

## Session E Health Value of Green Space Chair: Michael Winter University of Exeter

### Health Value of Green Space in Practice

Economic value of green spaces to the health sector

Euan Hall, The Land Trust

NHS Forest Initiative: links to clinical outcomes Ben Williams, Centre for Sustainable Healthcare

Local government could change the way we pay for health gains within natural outdoor settings *Dan Bloomfield, University of Exeter* 

Questions & discussion: what are the priority areas for Valuing Nature?



# Economic value of green spaces to the health sector

Euan Hall, CEO 18 October 2016



### What's the issue?



Health and Wellbeing – the economic impacts

- £7.4bn Annual costs on of physical inactivity on business and wider society
- **£27bn** Annual costs of **obesity** to the wider economy
- £5.1bn Annual costs of obesity to NHS
- £105.2bn Annual wider economic cost of poor mental health in England
- **£26bn** Annual cost of **mental illness** to wider economy



### What's the solution?

#### **Green spaces - part of the solution**

- They are extremely beneficial to our physical and mental health
- They can reduce the burden on public health costs and the wider economy.

#### Our social value study demonstrates...

- How our green spaces are used / valued
- How they contribute to health & well-being
- Economic value our spaces contribute to the economy

#### **Overwhelmingly positive results**

- Not only understanding economic values
- But how they have changed and improved lives





### How and why people use our green spaces...



56% use our sites for exercise, leisure and recreation

39% use our sites to enjoy wildlife and nature

25% use our sites to improve health, relieve stress and improve feelings of wellbeing





### How our sites contribute to a local area...



97% felt our sites helps wildlife and the environment

92% felt our sites help encourage them or others to keep fit and healthy

92% felt our sites help to make the local area more desirable (leading to economic growth)

29% felt that our sites helps reduce crime and anti-social behaviour









### What our sites mean to local people...





### **Happiness and wellbeing**





### **Key messages**

- Park users: higher levels of satisfaction and wellbeing than national average
- Park users: lower levels of anxiety
- 9 / 10 people think our parks have a positive impact on their satisfaction & wellbeing
- 9 / 10 people believe our spaces make their area more desirable and have a positive impact on their lives





### In monetary terms...

#### Our green spaces help...

- Relieve pressures on public budgets (e.g. local authorities, health & services)
- Reduce work absenteeism people feel happier and healthier

By providing people with free access to high quality, well maintained green spaces, our activities contribute the equivalent of **£94m** to society pa.

This is in line with the recent research by Exeter University...Green spaces worth **£2.2bn** to public health in England





"I feel like my life is like <u>swimming underwater</u> – and drowning at times. These sessions at Monkton Community Woodlands are my breathing holes and keep me going."

*"Greenwich Peninsula Ecology Park is a nice place to <u>relax and get away</u> from work"* 

"Through involvement with Port Sunlight River Park, my estate has <u>become a community</u>. I am getting to know people I have never spoken to before, even though they are my neighbours"

> *"Rabbit Ings has supported me with my <u>fitness and</u> <u>weight loss</u> in a pleasant and safe environment"*

*"Kiveton Community Woodland is very important to me as a form of <u>exercise</u> for me and our dogs as well as a good way to <u>make friends</u> and meet them regularly"* 



### Thank you

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# How do we achieve these economic benefits from natural health?

**Ben Williams** 

Programme Lead, NHS Forest and Green Space



CENTRE for SUSTAINABLE HEALTHCARE inspire • empower • transform



# The NHS Forest

Established 2009

National network of 180+ NHS sites

### 40,000 trees planted







# Achieving Health Benefits

Appropriate environment

Meaningful interaction























Accessible

Diverse

Carrying capacity

Infrastructure

Facilities



## **NHS Forest**

### Green assets at the point of care









# NHS Forest – Development Programme

Workforce Development

**Occupational Therapy** 

**Occupational Health** 

**Green Health Routes** 



# Priority One – Workforce Development





# Priority Two – Occupational Therapy





# Priority Three – Occupational Health

£2.4bn cost to NHS of staff sickness and absences:

- Stress and anxiety
- Cardiovascular
- Muscular/Skeletal





# Priority Four – Green Health Routes

- Based around participating sites and surgeries
- Located within communities
- Mapping and connecting green spaces and community assets
- Self guided or group options





#### Marston Green Health Route Map



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# **Further Information**

Mental Health and Dementia: https://www.eventbrite.co.uk/e/transformingmental-health-and-dementia-provision-withthe-natural-environment-tickets-26751465353 Naturally Healthy: http://ecosystemsknowledge.net/about/events /future





### CENTRE for SUSTAINABLE HEALTHCARE



### <u>www.sustainablehealthcare.org.uk</u> <u>www.nhsforest.org</u>

# A Dose of Nature

**Nature-based Interventions on Referral** 

# Local government could change the way we pay for health gains within natural outdoor settings

# Dr Dan Bloomfield





### **RESEARCH ON NATURE-BASED INTERVENTIONS SUGGESTS:**

- a social prescription from a GP results in patient benefits additional to GP care alone (Grant 2000)
- spending time in forests reduces hypertension and improves immune function (Mao 2012, Li 2010)
- group walks in nature are associated with lower depression, before and after controlling for covariates (Marselle 2014)
- exposure to nature improves attention restoration (Berman 2008)
  - greater biodiversity = greater health promotion effect (Lovell 2014)
  - exposure to nature reduces the experience of pain (Diette 2003)

### PATIENTS

### ENVIRONMENTAL ASSET OWNERS AND MANAGERS

### REFERRERS: DOCTORS AND OTHERS

FACILITATORS, PRACTITIONERS

# A Dose of Nature

Nature-based Interventions on Referral

- Eight pilots across Cornwall, Devon & Bristol
- Each involving GPs, environmental partners and intervention practitioners
  - £317 per patient per 12 weeks average
  - WEMWBS average shift from 28 to 47 (+19; average UK is 51; n=39)
    - website, network, Crowdfunder

# FIRST PHASE:

- NERC KE Fellowship, VNP Placement and Innovation Internship
  - Eight pilot partnerships referral schemes across Cornwall, Devon & Bristol
    - £317 per patient per 12 weeks average
  - WEMWBS average shift from 28 to 47 (+19; average UK is 51; n=39)
    - website, network

Resources



Network

A Dose of Nature is all about using outdoor natural environments to improve health and wellbeing. It's a service, a network and a research project.

About

### BLOG.

Projects

Blog

Anything we think is interesting and relevant, whether from research, practice or the media. If you want to know when something's been added here, then why not sign up to receive email updates? It's free.



Contact

# **EMERGING QUESTIONS:**

THE MONEY QUESTION

How can any social prescription service receive money from health?

### THE CATEGORY QUESTION

Are nature-based interventions about preventing or treating health problems?

### THE DEFINITION QUESTION

How specific should nature-based intervention actually be? What counts?

THE CO-BENEFIT QUESTION

What environmental gains can be made (and measured?)

# SECOND PHASE:

- Realist Systematic Review on social prescribing referral mechanisms (PenCLAHRC and NIHR)
  - Intervention Mapping proposal to NIHR (November)
- Nature and Health Hub: developing a business case for a service offer, with Cornwall Council and partners