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ICT in long-term strategic planning and decision-making:

Participative scenario-building and policy modelling in OCOPOMO

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Current challenges in policy development and foresight (1/2)



- ❖ Inappropriate ICT support in foresights, especially in long-term policy planning
- ❖ Lack/inability of managing complexity in strategic planning and policy making in complex socioeconomic environments
- ❖ Lack of open collaboration and lack of transparency in identifying the crucial features of complex social and macroeconomic models to simulate potential alternative policies
- ❖ Ignorance of the need for e-participation and other forms of ICT-enabled efficient collaboration of communities of stakeholders relevant to the given policy area

Current challenges in policy development and foresight (2/2)



- ❖ Lack of focus on developing, visualizing and simulating appropriate policy models to enable
 - better management of socio-economic developments
 - identification of interdependencies that result in complex social and economic relations likely to affect future developments
- ❖ Lack of comprehensive IT solutions to support
 - policy modelling and simulation
 - collaboration among
 - policy analysts and policy operators
 - wider interest groups
 - general public

Overall project aims

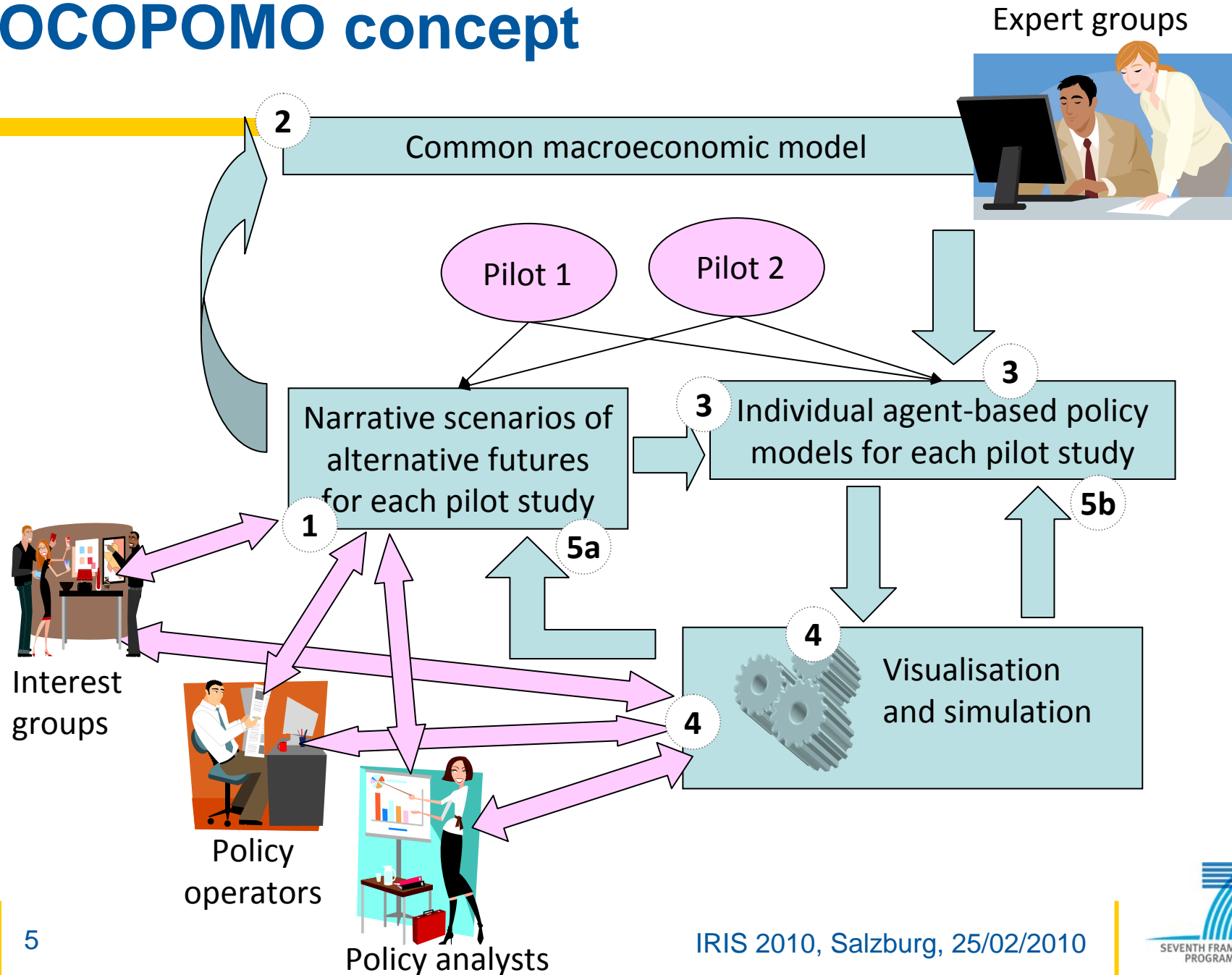


- ❖ Provide an integrated ICT toolbox with proper mechanisms for open collaboration in policy modelling, including collaborative support in scenario based futures development
