

POLYTRoPOS

Models for Policy

The model as a tool of policy intelligence

George Papachristos

The Core Rationale of POLYTROPOS

1. Challenge-orientation:

- The deployment of prospective solutions is instrumental to societal challenges

2. Production-focus:

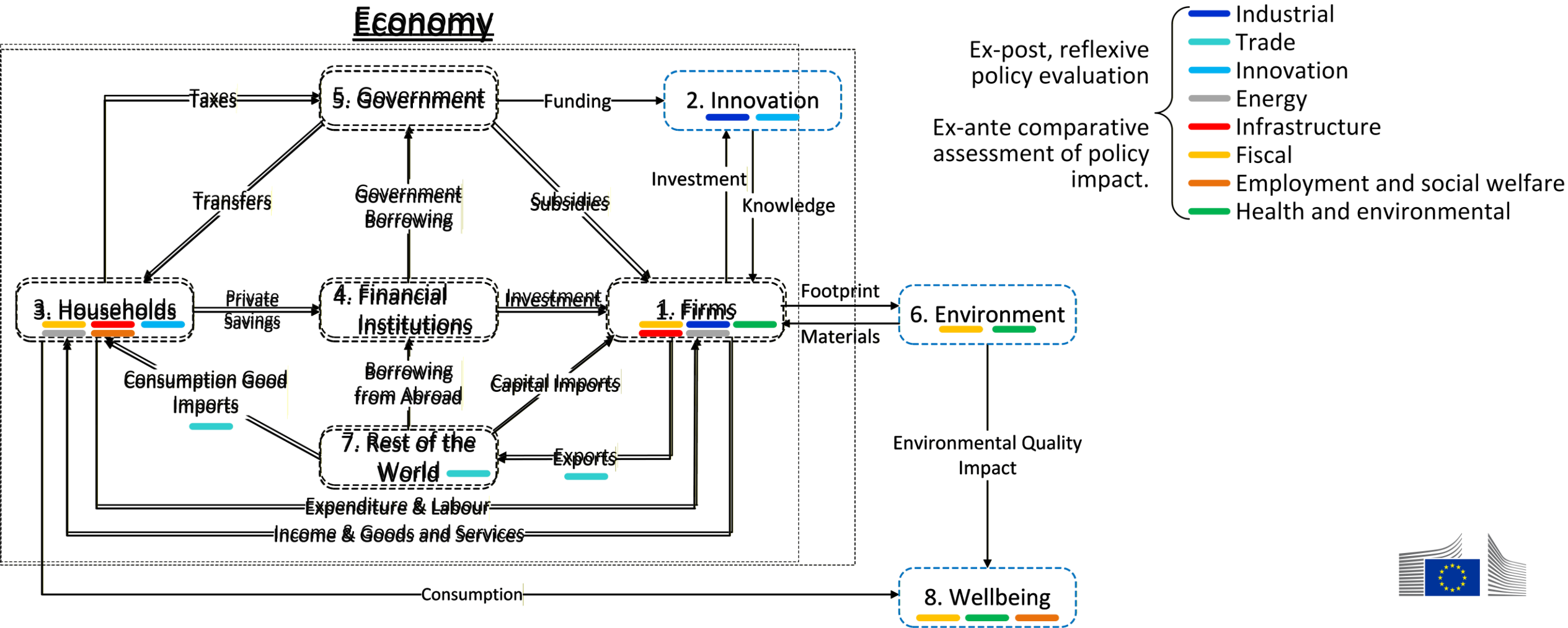
- The development of domestic production capability is linked to the deployment of solutions
- Integrated social, economic and environmental outcomes

3. Evaluation of policy portfolios:

- Across ministries and at the regional, national and EU27 levels
- Multi-level interactions in future model versions

