

Sustainable Diabetes Care



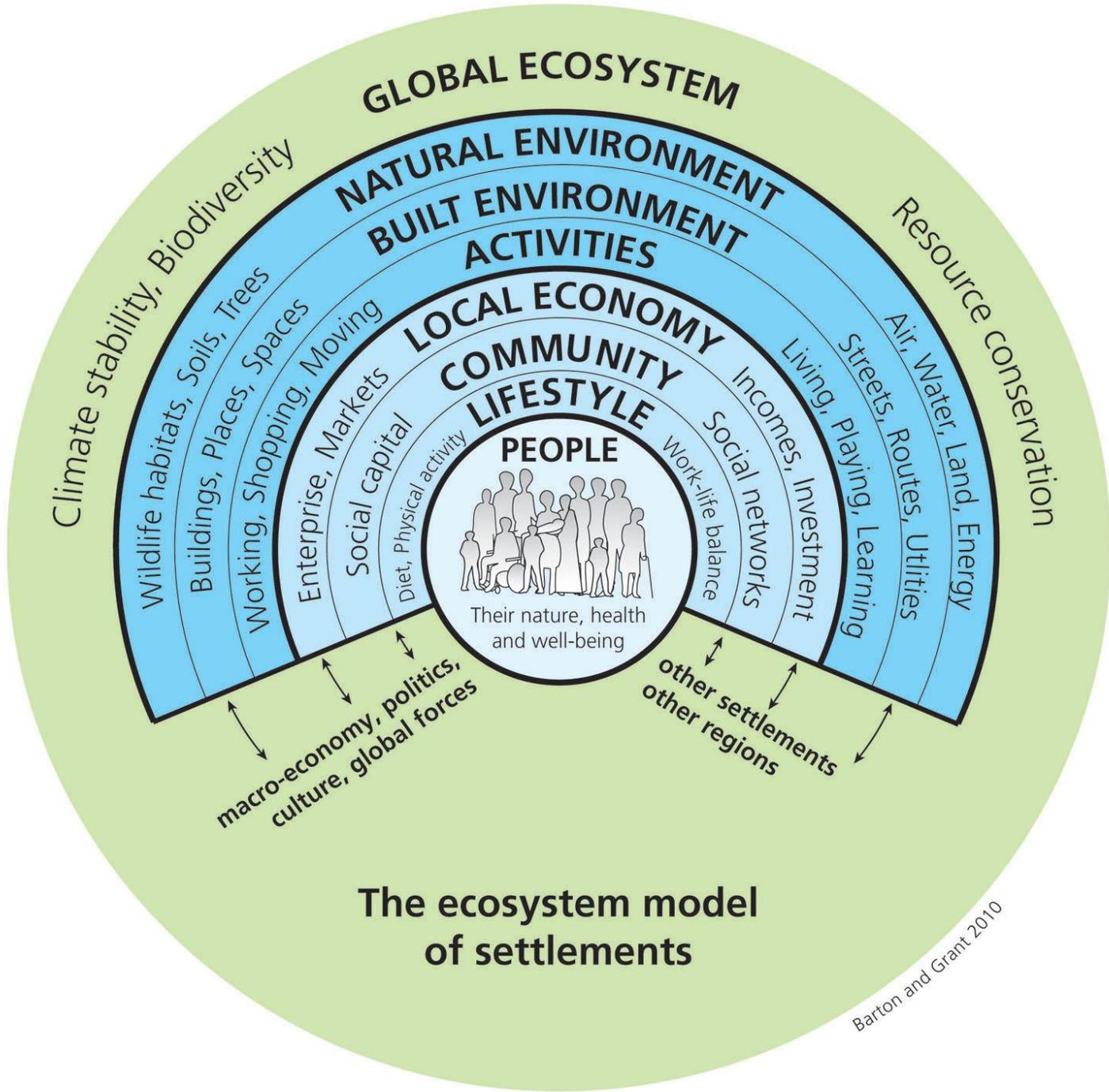
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SUSTAINABLE
HEALTHCARE
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Rachel Stancliffe
Centre for Sustainable Healthcare

Oxford AHSN
28th February 2014

“Health and social care services must be planned, financed and delivered in ways that allow them to meet the needs both of today’s population and of future generations.”

