

Energy Efficiency and Environment

CIP Objective 4.1.
SAVE ENERGY – SMART ENERGY

Álvaro Oliveira
(Alfamicro – Portugal)

OVERVIEW

- CIP Objective 4.1
 - SMART ENERGY
 - SAVE ENERGY
 - Expression of Intent
-

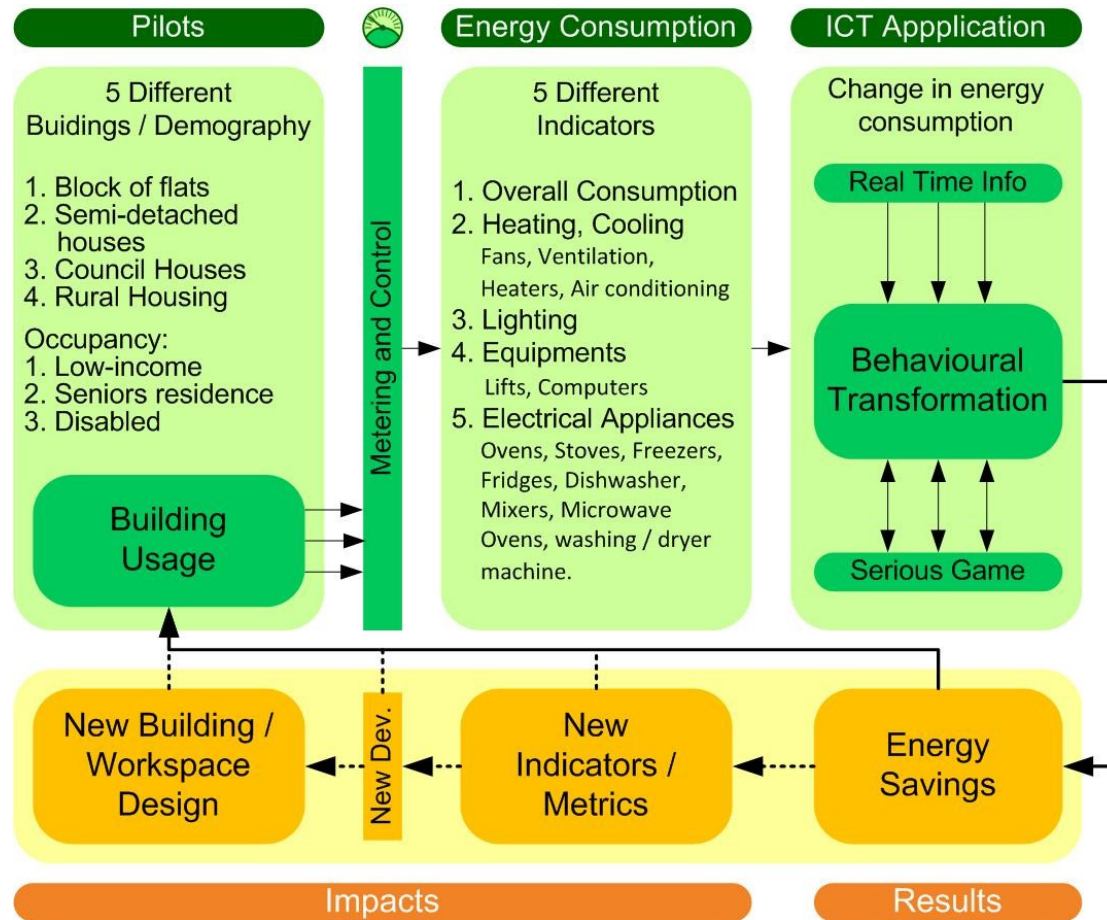
SMART ENERGY: CIP Objective 4.1.

