



MODELING AND SIMULATION OF THE IMPACT OF PUBLIC POLICIES ON SMEs

www.mosips.eu

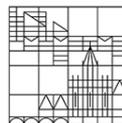
Project number: 288833

Call identifier: FP7-ICT-2011-7

Funding scheme: Collaborative project

MOSIPS Presentation

Version 1.1(22/10/2012)



Modeling and Simulation of the Impact of Public Policies on SMEs

- ❑ European project funded from the European Commission's 7th Framework Programme **FP7-ICT-2011-7, Objective 5.6** "*ICT Solutions for governance and policy modelling*".
- ❑ Budget of 3.492.626 €.
- ❑ European contribution of 2.718.497 €.
- ❑ Duration of 36 months (September 2011 to August 2014)
- ❑ Consortium composed by **9 entities from 6 different European countries.**

The consortium is composed by **experts on different scientific areas that are strongly complementary**. They have great innovative capacity, strongly complementary knowledge, wide geographical coverage and balance among the type of partners.



Companies:

Coordinator



Universities:



Research Centres:



Municipalities:



- ❑ **Governments** are overcoming the difficult decision-making processes required for tackling a situation where multiple and very different variables take part.
- ❑ **Current models** to simulate and forecast the policies impact fails in the prompt prediction of disruptive changes, such as the current financial crisis.
- ❑ Sources of data are currently not being exposed to applications in a homogeneous way but several initiatives in e-government are starting to share them using the approach of **Linked Open Data**.
- ❑ **Citizens** wish to understand and participate into public policies, especially those directly impacting their lives.

- ❑ **To facilitate the decision-making process** by providing a tool to make experiments with different socio-economic designs.
- ❑ **To increase the efficiency in the implementation of policies** by the graphic visualization of the impact and benefits of the considered strategy, before the public policy is settled.
- ❑ **To provide mechanisms for exposing open data** for the benefit of the public and other applications using the platform. These data would include data used as input for simulations and also the results of these simulations.
- ❑ **To boost the active participation of citizens** and other stakeholders in the policy-making and implementation process, taking into account their feedback through social networks.

The use of ABM systems (Agent-based Models) in order to modeling the real economy allows to make useful forecast based on the attributes and behavior of each particular agent.

- ❑ MOSIPS system will implement the multi-agent environments from multiple **both open and specific data sources**,
- ❑ MOSIPS system will apply econometrics and applied psychology to **model individual actors**: Families-Individuals and Firms-Establishments.
- ❑ MOSIPS system will apply macroeconomics and applied social sciences to **model relations and interaction rules between agents**.

A e-participation web services will allow different stakeholders to interact with the system and participate in the design of the public policies.

- ❑ MOSIPS system will be based on **Visual Analytics technologies** in order to provide the interactivity and analytical capabilities necessary to improve the stakeholders' empowerment.
- ❑ MOSIPS system will implement **Artificial Intelligence** to learn from the inputs coming from real stakeholders.
- ❑ MOSIPS system will use **social networks** to pursue a more citizen-centric approach.

Given the importance of SMEs in EU Economy, focus will be set on the impact of the SME-oriented policies on their R&D activities.

