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Policy Analysis and Modelling based on Stakeholder Evidence

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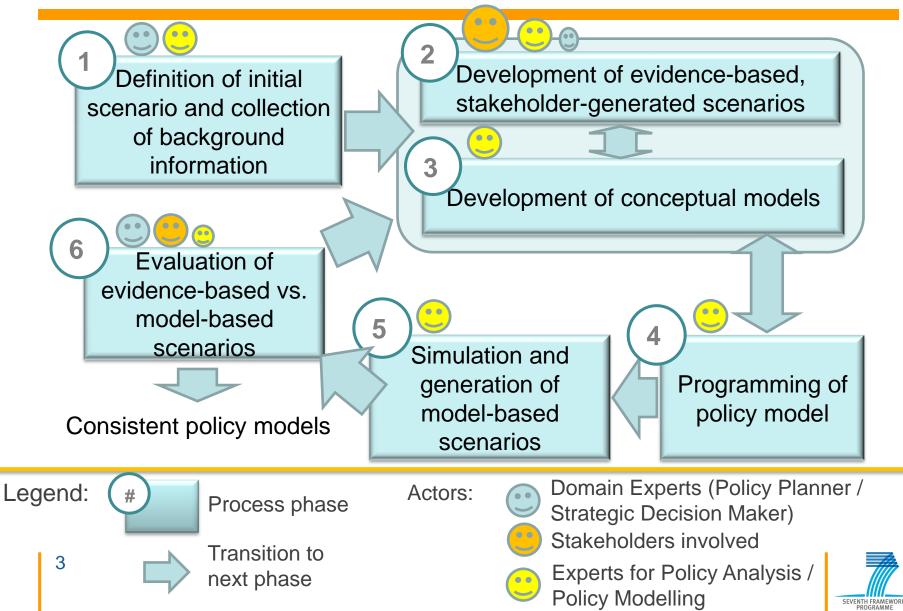
Support key stakeholders to participate in the processes of policy formulation

- Policy analysts, policy operators, wider stakeholder groups of specific policy domains
- Integrate methods and tools of scenario-based policy formation with formal policy modelling
- Develop an integrated ICT platform for efficient policy making
 - Mechanisms of open collaboration along the policy process
 - Supporting engagement of wide stakeholder groups



OCOPOMO's Integrated Policy Process and Involved Actors





Integrating Scenarios and Formal Policy Models

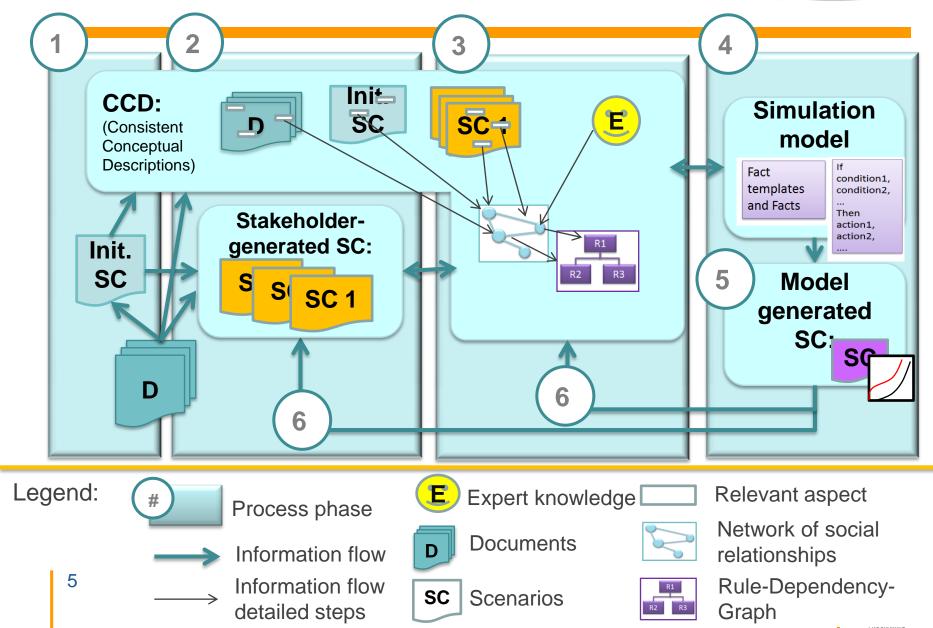


- Goals, scope and social processes specified by participating stakeholders
- Stakeholder-generated scenarios inform formal policy model design
- Models produce simulations, which result in model-based scenarios
- Participating stakeholders evaluate model generated scenarios
 - > Surprises involve further investigation of model & scenarios
 - Iterations in developing formal policy models



