



Collaborative Recommendations and Adaptive Control for Personalized Energy Saving



*This project has received funding from the European Union's Horizon 2020
research and innovation programme under grant agreement No 723059*



The project at a glance

Starting date: 1 November 2016

Duration: 36 months

Main topic: Behavioural change towards energy efficiency through ICT

Total budget: 3.309.375 euros

Total financing: 2.000.350 euros

Partner: 5 universities

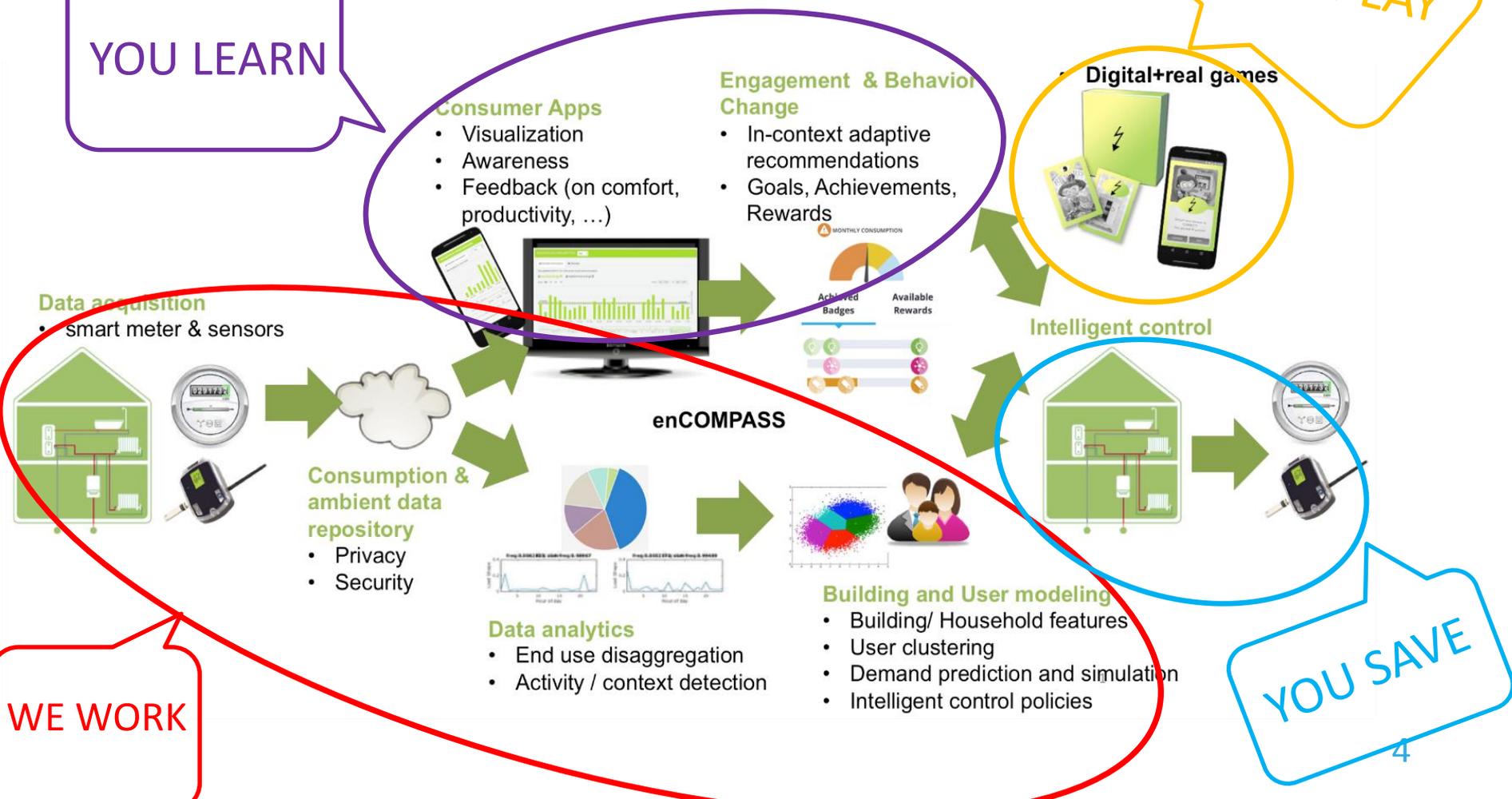
6 companies and end-users

3 utility companies

- 🌀 Objective 1: stimulate behavioural change for energy saving using innovative digital tools
- 🌀 Objective 2: make energy usage data accessible to consumers in a user-friendly and easy to understand way
- 🌀 Objective 3: demonstrate that individual comfort levels can be maintained while achieving energy saving
- 🌀 Objective 4: validate the effectiveness of different types of behavioural change Interventions for different types of users in different types of climatic conditions
- 🌀 Objective 5: make the enCOMPASS platform and other digital tools available to third parties to start new services for smart energy demand management

YOU LEARN

YOU PLAY



WE WORK

YOU SAVE

Consumer Apps

- Visualization
- Awareness
- Feedback (on comfort, productivity, ...)

