



Understanding the Benefits of Ecosystem Services



South Downs Way Ahead Nature Improvement Area

'Chalking up the Benefits' project



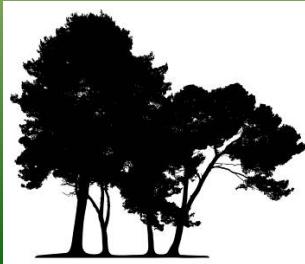
L&OVe Interpreting ecosystem services to engage local people

Dr. Colin Tingle
[eMail: tc09@gn.apc.org]



Understanding the Benefits of Ecosystem Services

**In 2010: Who
understands?**

   	<p>Who understands?</p> <p>The World? UK? Professional bodies & agencies internally ✓ Via MA, UK National Ecosystem Assessment, EKN & VNN</p> <p>More widely? ❌</p>
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Lewes & Ouse Valley eco-nomics

Valuing Local Natural Capital

Understanding the Benefits of Ecosystem Services

In 2010: **Who's even talking about?**

THE GROUP: Who are we? Lewes & Ouse Valley eco-nomics Group



Is a community group under the Transition Town Lewes banner that acts as a focal point in the wider community for

discussion and action that connects the local economy with the local environment

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Aims to promote awareness of the value of ecosystem services in the Lewes and Ouse Valley area



All activities entirely voluntary

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THE PROJECT: 'Chalking up the Benefits' - What does Lewes get from the local environment?

Project part of



South Downs Way Ahead Partnership



Funded by DEFRA via Natural England, SDNPA & Sussex WT

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TRUSTS

'Chalking up the Benefits': What does Lewes get from the local environment?

Aims to work with the community to explore & document benefits to wellbeing from local environment (with a focus on the chalk downs)




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'Chalking up the Benefits': What does Lewes get from the local environment?

Aims to raise and spread awareness of gains for Lewes local economy from locally provided ecosystem services.




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'Chalking up the Benefits': Strategy

Work with professionals plus established groups




ENTERPRISES

- Fridays Market - Lewes Garden Market
- Transport - local
- Local
- Fertility / No chemicals
- Local knowledge & education
- Publishing / Books
- Flood prevention
- Growing Local

ECOSYSTEMS

- Water - water in flow
- WATER - living down
- Soil - soil
- Car tourism
- people / food & movement

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'Chalking up the Benefits': Strategy

Interpreting ecosystem services with locals




ENTERPRISES

- Fridays Market - Lewes Garden Market
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ECOSYSTEMS

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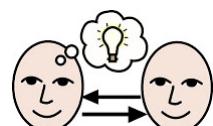
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'Chalking up the Benefits':
Outputs and targets

Output 1. Establish links between local economy, community well-being and ecosystem services; establish valuation criteria for locally provided E; promote project (e.g. via event websites)

