

smart building

Hervé Haro

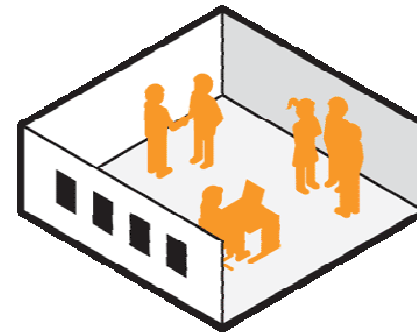
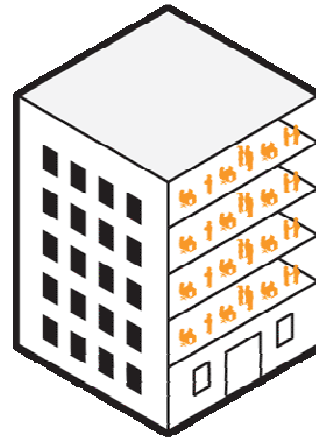
Orange Labs

ICT for sustainable homes – 11/2010



Agenda

- 1 Smart Building
- 2 Smart Immo

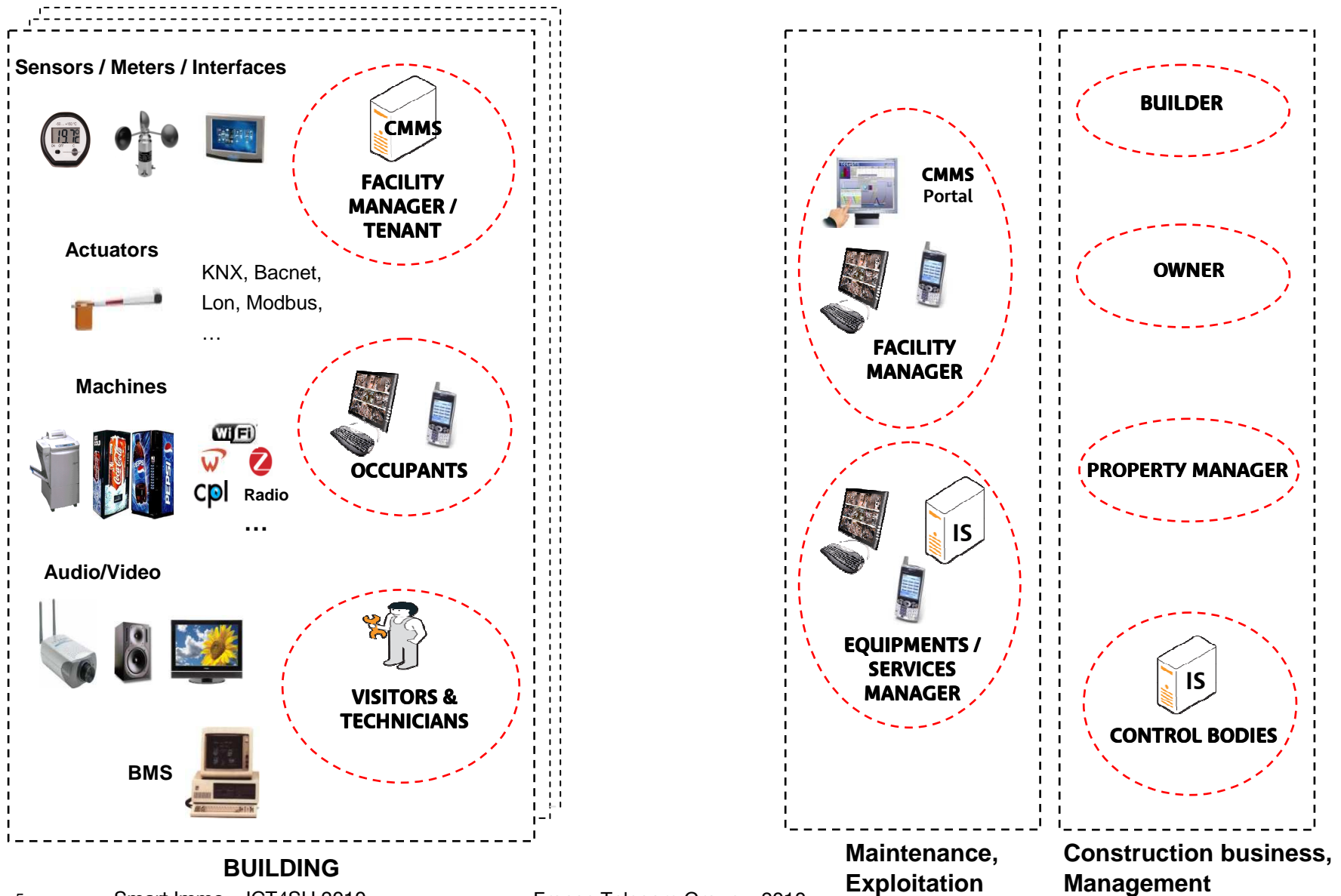


Smart Building

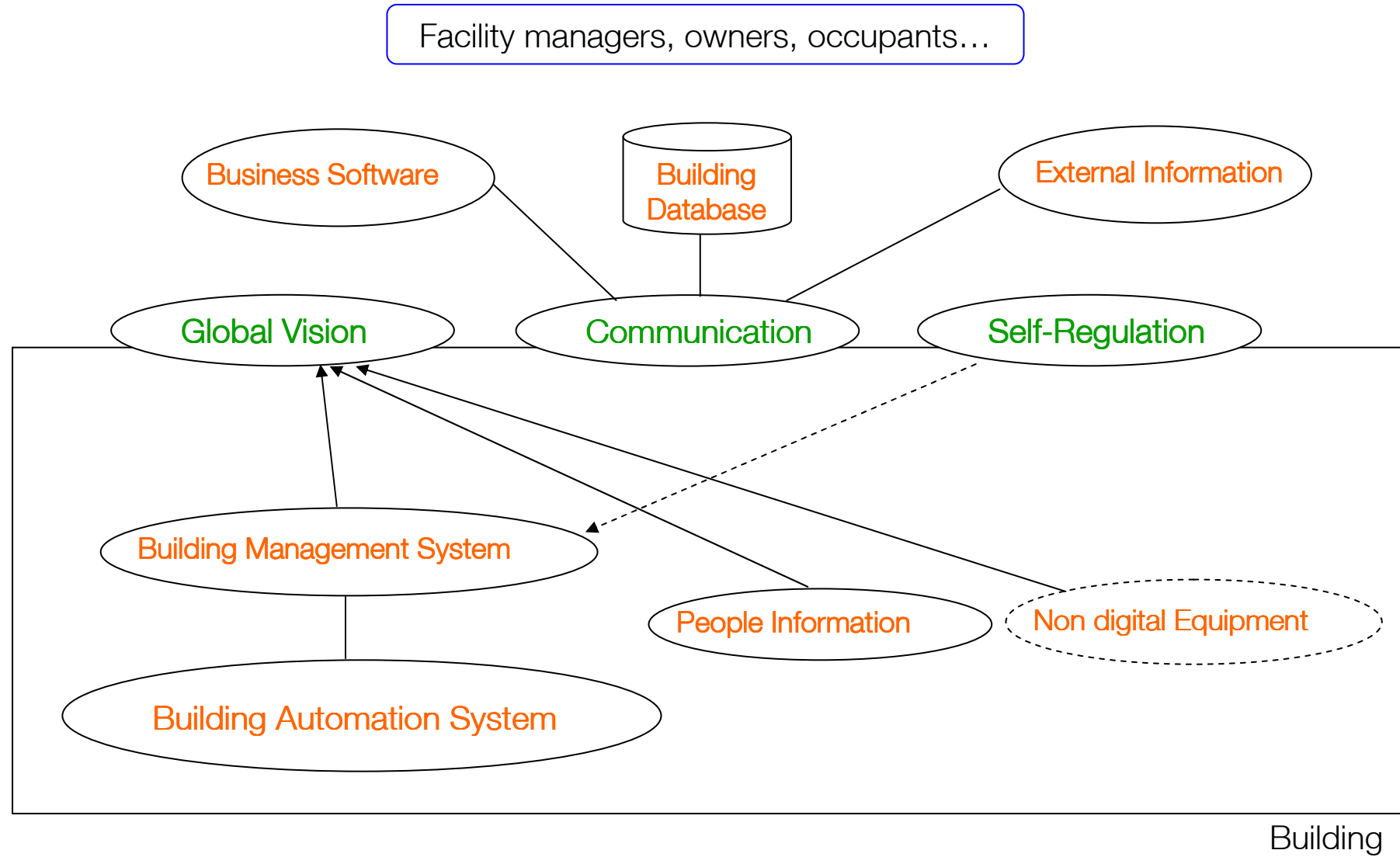
Human Body vs Building

	Body	Building
Sensors	Eyes, nose, skin...	T° sensor, card reader, camera...
Actuators	Muscles	Motors, lights...
Supervision/Control	Brain	Partially done by BMS

Building = Complex Ecosystem



Smart Building



Smart Building – For what ?

- To better manage resources
 - To reduce energy consumption and costs
 - To reduce maintenance/operational costs (Preventive maintenance)
- } Green building
- To improve building safety
 - To improve occupants comfort and efficiency
 - Enable fast, secure, shared and easy access to information from any location (for authorized users)
 - Centralization of building information creates power in knowledge

Smart Immo

Smart Immo

- French Collaborative project
 - Pôle de compétitivité SCS (PACA area) & FUI 7 DGCIS
- Goal : Get Smart tertiary buildings
- Clients : Owners, tenants/occupants, facility managers
- Duration : 24 months (June 2009 to May 2011)

- Consortium
 - Orange, Hager
 - Ard, Trusted Logic, Keeneo, Newsteo, Vizelia
 - Cstb, Inria
 - Mairie de Valbonne



