

Computational Diplomacy and Policy Workshop

July 3rd, Prague, ICCS 2023



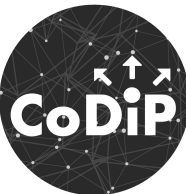
Michael Lees, Bastien Chopard, Brian Castellani

Session One 14:50-16:30

14:50 – 15:10	Welcome and Introduction
15:10 – 15:30	Open Discussion (Brian Castellani)
15:30– 15:50	Automating the Analysis of Institutional Design in International Agreements
15:50 – 16:10	The Emergence of an European Consensus: A Data-Driven Analysis of UN General Assembly Voting Patterns
16:10-16:30	Towards a Better Understanding of Multilateral Consensus Making: Analysing the Complex Network of UN Security Council and WHO Resolutions

Session Two 17:00-18:40

17:00 – 17:20	An Approach for Probabilistic Modelling and Reasoning of Political Networks
17:20 – 17:40	An Analysis of Political Parties Cohesion based on Congressional Speeches
17:40 – 18:00	Leveraging Social Contagion to Foster Consensus in Collective Decision-Making
18:00 – 18:20	The complexities of policy, data and computational methods: Charting a new, case-based, social science grounded, AM-Smart methods approach
18:20 – 18:40	Modelling mechanisms of school segregation and policy interventions: a complexity perspective



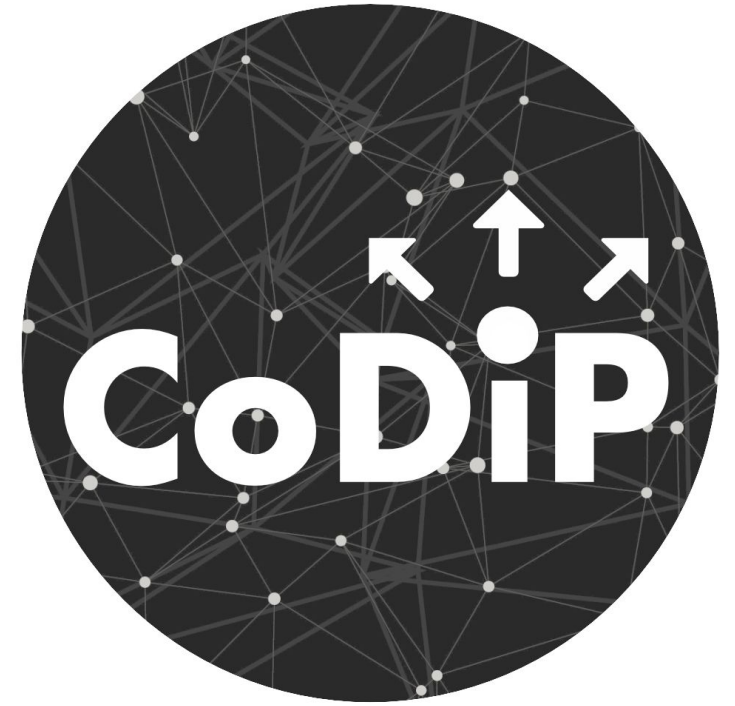
Introduction

Why we start this community:

Short reflection:

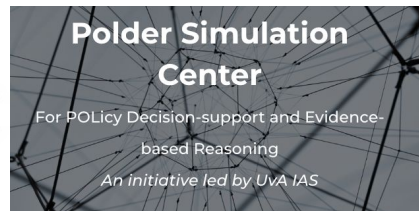
Mike, Bastien & Brian
Amsterdam, Geneva, Durham

At Amsterdam, the [POLDER](#) initiative is developing co-created research and new educational programmes around complexity, policy and social systems. The University of Geneva, through the [Geneva Science and Diplomacy Anticipator](#) is building a new group around computational diplomacy. The University of Durham, through the [Durham Research Methods Centre](#) and [CECAN](#) is working with scholars and non-academic partners to develop interdisciplinary methods training and research for policy and decision making..



