

@NCI_NatCap
#VoLSS



Valuing our Life Support Systems 2014

Report Launch 25th June 2015











Valuing our Life Support Systems

Main finding & key messages Prof Rosie Hails & Prof Mike Acreman





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Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL





Valuing our Life Support Systems 2014













Main findings

Valuation of natural capital

- enables use of rational policy and business tools for decision-making about investments in infrastructure
- will help us achieve long-term sustainability.

We need

- an ethical framework to ensure the appropriate use and fair distribution of the benefits of natural capital.
- robust and coherently applied concepts, terms and principles, based on sound science.
- to mainstream concepts; potential realised only when integrated across government, business & public.

Natural Capital Score Card - progress

	progress												
	conceptual framework in place		practical implications understood		evidence and tools available			good examples of implementation available		mainstream adoption of good practice			
definition of natural capital		** :	••	••		•	(•				•	•
natural capital and economics	***	••	••	•		••		_			•••		•
ethics of natural capital	•	*					•				•		•
natural capital and health	•	••	•	••	••	•	•	••		•	•		•••
natural capital and nature conservation	••	••		••	•	•	•	•••	•	•	•		
natural capital and cultural services		*		••	•								•
natural capital and business	•	•	••	••	••		•	•••	•		•		
natural capital and government policy	333.3	••	••	•	••		•			•	••		
natural capital and water management	*•	••	•		•	••	•	•	••	•			•
natural capital and urban environments	•	•		•	•	•		•				•	٩
natural capital and planning	*	••	•	•			•	•••	•	•••		•	•

Natural Capital Score Card – future priorities

	progress							
conceptual framework in pla		practical implications understood	evidence and tools available	good examples of implementation available	mainstream adoption of good practice			
definition of natural capital				*	*			
natural capital and economics	*	*		*	***			
ethics of natural capital		**	**	*	***			
natural capital and health			**		*			
natural capital and nature conservation			****	**				
natural capital and cultural services		**	*	*				
natural capital and business	*	**	★ ★★	*				
natural capital and government policy	★ ★★	**	*		****			
natural capital and water management		*	*	*				
natural capital and urban environments			***	***	**			
natural capital and planning		*		**	***			

To business leaders

- Re-position natural capital from a perceived problem, liability and fear into a sound, ethical, business investment opportunity
- Form partnerships with research teams and local stakeholders to identify impacts and improve access to research, data & measurement
- Develop valuation methods for accounting, but base them on sound science incorporating complexity and interconnectivity of the natural world

To researchers

- Define interactions between the five forms of capital – financial, manufactured, human, social and natural
- Express scientific results of research in language that is easily understood by businesses and land-managers/planners (e.g. green infrastructure)
- Develop consistent long-term monitoring programmes - UK has considerable data and knowledge, but no agreed set of metrics, frameworks nor baselines to judge the current state, trends and future direction

To policy-makers and planners

- Safeguard natural capital and encourage behavioural change that will result in multiple benefits
 - threat from a new 'perfect storm' where lifestyles damage personal health and well-being and our environment at local to global scale
- Use natural capital valuation methods that are scientifically sound, ethically and socially acceptable

To policy makers and planners (2)

 The functioning of businesses as sustainable and ethical managers of natural capital is reliant upon government and civil society creating an enabling environment

We need

- mutual understanding of how business investment in natural resources can best be enhanced and governed
- a clear and long term external policy framework

Immediate follow-up steps

VoLSS was part of a journey, not the end

Series of activities building on priority issues identified

NCI is independent and will facilitate

- cross-sectoral fora
- dialogues
- policy development





Putting the ecosystem approach into practice

One day dialogue

Ecosystem approach: good concept for natural capital manage "How does it work into practice?"

