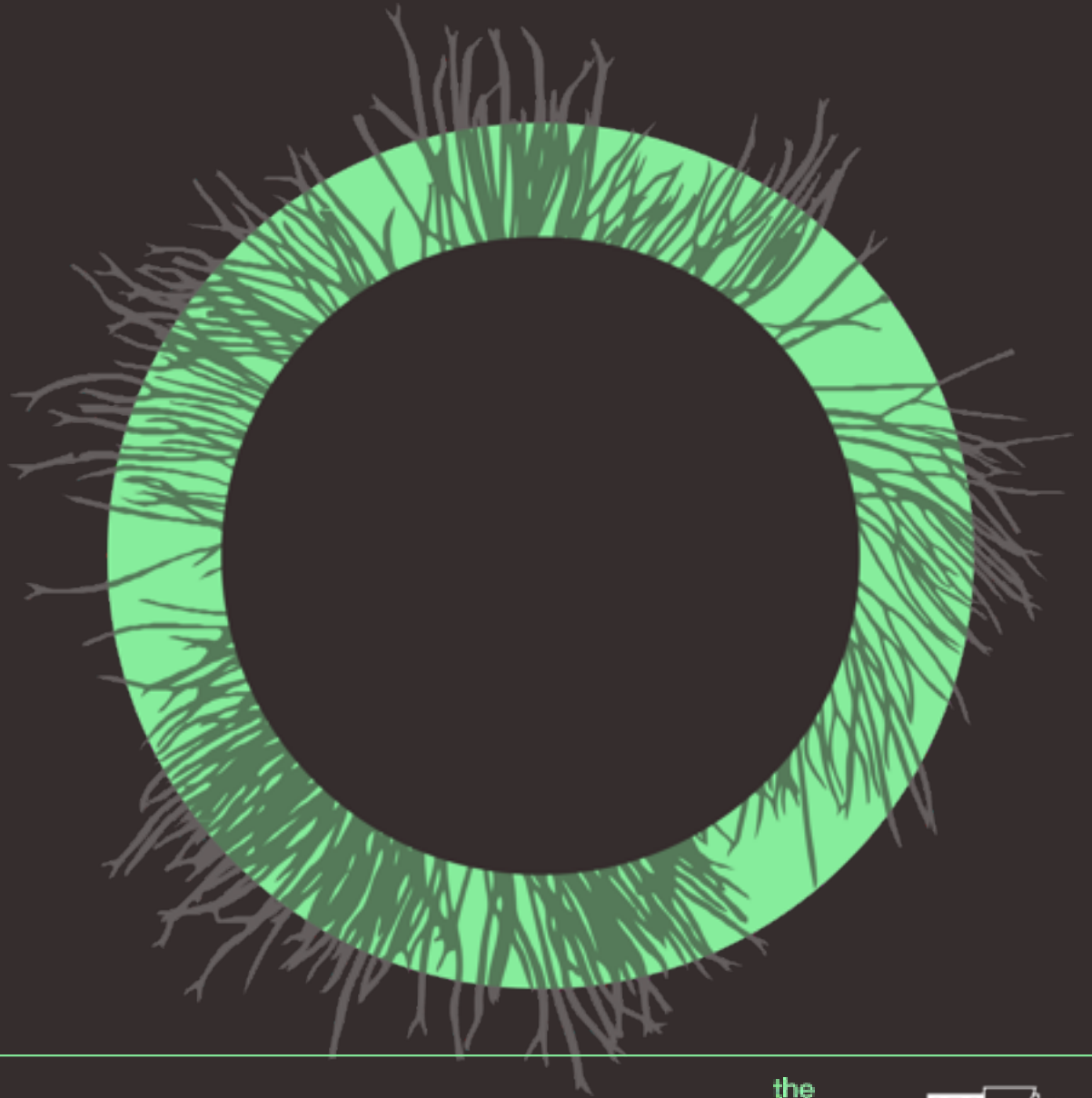


Healthy Organisations in a Place-based Ecosystem, Scotland

Prof. Paul Rodgers, Prof. Mel Woods

Tackling the Climate Emergency
Scottish Funding Council, Scotland Beyond Net Zero

