



# Optimized Conditions for Homes and Buildings, Controlling Energy and Services

 **HOMES**

**Summary Presentation**

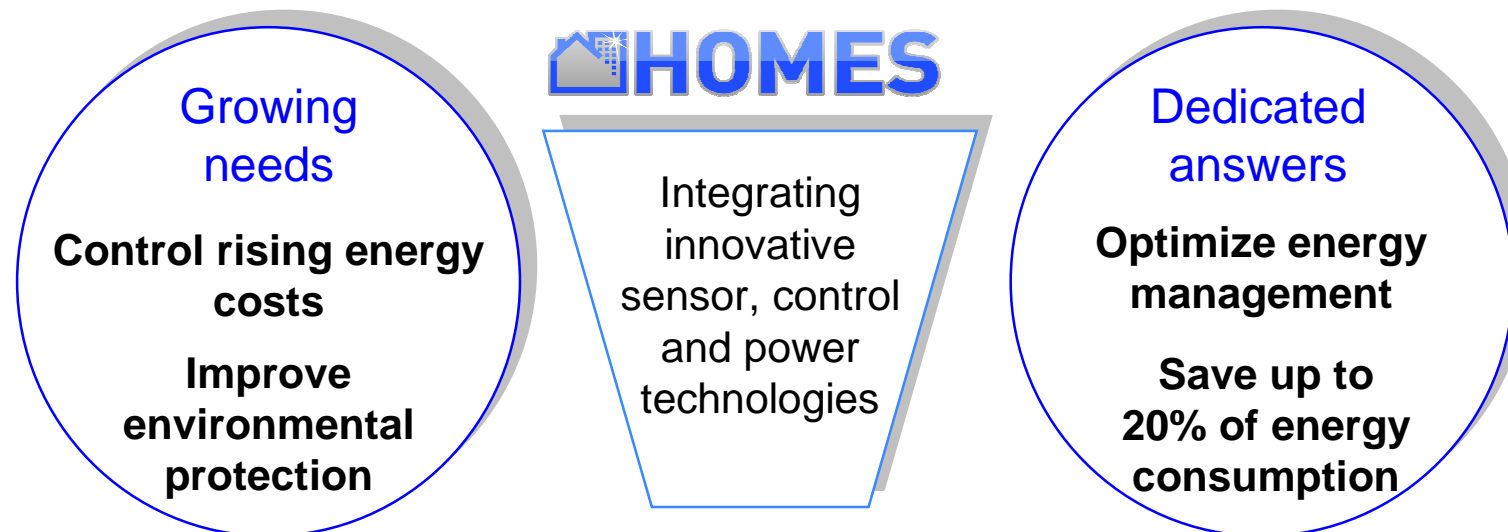
**Schneider**  
 **Electric**

# Project HOMES: Optimized housing and buildings for the control of energy and services

## → High technology and innovative project with great market potential

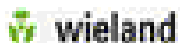
- Financial support of Industrial Innovation Agency (IIA), created in 2005 by the French Government
- Definition of new architecture for the control and distribution of energy in buildings
- Gathering of industrial partners mastering the key technologies behind project leader Schneider Electric

## → Active control of buildings for energy efficiency





## H.O.M.E.S: Active control of buildings to ensure Energy Efficiency.



### ■ Optimised Conditions for Homes and Buildings, Controlling Energy and Services

- The need to reduce energy costs is creating an extensive, solvent high added-value market.
- *Active control* of the energy in buildings will enable a saving of up to 20% of consumption to be achieved, using every “drop of electricity” in an efficient manner, for useful purposes.
- HOMES defines a new form of architecture, integrating innovative technology based on sensors, power electronics and software to take the necessary products and solutions to market.
- The partners in the project, headed by Schneider Electric, have all the skills, technology and market access required: lighting, air conditioning, building closures and electricity distribution, for components, products and services.

# Innovation in architecture and technology

- In the HOMES architecture, every zone of a building has an “Active Control Unit” for Power, control and Communication.

Sensors measure the zone parameters (environment, presence, light levels, etc.) to enable the Control Unit software to control the equipment and communicate with users.



# A Project fostering Industrial Innovation for extremely buoyant markets

- **Disconnection/control innovations**
  - New sensors to measure the environment,
  - Radio Sensors with independent energy sources
  - The integration of new control and power components
  - Software for optimized control and management at the level of a zone, building and distribution network.
  - An architecture that enables the type of usage of a building's zones to be taken into account for control/operation purposes.
  
- **The market for new energy efficiency systems for buildings is estimated at several Billion euros.**
  
- **This Project will enable key technology to be developed and products designed within a consistent system approach, speeding up collaboration between the various sectors.**