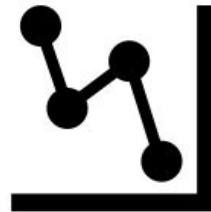


An Approach for Co-creation and POLicy Decision-support and Evidence-based Reasoning (POLDER)



Mike Lees (IvI/IAS)

The Polder Methodology



Co-Creation

Group model building with
Policymakers

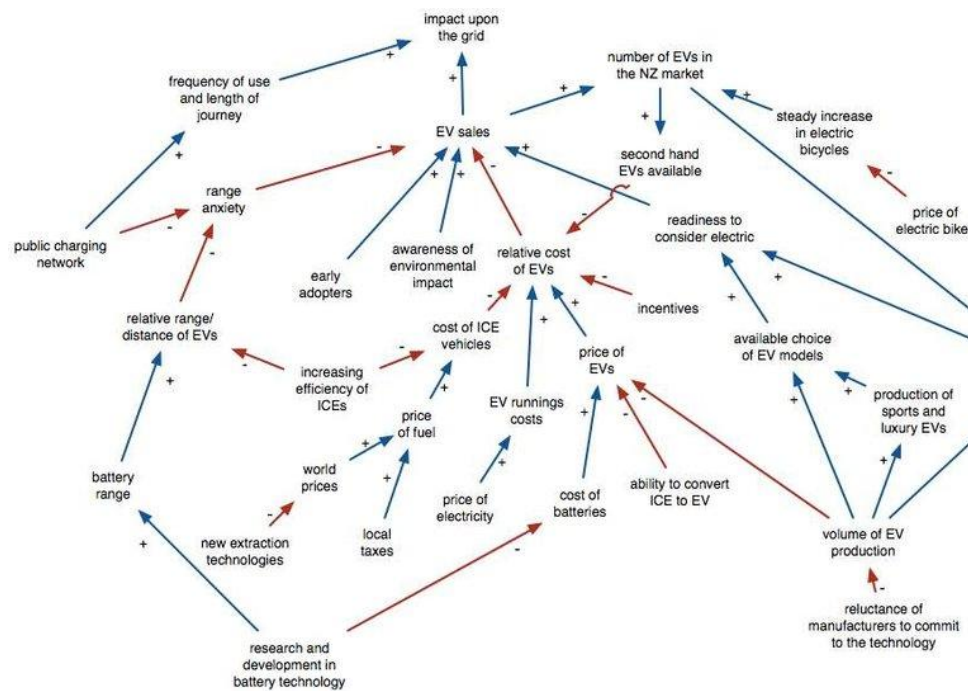
Computational Modeling

What-if scenarios

A “virtual playground” for
policymakers

Causal Loop Diagrams

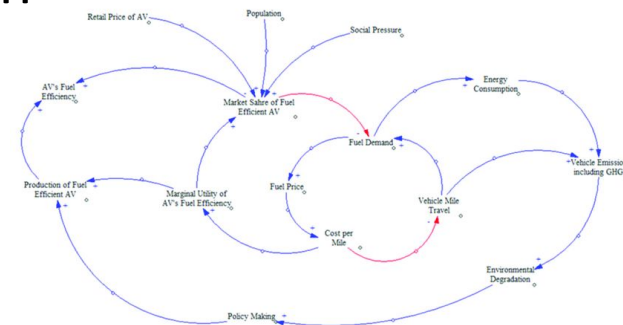




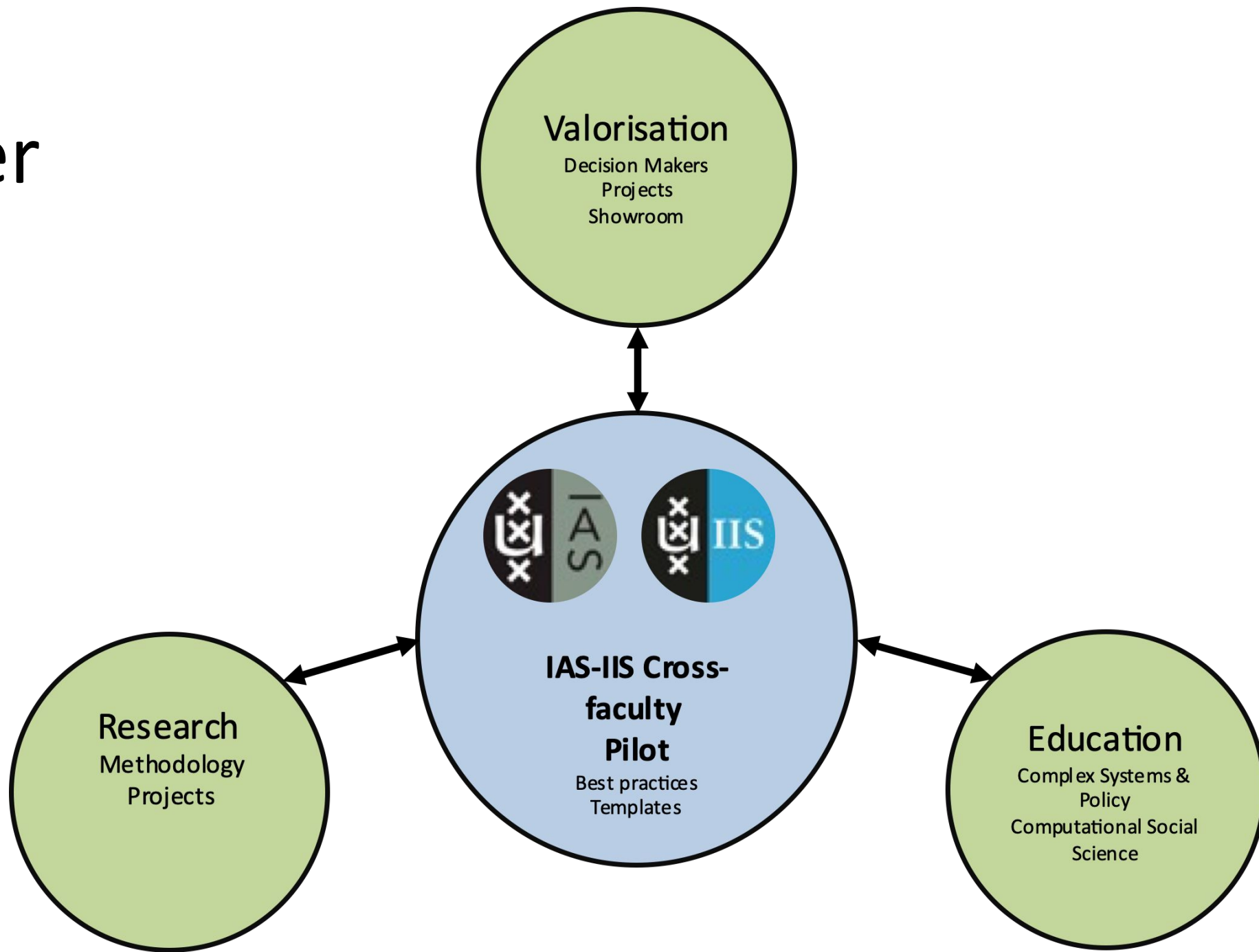
Abstraction



Assumptions



Polder



Example Projects

7 ongoing projects to date...

e.g.,

School Segregation

Criminal Networks

Energy Transition

Resilience of industry clusters

(New) Relevant NWA grants:



METAHEALTH:

Health in a microbial, sociocultural and care context in the first 1000 days of life



COMCRIM:

COMbatting CRIMes that undermine democratic societies governed by the rule of law in a smart and comprehensive manner

External Partners



Rijksinstituut voor Volksgezondheid
en Milieu
Ministerie van Volksgezondheid,
Welzijn en Sport



Inspectie van het Onderwijs
Ministerie van Onderwijs, Cultuur en
Wetenschap



Centraal Bureau
voor de Statistiek

× City of
× Amsterdam



Ministry of Economic Affairs
and Climate Policy

Find out more....

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The Centre for the Evaluation of Complexity Across the Nexus

The Centre for the Evaluation of Complexity Across the Nexus (CECAN) has been transforming the practice of policy evaluation across the food, energy, water and environmental domains, to make it fit for a complex world. We have achieved this through pioneering, testing and promoting innovative policy evaluation approaches with UK Government departments.

We are also delivering a technical training programme, CPD courses, specialist workshops, publications, webinars and seminars to demonstrate the challenges of evaluation in real world situations. Our Fellowship Programme has provided opportunities for those from Government and industry to forge useful and lasting connections with researchers and for CECAN's work to be informed by and linked closely to practical evaluation.

We will continue to refine complex appropriate evaluation methods in the nexus domains and apply them to public health, wellbeing, the local natural environment and enterprise domains in partnership with national, regional and local government, nongovernment funders and the third sector and expand our technical training, workshop, publication and webinar programmes, sharing our specialist knowledge and skills to further develop the capacity of those working on UK policy evaluation.

