

Lightning Talks Chair: Ece Ozdemiroglu, eftec

Lightning Talks

Valuing landscape condition Lisa Norton, Centre for Ecology & Hydrology

SENCE maps to communicate natures value Katie Medcalf, Environment Systems

BESS-EO: Earth Observation for Biodiversity and Ecosystem Services Beth Cole, University of Leicester

Framework to target nature based solutions aimed at engaging people with nature

Liz O'Brien, Forest Research

Demonstrating the multiple benefits of wetlands for nature and society Hannah Robson, Wildfowl & Wetlands Trust

Manchester's Great Outdoors: a Green & Blue Infrastructure Strategy David Barlow, Manchester City Council

Wellbeing valuation and the University of Manchester Living Campus Kelly Watson, University of Manchester

Valuing Landscape Condition

- Who cares about it?
- From what perspective?

- Who is responsible for its governance and management?
- What are appropriate spatial and temporal scales?

- Balancing perspectives
- Taking action

Decision Support Tools

- Scenario testing
- Engagement
- Management decisions

Lisa Norton - Centre for Ecology and Hydrology



SENCE – Spatial Evidence for Natural Evaluation

Dr. Katie Medcalf CEnv

@envsystems



Spatial Evidence for Natural Capital Evaluation



www.envsys.co.uk/sence/



Framework to target nature based solutions aimed at engaging people with nature

Liz O'Brien Forest Research – Social and Economic Research Group, United Kingdom Valuing Nature Network Conference, October 2016





Conceptual framework for interventions aimed at engaging people with nature

•The figure presents a non-linear framework detailing key factors that enable, mediate, or restrict the realisation of cultural benefits from woodlands. This can be applied to research case studies to describe how various factors combine in the 'co-production' of cultural benefits.



Crown copyright

Forest Research Using the framework – Active England project

Pakistani Women's Group

The people: Ethnic minority group, low income, aged 16-44, 10 women, 2 children. Lack of cultural norm to visit woods, confidence issues
The space: National Forest site in England, 154 ha of woodland. Facilities – trails, children's play area, cycle hire, café, toilets
Governance: Facilitated access, mini-bus transport to site, guided walk, focus group to understand needs and barriers
Practices: Walking, viewing, accessing children's play area
Benefits: Familiarisation with site, fun and enjoyment, gaining confidence, socialising, fresh air

Interviewer- would you get a bus (to site)? 'I think if I had somebody else with me for support'. (Young Pakistani woman) 'I think lacking in confidence is a big thing, people who have come from abroad or Asian ladies haven't got the confidence. It is hard for them to go places if they don't know anybody'. (Translator)





Conclusions

- Multi-layered and strong governance models are a dominant feature of co-production of benefits for underrepresented groups
- Facilitated access (including transport to a site and led activity on site) can be critical in enabling groups to access an environmental space and start to become more familiar with it – important for future use
- Importance of partnerships environment sector working with other sectors (health, social care, education) to understand audiences and work together to create opportunities
- All the key categories (environmental space, governance, people characteristics, practices) combine in different ways to produce the necessary conditions for co-production of benefits



GREEN EXERCISE

LINKING NATURE, HEALTH AND WELL-BEING

Please visit our website to find

out more

about our work

Forestry Commission



Trees, people and the built environment

Jo Barton, Rachel Bragg, Carly Wood and Jules Pretty



earthscan

We have stopped moving Tackling physical inactivity - a role for the Public Forest Estate in England?

Forests are very highly valued by the public in England, as the consultation in 2011 that proposed selling off the Public Forest Estate (PFE) highlighted. The widespread outcry to the consultation showed that people value forests and access to them for many diverse reasons (O'Brien and Morris, 2013). Thousands commented n the importance of having a FFE and how the management of this resource by Forest Enterprise England (FEE) afforded everyone with welcoming sites and good facilities that provide opportunities for all ages. This riefing note highlights the importance of the PFE in England and the contribution it can make to tackling the national crisis of physical inactivity. The scale of this problem is enormous and is a national priority that needs to be addressed, in part, by providing many attractive locations and spaces that are suitable for, and can help in, encouraging physical activity. Inactivity is the fourth greatest risk factor for poor health in England. It contributes to almost 1 in 10 premature deaths: equal to smoking (PHE, 2014b). It is a greater cause of death in the United Kingdom (UK) than in comparable countries such as the United States, Netherlands or France.

The evidence outlined in this briefing note draws on research in forests but also greenspace and gre infrastructure in which trees are often an important or key component. We conclude that the PFE in England is extremely versatile and has the potential to contribute to cost effective solutions for the health sector targeted at preventing ill health and also in recovery and treatment programmes. It is uniquely placed to replicate and provide opportunities for industrial-scale growth' of successful initiatives.

www.forestresearch.gov.uk/peopleandtrees

- C4







Innovative NHS Greenspace in Scotland

This briefing note is based on interviews with a small number of Directors of Public Health and senior staff with responsibilities for planning and policy, estate and sustainable management in NHS Sotiand in 2013. The research was undertaken to better understand the drivers and priorities faced by the interviewees and where NHS greenspace might contribute to meeting current health priorities. The work was commissioned by the Green Exercise Partnership (GEP) which comprises NHS Scotland, Forestry Commission Scotland and Scotlish Natural Heritage to support the NHS greenspace demonstration programme being co-ordinated by the GEP. The briefing note also draws on GEP papers and on evaluative evidence from existing demonstration projects that have been running since 2010. While NHS greenspace was not considered core business for the NHS Scotland staff interviewed it was viewed extremely positively, contributing to a range of policies including health, well-being and biodiversity. The interviews illustrated that there is potential for greenspace design to be stipulated as an essential requirement for retrofitting existing healthcare facilities and in the creation of new facilities. This would be in line with the NHS ethos and approach over much of its history and help m important social, environmental and economic benefits. There are exciting opportunities to use the NHS estate far more effectively to promote better health outcome mes for patients, staff, visitors and the CA Forest Research