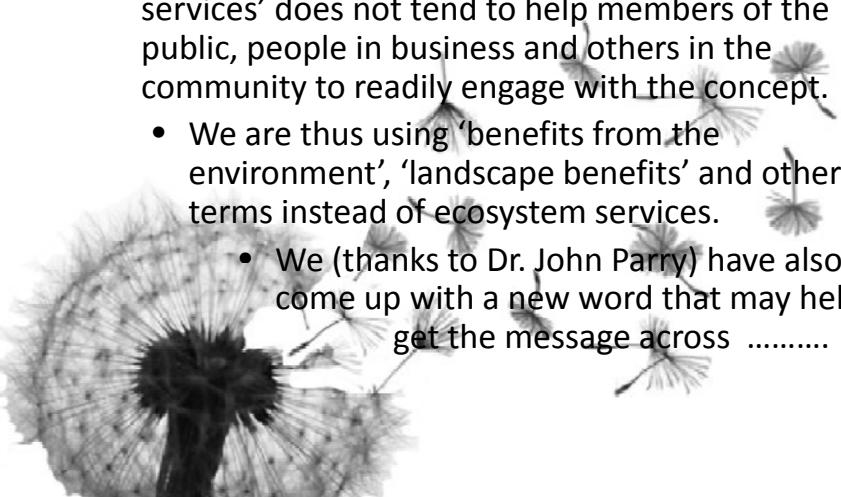
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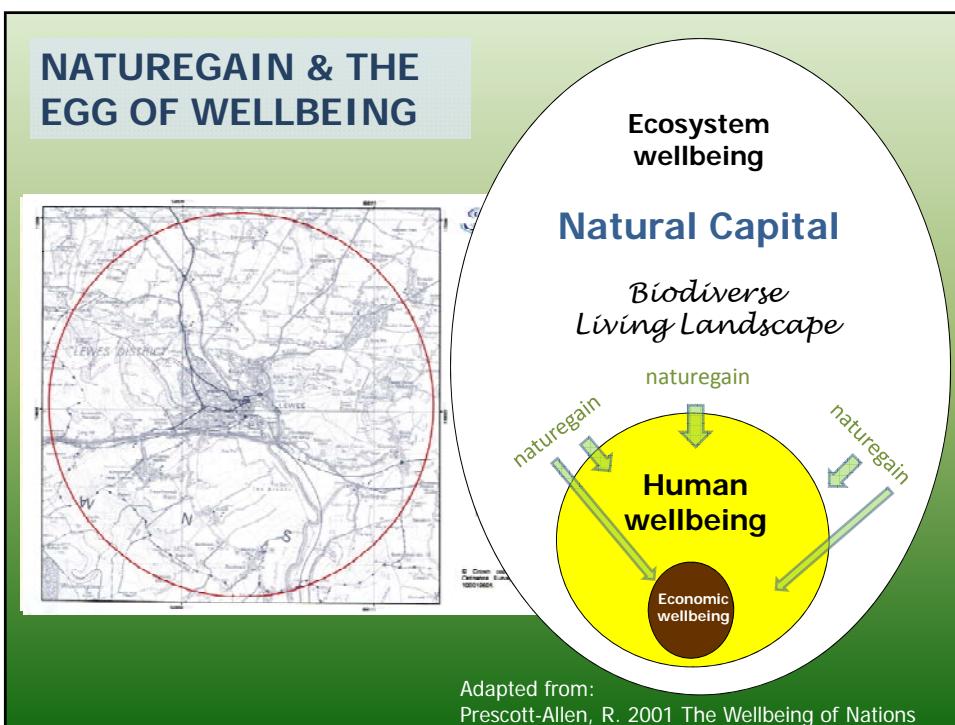
Getting the message across

- L&Ove have found that using the words 'ecosystem services' does not tend to help members of the public, people in business and others in the community to readily engage with the concept.
- We are thus using 'benefits from the environment', 'landscape benefits' and other terms instead of ecosystem services.
- We (thanks to Dr. John Parry) have also come up with a new word that may help get the message across





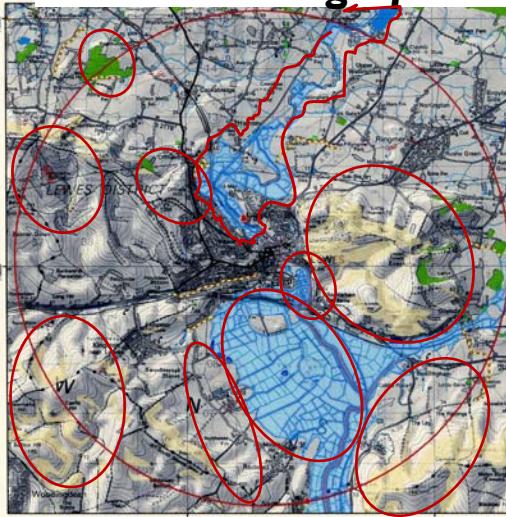
Source: Parry , 2011



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Chalking up the Benefits



Output 1.
Environment/Community/economy
– Links and valuation:
Valuing Ecosystem Services for Lewes (VESL):

Team: L&OVE
Sussex Wildlife Trust
Lewes Railwayland WT
Natural England

Identifying habitats

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Chalking up the Benefits

Output 1. Valuing Ecosystem Services for Lewes (VESL)




Identifying ecosystem services provided by each habitat/area

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'Chalking up the Benefits': Outputs to date

Transition Town Lewes
Local solutions for global problems

L & OVE
Lewes & Ouse Valley eco-nomics
Contact: Colin Tingle

Output 1. Publicity

- Public engagement events
- <http://www.transitiontownlewes.org/landove-group.html>
- <http://www.lewes-eco-nomics.org/>

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'Chalking up the Benefits': Outputs and targets

Output 2. Techniques identified and trialled to value ES benefits across community (including public sector and business decision-makers) and key enterprises, identifying major beneficiaries of local ES provision

HOW?