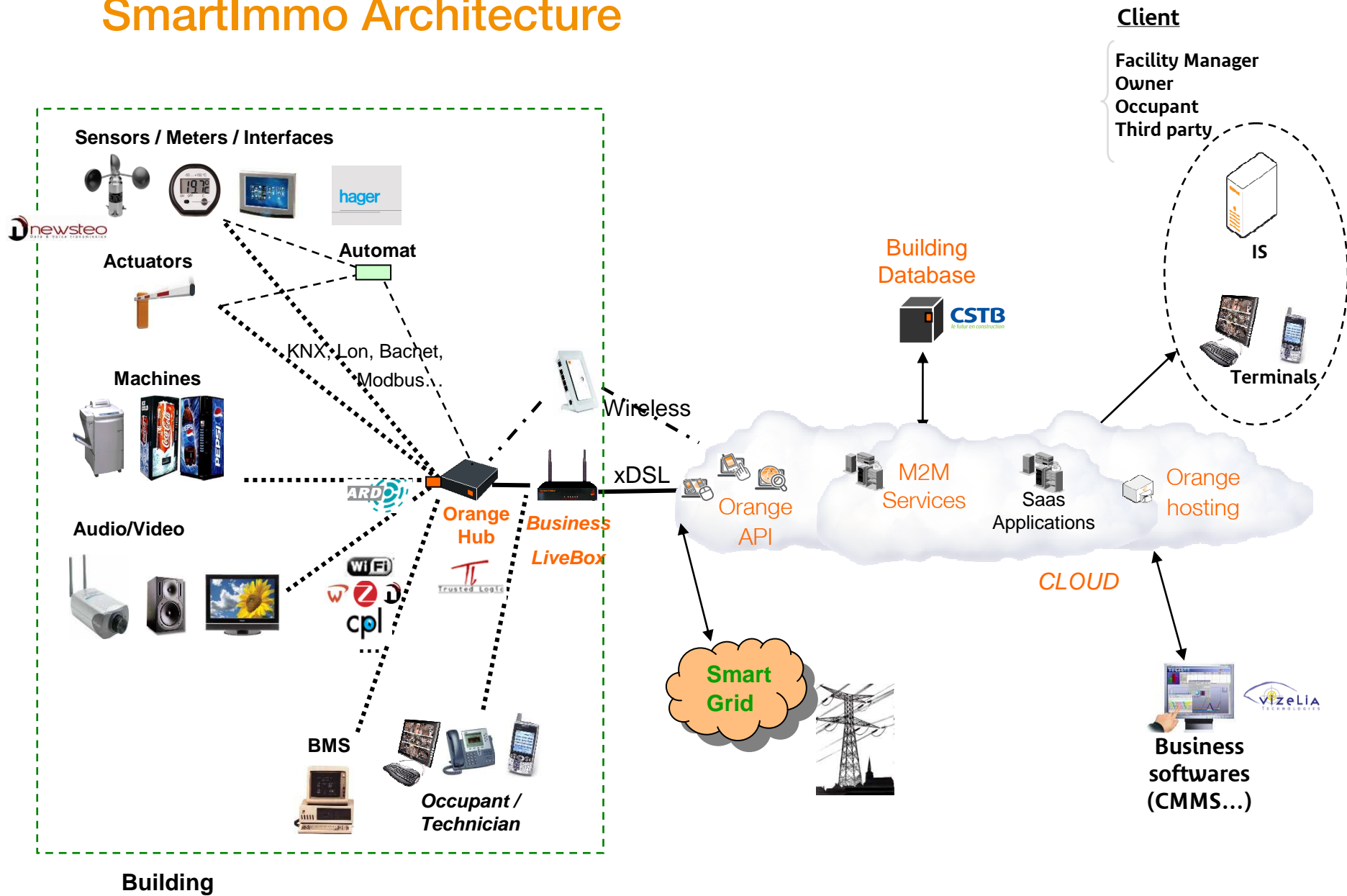
Smart Immo

- **Market: Small and middle size tertiary buildings**
 - Offices, shops, public buildings, schools, sport and cultural buildings...
 - Old and new buildings

- **Goal : Making buildings smart and communicating**
 - Gather building information, allowing players to get an integrated vision of building
 - Long term storage of data → Building Database
 - Connection with outside services and people
 - Reduction of energy consumption
 - Allows to create new and better services

- **How ?**
 - By developing a secure infrastructure for integration of heterogeneous data and services
 - By using this infrastructure to develop innovative services
 - By validating results with **field tests**

SmartImmo Architecture

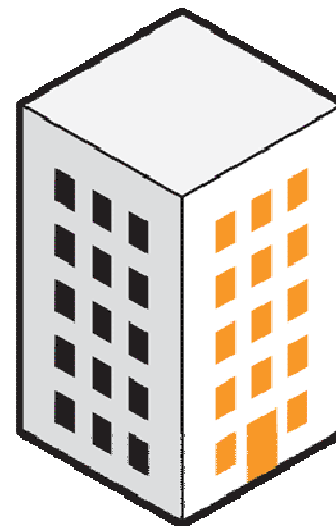


Summary

- Smart Building is more than Building Automation
- Need to monitor and control the whole building

- Smart Immo
 - Collaborative project
 - Infrastructure to collect building data
 - Store data in a long term independent database
 - Tests on public buildings

Thank you



Orange, the Orange mark and any other Orange product or service names referred to in this material are trade marks of Orange Personal Communications Services Limited. © Orange Personal Communications Services Limited.