- Energy efficiency main concerns
 - Consumer behaviour
 - Energy efficiency management systems
 - Equipment efficiency
 - Best practice exchange
 - Building performance
- Characteristics of Energy Efficiency pilots
 - Sharing European-wide energy efficiency best practices, methodologies, processes and tools
 - Consumer behaviour transformation
 - SMART ENERGY and SAVE ENERGY pilot networks
 - Focus on energy efficiency policies, Covenant of Mayors, energy agencies network guidelines, etc
 - Compliance with European legislation

SMART ENERGY: Focus and Outcomes

- Demonstration of advanced ICT components and systems contributing directly to reducing both the peak-consumption and annual energy use
 - Target: reduction of 15%
 - Technologies: Smart metering, smart lighting, power electronics for integration and management of locally generated renewable energy sources, etc.
 - Embedded power production based on clean locally distributed and renewable energy resources
-

SMART ENERGY Conceptual Architecture



SAVE ENERGY: Consortium

5 Energy Efficient Pilots located at public buildings supplying services to the public.

Manchester



Leiden (Seniors Residence)

Manchester (Town Hall)

Lisbon (Town Hall Offices)



Lisbon



Leiden

Lulea (House of Culture)



Lulea

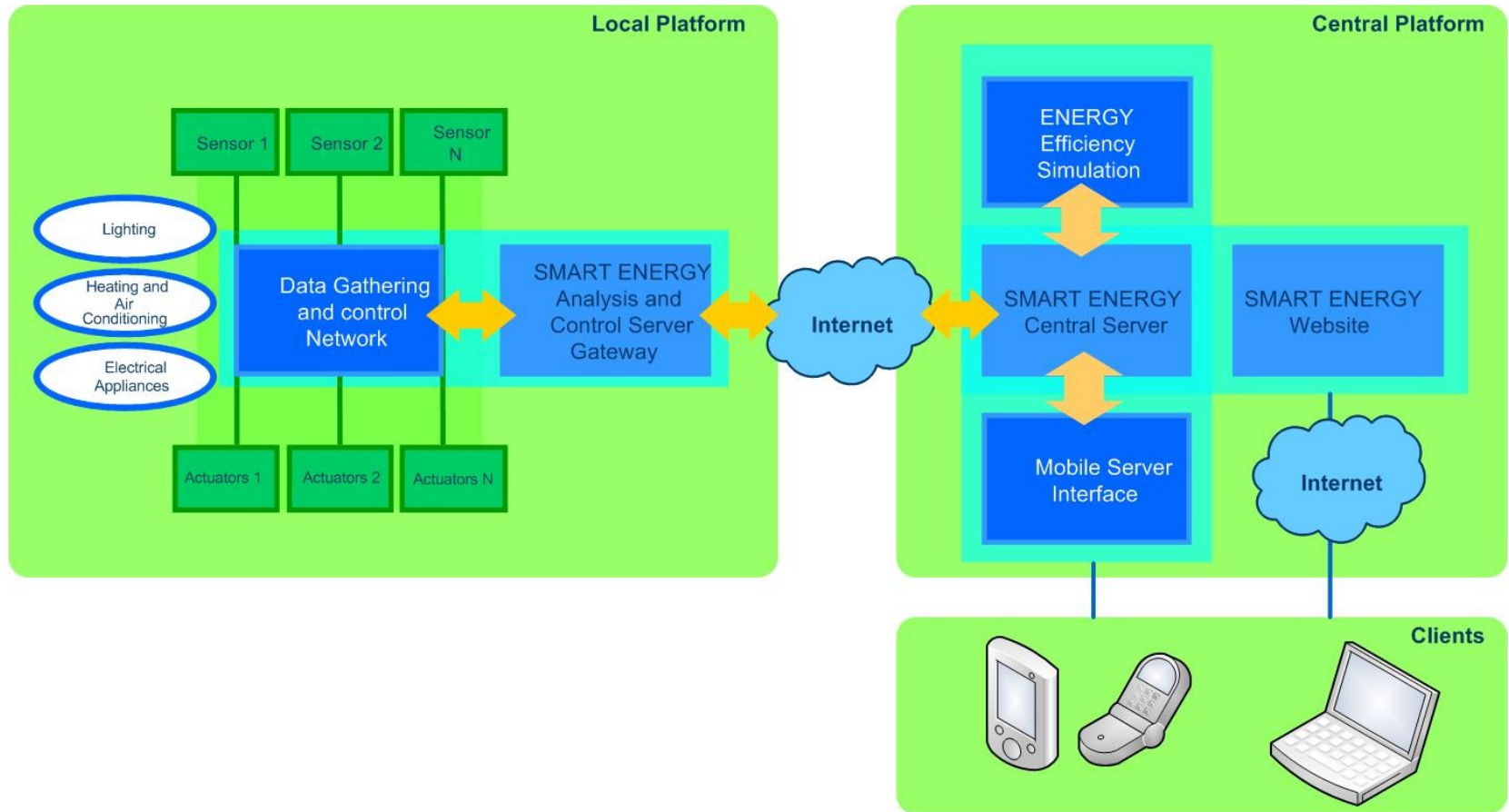
Helsinki (School)



