



SBA provides support to the building industry, helping it to quickly adapt to the changes arising from the wide-spread introduction of digital technology in the Smart Building and the Smart City. It offers a global view shared by pooled infrastructures to promote new services, focussing on uses, that generate efficiency and better social cohesion.



CONSTRUCTION & ITS CHALLENGES

GALLOPING URBANISATION

By 2050, the urban population will have increased by 66%, ie by 2.5 billion people¹. In this scenario, how can we design buildings and their associated services that will support a harmonious and sustainable urbanisation?

ENVIRONMENTAL ISSUES

Over 60% of greenhouse gases (GHG) are produced by cities². As buildings are the 2nd largest source of GHG emissions in towns, what strategies must they implement to reconcile a comfortable lifestyle with a reduction in their environmental footprint?

ENERGY ISSUES

The EU's Energy/Climate Package, energy market directives, integrating renewable energies (Grid Parity), etc. With buildings accounting for 45% of total final energy consumption³, what role should they play in developing Smart Grids?

CONSTRUCTION ISSUES

Over a building's entire life-cycle, more than 80% of its overall costs are linked to its occupants. How, therefore, can we go beyond merely controlling direct costs (energy, maintenance, waste, etc) to incorporate intangible benefits, such as increased productivity for the occupants, which come in particular from improving well-being and developing added value services?

TECHNOLOGICAL ISSUES

Mainstreaming of digital technology: 5 billion connected objects by 2015, 25 billion⁴ by 2020, Moore's law⁵, etc. What impact will this rapidly accelerating "digitalisation" have on the building's uses and life-cycle?

1: source World Urbanization Prospects 2014 United Nations / 2: source UN-Habitat 2014 / 3: source MEDDE - SOeS 2014 / 4: source Gartner 2014 / 5: Gordon Moore, founder of Intel - processing power, at constant cost, will double every 18 months - a law shown to be true over 50 years.

A UNIFYING APPROACH FOR SMART BUILDINGS IN SMART CITIES

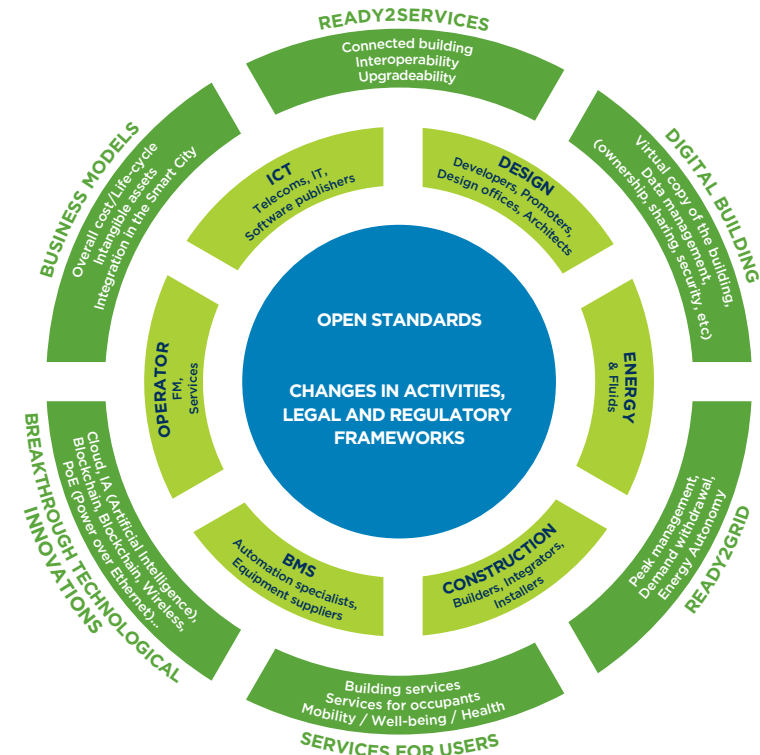
The development of digital technology within buildings and neighbourhoods can only be achieved by **moving away from the conventional "silo approach"**.