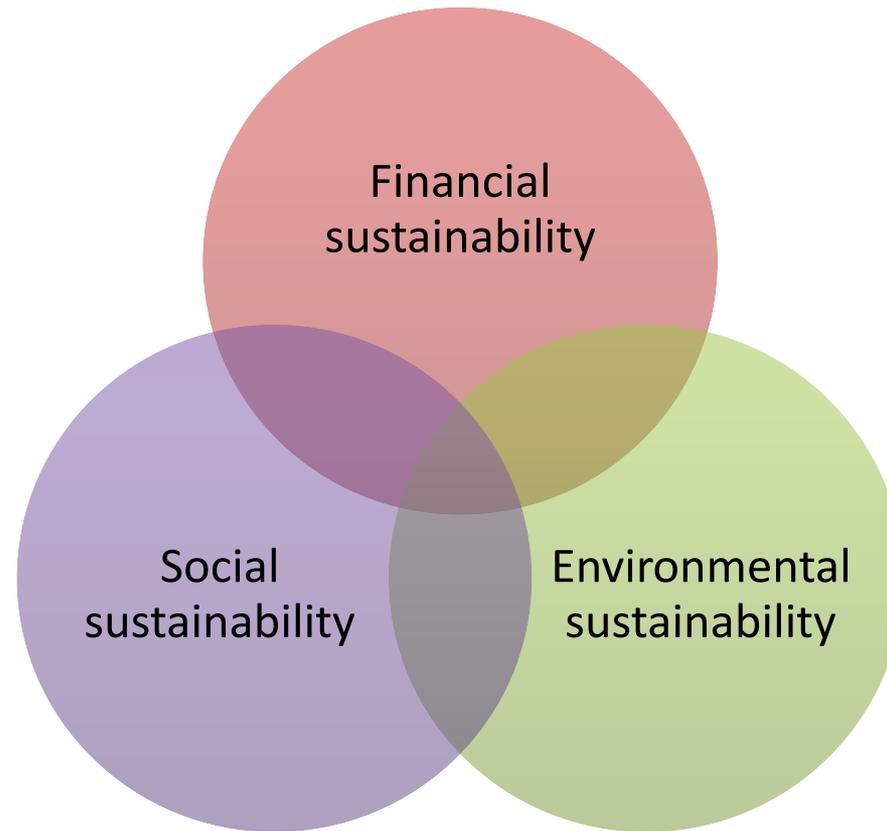
Naylor & Appleby. Environmentally sustainable health and social care: Scoping review. NIHR (2012)