- ❖ Enable actors of all target groups at different levels of government across Europe “to master and shape future developments so that the demands of its society and economy are met”
- ❖ Demonstrate that, with appropriate ICT, the integration of
 - formal policy modelling,
 - scenario generation and
 - open and widespread collaboration

is not only possible but essential at all levels of policy formation

- whether local, regional, national or global

OCOPOMO concept



Specific objectives of OCOPOMO (1/2)



- ❖ Produce a set of policy analyses at regional level to cover different political, cultural and geographical environments
 - based on formal simulation models and narrative scenarios
- ❖ Produce a general model of macroeconomic relations constrained as far as possible by data produced at national and European level
- ❖ Integrate narrative scenario analysis with formal policy modelling in order to produce policy analyses with the precision and clarity of formal models and also the rich contextual and imaginative content of verbal narratives

Specific objectives of OCOPOMO (2/2)



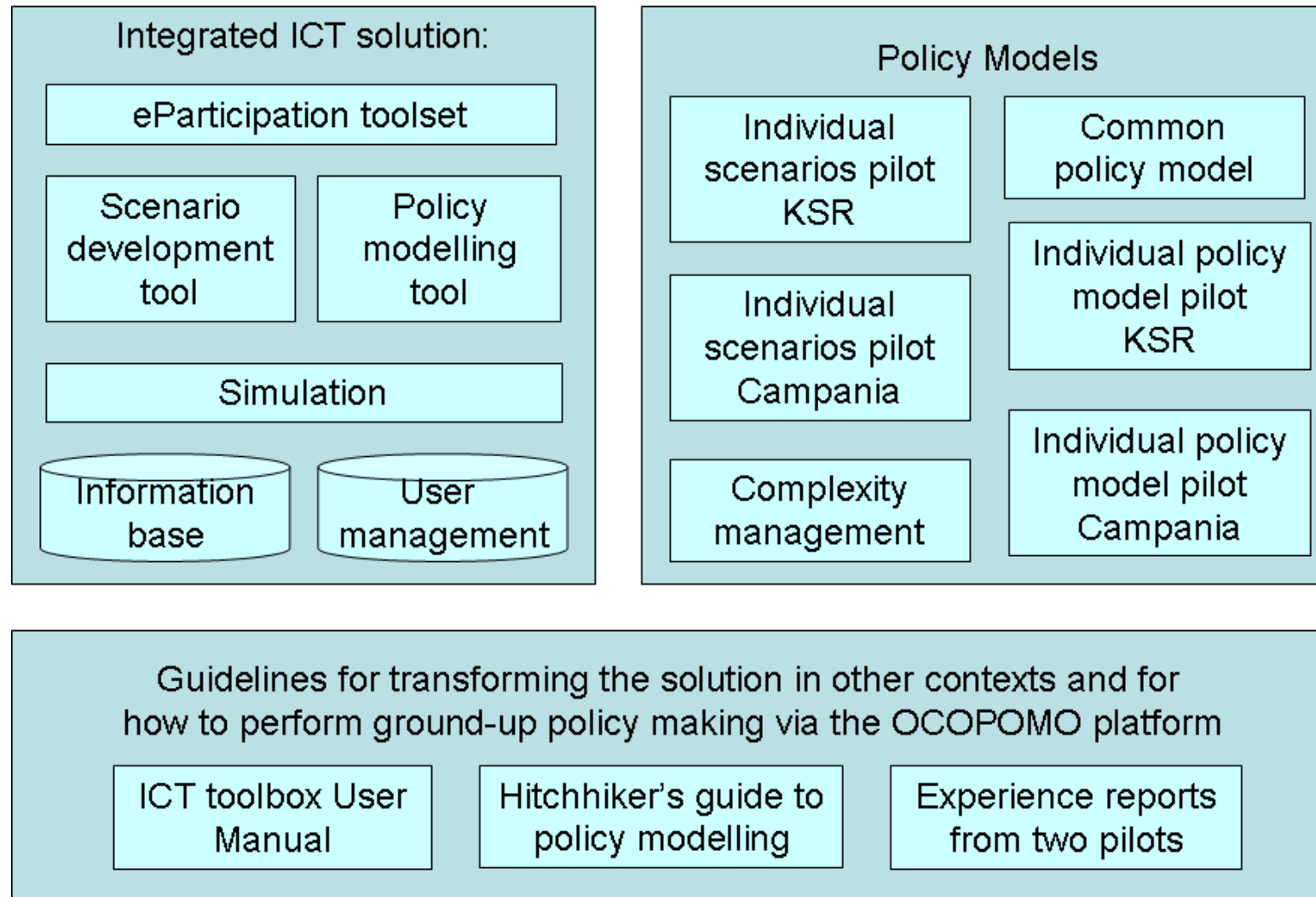
- ❖ Integrate the model of macroeconomic complexity with the regional policy models to ensure that the regional models generate a range of surprising results that can be analysed both formally from model output and informally by means of scenario exercises, online fora, and the like
- ❖ Produce ICT solutions that will support the engagement of core, participating stakeholders and also open engagement by stakeholders who are not partners in the project but who have an interest or expertise in the policy issues