Postcard from the Future: 25 years on

Imagine yourself in Lewes, 25 years ahead
- a future full of naturegain.
Walk around it in your mind
enjoy it!

Now, turn over the postcard and write to
tell us what you see and value
PLEASE POST YOUR POSTCARD IN THE BOX BY THE BENEFITS GAME

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'Chalking up the Benefits': Outputs to date

Output 2. Tools developed & key beneficiaries identified

Almost all tools involve participatory experiential learning

from the Future: 25 years on
yourself in Lewes, 25 years ahead
ture full of naturegain.
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PLEASE POST YOUR POSTCARD IN THE BOX BY THE BIG BENEFITS GAME

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Chalking up the Benefits: Output 2. Tools

1. Naturegain walks

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Chalking up the Benefits: Tools

Naturegain walks



UPTAKE

- Series of walks run locally with SWT, LDC, NE, LOAP, LRLWT & FoL
- Teaching tool – Natural Resources MSc, University of Greenwich
- Darwin project: Ecosystem approach to pesticides & biodiversity in the Ethiopian Rift Valley

[More at www.lewes-eco-nomics.org](http://www.lewes-eco-nomics.org)

‘Chalking up the Benefits’: Tools

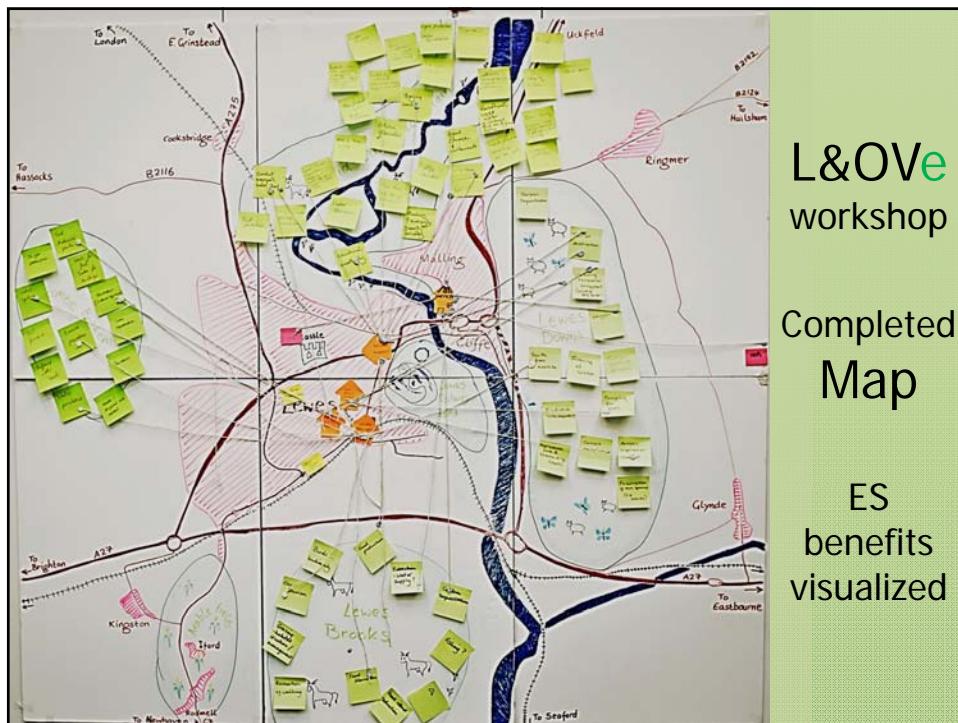
2. Naturegain Going Local workshop






L&OVe
workshop

Blank Map



L&OVe
workshop

Completed Map

ES
benefits
visualized



UPTAKE

- [Coastal Communities CC2150 Project –](#)
designed & ran workshop on ecosystem services and community adaptation to long term climate change
- Lewes Neighbourhood Plan

[More at www.lewes-eco-nomics.org](http://www.lewes-eco-nomics.org)



OUTPUTS

- Coastal Communities CC2150 Project –
 - ❖ [Workshop report](#)
 - ❖ [Workshop Template](#)
 - ❖ [Project film](#) (including workshop elements)



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'Chalking up the Benefits': Tools