The ecosystem model of settlements

Barton and Grant 2010

Triple Bottom Line



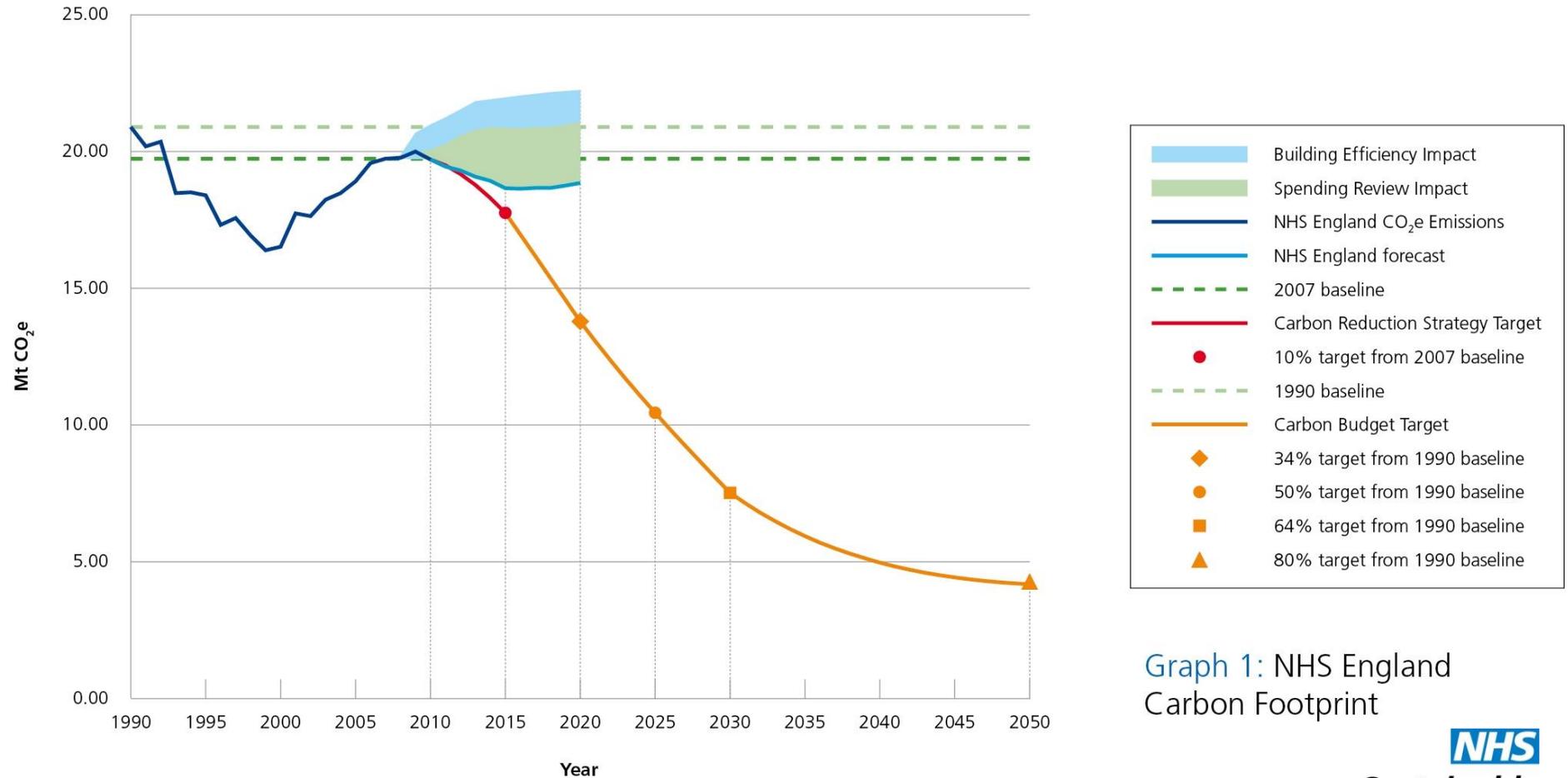
“Sustainable healthcare delivers the highest possible value to patients from a radically reduced resource input.” *Green Nephrology Summit 2012 – position statement*

Savings

- Potential savings from moderate replication of Green Nephrology case studies in UK renal units are estimated at **£7 million, 11,000 tonnes CO2e and 470 million litres water per year**

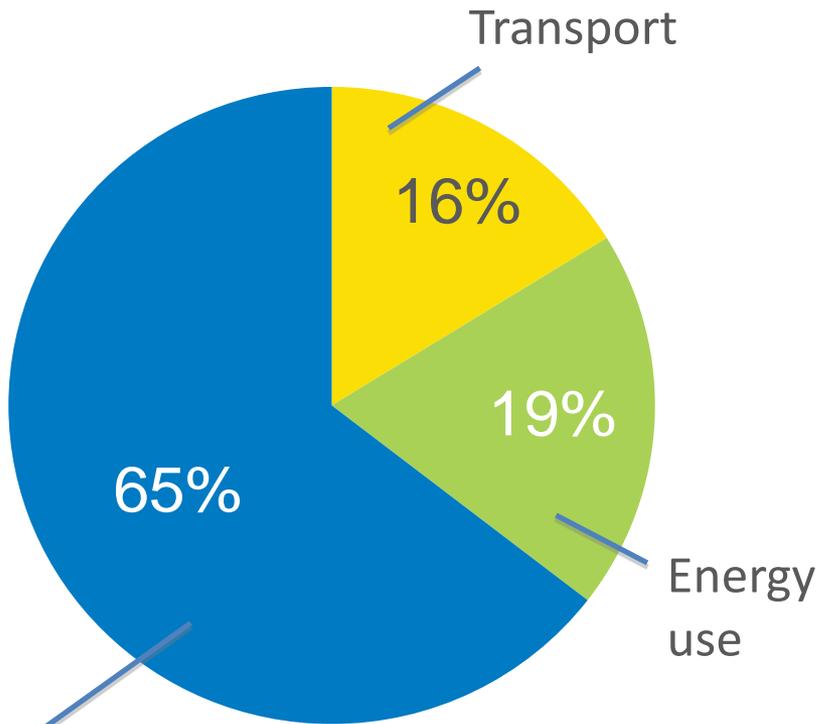
BMJ 2013;346:f588 doi: 10.1136/bmj.f588 (Published 28 January 2013) Mortimer F, Connor A, Stott A. Cumulative savings from green nephrology innovations [abstract presented as poster at joint Renal Association and British Transplantation Society 2013 annual congress].