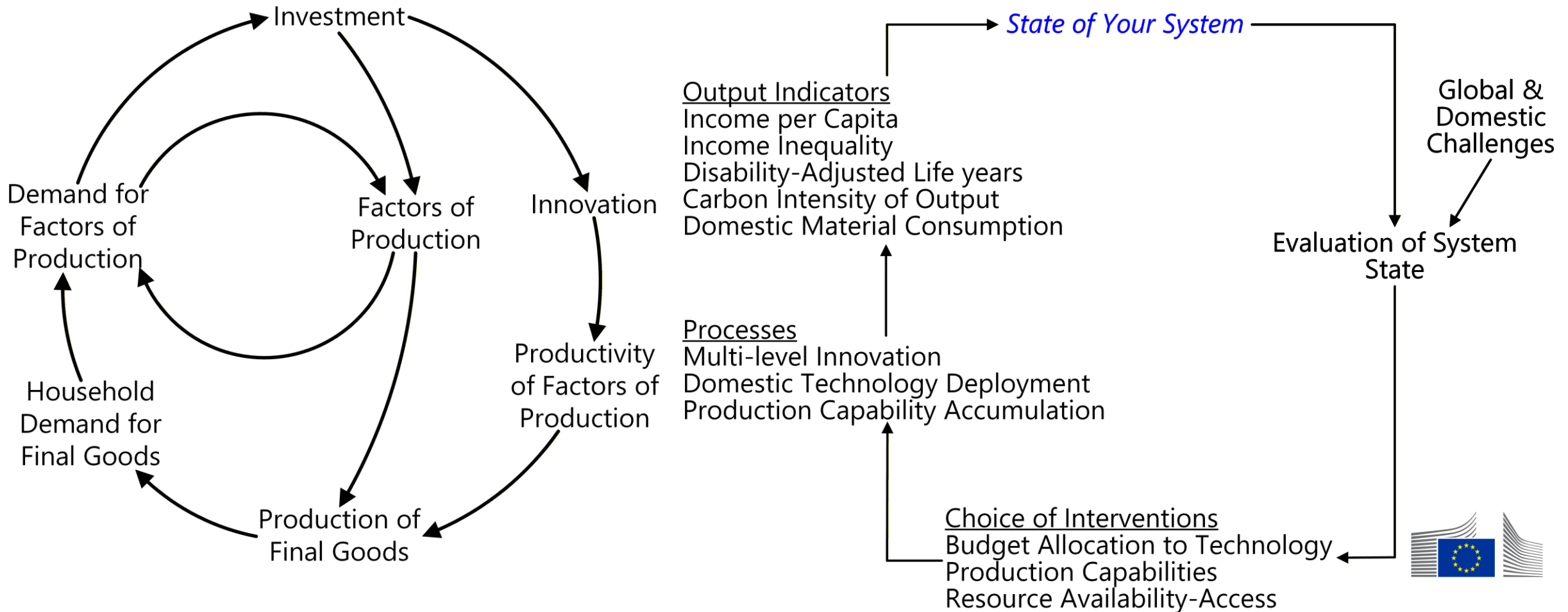


The Core Rationale of POLYTROPOS

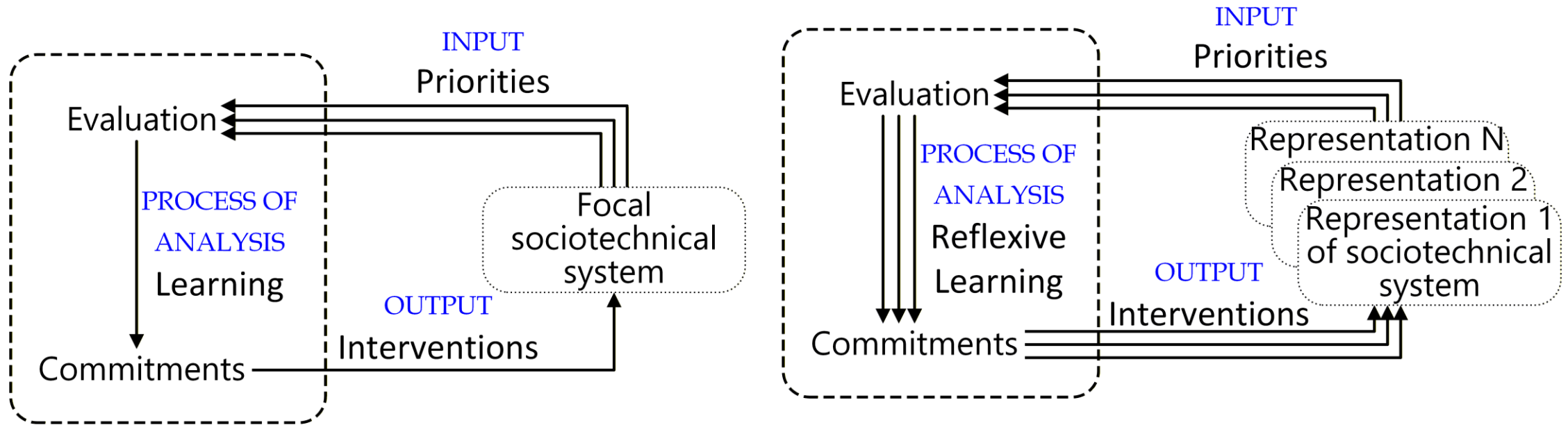


The Core Rationale of POLYTROPOS

“complex structure of feedbacks between the economic environment and the directions of technological changes” (Dosi, 1982, p151)