Helsinki



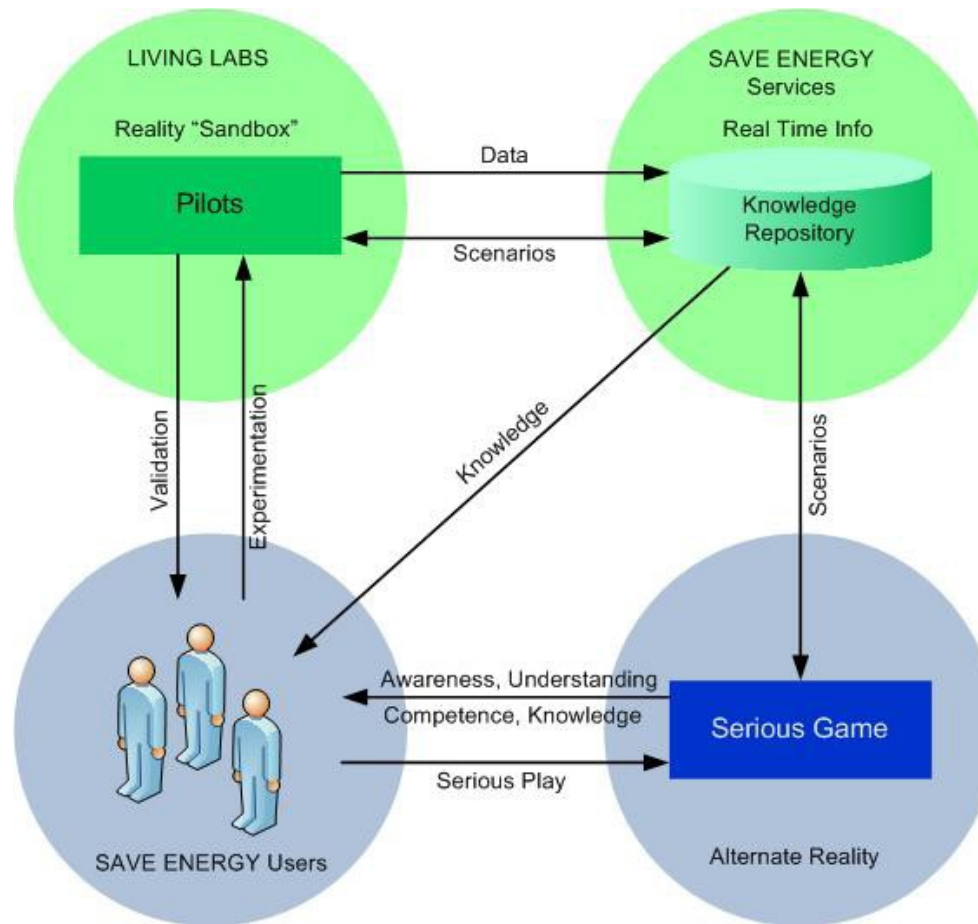
SAVE ENERGY: ICT Platform Architecture