NHS England CO₂e footprint 1990-2020 with Climate Change Act targets

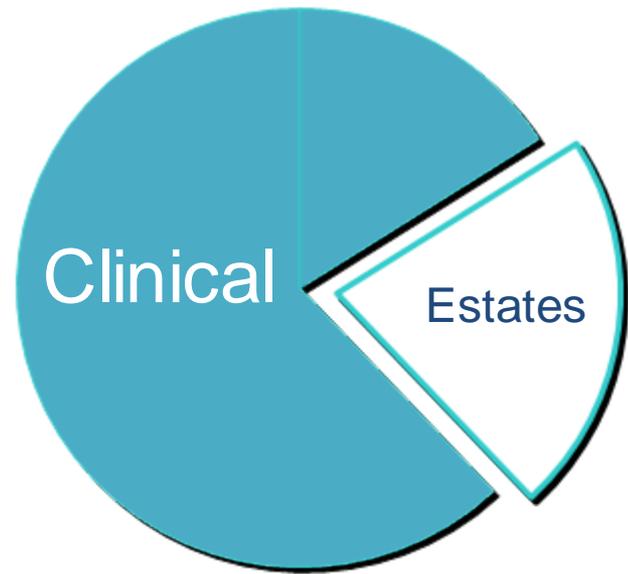


Graph 1: NHS England Carbon Footprint