1

July 2014



2 Springer



Crown copyright

www.forestry.gov.uk/forestresearch

The Wildfowl and Wetlands Trust

Hannah Robson

Peter Scott / Nenes



Flight of the swans



Great Crane Project





The multiple benefits of wetlands

Innovative solutions



- ✓ Flood attenuation
- ✓ Water quality
- ✓ Livelihoods
- ✓ Habitat
- ✓ 'Sense of place'

Conserving wetlands





WWT working wetlands

WWT centres



WWT consultancy



Nature based solutions



WWT wetland research

Wetland monitoring



Health and wellbeing



Following

WWT current projects

Transforming lives and landscapes: community action for the Salt Hill Stream in Slough











Wellbeing valuation and the University of Manchester Living Campus

Kelly Watson Research Associate University of Manchester Kelly.Watson@manchester.ac.uk

Emma Gardner Head of Environmental Sustainability Directorate of Estates Emma.L.Gardner@manchester.ac.uk





Campus Masterplan

- £1 billion 10 year plan 2012-2022
- World-class single campus for students and staff





Living Campus plan

A living campus...

- which is distinctive, with a strong sense of place
- to learn, work, enjoy, reflect and live in
- where we work alongside nature and nature works alongside us









Outcome measures

- Wellbeing impacts on staff and student groups
- Newly developed scale
- Items based on 5 psychological components
- Baseline data collected summer 2016

STATEMENTS	Strongly disagree	Disagree	Neutral	Agree	Strongly agree
I feel optimistic when I'm on campus	1	2	3	4	5
I have purpose when I'm on campus	1	2	3	4	5
I feel at ease when I'm on campus	1	2	3	4	5
I feel interested in other people when I'm on campus	1	2	3	4	5
I can be myself when I'm on campus	1	2	3	4	5
I deal with problems well when I'm on campus	1	2	3	4	5
I think clearly when I'm on campus	1	2	3	4	5
I feel useful when I'm on campus	1	2	3	4	5
I feel close to other people when I'm on campus	1	2	3	4	5
I feel fulfilled when I'm on campus	1	2	3	4	5
I can make up my own mind about things when I'm on campus	1	2	3	4	5
I feel valued when I'm on campus	1	2	3	4	5
I can apply myself to what I'm doing when I'm on campus	1	2	3	4	5
I feel in control of my own decisions when I'm on campus	1	2	3	4	5
I feel energised when I'm on campus	1	2	3	4	5



The University of Manchester

5.00 4.50 4.00 3.77 3.61 3.50 3.48 3.50 3.47 3.41 3.43 3.47 3.37 3.50 3.28 3.30 3.20 3.11 3.05 3.00 2.50 2.00 1.50 1.00 0.50 0.00 I feel I feel at I feel I deal with I think I feel useful I feel close I feel I can make I feel valued I can apply I feel in I feel I have I can be myself to myself problems clearly when I'm to other fulfilled up my own when I'm control of energised optimistic purpose ease when interested when I'm when I'm I'm on in other when I'm well when when I'm on campus people when I'm mind about on campus what I'm my own when I'm l'm on on campus on campus campus people on campus on campus when I'm on campus things when doing when decisions on campus when I'm campus on campus I'm on I'm on when I'm

campus

campus

on campus



on campus

Average wellbeing score by item



Wellbeing valuation

 Using Social Return on Investment (SROI)

, 72 9.1	18	0.63	£5,652,023.	65	£5,652,023.65	
,422.7	74	0.62	£11,843,502.	10	£11,843,502.10	
						1.0
	~	0.00		-0	caa acc ata =0	
,021.3	30	0.60	£23,266,212.	/8	£23,266,212.78	
						_
			Total impact =		£67,847,222.59	
	0.	.0				
		PSS staff	Academic staff	PGR	GT	JG

Group	Total population at UoM	Average hours spent on campus per week	Working weeks per year	Financial proxy description	Ргоху	Annual value produced	Wellbeing score (out of 75)	Wellbeing score (as a %)	Deadweight proportion	Annual value produced minus deadweight		Annual value produced minus deadweight and attribution	Impact per year
PSS staff	4855	35.19	48	Value of relief from depression or anxiety is	£7,089.29	£34,418,506.01	50.81	0.68	0.32	£23,317,172.0	0.58	£13,547,276.94	£13,547,276.94
Academic staff	6490	35.03	48	£36,766 p.a. (Source: Measuring the Social Impact of Community	£7,056.05	£45,793,765.39	47.79	0.64	0.36	£29,177,170.52	0.46	£13,538,207.12	£13,538,207.12
PGR	3555	17.43	48	Investment: A Guide to Using the Wellbeing Valuation Approach,	£3,510.60	£12,480,179.42	54.00	0.72	0.28	£8,98 <mark>,</mark> ,729.18	0.63	£5,652,023.65	£5,652,023.65
PGT	8310	17.12	31	2014, HACT), or £4.20 p.h., adjusted for	£3,089.69	£25,675,299.39	55.80	0.74	0.26	£19,10 ,422.74	0.62	£11,843,502.10	£11,843,502.10
UG	26725	16.40	31	average number of hours spent on campus per year	£2,133.77	£57,025,031.32	51.00	0.68	0.32	£38,77 ,021.30	0.60	£23,266,212.78	£23,266,212.78
												Total impact =	£67,847,222.59



Wellbeing valuation at UoM

- Long term monitoring of LC plan
- Staff and student wellbeing scores
- ROI data to understand the value of green infrastructure on campus

