Progress and Challenges for the Natural Capital Agenda

Prof Rosie Hails Dr Allan Watt



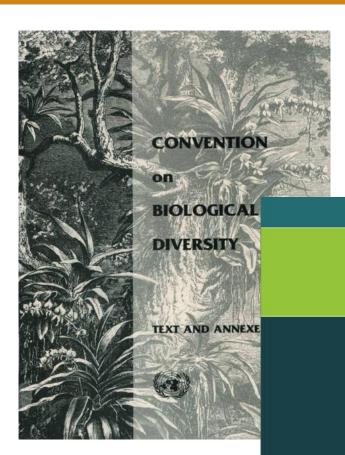








Natural capital and human well-being



Links between ecosystems and human well-being



ECOSYSTEMS AND HUMAN WELL-BEING

Synthesis



- Basic materials for a good life
- Health
- Good social relations
- Security
- Freedom of choice & action

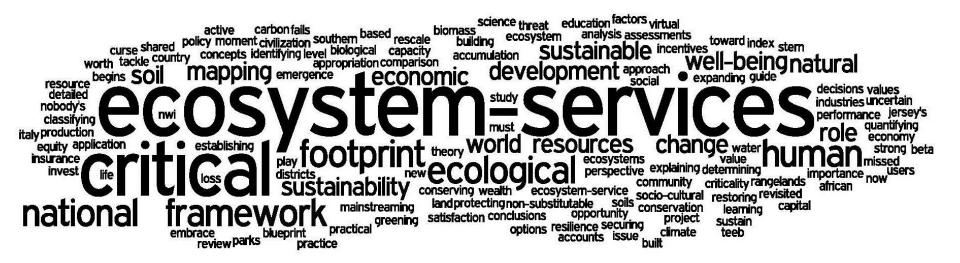
Natural capital publications – 1990s





Title of highly cited publications on natural capital ("natural capital" removed) in the 1990s.

Natural capital publications – since 2001





Title of highly cited publications on natural capital ("natural capital" removed) since 2001.

Natural Capital Initiative – Volss

To policy makers and planners:

Improved integration of science and policy across all sectors is necessary...

To business leaders:

Consumers, business and government all desire better resource management.
Business should not be reluctant to take the initiative...

To researchers:

New tools must be developed to include ecosystem services in decision-making.

To communicators and educators:





Selected key messages from first VoLSS

The Natural Capital landscape









ecosystemmarkets



Private sector / business interest





























incorporated



CAPITAL COALITION

















LifeWatch









UK National Ecosystem Assessmen













Insect Pollinators Initiative



espa

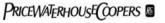


































































Ecosystem assessments - UKNEA

- Conceived in 2007/Started in 2009
- 500 authors
- Most comprehensive sub-global assessment to date
- Synthesis & Key findings June 2011
- Technical report November 2011
- 1,465 pages in 27 Chapters 5 kg!
- But more to do on valuation, scenarios
 & decision-making "tools"

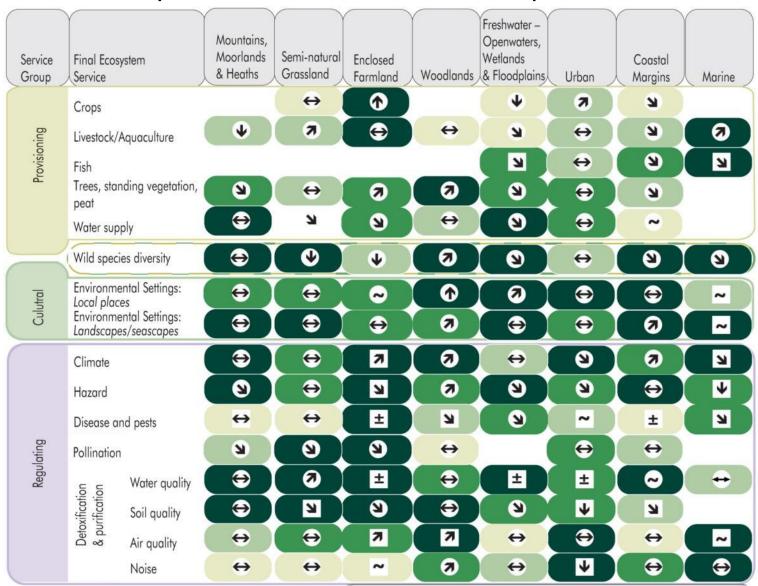




http://uknea.unep-wcmc.org/Resources/tabid/82/Default.aspx

NEA trends in ecosystem services

Physical measures; 1950 to present



Values





Financial Economic

Monetary

Market



Economic Non-market

Shared social and cultural values



Human health & wellbeing Economic



Non-use values

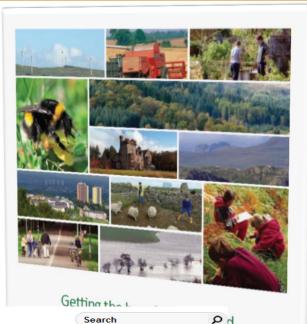
Adoption in Policy



The Natural Choice: securing the value of nature

Natural Environment White Paper (England)