30 September 2025

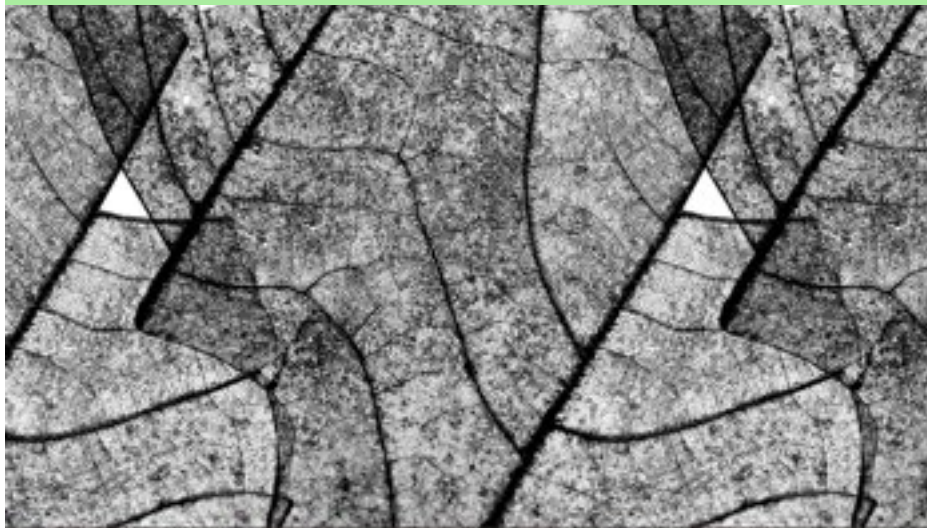




Design HOPES, University of Strathclyde +
University of Dundee



Future Island-Island, Ulster University



Public Map Platform, University of Cambridge



Transforming Housing and Homes for Future
Generations, University of Bath + Cardiff
University

Our Vision

To embed design-led research and making to accelerate real-world benefits within the health ecosystem.

Organisations

Creative and Innovative Industries

- 4C
- Alexander Manufacturing
- AndThen
- Dress for the Weather
- Esce-TEX
- Project Plan B
- Still Life
- The Top Project
- Wideblue

Universities

- Abertay University
- Heriot Watt University
- University of Dundee
- University of Edinburgh
- University of Strathclyde

Community and Non-Profit Organisations

- Carers Scotland
- Community Energy Scotland
- Propagate
- The Stove Network

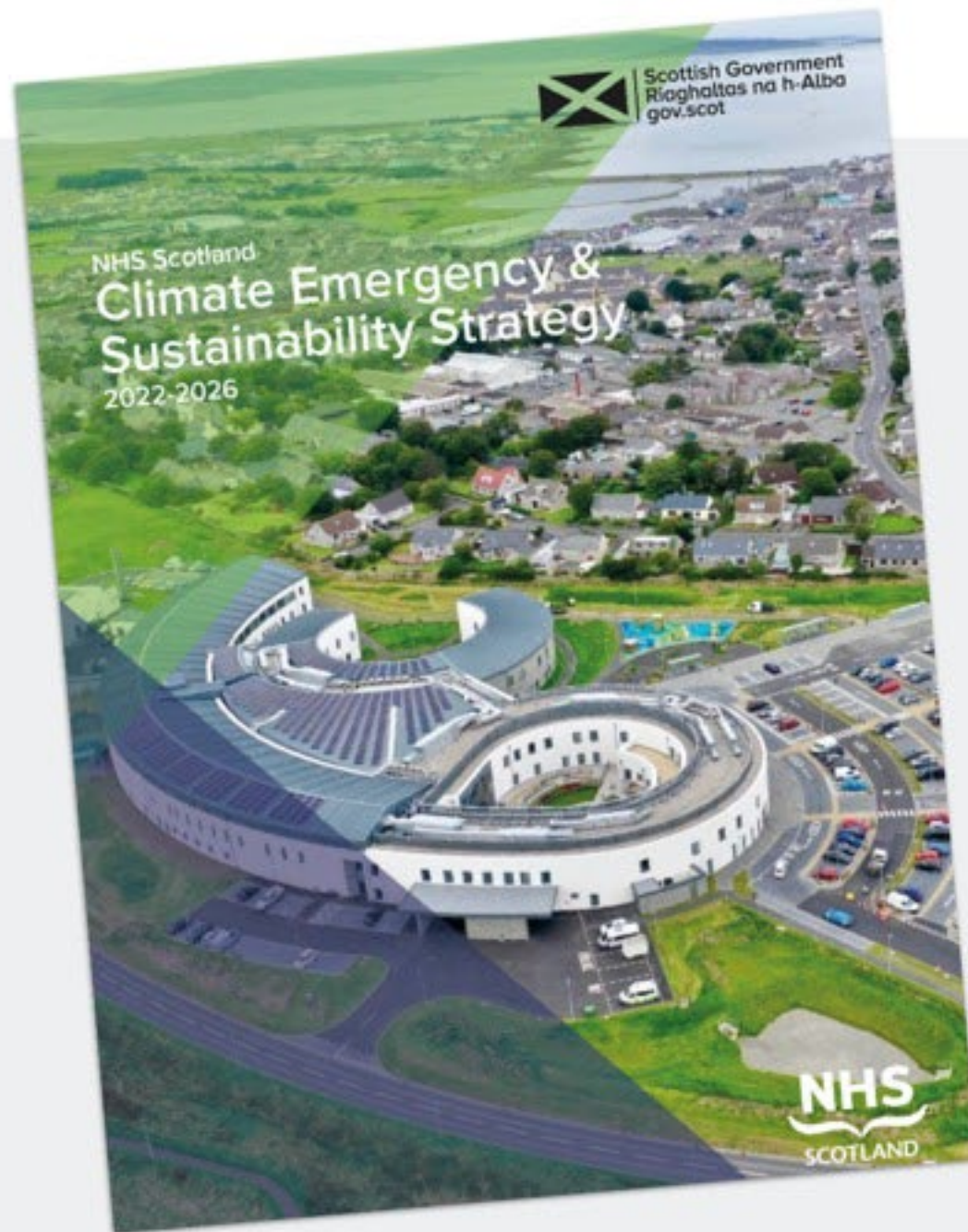
Healthcare and Public Health Organisations