Edinburgh 28 September 2015



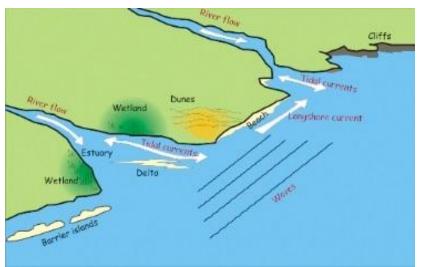


Natural Capital without boundaries

One day dialogue

Linking management of catchments, coastal zone & open sea

- Devon Maritime Forum
- Rivers Trust
- WWF Celtic Seas
- Environment Agency
- Defra





Natural Capital in city planning

One day dialogue

Integrating natural capital into city planning

- UK Constructors Group for Biodiversity
- Ecosystem
 Knowledge Network
- City Councils





Centre for Ecology & Hydrology

Natural capital, the 25 year plan and devolution

Natural capital recognized by devolved administrations, but in different forms – potential benefits from cross-working

NCC's 3rd Report - 25-year plan to meet 2011 White Paper. Implementation needs science under-pinning



👹 HM Government

The Natural Choice: securing the value of nature



Learned society response





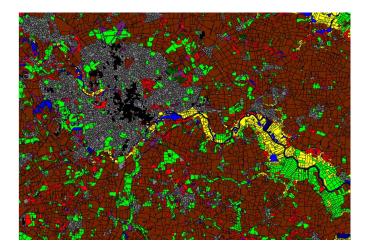




- Advising on Govt policy
- Advancing education, professional development and public interest
- Linking ecology & biomedical science through health agenda
- Supporting NCI's Project Officer.

- Promoting ecological knowledge and solutions
- Publishing international journals
- Running special interest groups
- Organising and sponsoring events
- Funding NCI Development Officer.

Research institution response











Browse our data Find, view and access data resources in the CEH Information Gateway

Map, plot and download daily and monthly rainfall

data from the 1km gridded CEH-GEAR Great-

Britain and Northern Ireland dataset



Drought portal Explore over 50 years of drought statistics for the United Kingdom



Land cover mapping Land Cover Map is a thematic classification of satellite image data covering the United Kingdom



CHESS Explorer (coming soon) Ecomap The Climate. Hydrology and Ecology research Support System is a 1km UK meteorological environn driving dataset for the JUES land surface model geograph



ECOMAPS ECOMAPS is a model that enables prediction of environmental characteristics at a range of geographic scales

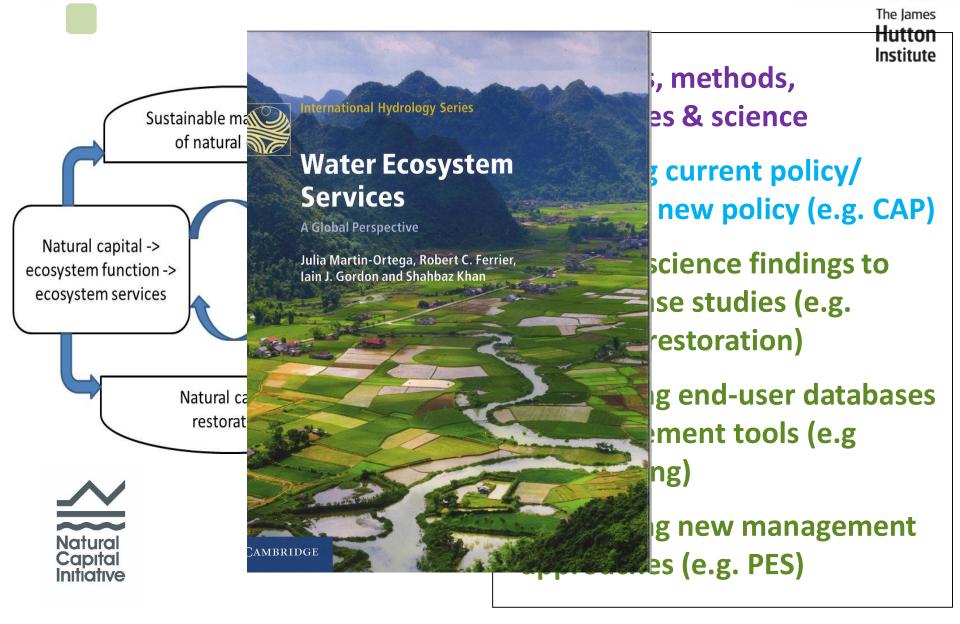
The new CEH Environmental Information Platform





Research institution response





Acknowledgement

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and



for hosting this launch event