SBA promotes the use of **interoperable solutions** based on **open standards**. In this way, products and services can be developed that offer the various users real added value, with **sustainable business models**.

SBA's objective is to promote the field of Smart Buildings in Smart Cities by **bringing on board all the stakeholders in the construction industry**.

AN ORGANISATION UNIQUE IN ITS TRANSVERSALITY AND THE DIVERSITY OF ITS MEMBERS

Developers ● Property co. ● Promoters ● Builders ● Architects ● Design offices ● Insurers ● Automation ● Equipment ● Integrators ● Installers ● IT ● Telecoms ● Software ● Energy and Fluids ● Consultant ● Services Facility Manager ● Organisations ● Associations ●●●



The Smart Building ecosystem

SBA's ACTIONS

▶ MEETINGS

Bringing the industry together in a spirit of transversality
SBA events, for sharing experiences and keeping track, with topics on smart buildings in a sustainable city.

▶ PUBLICATIONS

Share our vision and our recommendations
The Smart Building for Sustainable Territories Manifesto.
The Ready2Services Building and Territory Guide.

▶ COMMITTEES

Considering the building's evolution in the smart city
"Expert" committees to define a common framework for buildings that are open and connected.

▶ RELATIONS WITH INSTITUTIONS

Raising the awareness of public policymakers
Ministries, public bodies, local government, professional organisations, etc.

▶ INTERNATIONAL COOPERATION

Cross-border relations
Discussions with international organisations.

BECOME AN SBA MEMBER ALONGSIDE THE SMART BUILDING SECTOR'S LEADERS AND EXPERTS AND

- ▶ Learn about the issues and the challenges
- ▶ Take part in defining and setting up baseline references
- ▶ Find out about and follow innovations in the sector
- ▶ Build a network and talk with your peers
- ▶ Meet experts from business areas related to yours

THE SMART BUILDINGS ALLIANCE IS THERE FOR YOU - CONTACT US

www.smartbuildingsalliance.org

THE COMMITTEES

Smart Buildings for Smart Cities

Defines reference models to foster the links of interdependence and cooperation between Connected Buildings and a Connected Territory.

Services for Users of Smart Buildings & Territories

Leverages the Ready2Services framework to define the conditions to develop flexible and scalable user services, from one buildings to a whole territory. Defines the interest of the Ready2Services reference framework for scalable & multiple services around Smart Buildings & Territories by pooling equipment and infrastructure.

Positive Energy Buildings & Territories

Rethinks Connected Buildings and Territories in terms of an energy mix (centralized and decentralized / Carbon and carbon free).

New Business Models

Evaluates innovative new business models that contribute to shifting the value from "asset management" to "service management"

Ready2Grid

Defines the role of a smart building within a smart grid & the conditions necessary to become an active contributor to the smart grid.

Ready2Services

Defines the technical conditions for a Building to be qualified as Open & Connected. Ready2Services has the ambition to become the industry reference label for Smart Buildings. It promotes Open Standards and defines the connectivity and security conditions for Smart Buildings on 3 different and independent layers: Sensors & Actuators / Infrastructures / Cloud Application.

Connected Building & Territories

Promotes the use of digital tools such as BIM in the global lifecycle of buildings and territories. Studies impact on data management, and paves the way to defining Smart Data strategies.

Innovative & Disruptive Technologies

Identifies promising new technologies and evaluates potential impact on future services, business models...

And also the committees:

Smart Law • Addresses legal issues for Smart Buildings and Smart Cities.

Change Management & Employment • Accompanies the Building Industry in the digital transition. Studies avenues to support this management change process, defines new job descriptions as well as job mutations.

Institutions • Supports policy makers in their understanding of the digital transition of the building industry and local government.

Marketing • Promotes the Smart Buildings Alliance for Smart Cities initiatives, ideas & key deliverables to a broad audience of stakeholders from industry insiders to the general public.

■ Underlying techniques and frameworks

■ Services and business models

THE HONORARY MEMBERS



THE MEMBERS

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