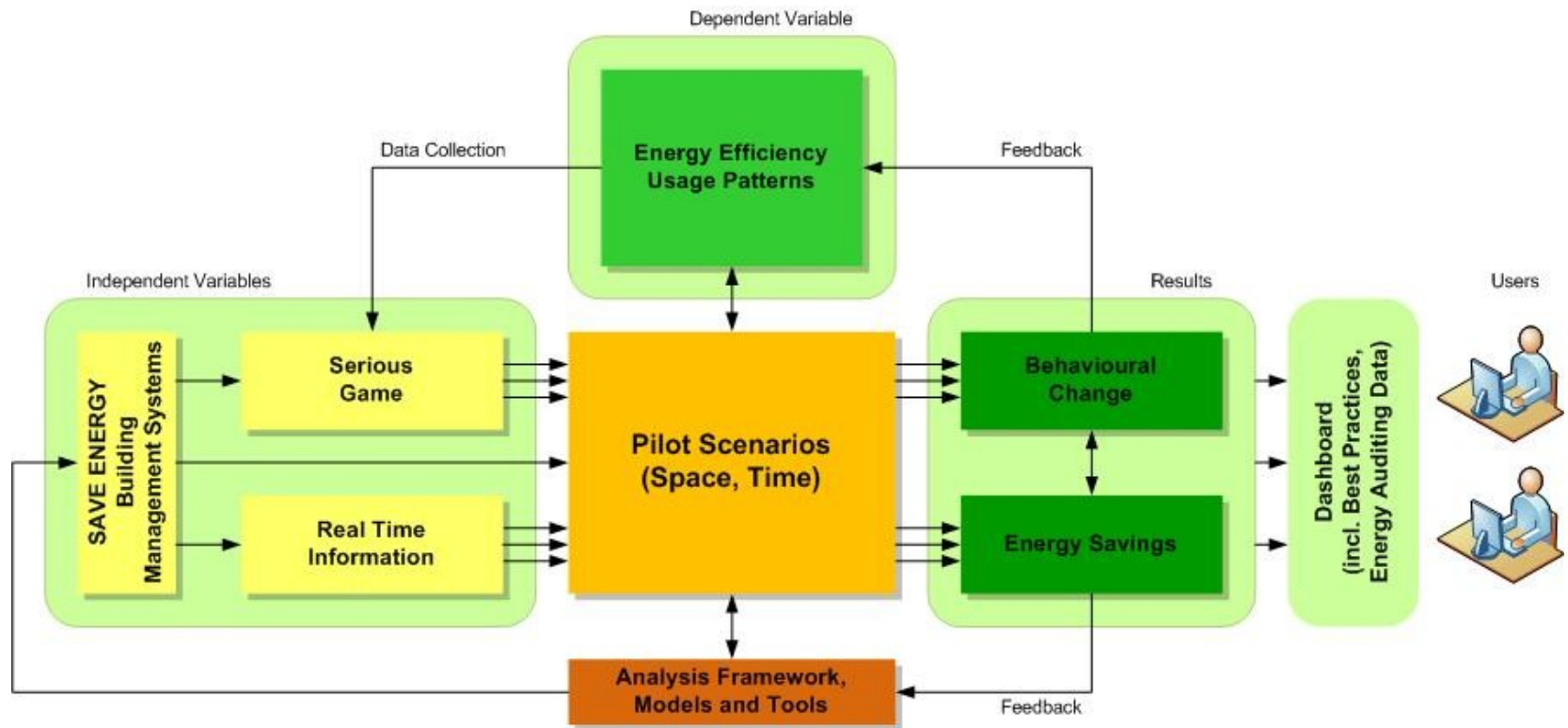
Serious Game Architecture