OCOPOMO developments



- ❖ Integrated IT platform for efficient policy development
 - integrating formal policy modelling, scenario generation, and open collaboration
 - supporting engagement of wide stakeholder groups in social and economic policy areas of two pilots
- ❖ Using methods and tools of policy modelling and scenario-based foresight
- ❖ Integrating the methods into a platform of open collaboration among key stakeholders
 - policy analysts, policy operators, wider interest groups of specific policy domains, etc.
 - using e-participation tools

Expected outcomes and results



Expected outcomes



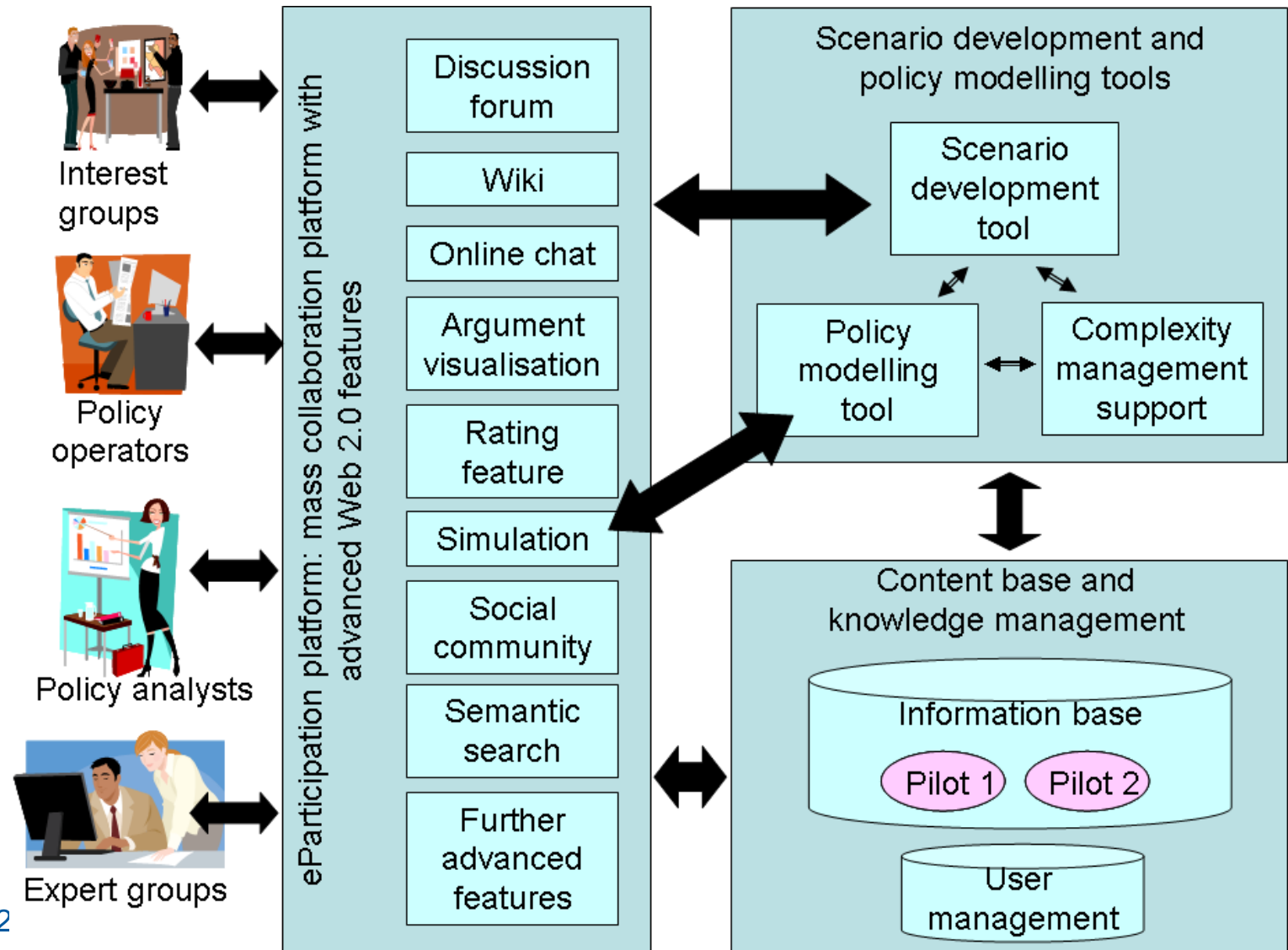
- ❖ IT solutions (e-governance toolbox) supporting the engagement and open collaboration of participating stakeholders in collaborative scenario-development and in reflexive discussions about resulting formal policy models
- ❖ A general model of macroeconomic relations deduced as much as possible from data available at national and European level, and enriched with the commonalities deduced in the two pilot policy areas