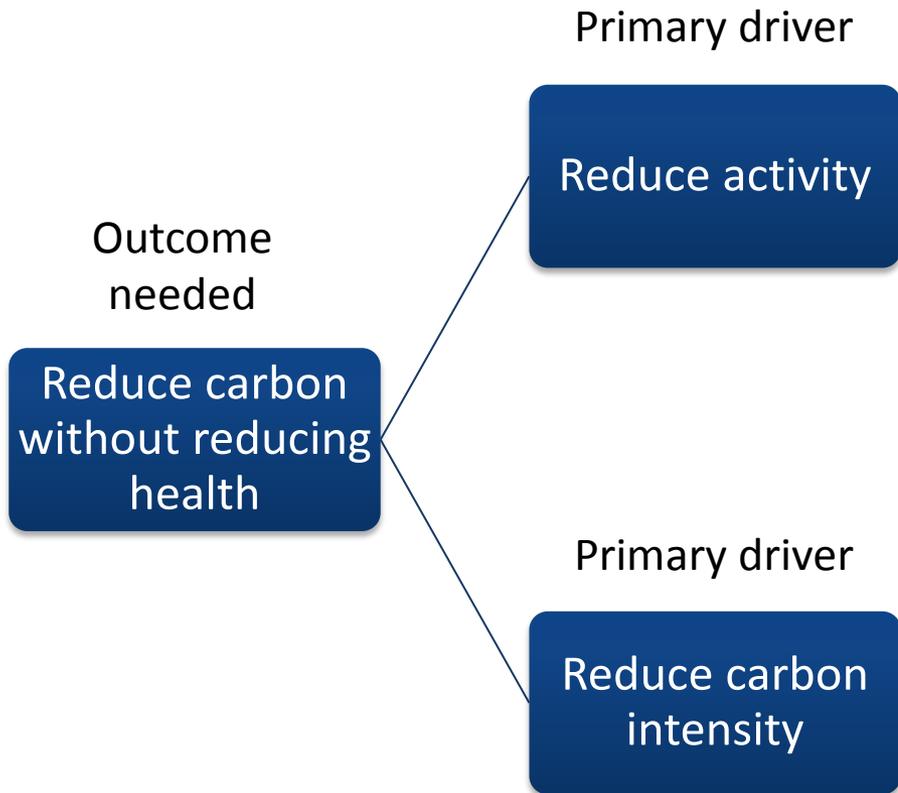
Carbon footprint – NHS England



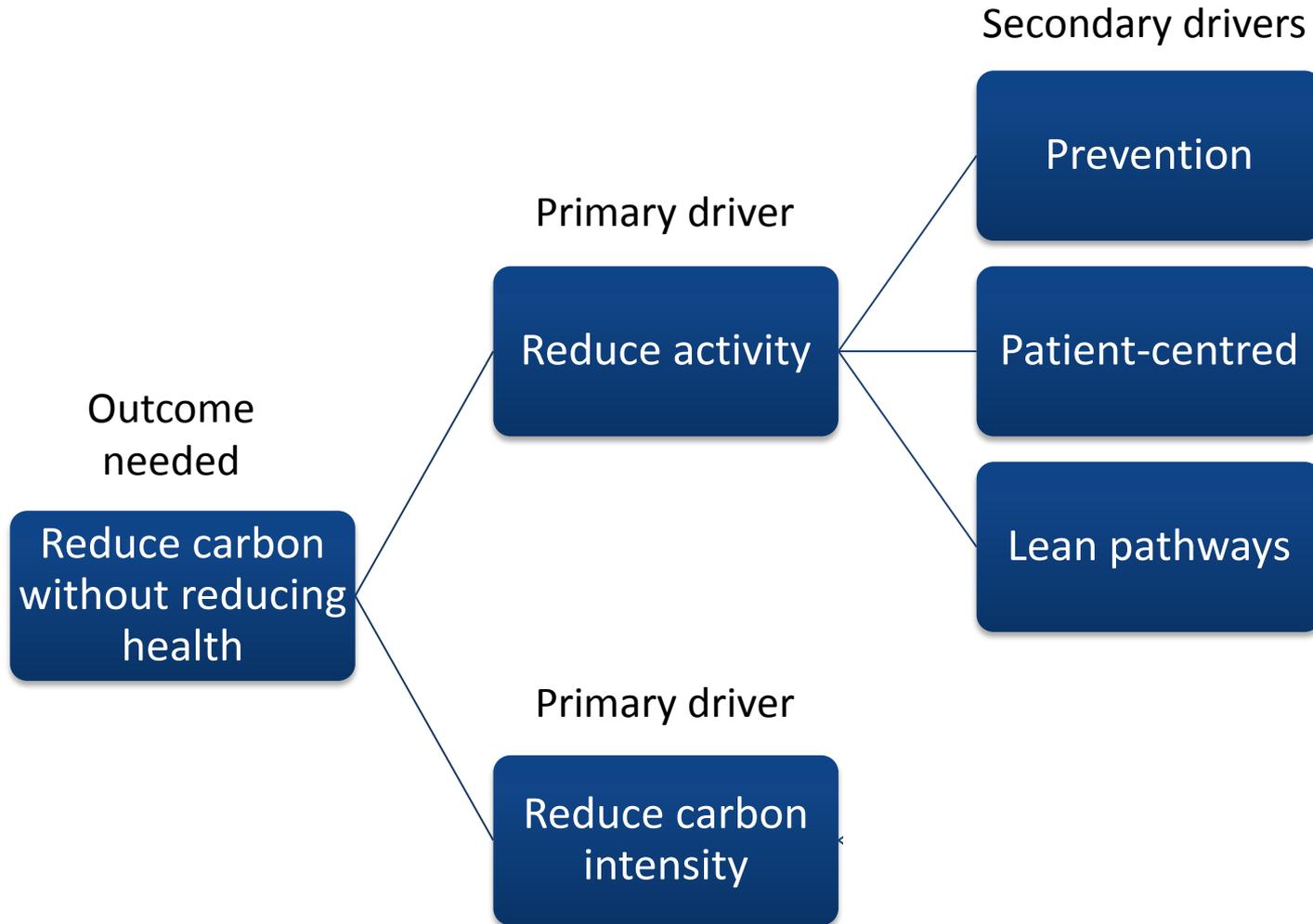
Supply chain (pharmaceuticals, equipment, everything else)



