

Project: IRISCAST

IRIS-Carbon-Audit-SnapshoT

(IRISCAST)

Abstract

Making good decisions around infrastructure procurement and provision requires understanding, as much as possible, the full carbon costs for operating, maintaining, and using the infrastructure; going beyond accounting for electricity and cooling, and including the full chain of costs embodied in the infrastructure. Enabling good decision making therefore requires a source of accurate real-world data on infrastructure climate impacts.

This project will perform an audit of carbon costs across a multi-site heterogeneous infrastructure (called [IRIS](#)) by collecting and analysing snapshots of actual usage. It will identify where the carbon cost sits across the infrastructure. It will also find out what the drivers are that influence carbon cost. The evidence collected will be used to allow for consistent reporting, evaluation and decision making.

Institutions and representatives for this project

Queen Mary University of London – Jonathan Hays

University of Cambridge - Nicholas Walton

University of Edinburgh - Adrian Jackson

Funding information

This project has been awarded a total of £137,387.00 by the UKRI Net Zero Digital Research Infrastructure (DRI) Scoping Project (NERC project [NE/W007134/1](#)). This funding is split between the institutions listed above.

Additional information

The UKRI Net Zero DRI Scoping Project will produce clear evidence and recommendations for a roadmap for the UKRI and their community to deliver carbon neutral DRI by 2040 or sooner.

The IRISCAST sub-project was selected for funding via a sandpit event in May 2022. The proposals from teams were assessed on three factors; their excellence, potential to produce conclusive evidence and clarity of planning.

To read more about the UKRI Net Zero DRI Scoping Project visit our [website](#).