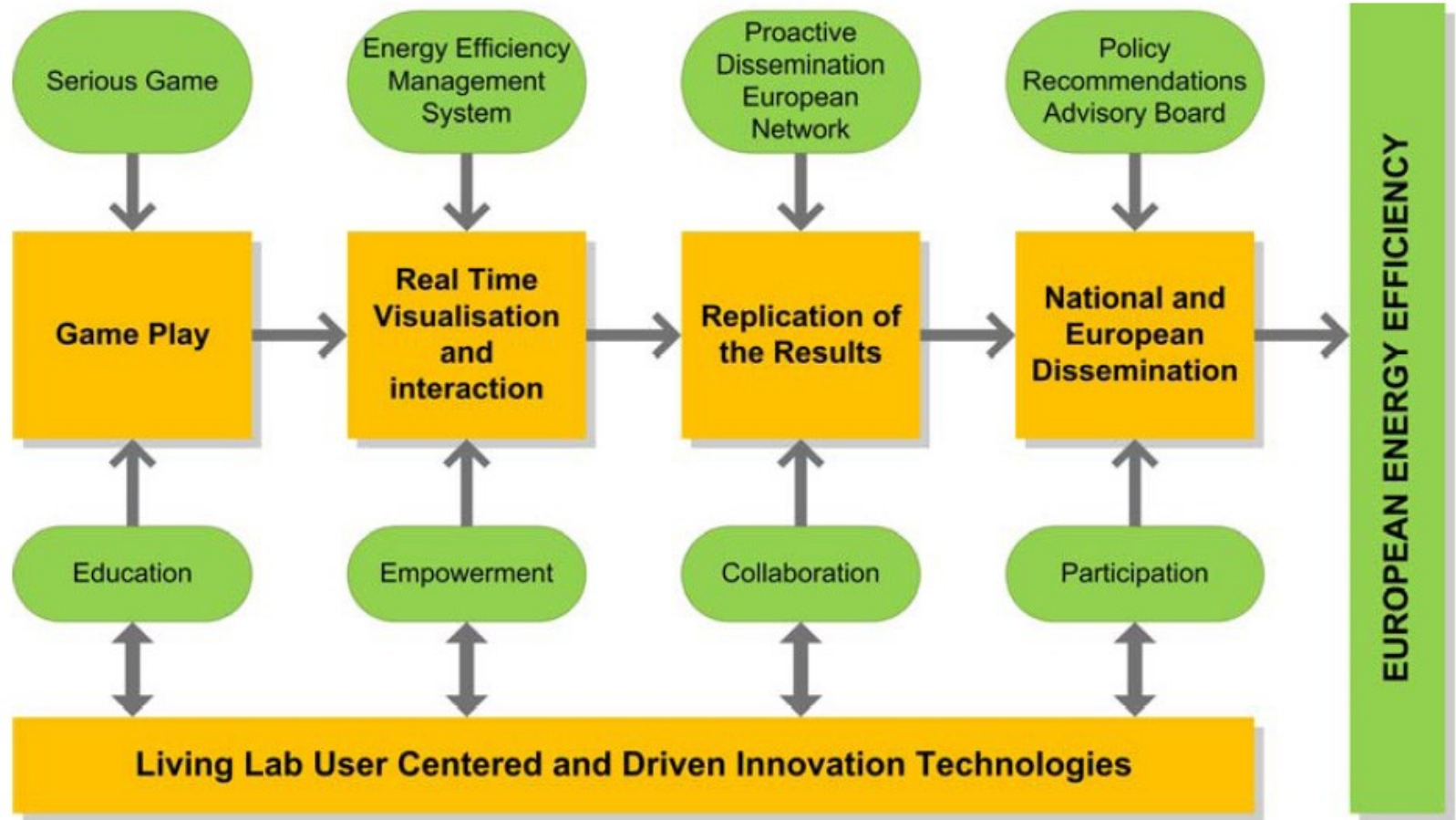
SAVE ENERGY : LL ICT Integrated Approach