3. Big Benefits Game

More at www.lewes-eco-nomics.org

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4. Naturegain poems

INSPIRATION

Smell the joy of sunlight
Delight
in nature's currency
to the Maker
artist bold
a story told
by each flower, leaf,
flight
in spiraled wings
How dear to her
for her cosmic ball
is our home

More at www.lewes-eco-nomics.org

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5. Naturegain Quiz

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6. Teaching materials for Schools

Ecosystem Services data collection
Priory School Lewes yr 10

Cultural Services – survey of visitors to Lewes Railway Land Nature Reserve

Regulating Services – estimation of carbon sequestration at LRLNR

Rhythms of Life
Wallands School Lewes yr 2

Wildlife & Seasons

Introducing *naturegain*

Where does our water come from?

The water cycle



**Friends of Lewes –
Lewes Arboretum
project**



i-Tree

L&OVE are supporting the Friends of Lewes Arboretum project.

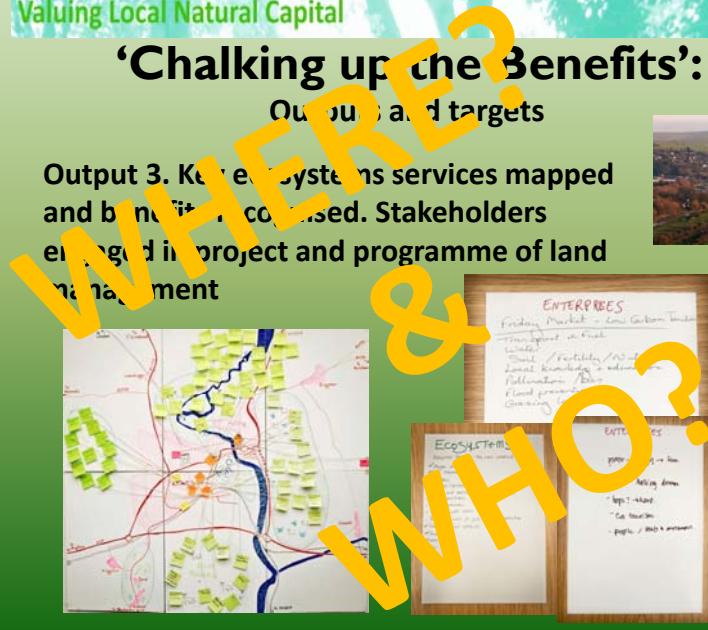
This project is just about to start an i-Tree survey to calculate the ecosystem services provided by Lewes's trees

[More at <http://friends-of-lewes.org.uk/current-concerns/friends-of-lewes-projects/lewes-urban-arboretum-project/>](http://friends-of-lewes.org.uk/current-concerns/friends-of-lewes-projects/lewes-urban-arboretum-project/)

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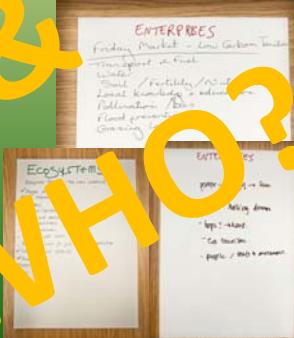
'Chalking up the Benefits':
Our goals and targets

Output 3. Key ecosystem services mapped and benefits recognised. Stakeholders engaged in project and programme of land management













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NATIONAL
ENGLAND

'Chalking up the Benefits':

Output 3. Ecosystems services mapped

Sussex Biodiversity Record Centre

Natural England
ES maps

- 9 maps cut to L&OV_e area
- Local knowledge used to assess accuracy and usefulness
- Feedback to NE – decided maps NOT suitable for v. local use

Climate regulation potential for L&OV_e focal area

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'Chalking up the Benefits':

Output 3. Ecosystems services mapped

Sussex Biodiversity Record Centre

EcoServe GIS ES maps

Carbon Storage Zones across NIA, including L&OV_e focal area

Storage Benefiting Areas - Priority Zones

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More at <http://www.durhamwt.co.uk/current-projects/ecoserv-project/>

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'Chalking up the Benefits': Key successes

- ❖ Use of workshops to engage professionals in reaching out into the community with ecosystem services messages
- ❖ The CC2150 workshop – demand for more
- ❖ Uptake of the ecosystem service walks to complement wildlife and/or site specific nature walks
- ❖ Request by Lewes Neighbourhood Plan steering Group to use the *naturegain* going local workshop process
- ❖ Positive responses from schools and their stated intention to build on what we've begun

