

SMART BUILDINGS

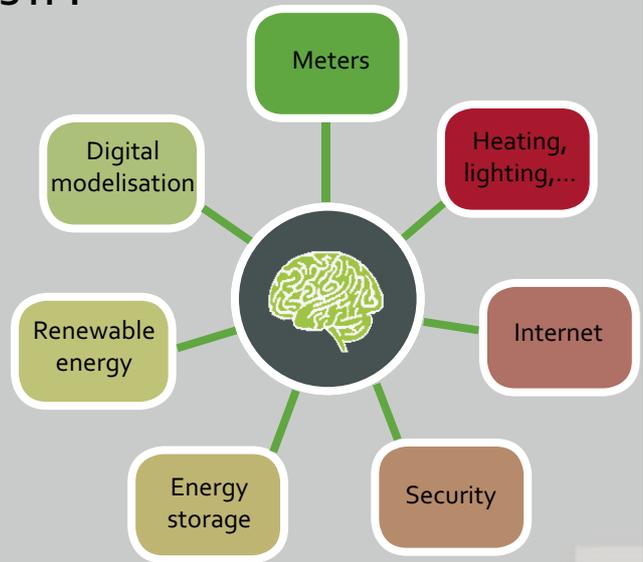


WHAT IS IT ?

An intelligent building, or a « smart building » is a building **that communicates with its users**.

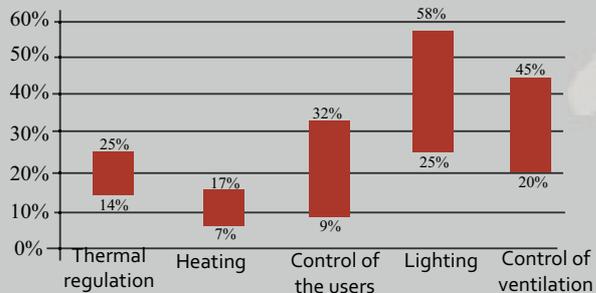
During its design, the plans are **digitalised** in order to facilitate future interventions. Energy management is mastered by the occupant, who can **visualise** and **interact** with its equipments, for example via a smartphone.

Note that a building will only be smart if its user is. So on the one hand it deals with technology, and on the other behaviour.



BENCHMARKS

A system of energy management is able to **inform, raise awareness** and to **establish a direct relation** between the use of the building and its economic consequences. It can **generate substantial savings** thanks to changes in users' behaviour or the settling of a continuous improvement of the energy performance.

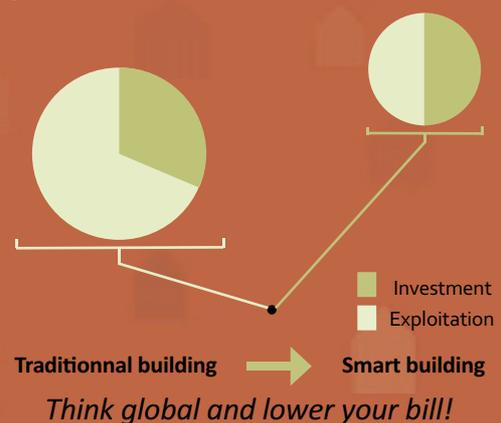


Rough estimates of savings by equipments for different uses (Association KNX)

HOW TO DO IT ?

A smart building approach requires that the stakeholders follow the same structured process ensuring the coherence and the inter-operability of the deployed disposals (equipments, systems).

A referential in terms of **global cost** (see diagram) should be readable by every public or private investor, national or international.

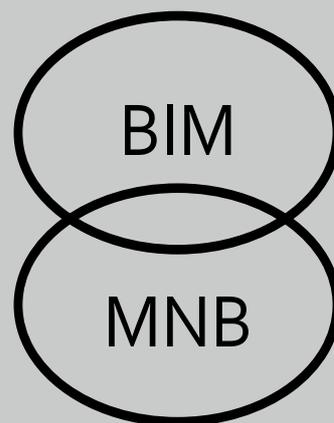


CONNECTION WITH SHADOW ?

SHADOW partners plan to make use of **Building Information Modelling** - BIM, or MNB (Modèle Numérique du Bâtiment) in French. This tool will facilitate coordination of the Green Build Hub and RENO 3.0 and communicate with stakeholders through a common platform on the basis of a common carrier.

With the information it generates and organizes, digital technology in the buildings introduce a **dramatic transformation of the building sector pathways**, by adding value. CSBT and les 7 Vents are engaging in discussions with field projects that will facilitate the acquisition of new skills.

The «intelligent building» approach will allow gains in energy efficiency, productivity, comfort, and expansion of services to individuals in their homes.



PARTNERS' FEEDBACKS

7 Vents conducted a study on the **sustainable hydrogen patterns** in Normandy which has highlighted the importance of storage in future energy systems.

The company Rexel is a project partner. Through its partners the project has access to a panel of experts and turnkey **energy management solutions**.

CSBT is moving towards a less technological interpretation of intelligent building. It follows the concept of « **simply SMART** » and relies primarily on the intelligence of the user.



An intelligent building can both recharge an electric vehicle or use it as an energy source

FOR MORE INFO...

Feel free to send us your questions, comments, interests. Our organisations have links with experts, and can give you access to reference documents, advice and training.

- To contact in French:

SCIC les 7 Vents, 62 A rue Gambetta, 50200 Coutances
www.7vents.fr

 SCIC Les Sept Vents  RENO 3.0
00 33 (0) 2 33 19 00 10 info@7vents.fr

- To contact in English:

CSBT Office, The Eden Project, Bodelva, Cornwall, PL24 2SG
www.csbt.org.uk

00 44 (0)1726 810241 admin@csbt.org.uk

