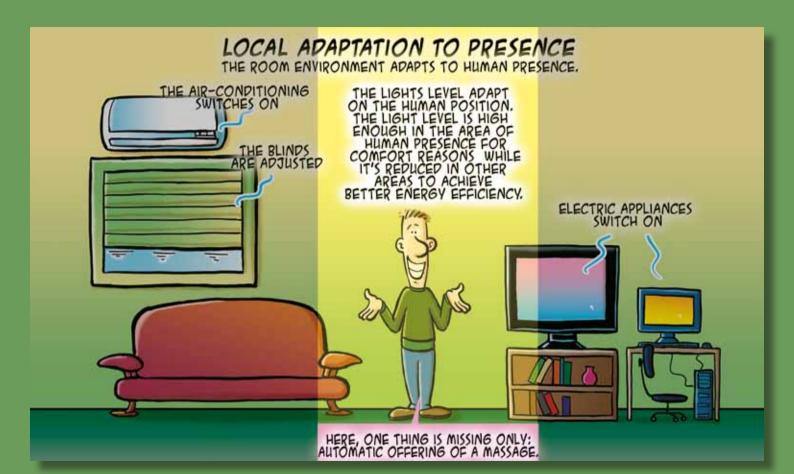
## LIFE IN SMART BUILDINGS BY HOBNET





The main objective of HOBNET is to ease and maximize the use of FIRE (Future Internet, Research and Experimentation) platforms by multidisciplinary developers of Future Internet applications focused on automation and energy efficiency for smart/green buildings.

The project's research addresses algorithmic, networking and application development aspects of Future Internet systems of tiny embedded devices: a) an all IPv6/6LoWPAN network infrastructure of buildings and how IPv6 can integrate heterogeneous technology (sensors, actuators, mobile devices etc.) b) 6lowApp and its standardization towards a new embedded application protocol for building automation c) novel algorithmic models and scalable solutions for energy efficiency and radiation awareness, data dissemination, localization and mobility d) rapid development and integration of building management applications e) support for the deployment and monitoring of resulting applications on FIRE test beds.





ELECTRIC DEVICE MONITORING
ELECTRIC DEVICES THAT ARE IN SLEEP MODE, CAN BE AUTOMATICALLY SWITCHED OFF TO SAVE ENERGY.
THE TV AND WASHING MACHINE ARE SWITCHED ON WHEN PERSON IS IN THE ROOM.
ONCE THE PERSON LEAVES THE ROOM, THE TV IS SWITCHED OFF AND WASHING
MACHINE IS STILL RUNNING UNTIL THE PROGRAM TERMINATION AND THEN SWITCHES OFF



BUILDING 3D VISUALISATION AND MONITORING
THE SYSTEM PROVIDES A 3D VISUALISATION OF THE BUILDING ENABLING
THE PERSON TO MONITOR AND DISPLAY THE VARIOUS ASPECTS (E.G. THE TEMPERATURE
OF EACH ROOM, HUMAN PRESENCE AND ENERGY CONSUMPTION).





NO. 3D VISUALISATION!



THE STANDARD TOUCH SCREEN IN EACH ROOM SHOWING THE INFORMATION ON: ROOM TEMPERATURE, MESSAGES FROM THE RECEPTION, TIME, ALERT IF ENERGY CONSUMED IS HIGHER THAN AVERAGE, WATER AND ENERGY CONSUMPTION CAN BE DISPLAYED IN A MEANINGFUL WAY

WATER SAVED:

2018.3L

WITH THIS AMOUNT
OF WATER, YOU COULD
HAVE PLANTED AND
HARVESTED MANY KILOS
OF RICE, KVO PENG
FROM SHANGHAI
PROVINCE SAYS HI!



ENERGY SAVED:

351KW/H

YOU SAVED ENERGY, SO YOU DIDN'T HURT OZONE LAYER, THE GLACIER DIDN'T MELT AND THIS POLAR BEAR FAMILY DON'T NEED TO MOVE.



HOlistic Platform Design for Smart Buildings of the Future InterNET

(ICT/FIRE STREP – 257466)

www.hobnet-project.eu

June 1, 2010 – May 31, 2013

## **HOBNET Partners**



Computer Technology Institute and Press "Diophantus" (CTI), Greece Leader: **Sotiris Nikoletseas** 



Ericsson (EYU), Serbia Leader: **Srdjan Krco** 



Mandat International (MI), Switzerland

Leader: Sebastien Ziegler



Sensinode (SEN), Finland Leader: **Zach Shelby** 



University College Dublin (NUID UCD), Ireland

Leader: Antonio Ruzzelli



University of Edinburgh (UEDIN), Scotland Leader: **DK Arvind** 



University of Geneva (UNIGE), Switzerland

Leader: Jose Rolim