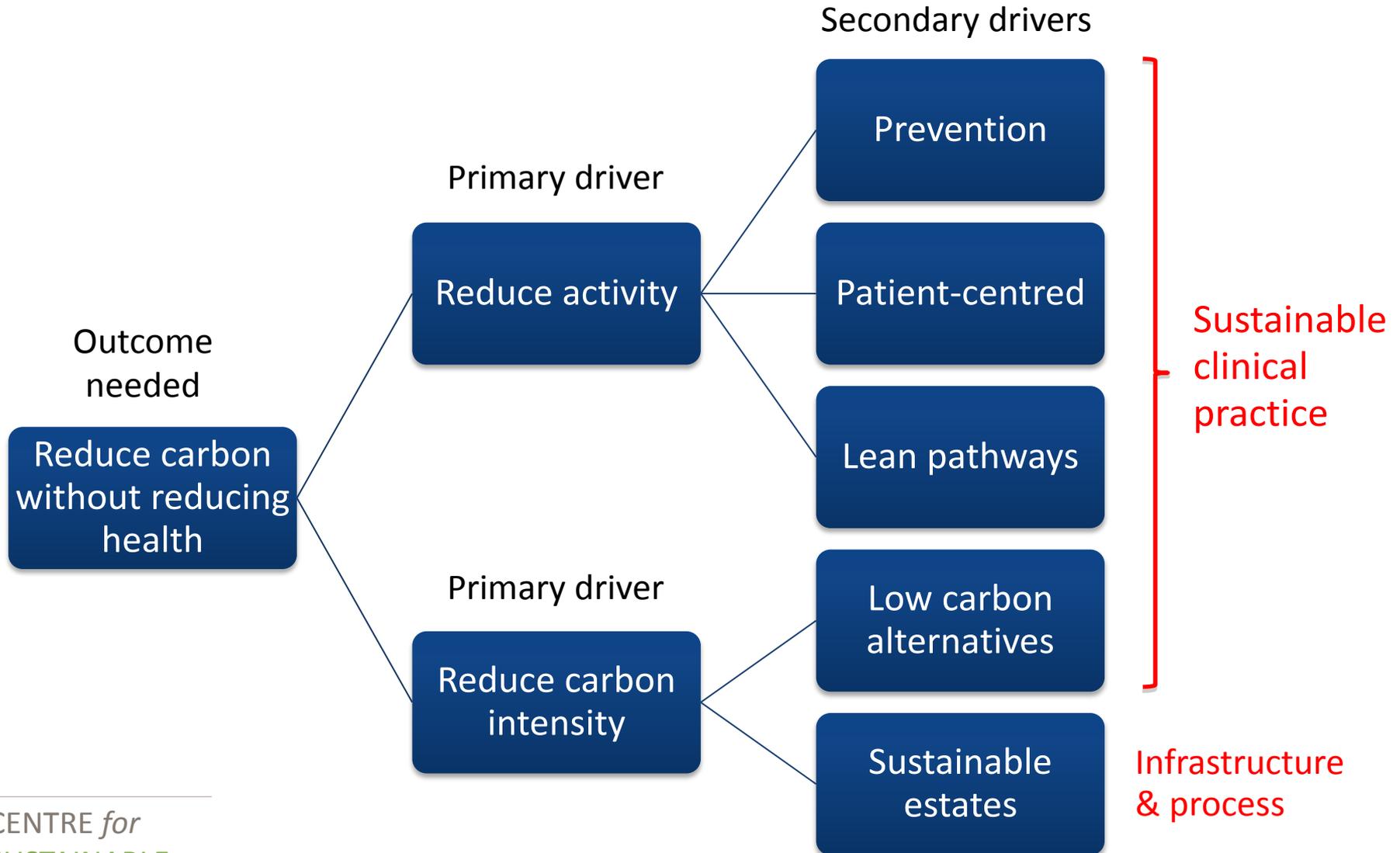
Models of care



Models of care



Models of care



The carbon footprints of home and in-center maintenance hemodialysis in the United Kingdom

Andrew CONNOR,^{1,2} Robert LILLYWHITE,³ Matthew W. COOKE⁴

¹*The Campaign for Greener Healthcare, Oxford, UK;* ²*Department of Renal and General Medicine, Dorset County Hospital, Dorchester, UK;* ³*Research Scientist, Warwick HRI, University of Warwick, Coventry, UK;*

