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POLicy MOdelling



Open Collaboration in Policy Modeling: A Contribution to Open Government

Science diplomacy in action -- Governance for international
science co-operation: the example of Health research

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Prof. Dr. Maria A. Wimmer
wimmer@uni-koblenz.de



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Fast moving world with ever new demands and changes in different policy domains ...



More knowledgeable and responsive citizens

Crime and terrorism

Demographic change

Globalization / Mobility / Individualism

Financial and/or economic crisis

Renewable energy

New technological innovations

Climate change

New ...





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Challenges ahead of us ...

HOW TO ...

Challenges ahead: How to ...



- ❖ ... master societal transitions and drastic changes in economy, climate and demography currently affecting societies and social behavior around the globe
- ❖ ... master longer-term transformation well ahead in time
- ❖ ... exploit ICT in a useful way to
 - support open governance
 - foster disciplinary integration and multi-disciplinary problem solving
 - engage stakeholders and wider constituencies in policy development
 - master complexity

European Commission funding key research in ICT for governance and policy modelling



2009: Quoting objectives in call 7, work programme of call 7 in FP 7):

- development of advanced development of new governance
- innovative ICT solutions (including the following):
 - o Modeling new policies
 - o Performing societal measures.
 - o Development of the environment using reflexivity.
 - o Modeling and validation systems, particularly
- advancing research in simulation mixed reality technologies and dynamics methodologies
- Resulting tools should exploit knowledge resources and including those at urban and
- Examples of fields of application public consultations has been administrations and policies

2011: Quoting objectives in call 4, priority 7.3 programme of call 4 in FP 7):

- a) **Governance and Participation Toolbox**
 - Advanced tools embodying structural,
 - o empower and engage all types
 - o enable them to utilize mass collaboration
 - o allow governments to incorporate
 - Tools enabling the creation, learning, sharing language and cultural interpretation.
 - Tools facilitating transparency and traceability
 - Toolbox must include security, identity appropriate, the delineation of consistent government applications.
- b) **Policy Modeling, Simulation and Visualization**
 - Real-time opinion visualization and simulation visualization and mixed reality technologies
 - Novel instruments which allow consideration wishes of individuals, groups or communities understand the possible outcomes of policy
 - Tools and techniques help to understand public services as complex service systems collaborative society, including the new
 - Advanced tools and technologies to process variables, parameters, interferences, and impacts of proposed policy measures.
 - Tools should exploit the vast reserves resources which are also developing data translation, process modeling, data mining gaming-based simulation, forecasting techniques.
 - Solutions to take into account, but not methodology to analyse and model complex "cloud" computing applications resources

Expected Impact

- Improved empowerment and engagement making processes. Increased trust of citizens contributions.
- More efficient collection of feedback of impacts of policy measures, with input communities, and based on intelligent resources.
- Strengthened

Call 10 in 2013 again with similar objectives:

Objective ICT-2013.5.4 ICT for Governance and Policy Modeling

The public sector has a significant role in stimulating economic growth as has been evident from the current economic and financial crisis. At the same time, citizens and in particular younger generations are becoming more vocal in monitoring and influencing policy decisions. Current ICT tools for collaborative governance and policy modeling show great opportunities for empowerment of citizens and increased transparency in decision-making. In addition, there is a growing need for research and innovation for future public services that will be a catalyst for growth and sustainability.

Target Outcomes

a) Research will focus on policy modeling and simulation for achieving productivity gains and innovation in public service provision through innovative use of ICT. Such modeling, simulation and prediction should also enable public administrations to develop policies for growth and investment strategies for next generation ICT for public services. This research will also address innovative ICT solutions that build on Web2.0/Web3.0 and social networking, crowd-sourcing and collaborative technologies.

The tools shall include innovative data mining functionalities to identify the emerging societal trends as a result of the economic environment, and should further advance crowd-sourcing techniques to engage citizens in sharing knowledge and expertise to collectively solve complex, large-scale problems in a distributed fashion. The work in this area should also exploit the vast reserves of Europe's public sector collective and open data and knowledge resources, for new services.

b) Coordination and Support Actions.

b1) **Road-mapping of research on ICT for innovative public services and governance.** Apart from addressing Coordination & Support actions should specifically address road mapping of the use of ICT for innovative public services and their governance, in particular cross border services. Another relevant topic that should be addressed is the empowerment of the younger generations through ICT tools. These roadmaps shall point to implementation under Horizon 2020.

b2) **Increased collaboration, on Electronic Identification and Authentication,** in particular with the USA and Asia, that could be a leverage for European solutions worldwide, while ensuring data protection for the citizens. The action is expected to enhance dialogue with countries that have activities on eID and authentication, and to exchange good practices so as to spearhead European solutions for mutual benefit.