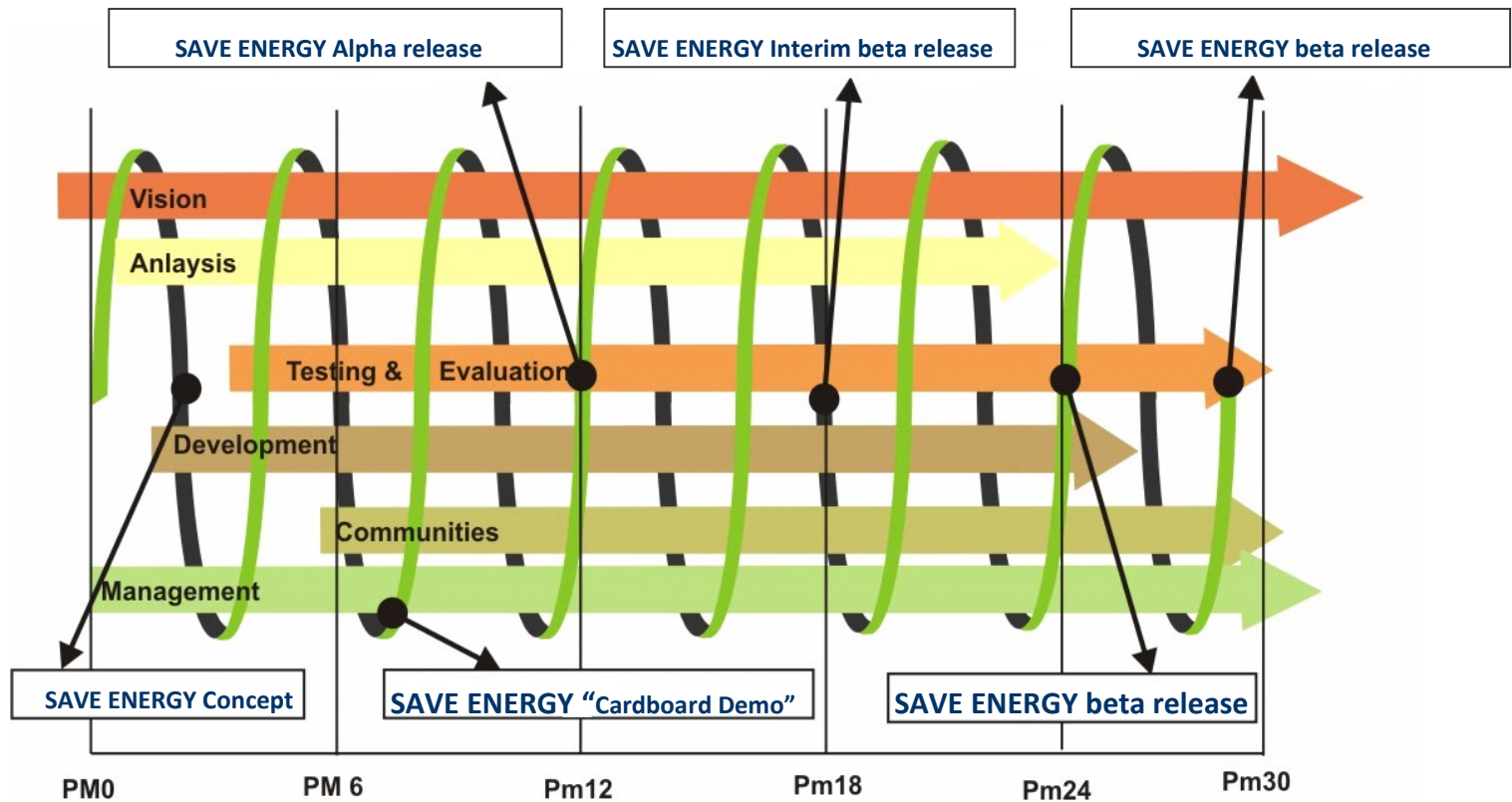
SAVE ENERGY : Measurement and Monitoring Framework