Engagement & Behavior Change

- In-context adaptive recommendations
- Goals, Achievements, Rewards

Digital+real games



Data acquisition

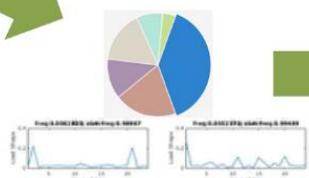
- smart meter & sensors



Consumption & ambient data repository

- Privacy
- Security

enCOMPASS



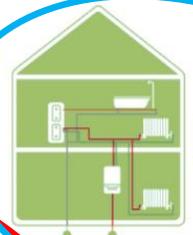
Data analytics

- End use disaggregation
- Activity / context detection

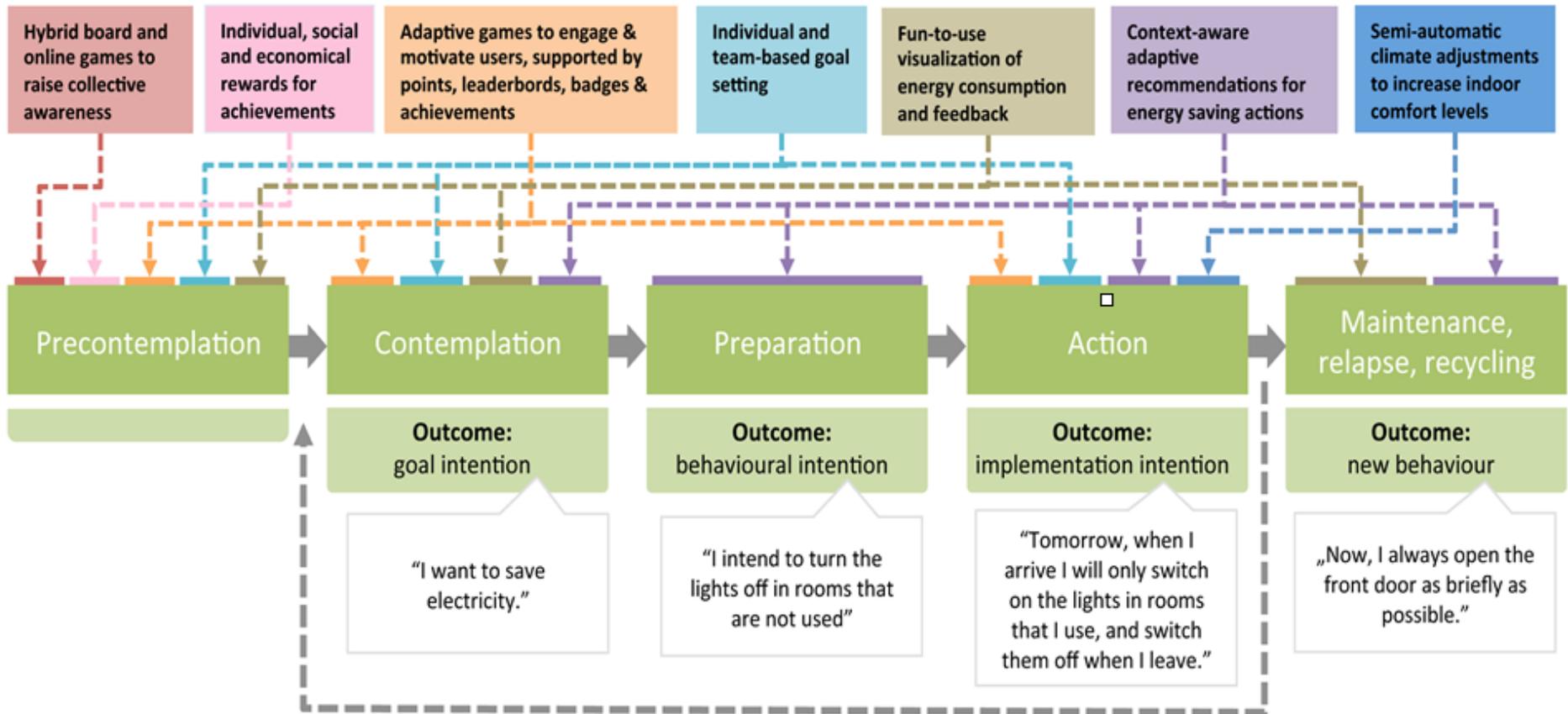
Building and User modeling

- Building/ Household features
- User clustering
- Demand prediction and simulation
- Intelligent control policies

Intelligent control



- ✦ **Energy usage information from in-home information**
(smart meters and communication-enabled smart home appliances for heat and electricity)
- ✦ **User-generated information**
(automatic and manual activity tracking)
- ✦ **Adaptive gamified energy visualization**
- ✦ **Intelligent controls and automation for sustainable changes in user energy consumption maintaining the user's comfort level**





Building type	Target groups
Residential homes/apartments: 300 households (100 per country)	Families (with & without kids), single households, students, building managers (ca. 600 participants)