POLYTROPOS and Participatory SD Modelling

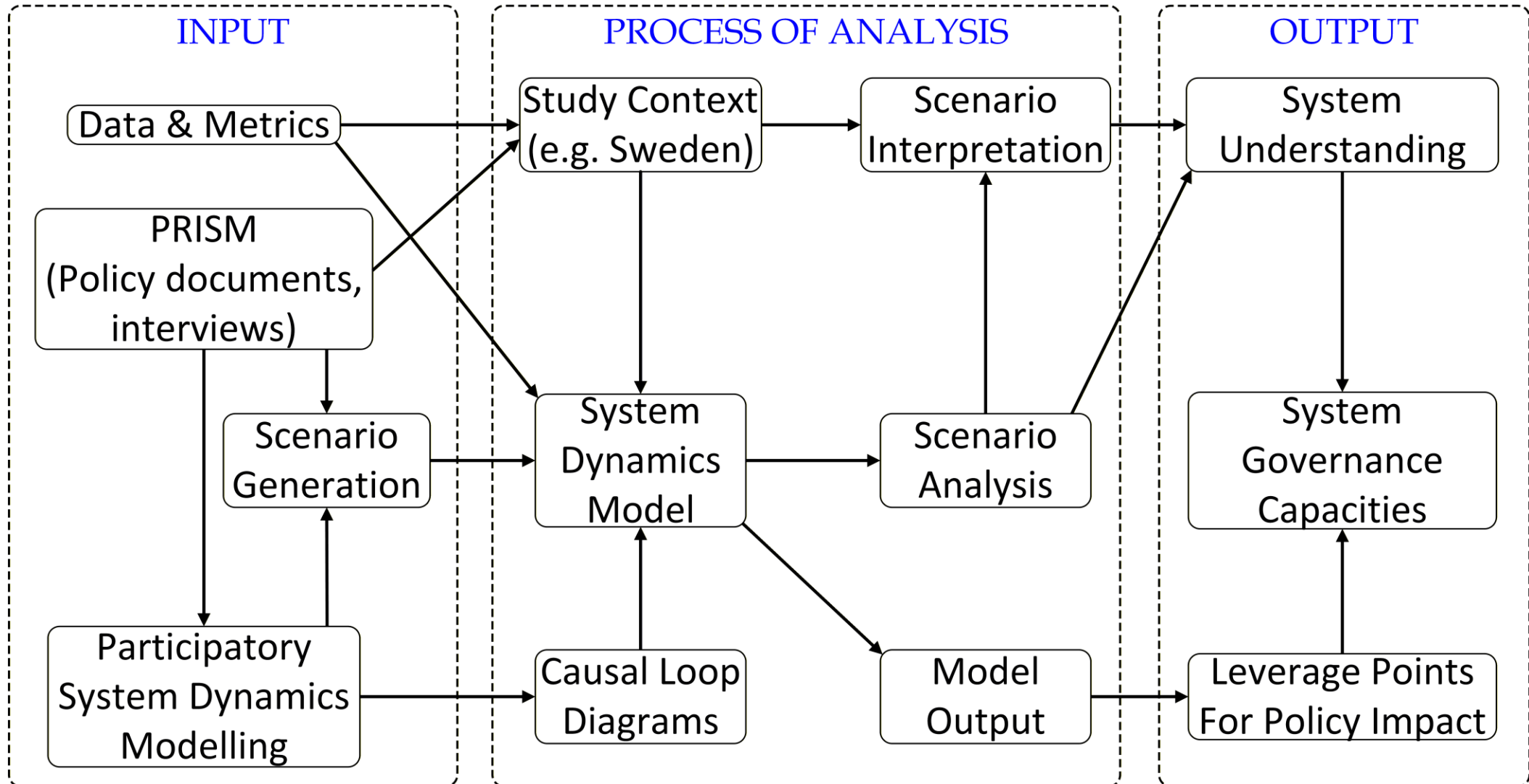


'The model' with a virtual laboratory *versus* a modelling process with boundary object(s)