- ENRICH
- Hairmyres Hospital
- Mountainhall Treatment Centre
- New Craigs Hospital
- NHS 24
- NHS Golden Jubilee
- NHS Scotland
- NHS Scotland Assure
- NHS Tayside
- One Health Breakthrough Partnership
- Public Health Scotland
- Royal Alexandra Hospital
- Scottish Ambulance Service

Context

Design HOPES builds on the five themes in the NHS Scotland Climate Emergency and Sustainability Strategy (2022 - 2026).

- Sustainable Buildings & Land
- Sustainable Travel
- Sustainable Products & Services
- Sustainable Care
- Sustainable Communities
- +
- Sustainable Digital Design
- Sustainable “Exploratory” Projects



DesignHOPES / Project Overview

DESIGN HOPES

Theme 1. Sustainable Buildings & Land

Indicative projects

Energy efficient buildings that minimise the carbon footprint and maximise the health and wellbeing of patients, staff, and community.

Supporting sustainable environmental behaviour that enhances health and wellbeing, such as active transport, healthy eating, and sustainable waste management practices.

Permanent architectural products created from recycled single-use plastics, including internal products for re-specification within healthcare environments and external products, such as rain gardens, planters, and contemporary outdoor furniture.

Improve air quality (IAQ) and nature-rich healthcare environments that promote health and wellbeing.

DESIGN HOPES

Theme 2. Sustainable Travel

Potential projects

Developing commuting forecast and scenario plans
A series of scenario plans will provide accurate future visions to inform policy and develop sustainability strategies.

Design-led infrastructure for fleet vehicles
Material choices to increase the range efficiency of vehicle fleets and promote vehicle recycling resulting in a reduced carbon footprint and a more sustainable healthcare system.

Active travel increase the engagement of NHS employees in active travel and provide necessary infrastructure for achieving increased active travel, such as showers and bike storage areas.

DESIGN HOPES

Theme 3. Sustainable Products & Services

Potential projects

Green e-waste prototyping for sustainable products, services and processes to assess the reduction of the overall consumption processes for e-waste in hospital wards to improve waste management and reduce the amount of e-waste generated in healthcare.

DESIGN HOPES

Theme 4. Sustainable Care

Potential Projects

Reducing waste in healthcare services, particularly in the areas of device consumables and chronic condition management.

Sustainable healthcare practices. Lowered carbon emissions linked to waste due to poor product understanding, measuring and prescription, leaving products unused and patients without adequate treatment leading to both quality of life and physical deterioration.

Design-led communication and collaboration tools between healthcare professionals, patients, and other stakeholders.

Sustainable Care Design Hub that up-skills NHS staff in design thinking and drives innovation in healthcare.

DESIGN HOPES

Theme 5. Sustainable Communities

Potential projects

Designed community interventions to build a sense of empowerment, increase resilience across society of the tangible levels of sustainability and impacts of climate change.

Climate engagement in high BMD areas in the design and delivery of NHS initiatives, with a particular focus on low income urban areas.

Rural pharmaceutical waste The co-design of behaviour change interventions to minimise pharmaceutical waste, particularly in rural settings.

Work from home toolkit to promote a greater understanding of the environmental implications and alignment with the NHS Net Zero objectives.