CECAN Ltd is the commercial arm of CECAN. It delivers contracted evaluation research and bespoke training courses. If you would like CECAN Ltd to undertake work for you, please contact admin@cecان.co.uk

Posters



Conference Papers



Project Reports



Journal Articles



Toolkits

Newsletters





The Complexity Evaluation Toolkit

July 2021
cecan.ac.uk

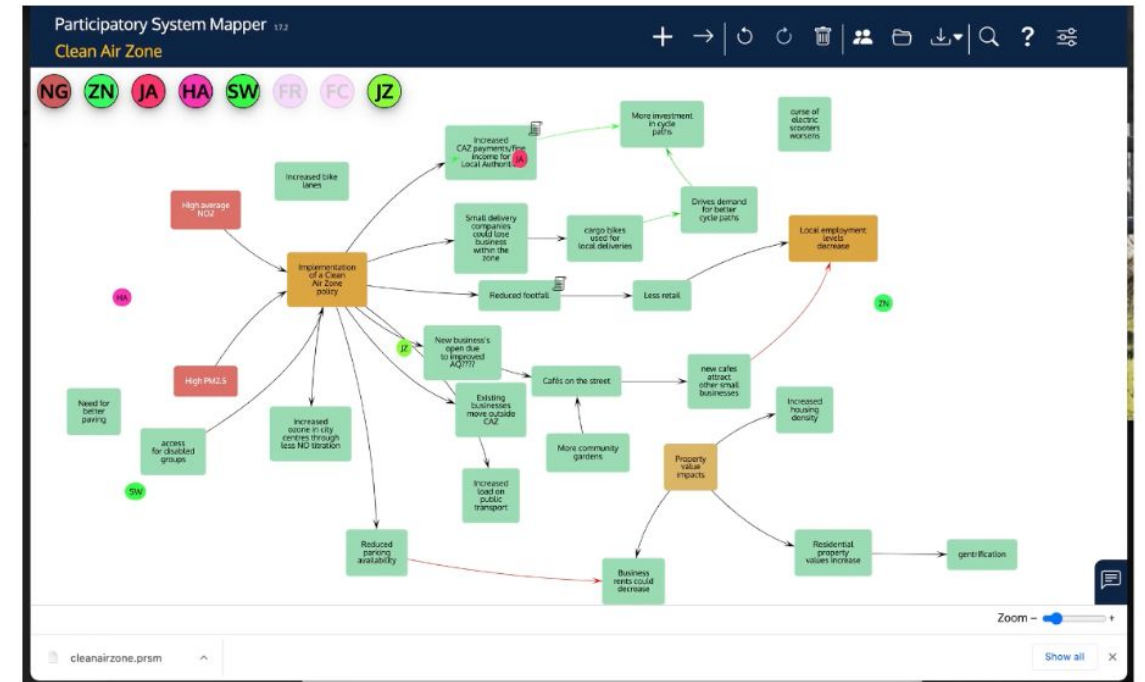
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Collaborative Creativity

The Participatory System Mapper (PRSM) is an app that makes it easy to draw networks (or 'maps') of systems, working together collaboratively



Groups of people, each using their own computer (or tablet) can collaborate in the drawing of a map using PRSM.

They may be sitting around a table, discussing the map as it is created face to face, or working

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Research Methods Centre

We work with scholars and non-academic partners to develop interdisciplinary methods training and research.

The DRMC Vision

At the DRMC we are very excited to be launching our new methods strategy. **Our vision is to become world-leading at innovating methods for the interdisciplinary study of complexity in social science and health.**

Building on the accomplishments of the DRMC over the past three years, we will pioneer three core research themes:

- **Designing novel methods to tackle complex real-world challenges**
- **Creating tools for navigating the global methods landscape**
- **Developing interdisciplinary methods for knowledge advancement**



Exploring complex data from a case-based perspective

Build the Model

1. Build Database and Import Cases
2. Cluster Cases

Test the Model

3. The Computer's turn
4. Compare and Visualise Results

Extend the Model

5. Simulate Interventions
6. Predict New Cases

Export Results

7. Generate Report

beta version
release 2019

COMPLEX-IT is a web-based and downloadable software tool designed to increase your access to the tools of computational social science (i.e., artificial intelligence, micro-simulation, predictive analytics). It does this through a user friendly interface, with quick access to introductions on concepts and methods; and with directions to richer detail and information for those who want it.

The result is a seamless and visually intuitive learning environment for exploring your complex data -- from data classification and visualisation to exploring simulated interventions and policy changes to data forecasting.

You don't need any technical expertise to start using COMPLEX-IT, all that is required is a data set you want to explore, and a curious mind!



DOWNLOAD
VERSION



WEB
VERSION

USER
RESOURCES

Video Tutorials
Step-by-step User Guide
Additional Readings

Meet the team

Brian Castellani



Corey Schimpf



Michael Ball



Peter Barbrook-Johnson

