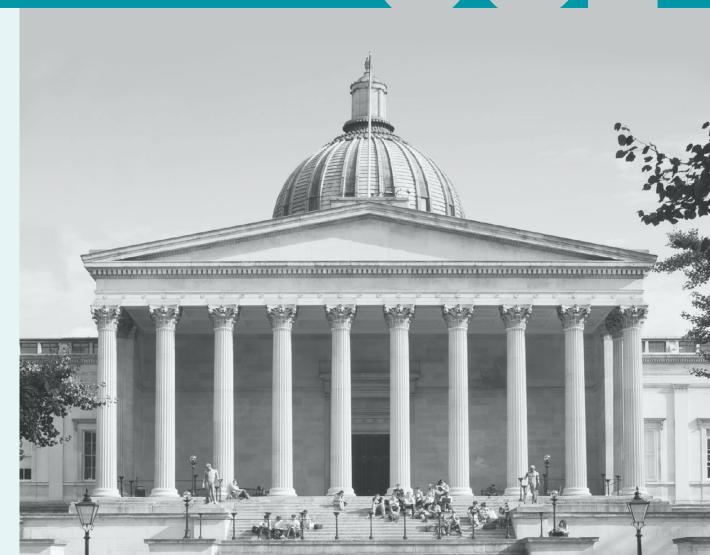UCL

DAFNI Champions kick-off

Infrastructure Research Ontologies

Dr Andrey Postnikov

24 June 2020

Background

- BSc and MSc in Information Science and Computer Engineering
  - Experience in computer simulation and complex systems modelling
  - Signal processing and data analysis (classification, scaling, clustering)
- PhD in Engineering (Nonlinear Dynamics)
  - Reduced-order models for offshore marine applications

With UCL's Infrastructure Systems Institute since March 2019
  - Dynamic energy control mechanisms (multi-agent control, optimisation)
  - Agent-based modelling, distributed systems

Description of the work on industrial ontologies

1. Web research and review
   - Published industrial ontologies
   - Engagement with key stakeholders in the area
   - Collection of relevant evidence, links, dates of access, and contacts
2. Survey preparation and design (Qualtrics)
3. Survey implementation, collection of results, and analysis
   - Survey results will be analysed together with the findings from web search to identify relationships between industrial ontologies and IRO (Infrastructure Research Ontology)
4. Final report, discussion of the findings and lessons learnt