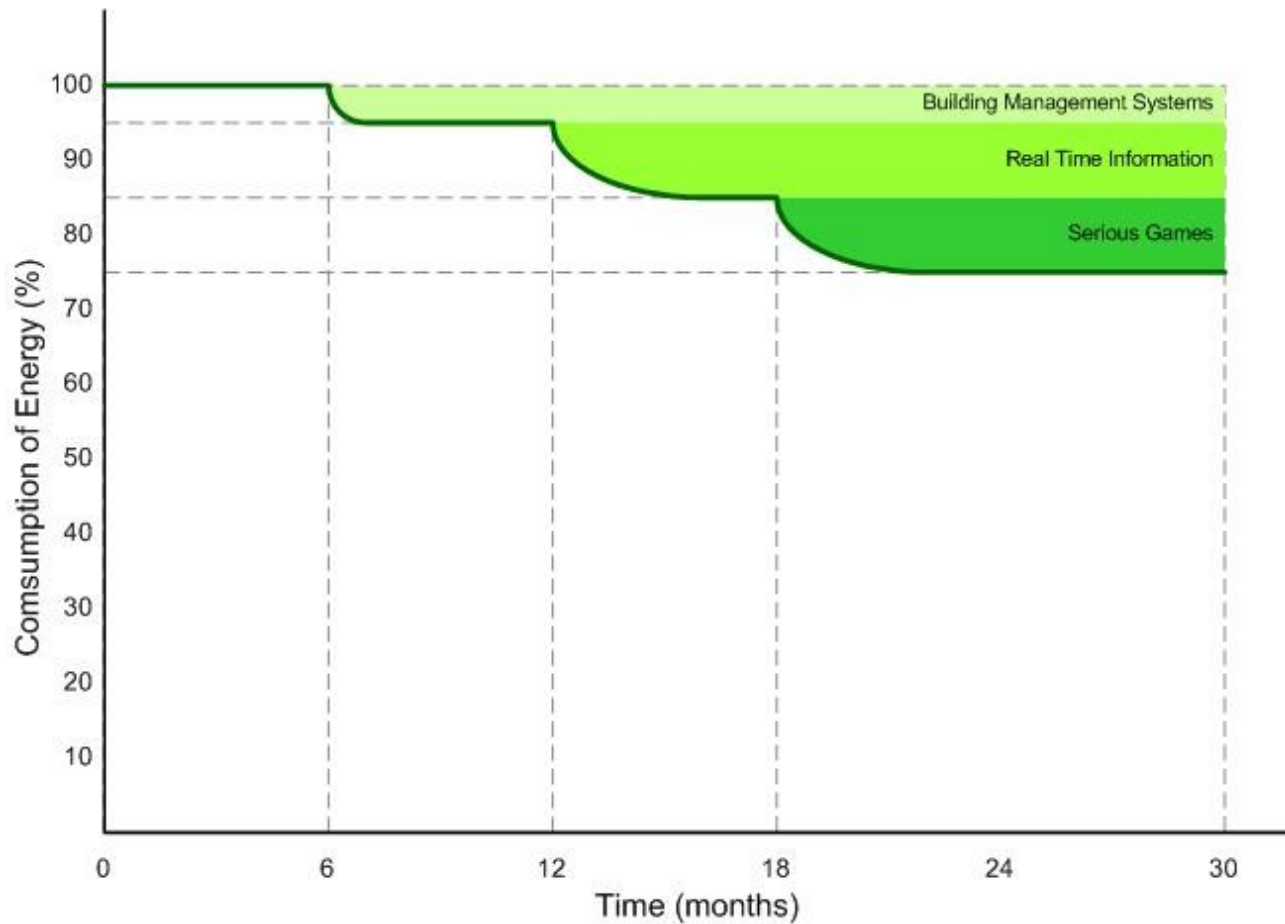
Save Energy :Services



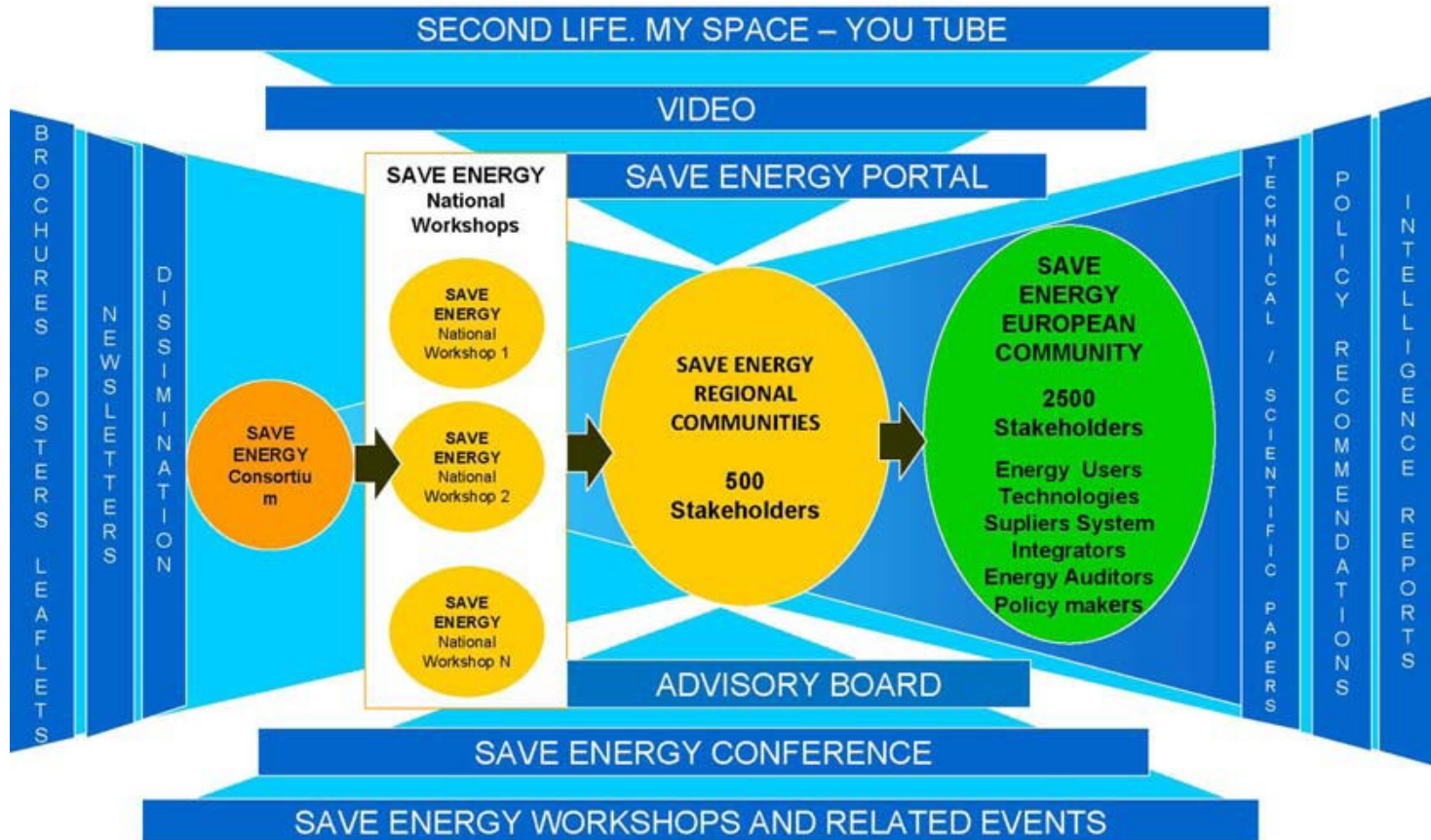
Agile Co-creative LL methodologies



Methodology to analyse Energy Savings



SAVE ENERGY: Dissemination and Exploitation



Expressions of Interest (Eoi) for SMART ENERGY

- Please send your potential Eoi by 6 February 2009 to Álvaro Oliveira Proposal Coordinator including in your Eoi your relevant competence domain(s), references, and suggested role(s) in the proposal
- Email: alvaro.oliveira@alfamicro.pt
- Mobile: +351 916 666 666
- Skype: alvaroduarteoliveira

The floor is open to your comments, suggestion and ideas