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Key challenges

- ❖ Getting to the first engagement steps
- ❖ Embedding engagement – nowhere yet!
- ❖ Doing this job as a community group
- ❖ Measuring & evaluating success
- ❖ Current economic model & 'push for growth' – financial stresses on MOST partners/potential partners

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Key Messages

- ❖ Interpret ecosystem services WITH local people
- ❖ Interpret benefits from the IMMEDIATELY local area
- ❖ Make the 'invisible economy' visible
- ❖ Work with partners with shared interest
- ❖ Follow John Gower's final advice – "Be bold, be brave, be honest"



L&OVE sharing in partnership



Group work within
L&OVE plus



... partners from
within or outside the
NIA Partnership, have been
crucial to the successes we've
achieved





L&OVe sharing in partnership



Sussex Wildlife Trust (SWT)
Lewes Railway Land Wildlife Trust
Sussex Biodiversity Records Centre
South Downs NPA
Natural England (NE)
Environment Agency CC2150
Transition Town Lewes (TTL) Groups
Lewes District Council (LDC) NIA project
Lewes District Council Ranger team
Lewes Organic Allotment Project (LOAP)
Friends of Lewes (FoL) Arboretum project



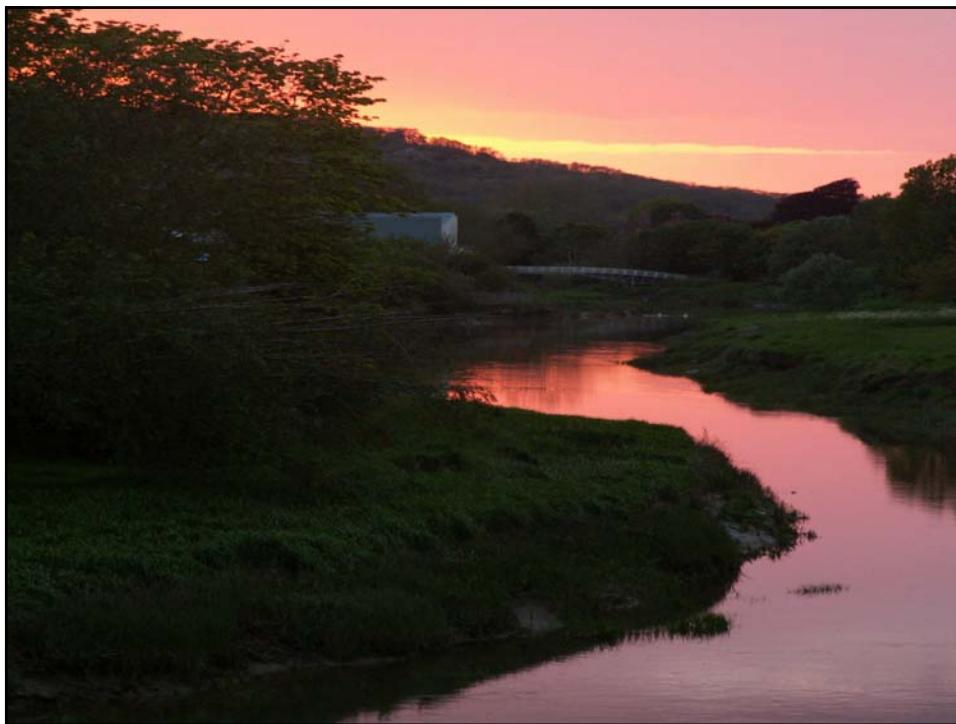
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Thank you for listening!

Please contact Colin Tingle
Lewes & Ouse Valley eco-nomics
'Chalking up the Benefits' Project Officer
eMail: tc09@gn.apc.org
Tel: 01273 477595