Schools: 3 schools, 10 classes per school	Students, teachers, building managers (ca. 900 participants)
Public buildings: 3 public buildings	Employees, visitors, building managers (ca. 500 participants)
<p style="text-align: center;">Countries: Germany (Hassfurt), Greece (Athens & Thessaloniki), Switzerland (Gambaragno)</p>	

The main object of the game is to provide a very simple concept: saving energy is something involving all of us.

We do not want to change our everyday comfort level to save energy but we must understand that there is always a limit to the energy we can really use!



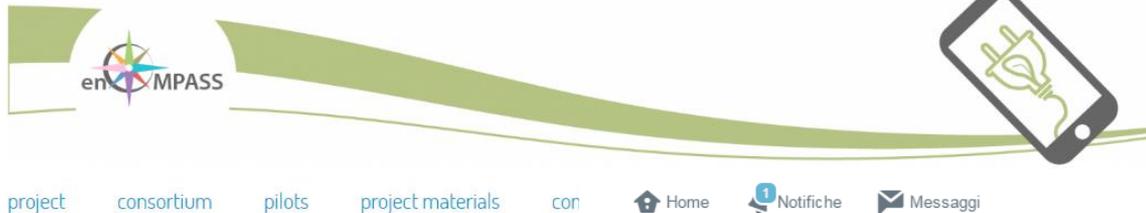


How to follow enCOMPASS

The enCompass Project

An Horizon 2020 project

<http://www.encompass-project.eu/>



project consortium pilots project materials con Home Notifiche Messaggi



[@enCompassH2020/](https://twitter.com/enCompassH2020/)

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www.linkedin.com/in/encompass-project-470423142/

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SUPSI



WATT+VOLT



Società Elettrica Sopracenerina

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