DESIGN HOPES

Theme 6. Sustainable Digital Design

Potential projects

Playing with Data a proof of concept model to test the effectiveness of "playing with data" as an easy access route to complex data environments and interdependent systems.

Workable data adoption strategies for (a) in-house recording behavioural change.

Data design methods (small data approaches) design decision architecture and user experience aimed at promoting behaviour change in both prescribers, consumers and patients.

Dynamic data-driven visualisations to enable reports and outcomes of alternative prioritisation strategies on identified metrics (such as GP hospital, user prescription, engagement with environmental impact issues, behavioural change, wellbeing).

Novel design methodologies for situationally aware systems that bring together operational models for interaction design, user experience design and decision architecture.

DESIGN HOPES

Theme 7. Sustainable "Exploratory" Projects

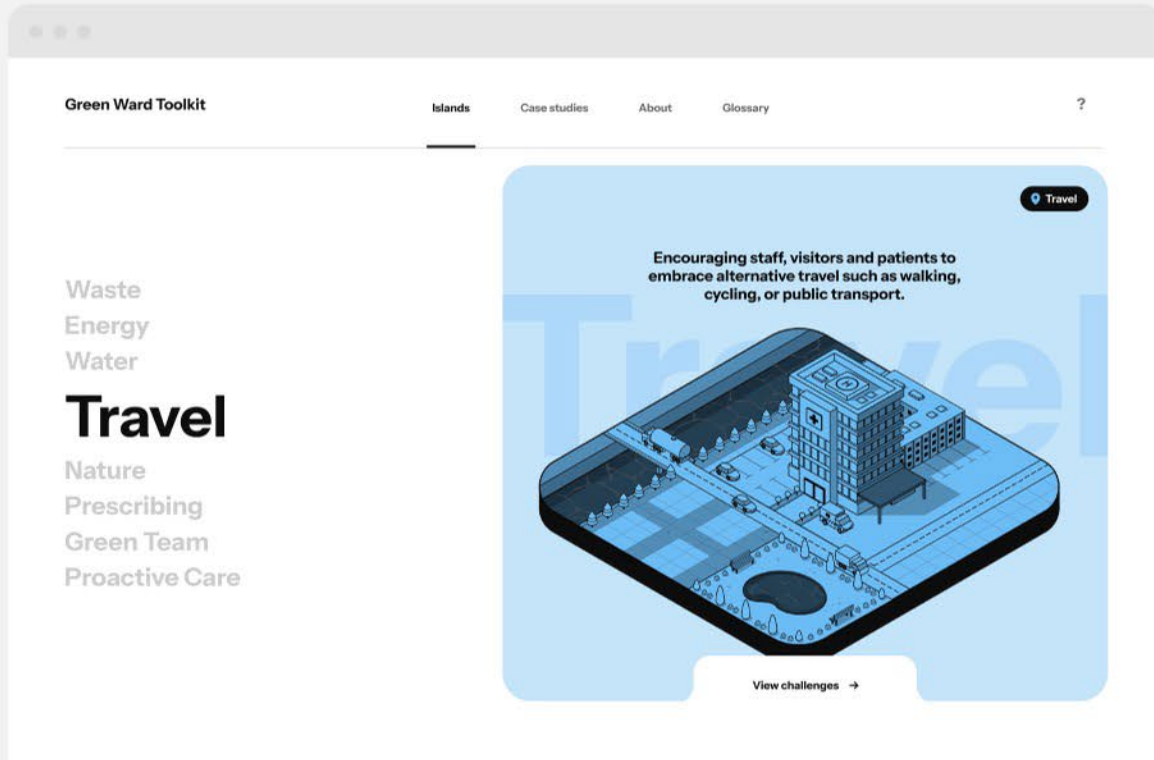
Potential projects

Proof-of-concept green transition demonstrators that help to promote public awareness and support for sustainability.

Practical NHS Net Zero target guides and toolkits that support NHS organisations, enhancing communication, and feedback loops to employees, and creating a more sustainable working culture.

Innovative nature based design solutions addressing sustainability requirements in the healthcare sector, and creating economic value from up-cycling waste.











How can design help us see the bigger picture?

How can design change everyday life?

How can we involve communities?

V&A Dundee

DesignHOPES

From HOPE to HEALTH

2 Oct 2025
- 8 Feb 2026

Making healthcare
more sustainable

Free exhibition



V&A



Impact

**Designing sustainable
interventions to meet urgent
Net Zero goals and beyond.**

DesignHOPES / Universities



University of
Strathclyde
Glasgow



University
of Dundee



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University®



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