Artefacts along the Process Phases









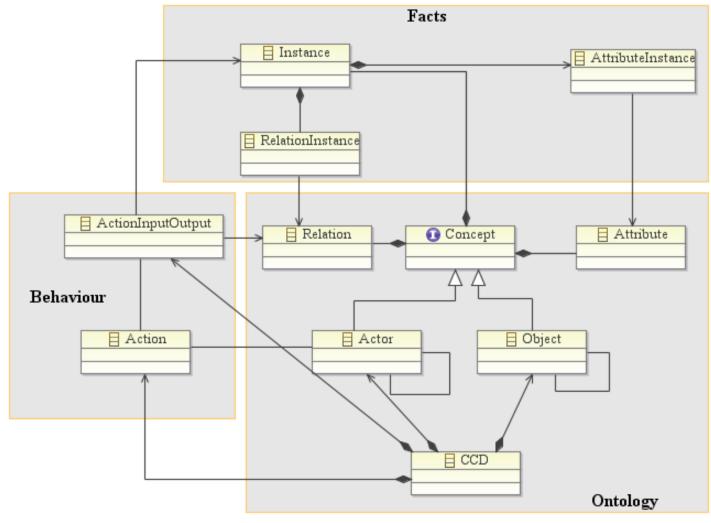
Traceability along the transformation steps

- To increase trust and understanding of stakeholders in policy models
- To support policy modellers in the conceptualisation of a policy domain
- CCD an important intermediary between scenarios and simulation models
 - Annotation of text and pdf / html documents (set of scenarios and background documents)
 - Storing the links to annotation
 - Conceptualisation of policy domain in iterative steps



CCD Metamodel





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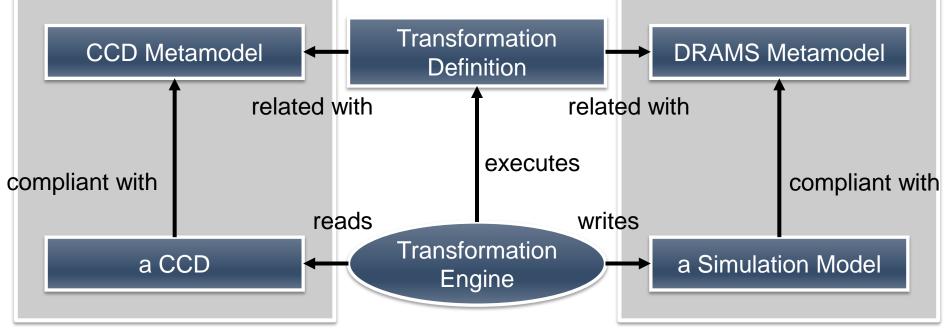


Model Driven Development of Simulation Models



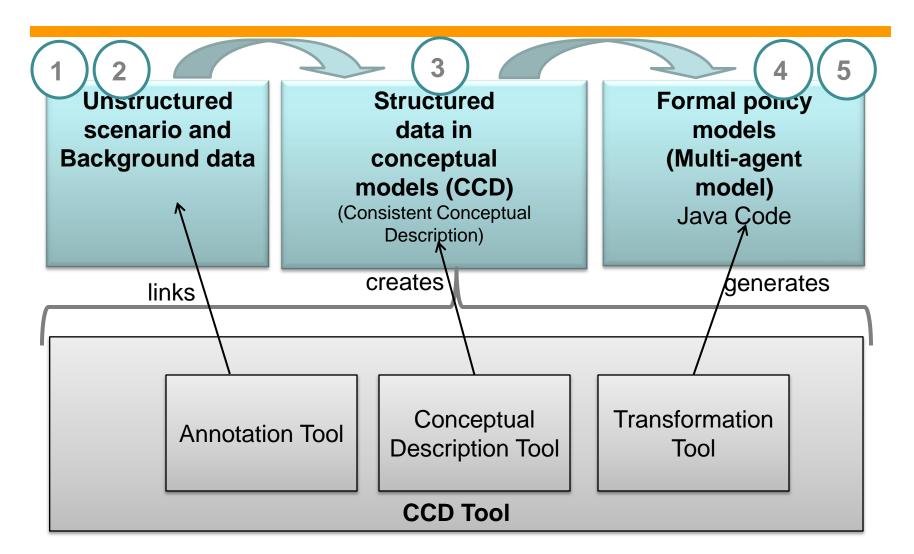
SEVENTH FRAME

Transformation from the <u>conceptual policy model</u> (a ccd) into a formal agent based <u>simulation model</u> (a simulation



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Technical tool to support the process





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CCD Tool – Annotation of Scenarios



If all the possible energy deco-sourcesó will be introduced, the TEKO power plant will need to produce only 700£000 GJ to satisfy the 👌