Expected Impact

- Improved take up of policy making tools by decision makers in public administrations
- Improved validation of the potential impacts of policies through evidence
- Stronger evidence of productivity gains and reduction of costs in the provision of public services
- Evidence of the younger generation contributing to policy formation/development through social media
- Increased take up of



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OCOPOMO – open collaboration in policy modelling

A CONTRIBUTION TO OPEN COLLABORATION IN POLICY DEVELOPMENT



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Project co-funded in the FP 7 programme of the EC

Duration: 1/1/2010 – 30/04/2013

Budget: 3,2 Mio €, Funding 2,5 Mio €

Project Partners:



UNIVERSITÄT
KOBLENZ · LANDAU

(Coordinator:
Prof. Maria A. Wimmer)



KSR



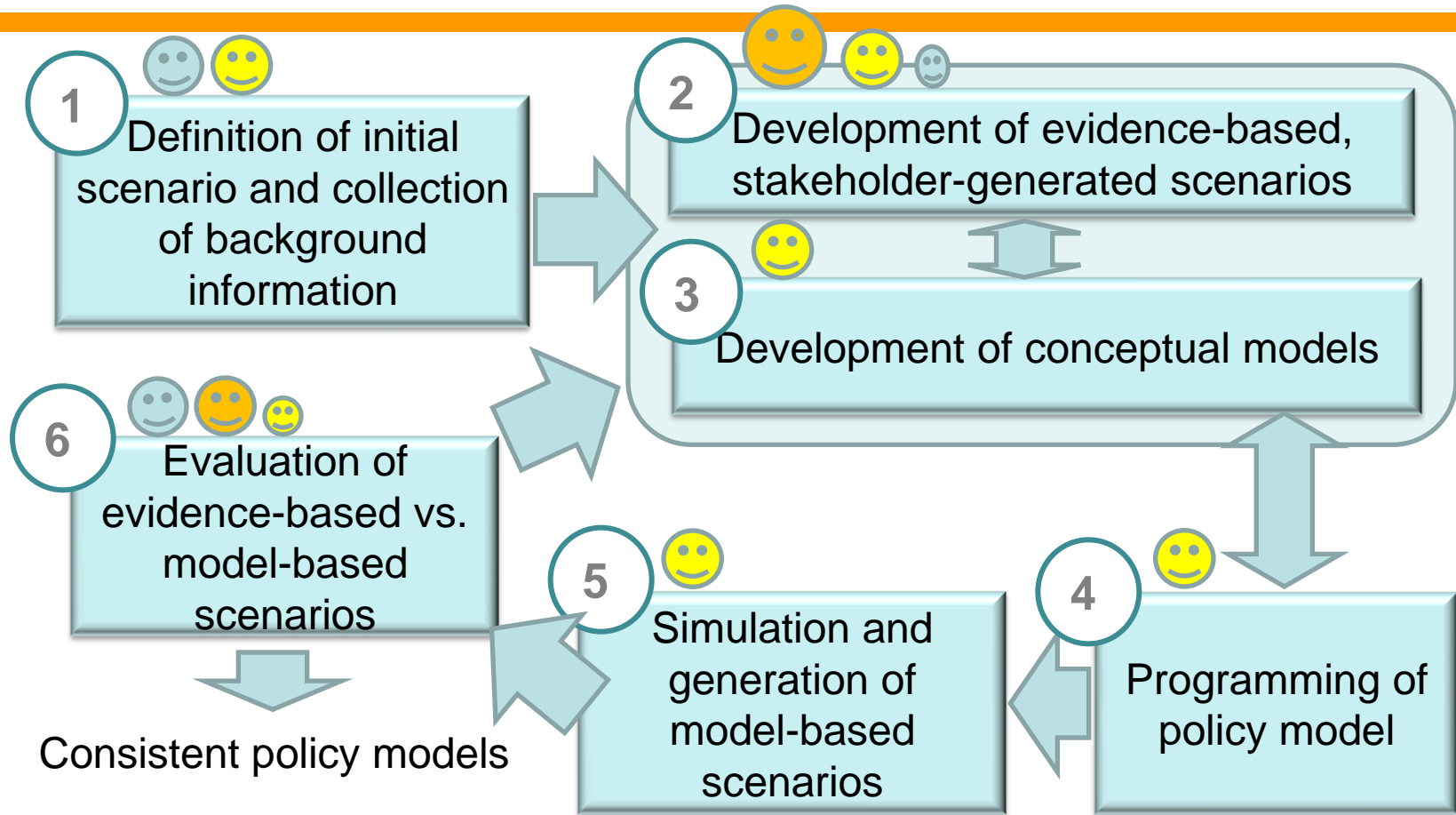
REGIONE CAMPANIA

Aims of OCOPOMO Project



- ❖ 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



Legend: # Process phase

➔ Transition to next phase

Actors:

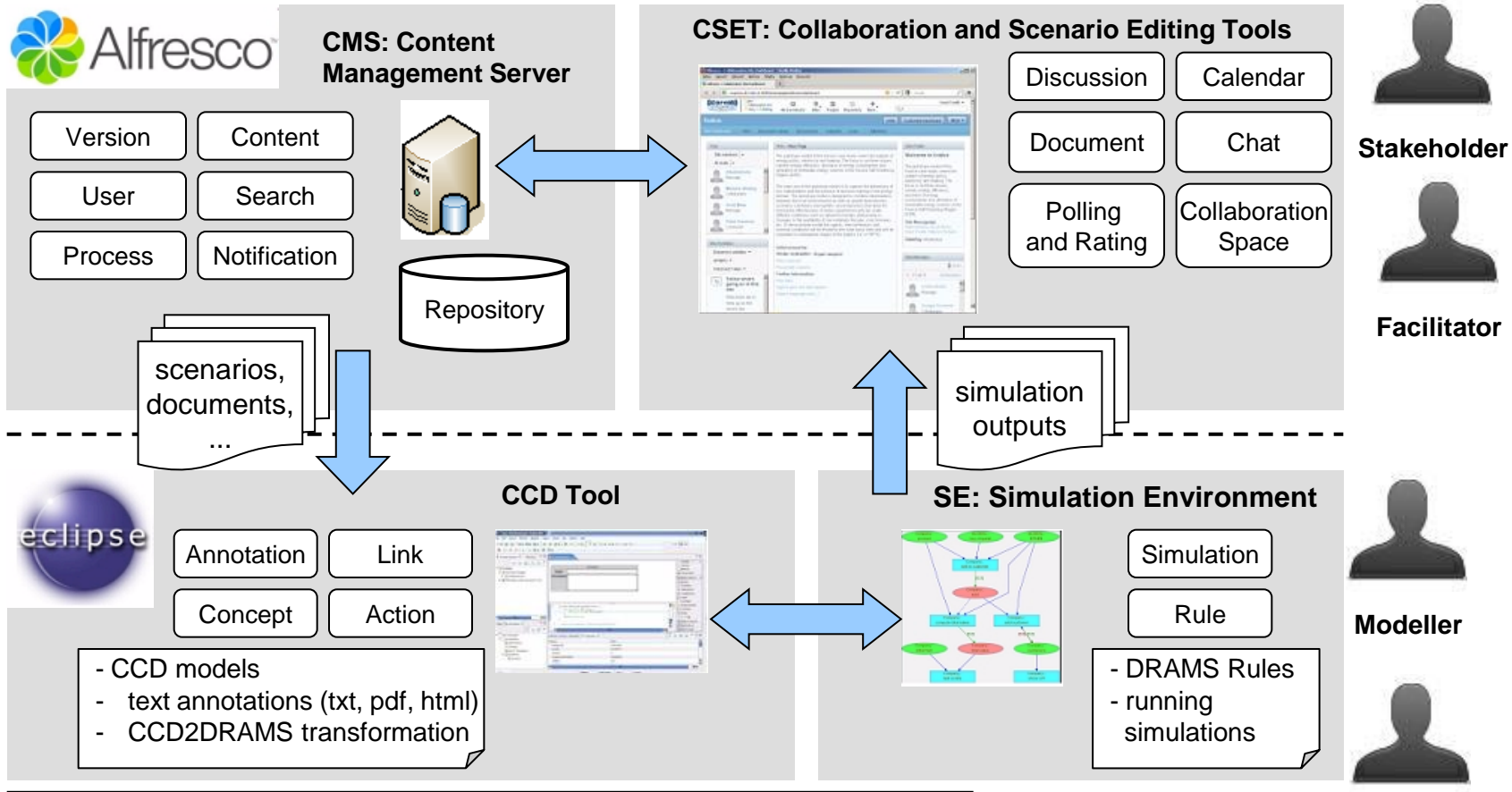
- Domain Experts (Policy Planner / Strategic Decision Maker)
- Stakeholders involved
- Experts for Policy Analysis / Policy Modelling