“averages have no narrative” Scott E. Page



Policy Exploration with POLYTROPOS



PSDM combination with POLYTROPOS

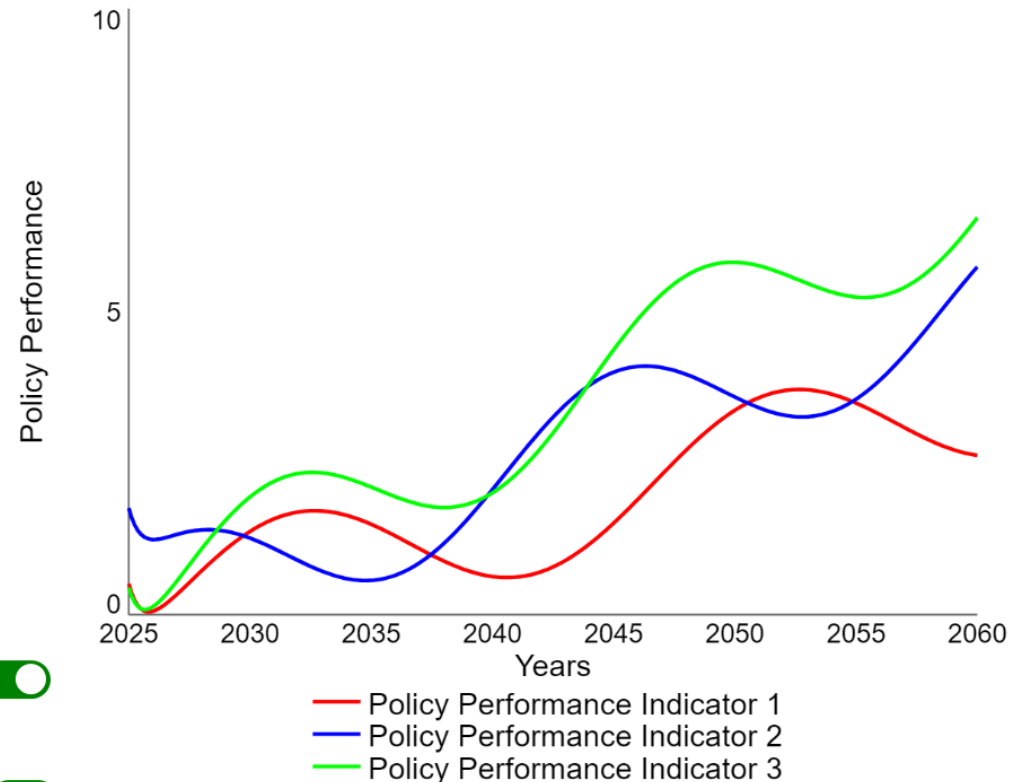
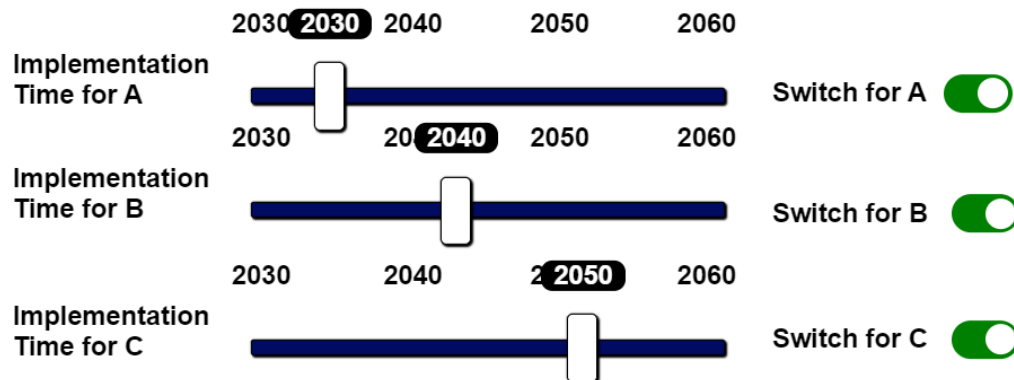
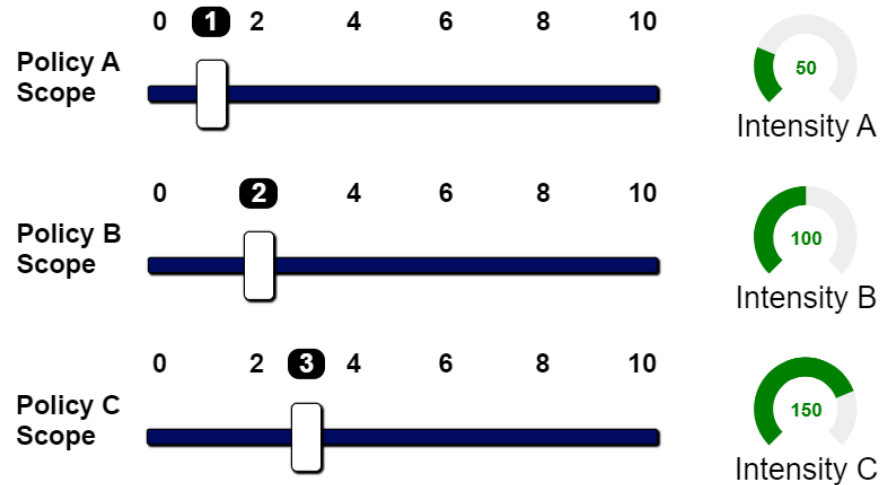
POLYTROPOS