Expected outcomes



- ❖ Two policy analyses related to the strategic economic and social development policies in regions in Italy and Slovakia
 - Based on both formal simulation models and narrative scenarios
 - Generated with the precision and clarity of formal models and rich contextual narrative scenarios resulting from the combination of scenario-based foresight and formal policy modelling
 - E-governance ICT toolbox facilitating policy creation, analysis, modelling and evaluation in a comprehensive and participative way

ICT toolbox



Two levels of scientific and technological advancements



- ❖ Socio-political
 - formulate, model, evaluate and monitor social and economic policies of governments
- ❖ Scientific and technological innovations
 - drawing together lessons and practical techniques from complexity science, agent based social simulation, foresight scenario analysis and advanced ICT for e-participation

What we want to achieve ... (1/3)



- ❖ Provide a toolbox and techniques for
 - Meeting the globalization challenge by taking into account macro-economic interdependencies and interrelations to enable best possible informed policy-making in competitiveness issues throughout the economy
 - Making public sector governance and policy-making more efficient
 - Improving quality of socio-economic governance
 - Helping to understand, model, simulate and validate the next generation of public services as complex service systems in the environment of social networking and collaborative society

What we want to achieve ... (2/3)



- ❖ OCOPOMO platform will provide
 - opportunities to share knowledge throughout the society thereby contributing to more effective and efficient governance and policy-making within the problem scope
- ❖ Combination of scenarios and simulation, as well as ICT for visualisation purposes
 - to avoid that information gathered will overwhelm decision-makers and stakeholders but will enable them to easily create, interpret, and use the collected information
- ❖ OCOPOMO will contribute to encourage decision-makers to take advantage of the information society and will enable affected formal and informal actors to participate in it

What we want to achieve ... (3/3)



- ❖ Transform Governments to enable open, well-informed, as well as efficient and effective public governance and policy-modelling based on an interactive platform
- ❖ Create new opportunities for open discussions between the affected stakeholders and experts in related fields to be involved in the public governance and policy-modelling process
- ❖ Improve transparency of decision-making through the involvement of different stakeholders in the participative process via the open collaboration platform



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Many thanks for your attention!

Questions???

Project partners:



KSR



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