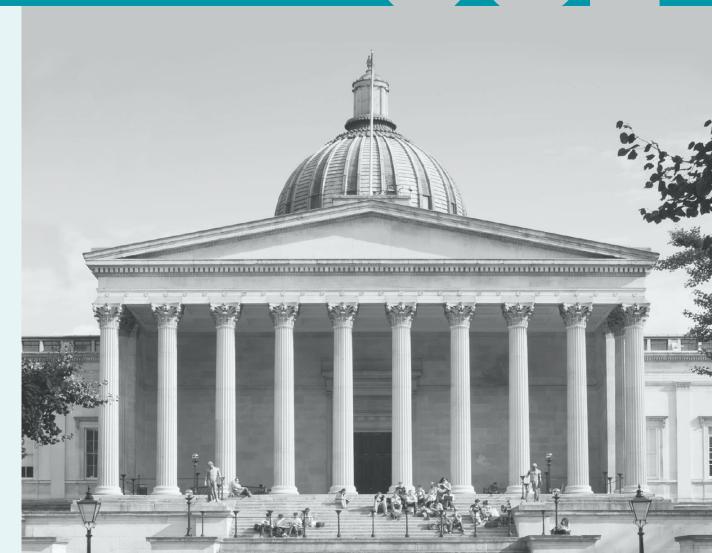
## **L**

## DAFNI Champions kickoff

Infrastructure Research Ontologies

Prof Liz Varga



## Background

FHEA Fellow of the Higher Education Academy, *Cranfield School of Management* (2016)

PhD "The coevolution of the firm and the supply network: A complex systems perspective", *Cranfield School of Management* (2009)

MBA Cranfield School of Management (2002)

BA (Honours) Pure Maths and Data analysis/design, *Open University* (1989)

Professor of Complex Systems; Head of Infrastructure Systems Institute, Civil, Environmental and Geomatic Engineering department, *UCL* (2018-)

2017- Group Head: Infrastructure Systems, 2015- Professor of Complex Infrastructure Systems, *Cranfield University*, School of Management (2003- 2019)

Technical Advisory Group (RAEng) Safer Complex Systems 2020-

CDBB Digital Twin Hub 2019-NIC Resilience 2019-2020

LRF Foresight Review on the future of regulatory systems in a disruptive world 2019-

## **IRO**

Addresses the absence of a high-level infrastructure research ontology (IRO) which will support the identification of gaps and priority areas, and provide a shared framing for stakeholder engagement. Both framework and content will be covered.

WP1: Types of IRO (Lead UCL) WP5: Ontology of Ontologies (Lead Newcastle)

WP2: Datasets (Lead Cranfield) WP6: Methods (Lead Newcastle)

WP3: Industrial Ontologies (Lead UCL) WP7: Use Cases (Lead Costain)

WP4: Scale (Lead Oxford) WP0: Management (Lead UCL) with Leeds

- D1. Final report and recommendations (includes all the findings from WP1-7)
- D2. Co-authored academic paper on the subject of Infrastructure Research Ontologies
- D3 IRO survey instruments (types, industrial ontologies, ontology of ontologies)
- D4. Case studies demonstrating linking at different scales
- D5. Example Use Case visualisation materials for DAFNI web portal
- D6. Ongoing contribution to advocacy activities for DAFNI