Land Use Strategy (Scotland)





🔝 💟 😝 🕶 🚵 Contact Us | A-Z | Accessibility | Site Map | Cymraeg Legislation | Funding | Campaigns » My account | Register

A Living Wales - a new framework for our environment, our countryside and our seas

Home > Topics > Environment and countryside > Environment - conservation and management > A Living Wales

We all need to rethink the way we view, protect and manage the Welsh

environment.

Consultation

SHARE ■ Last updated 27 September 2011

Many people have become disconnected from their surroundings and underestimate the contribution

that a healthy environment plays in their everyday lives. So it is not surprising that the environment doesn't feature strongly in many decisions we make about our future or our personal well being.

With avancanals halp we want to shange this. We want to make the



Updates from meetings



Updates from the Living Wales groups

Written Statement - The **Natural Environment** Framework 'A Living Wales'

John Griffiths, Minster for Environment and Sustainable Development

Adoption in Policy - Europe



Our life insurance, our natural capital: an EU biodiversity strategy to 2020

"Biodiversity is... our natural capital, delivering ecosystem services that underpin our economy."



The 7th EU Environment Action Programme

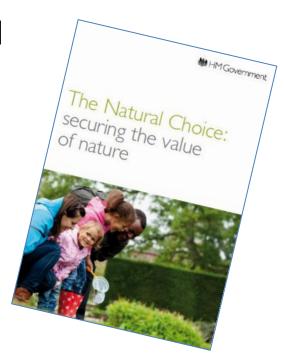
Nine priority objectives:

1. to protect, conserve and enhance the Union's natural capital

Natural Environment White Paper

- Four core themes
 - Protecting and improving our natural environment
 - Growing a green economy
 - Reconnecting people and nature
 - International and EU leadership
- 92 commitments
- Central thesis of value





Ecosystems Knowledge Network

- Natural Environment White Paper Commitment.
- A resource for anyone wanting to share knowledge or learn about the practical benefits of an ecosystems approach.
- UK-wide. 50 place-based projects.

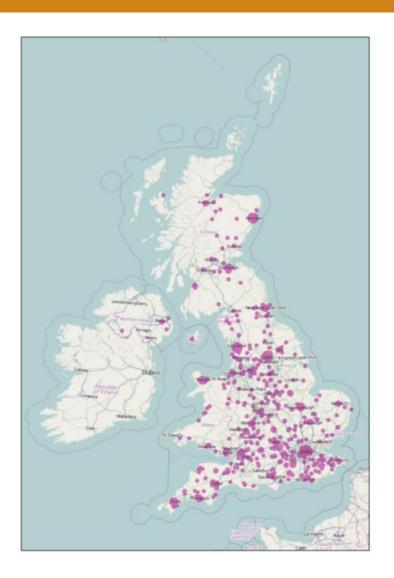












Activities

- National events for practitioners
- Sector champions
 - Health (scoping a tool kit for health commissioners)
 - Planning
 - Woodland & timber (best practice web page)
- Website with links to tolls, on-line resources ekn.defra.gov.uk
- Newsletter for practitioners project profiles, perspectives, event reports



Natural Capital Committee

Natural Capital Committee



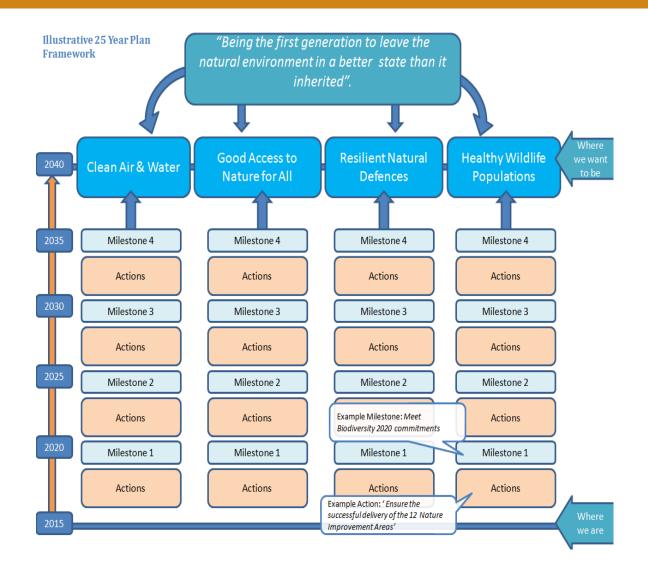
In the NEWP, the Government stated that the NCC would:

- Provide advice on when, where and how natural assets are being used unsustainably
- Advise the Government on how it should prioritise action to protect and improve natural capital;



Advise the Government on research priorities to improve future advice and decisions on protecting and enhancing natural capital.