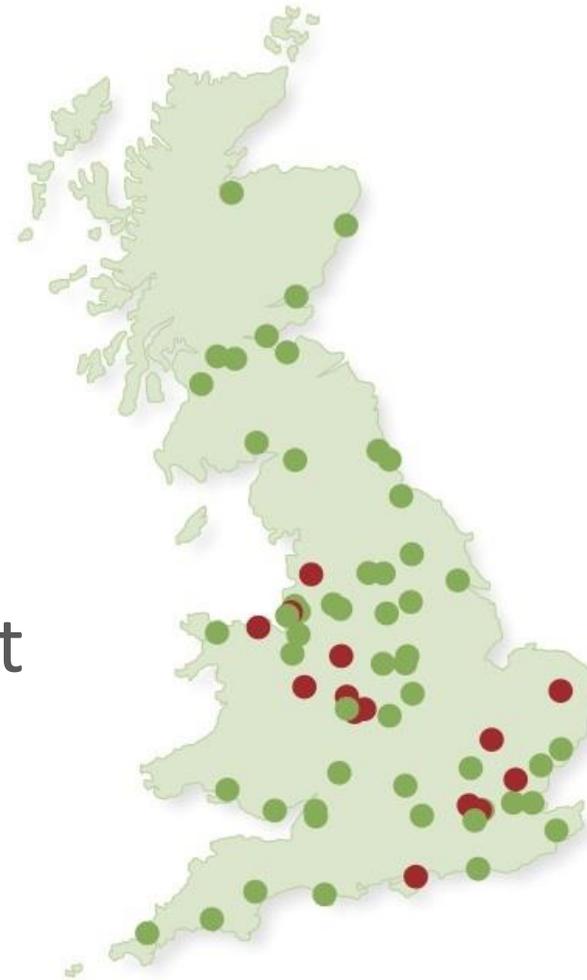
⁴*Professor of Emergency Medicine, Warwick Medical School, University of Warwick, Coventry, UK*

CSH Sustainable Specialities Fellowships

1. Network

- Local champions
- Case studies
- Summit & Awards

2. Research or demonstration project



Green Nephrology

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Green Nephrology Awards 2012

“Thanks to Green Nephrology, sustainability is now the seventh dimension of Quality. The work over the past couple of years has caught the imagination of the whole kidney community and has launched a social movement to provide better, greener and leaner kidney care.”

Dr Donal O'Donoghue, National Clinical
Director for Kidney Care

How will we work within Oxford AHSN?

Focusing on 3 Clinical Areas:

1. Diabetes
2. Dementia
3. Medicines Optimisation

We will try to weave and embed sustainability into each area over the next few years.

1. Central resource (mainly for clinical networks)
2. Fellowship Programmes

Sustainable Diabetes Care in OAHSN

Central Resource – how can we help?

- Training on sustainable healthcare
- Create diabetes-specific materials
- Map assets and opportunities in diabetes
- Advise on embedding sustainability metrics into projects and reporting structures
- Write joint proposals for research

Come and talk to us early on and we will work with you

Sustainable Diabetes Care

Fellowship Programme in Sustainable Diabetes Care

1. Network (action learning + legacy)
 - Local champions
 - Case studies
 - Summit & Awards
 - Blogs and podcasts
2. Research/demonstration project (MD)
3. Policy papers at national level
4. Education including curriculum change
5. Work in collaboration with industry
6. SAVE MONEY and CARBON!

What are our Fellowship Programme outputs?

- Innovations and new models of care.
- Case studies and publications.
- Sustainability evaluation tools for service improvements, for use by commissioners and clinical management.
- Quantification of environmental, financial and social impacts (i.e. 'Triple Bottom Line' analysis) of at least one clinical service unit within diabetes.
- A sustainability agenda for diabetes.
- A trained and experienced Fellow to take forward all the great projects with the networks

What are our Fellowship Programme outcomes?

- Carbon reductions and cash savings in clinical service units that use the innovations and new models of care.
- Improved patient outcomes in those units.
- Increased awareness of and changed attitudes towards sustainability across the speciality.
- Network participation.
- Use of case studies and sustainability evaluation tools.

In summary

CSH runs sustainability in Oxford AHSN as a cross-cutting theme . We work with the clinical networks, commissioners, public health bodies and patients to implement sustainable practices.

In particular we work to implement the four principles of sustainable healthcare as formulated by the CSH. These are:

- Prevention reduces healthcare activity and produces better health.
- Patient self-care improves value of healthcare activity and produces better health.
- Lean systems improve the effectiveness of healthcare activity
- Low-carbon technologies reduce carbon output per unit of healthcare activity.

. Our main programme, Sustainable Clinical Specialties, has been successful in engaging staff, saving resources, working in collaboration with industry and increasing innovation



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www.sustainablehealthcare.org.uk

Launch date: 24th April at Oxford Science Park