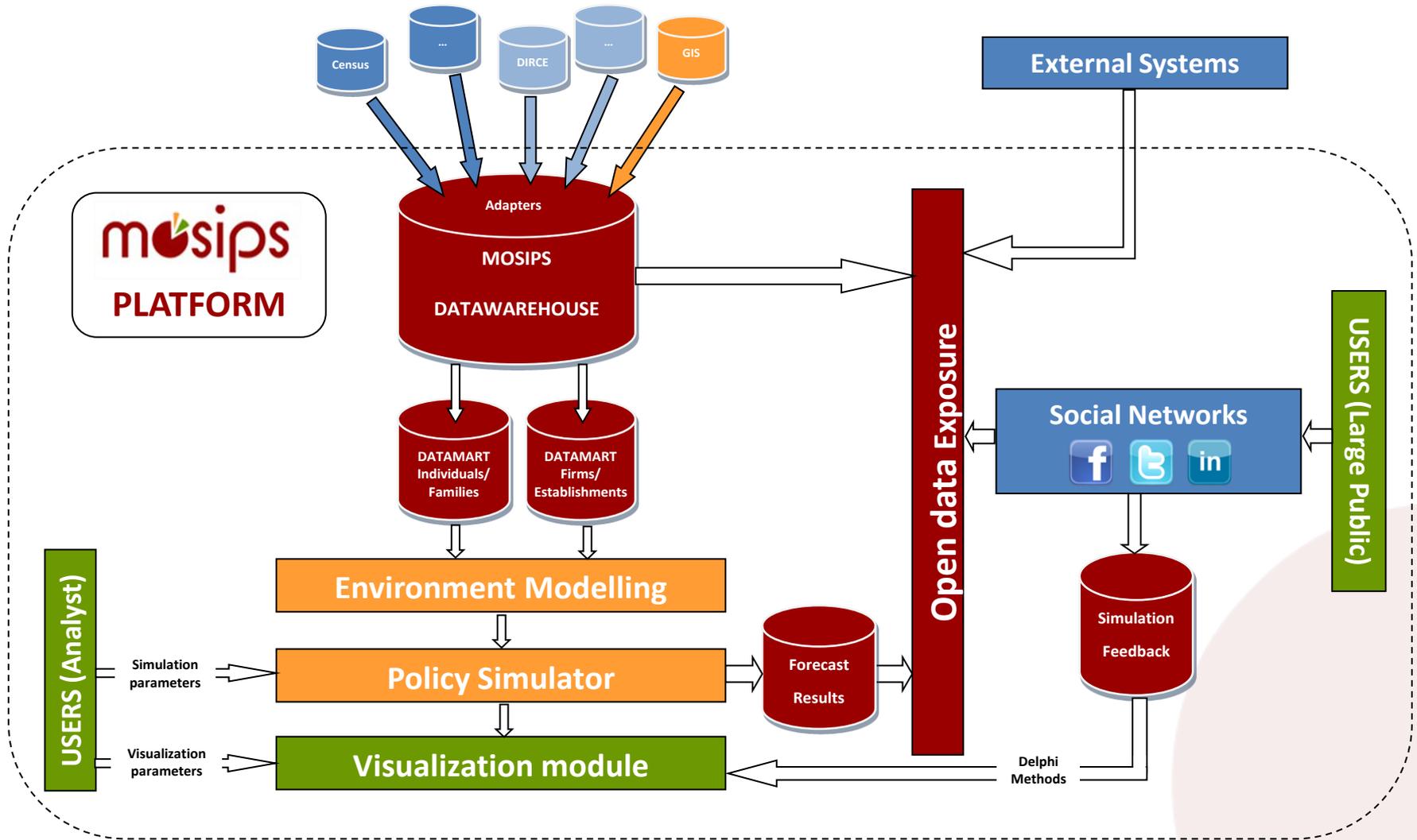
- ❑ MOSIPS system will take the **Small Business Act (SBA)** as the core area for policy investigation, analysis and modeling.
- ❑ MOSIPS system will integrate a **multilevel governance approach**, EU/national/regional /urban/local level, in order to SME policy strategies are effectively implemented.
- ❑ MOSIPS system will **be suited to craft policy options**, giving a decision arena visualizing and illustrating policy insights and providing valuable decision-support.

User-friendly policy simulation system allowing forecasting and visualization of the socio-economic potential impact of public policies, mainly focused on SMEs.

Main characteristics of the system

- ❑ A tool **specifically dedicated to public policies** evaluation, flexibly adaptable to particular needs of given policy domains thanks to the involvement of the stakeholders.
- ❑ A **highly intuitive and usable graphical interface** illustrating simulation results to facilitate interpretation, learning and drawing conclusions as well as supporting real-time interactions.
- ❑ A **layer for the exposure of the data and simulation results as open data**, according to existing recommendations and best practice in the domain of open e-government data.
- ❑ A compound of self-contained and **reusable web components**, including social networks applications, that will be available for further reuse and exploitation.

MOSIPS Architecture





Project Coordinator:
Anova IT Consulting - Neftis Atallah
info@mosips.eu

www.mosips.eu



Universität
Konstanz