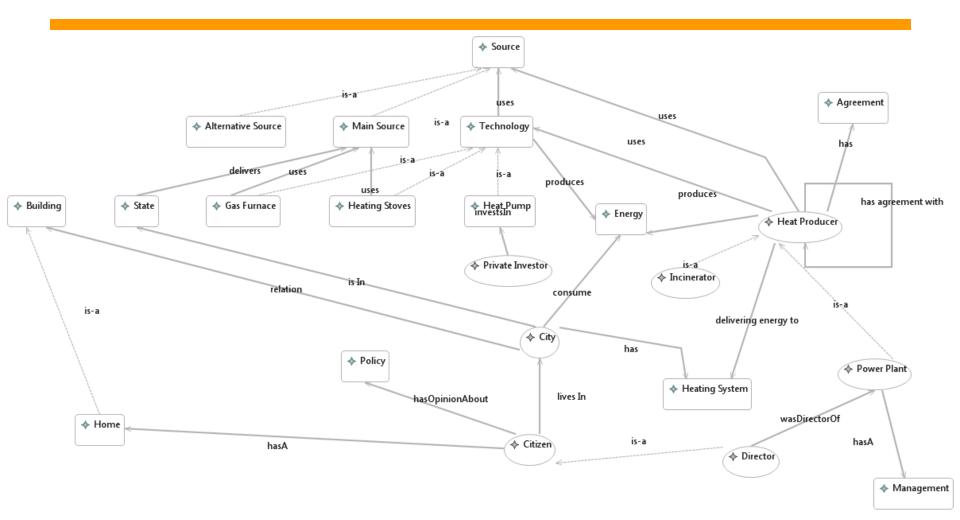


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CCD Tool – Visualisation Ontology



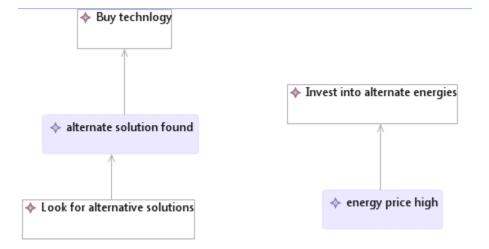




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CCD Tool – Visualisation of Actions

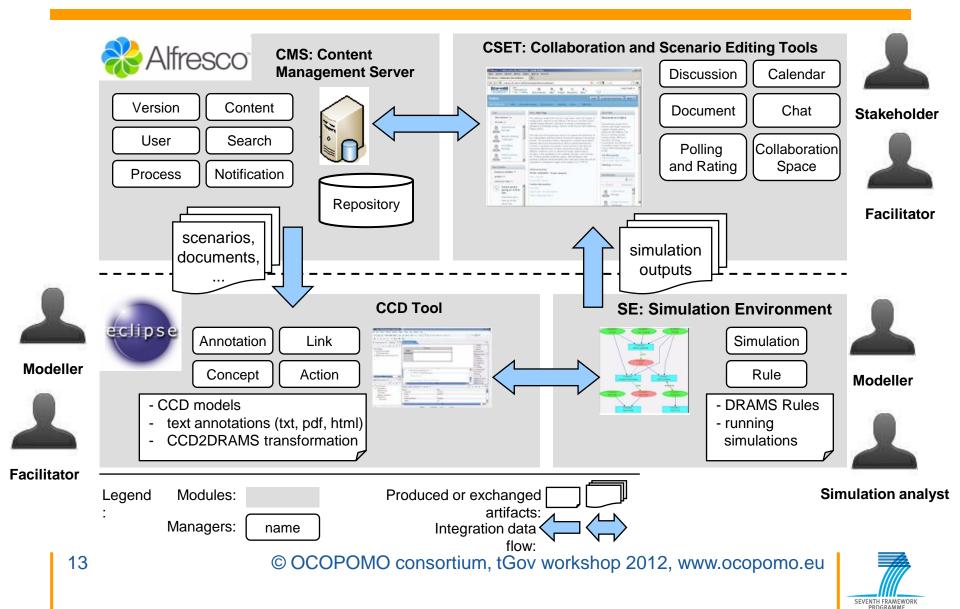






Tool-support along the OCOPOMO process





Three policy cases in OCOPOMO



- Renewable energy in Kosice Self-governing Region
- Competence centres for knowledge transfer in Campania Region
- Housing strategy in London





- OCOPOMO policy development process: integrated approach from narrative scenarios to formal policy models
 - Iterative process of identifying the parameters and features informing formal policy models
- Consistent conceptual description (CCD): Incorporating traceability in the iterative policy development process
- Open collaboration in policy development through integrated web 2.0 based e-participation toolbox
 - Enabling policy analysts, policy operators and wider stakeholder groups to work together collaboratively





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Many thanks for your attention!

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