Introduction

Exploration

Simulation

Lessons



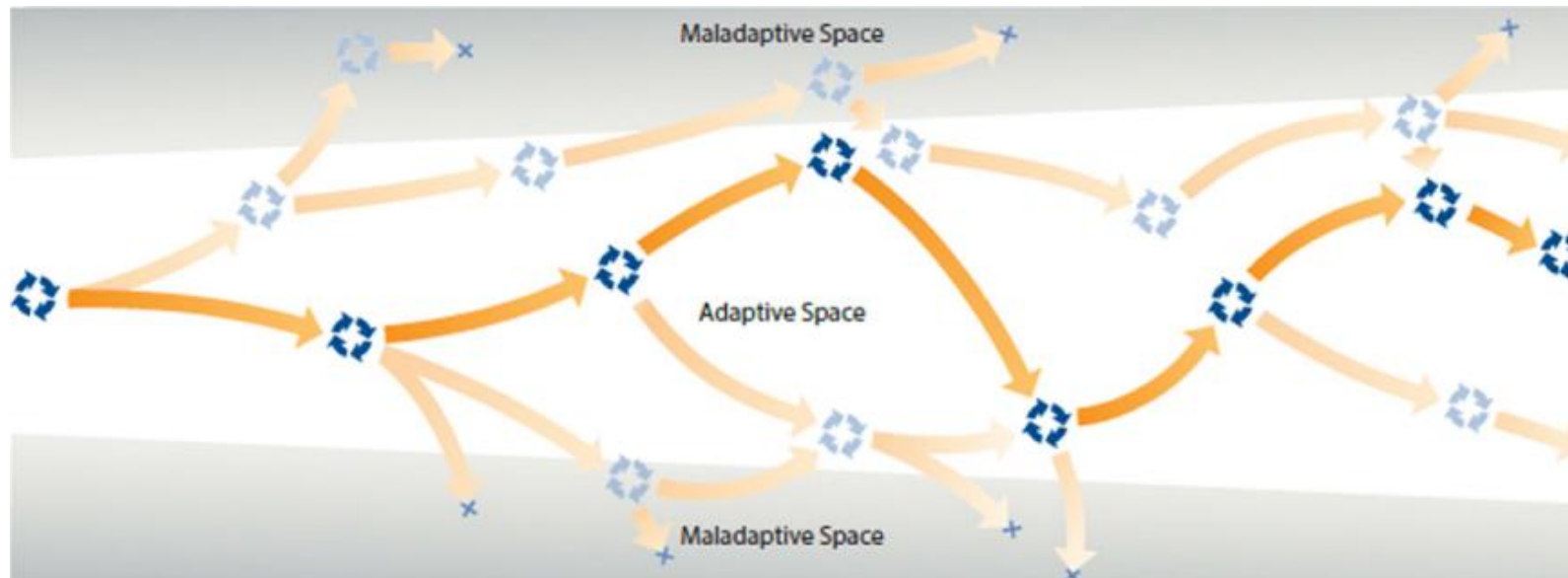
Reset

Simulate



PSDM combination with POLYTRoPOS

“complex structure of feed-backs between the economic environment and the directions of technological changes” (Dosi, 1982 p151)



Wise, R.M., Fazey, I., Stafford Smith, M., Park, S.E., Eakin, H.C., Archer Van Garderen, E.R.M., Campbell, B. 2014. Reconceptualising adaptation to climate change as part of pathways of change and response. *Global Environmental Change* 28, 325-336.



Thank you



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POLYTROPOS

Overview

POLYvalent model for TRansformative Policy Scenarios

George Papachristos