Natural Capital Committee - 25 year plan





Natural Environment Research Council

- Valuing Nature Programme NERC lead
- Valuing Natural Capital in Low Carbon Energy Pathways Programme
- Biodiversity and Ecosystem Service Sustainability Programme









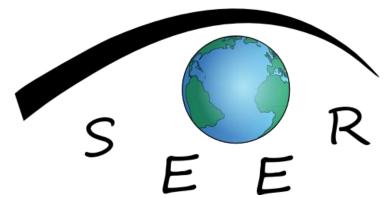


Economic & Social Research Council

 The NEXUS Network, including call on Sustainable Prosperity



 Social and Environmental Economic Research (SEER) into Multi-Objective Land Use Decision Making

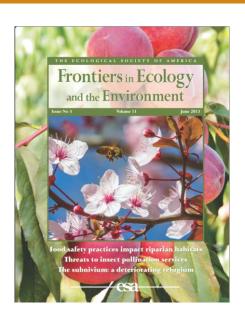




BBSRC

- IPI Insect Pollinators Initiative
- SARIC Sustainable Agriculture Research and Innovation Club
- GFS-SARISA Soil and Rhizosphere Interactions for Sustainable Agriecosystems
- THABPI Tree Health and Plant Biosecurity







Arts & Humanities Research Council

- NEA Phase 2: Arts & Humanities Perspective on Cultural Ecosystem Services
- Towards Hydrocitizenship: Connecting Communities through Interdependent Multiple Water Issues
- What Works Centre for Wellbeing





Future Challenges for Natural Capital

- Setting targets for benefits derived from natural capital
- Facilitating the underpinning interdisciplinary science that links natural capital with values



- Implementing new financial mechanisms to enable externalities to be internalised
- Linking local scale action to national scale strategy



To policy makers and planners:

Improved integration of science and policy across all sectors is necessary...

To business leaders:

Consumers, business and government all desire better resource management. Business should not be reluctant to take the initiative...

To researchers:

New tools must be developed to include ecosystem services in decision-making.

To communicators and educators:



To policy makers and planners:

Improved integration of science and policy across all sectors is necessary...

Derive a common understanding of what natural capital really means

To business leaders:

Consumers, business and government all desire better resource management.
Business should not be reluctant to take the initiative...

To researchers:

New tools must be developed to include ecosystem services in decision-making.

To communicators and educators:



To policy makers and planners:

Improved integration of science and policy across all sectors is necessary...

Derive a common understanding of what natural capital really means

To business leaders:

Consumers, business and government all desire better resource management. Business should not be reluctant to take the initiative...

Find and demonstrate ways in which sectors and initiatives can work, and are working, together to apply it

To researchers:

New tools must be developed to include ecosystem services in decision-making.

To communicators and educators:



To policy makers and planners:

Improved integration of science and policy across all sectors is necessary...

Derive a common understanding of what natural capital really means

To business leaders:

Consumers, business and government all desire better resource management. Business should not be reluctant to take the initiative...

Find and demonstrate ways in which sectors and initiatives can work, and are working, together to apply it

To researchers:

New tools must be developed to include ecosystem services in decision-making. *Identify* ways of ensuring that practical responses have scientific rigour

To communicators and educators:



To policy makers and planners:

Improved integration of science and policy across all sectors is necessary...

Derive a common understanding of what natural capital really means

To business leaders:

Consumers, business and government all desire better resource management. Business should not be reluctant to take the initiative...

Find and demonstrate ways in which sectors and initiatives can work, and are working, together to apply it

To researchers:

New tools must be developed to include ecosystem services in decision-making. *Identify* ways of ensuring that practical responses have scientific rigour

To communicators and educators:

We need a new, more accessible language to talk about our natural capital...

Understand in plain language the natural and social science behind it



To policy makers and planners:

Improved integration of science and policy across all sectors is necessary...

Derive a common understanding of what natural capital really means

To business leaders:

Consumers, business and government all desire better resource management. Business should not be reluctant to take the initiative...

Find and demonstrate ways in which sectors and initiatives can work, and are working, together to apply it

To researchers:

New tools must be developed to include ecosystem services in decision-making. *Identify* ways of ensuring that practical responses have scientific rigour

To communicators and educators:

We need a new, more accessible language to talk about our natural capital...

Understand in plain language the natural and social science behind it Communicate recommendations for ways forward across the sectors