Useful References

- MA (2005) *Ecosystems and Human Well-being: Synthesis*. Millennium Ecosystem Assessment. Island Press, Washington, DC.
<http://www.maweb.org/documents/document.356.aspx.pdf>
- MA (2005a) *Ecosystems and Human Well-being: Health Synthesis*. Millennium Ecosystem Assessment. Island Press, Washington, DC.
<http://www.maweb.org/documents/document.357.aspx.pdf>
- Parry, J. & Tingle, C.C.D. (2011) *New ways of thinking and a new word to match: 'Naturegain'* In: TTL (ed) Transition Town Lewes Newsletter. December News & Events. 2011. http://www.transitiontownlewes.org/naturegain_dec_2011.html
<http://www.transitiontownlewes.org/524.html>
- Prescott-Allen, R. (2001) *The Wellbeing of Nations: a country-by-country index of quality of life and the environment*. Island Press, USA. 342 pp. (Summary at <http://cmsdata.iucn.org/downloads/wonback.pdf>; preview copy – not complete)
- TEEB (2010) The Economics of Ecosystems and Biodiversity. Report for Business - Executive Summary.
<http://www.teebweb.org/Portals/25/Documents/TEEB%20for%20Business/TEEB%20for%20Bus%20Exec%20English.pdf>
- WRI (2008) Ecosystem Services: A guide for decision-makers
<http://www.wri.org/publication/ecosystem-services-a-guide-for-decision-makers>

Useful websites

Lewes & Ouse Valley eco-nomics

www.lewes-eco-nomics.org

<http://www.transitiontownlewes.org/landove-group.html>

Coastal Communities 2150

www.CC2150.eu

L&OVe workshop for CC2150

<http://webarchive.nationalarchives.gov.uk/20140328084622/http://www.environment-agency.gov.uk/aboutus/wfo/136998.aspx>

http://webarchive.nationalarchives.gov.uk/20140328084622/http://cdn.environment-agency.gov.uk/lit_9197_1d8118.pdf

South Downs National Park Forum

<http://southdownsforum.ning.com>

Sussex Wildlife Trust

<http://www.sussexwildlifetrust.org.uk/livinglandscape/index.htm>

Ecosystem Knowledge Network

www.ecosystemknowledge.net

Useful websites

Pavan Sukhdev (2011) The invisible economy.

<http://bankofnaturalcapital.com/category/natural-capital/>

The economics of ecosystems and biodiversity (TEEB)

<http://www.teebweb.org/Home/tabid/924/Default.aspx>

<http://www.teebweb.org/InformationMaterial/TEEBReports/tabid/1278/Default.aspx>

UK National Ecosystem Assessment

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

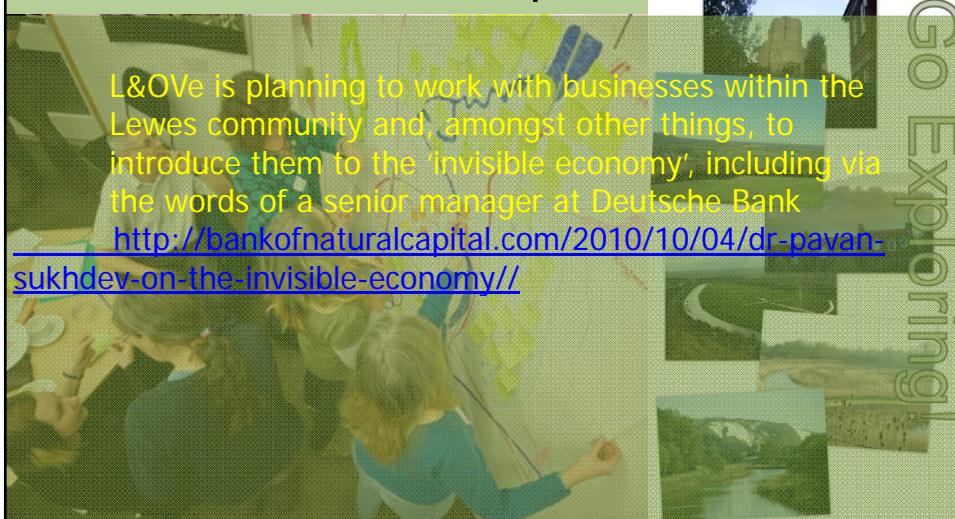
Valuing Nature Network - <http://www.valuing-nature.net/>

Transition Network – <http://www.transitionnetwork.org/>

<http://www.transitionnetwork.org/blogs/rob-hopkins/2014-06/transition-social-medicine-health-leaders-discuss>



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L&OVe is planning to work with businesses within the Lewes community and, amongst other things, to introduce them to the 'invisible economy', including via the words of a senior manager at Deutsche Bank

<http://bankofnaturalcapital.com/2010/10/04/dr-pavan-sukhdev-on-the-invisible-economy/>