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

Tool-support along the OCOPOMO process



Legend Modules: Produced or exchanged artifacts:
 : Managers: Integration data flow:

Modeller
 Facilitator

Stakeholder
 Facilitator
 Modeller
 Simulation analyst



- ❖ 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

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

Challenges of such approaches



- ❖ Complexity
- ❖ Multidisciplinarity
- ❖ Engaging stakeholders
- ❖ How much to show/visualise to users?
 - hiding complexity
 - ensuring comprehensibility and understanding
- ❖ Will the political level want to engage stakeholders?
 - Dialogue is costly
 - Maybe not in line with the political aims
- ❖ Such approaches yet not widespread



eGovPoliNet

The Policy Community, www.policy-community.eu



International collaboration action

ESTABLISHING AN INTERNATIONAL POLICY MODELLING COMMUNITY



eGovPoliNet

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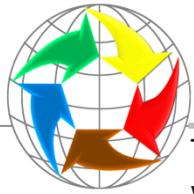
Building a community on ICT for governance and policy modelling

Implementation through two projects: eGovPoliNet and Crossover

Coordination Actions funded in Framework Programme 7 of the EC
Objective 5.6 ICT solutions for Governance and Policy Modelling



The Consortia



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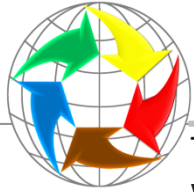


www.crossover-project.eu



Institute for European Studies
Vrije Universiteit Brussel





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Need for Integration & Joint Efforts

crossover  www.crossover-project.eu

- ❖ Overcoming traditional fragmentation of research efforts through consolidation, community building, integration
- ❖ Researchers and practitioners to exchange and learn from each other in specific themes
- ❖ Establish respective communities spanning across the globe to discuss advancements and future challenges

eGovPoliNet and Crossover aim to foster co-operation and coordination of research and practice to address issues that could not be solved alone

The Policy Community's Mission Statement



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“... to be the recognized leader in bringing together researchers from different disciplines to share knowledge, expertise and best practice supporting policy analysis, modelling and governance.”



eGovPoliNet

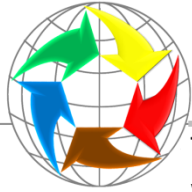
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**set up to support
engagement of experts to ...**

Lessons from international community building activity



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- ❖ Multidisciplinary research still quite difficult to achieve
 - Academic careers focusing on single disciplines
 - Researchers not trained in multidisciplinary
 - Researchers need to learn working in multi-disciplinary contexts
- ❖ Projects and interactivity mostly funded in a particular funding stream
 - Multidisciplinary not reflected in many funding programmes

Lessons from international community building activity



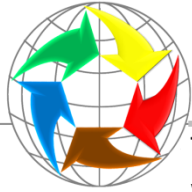
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- ❖ Still difficult to bridge research and practice
 - Transfer of research findings to practical use a long way to go, with many disruptions due to project setups
- ❖ International collaboration not always simple
 - Geographical distance – virtual meetings not sufficient for effective collaboration
 - Time differences
 - International projects don't have funding for all partners
 - National funding not guaranteed when partners engage in international activities
 - Competition with existing well established single-disciplinary communities



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Many thanks for your attention!

Prof. Dr. Maria A. Wimmer
wimmer@uni-koblenz.de

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