – Literature review

- Main findings: no comprehensive quantitative study on ecosystem services contribution to conventional accounting has been done, sectoral studies more common but often partial
- Final draft circulated to our advisory board, critical friends and Defra/Environment Agency
- Feedback received 25<sup>th</sup> January
- Currently reviewing the report
- Aim to circulate to the expert group, stakeholders by 11<sup>th</sup> February

# WP 2.2 – Mapping

Ecosystem\_Services\_NACE\_Mapping\_AA.xlsx - Microsoft Excel

Home Insert Page Layout Formulas Data Review View Add-Ins Acrobat

PivotTable Table Picture Clip Art Shapes SmartArt Column Line Pie Bar Area Scatter Other Charts Hyperlink Text Box Header & Footer WordArt Sign Lin

C9 fx Water

	A	B	C	D	E	F	G	H
4				1	2	3	4	5
5				Agriculture	Forestry	Fishing	Coal extraction	Oil & gas extraction
6	ECOSYSTEMS AS INPUT TO ECONOMIC PROCESSES							
7	Provisioning							
8		Nutrition						
9	1	Water		2	2	2	0	0
10	2	Food		2	2	2	0	0
11		Materials						
12	3	Fibre		2	2	0	0	0
13	4	Genetic resources		2	2	2	0	0
14	5	Biochemicals, natural medicines		1	1	1	0	0

# WP 2.1 and 2.2 - issues

- Marginal vs not marginal impacts?
- Ecosystem service classification – fossil fuels?
- Sectoral classification – what is the appropriate level? Should the same level be used for all sectors?
- What to map?
- Relation to capital formation: produced (machinery), human (skills & knowledge), social (big society, localism) and natural capital
- Complexity
- Why are we doing this?
- Interactions with other WPs



# WP 2 - Workshop

- 28<sup>th</sup> February and 1 March
- Madingley Hall, Cambridge
- Discuss the issues related WP2.1 and WP2.2
- Way forward
- More stakeholders needed: Industry? Treasury? Funders?





# UK National Ecosystem Assessment

## *Follow-on*

**Thank you!**

[a.anger-kraavi@uea.ac.uk](mailto:a.anger-kraavi@uea.ac.uk)