

## System Dynamics in relation to prosperity and sustainability

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The Centre for the Understanding of Sustainable Prosperity (CUSP) is funded by the ESRC. The overall aim of CUSP is to explore the economic, ecological, social and governance dimensions of sustainable prosperity and to make concrete recommendations to government, business and civil society in pursuit of it.

The CUSP work programme is organised around five core themes: **(M)**eaning and moral framings of the good life; the role of the **(A)**rts and culture in delivering of prosperity; **(P)**olitical and organisational dimensions of sustainable prosperity; **(S)**ocial and psychological understandings of the good life; and **(S)**ystems analysis to explore narratives of sustainable prosperity.

This presentation will focus on the work of the S2 theme within CUSP. This theme uses empirically-calibrated, economic system models to explore visions of sustainable prosperity. It is thus composed of two parallel main strands: the first is collation and synthesis of narratives of sustainable prosperity arising from across the CUSP programme; the second is development of models for the analysis and testing of the economic, financial, environmental and social dimensions of these narratives. We will work with our partners within CUSP and also with our partner organisations (including KTH Sweden, the Finance Innovation Lab and the Institute and Faculty of Actuaries) to draw up plausible and contrasting visions of sustainable prosperity. Modelling is based on the platforms developed in the Prosperity and Sustainability in the Green Economy (PASSAGE) project (including the Green Economy Macro-Model and Accounts (GEMMA) framework being developed by Prof Tim Jackson, University of Surrey and Prof Peter Victor, York University, Canada), and the expanded World 3 model being developed by the Global Resources Observatory, Anglia Ruskin University.

**Professor Jones** is the inaugural Director of the Global Sustainability Institute (GSI) at Anglia Ruskin University. He is a Co-Investigator on the ESRC Centre for the Understanding of Sustainable Prosperity (CUSP), the AHRC Debating Nature's Value network and the EU H2020 MEDEAS project. Prof Jones' research particularly focusses on the finance sector and government and how they will respond to the impacts of global resource trends and climate change. He was lead author on the seminal report on resource constraints to the Actuarial Profession in 2013 and is now leading a team to build a global model to explore political fragility from resource crisis. He regularly consults on international climate finance, in particular on public-private partnerships, for organisations like the UK Government and the World Bank. Prof Jones is an External Panel member of the HRH Prince of Wales Accounting for Sustainability (A4S) group and sits on the Scientific Advisory Group for the Global Food Security initiative which feeds into the UK research councils and across government.