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**TRAINING AT SMART BUILDING EXPO:
NEW DESIGN PARADIGMS AND NEW SKILLS
TO TAKE ON THE INTEGRATION CHALLENGE**

Milan, 27 September 2019 – With a little under two months to go until it opens, **Smart Building Expo (13-15 November 2019, fieramilano, Rho)** - the exhibition organised by Pentastudio and Fiera Milano and dedicated to technological convergence - will serve as an important business opportunity but also offer training and updating for professionals operating in the sectors of digital technology for networked buildings and smart cities.

The schedule is busy and wide-ranging, the three-day event incorporates conferences, workshops and round tables that will consider the current technological and economic state of the sector as well as developments planned for the immediate future.

The training programme will focus on each technological area covered by the exhibition, with a range of proposals for different professionals, from home&building automation to active systems for energy efficiency, as well as smart applications for every field of use.

A concrete, high-level offer, guaranteed by the scientific coordination of the Steering Committee and developed in synergy with key associations in the sector such as the Association of Architects, the Milan Association of Engineers, and the ABC Department at the Politecnico di Milano. In many cases, participation will allow designers, installers, system integrators, building administrators and estate agents to obtain training credits.

THE FOCUS

- **CONSTRUCTION, INNOVATION AND DESIGN:** considerable attention will be paid to the impact of technological innovation on the housing market and the digital revolution in infrastructure design, where BIM, BMS and BEMS will increasingly form common ground for the emergence of new professional synergies. The plant design component is one of the fundamental elements of smart buildings today, and professionals need to remain updated in order to identify new operating procedures via these platforms. There will be in-depth analysis of these new tools, from the dramatic changes that the KNX standard is undergoing followed recent diffusion of related objectives, to the potential of drones in terms of the preventive evaluation of damage, intervention, surveys and maintenance. There will also be various opportunities to consider the technology/building value ratio and the smart home, a sector that is growing at an impressive rate (+52% per year according to the IoT Observatory at the Politecnico di Milano)
- **THE FUTURE OF THE PROFESSION:** connected cities and buildings require new skills, starting with those who design and install, but reaching all the way to the building administrators and carekeepers. The installer becomes a smart installer, the administrator a “general contractor” able to manage the connected, dynamic system that is the new condominium. Various initiatives will focus on the direction and actions required to remain competitive in a radically-changing scenario.
- **ENERGY AND ECO-SUSTAINABILITY:** a look at the new scenarios emerging as a result of self-production technologies and the energy management of buildings, with a view to the goal of “near zero emissions” building.

- **TECHNOLOGICAL PLANT DESIGN AND INTEGRATION:** A training area entirely dedicated to installers, organised by Comoli Ferrari, with a comprehensive look at the correlation between plant design, alternative energy, mobility, communication and digitalisation markets.

THE MILANO SMART CITY CONFERENCE

The highlight of the event will be the **Milano Smart City Conference**, sponsored by the Italian Ministry for Economic Development and supported by the scientific participation of the Ugo Bondoni Foundation.

A sort of “event within the event” which will run alongside the exhibition, with three intense days of work. Each day will include an institutional morning session, with international keynote speakers of high scientific profile, followed by a more technical afternoon session with illustrations of best practice and scientific posters.

The three thematic verticalisations, one for each day of the exhibition, are inspired by three governmental areas of operative focus:

- **DIGITAL INFRASTRUCTURE IN A SMART CITY:** ultra broadband, FWA technologies and 5G make up the main infrastructure in a smart city that, by its very nature, is connected and generates big data able to steer its operation and impact on the lives of its citizens.
- **MOBILITY AND LOGISTICS SOLUTIONS IN A SMART CITY:** the movement of people and goods is one of the biggest challenges for cities. Technology and cultural exchange are having a real bearing on the paradigms, considering the growing “fusion” between the virtuality of networks and the physicality of urban transport in the age of self-driving cars and e-mobility.
- **SURVEILLANCE AND SECURITY IN A SMART CITY:** active sensors and video cameras are only some of the tools that allow for the smart management of large city centres, ensuring a high standing of living, safety and new services. A key topic, and one that benefits from the fact that **Smart Building Expo** runs alongside **SICUREZZA**, the Fiera Milano exhibition dedicated to security and fire prevention solutions and technologies. Smart Building Expo and SICUREZZA will take place seamlessly, in adjoining halls, visitors able to attend both with one single ticket.

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