REBUILD

BARCELONA. BUILD & RENOVATE

26 - 28 SEPTEMBERt 2018

YOU IMAGINE.
WE REBUILD

BARCELONA - CCIB

CALL FOR SPEAKERS

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YOU IMAGINE. WE REBUILD

REBUILD is the answer to the need to transform the construction sector at the key moment of its history. A sector that came to represent 18% of GDP in the country, must now assume a total transformation to reposition all its fundamental aspects:

its process of evolution towards a more industrialized model,

the inclusion of mobile technologies,

the possibility of creating new businesses and start-ups,

the digitization of the design and construction process.

For this, REBUILD will gather the maximum innovations that affect the whole life cycle of a construction and therefore also all the agents that participate in it. The National Congress of Advanced Architecture and Construction 4.0 will be the platform to analyze, deepen and visualize the changes that are impacting on a sector that will be totally reconverted in the next five years.
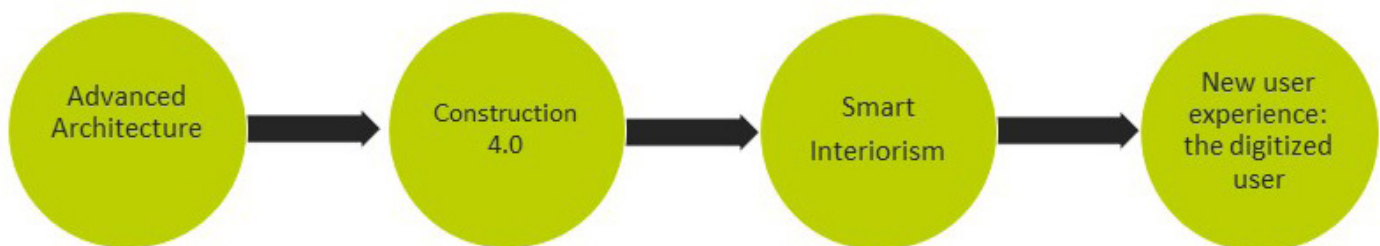
And this can only be done by knowing and experiencing the latest trends in each of the phases where our constructive and architectural activity operates.

This call for speakers is aimed at two specters of people who until now were separated and disconnected and who from now on must work together. On the one hand, technicians, academics, researchers and, on the other, experts, professionals and entrepreneurs in the building sector.

Research can be presented about the disruptive change that the Construction 4.0 concept means and the experiences and projects where they have been applied, conforming what we can understand by an Advanced Architecture.

FROM PROJECT TO EXPERIENCE

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OBJECTIVE

We seek in the residential field, building and construction to those practices, experiences, projects, innovations, materials that are affecting the building today through:

- **Promoters, studies, construction companies** ... with sustainability and energy efficiency programs or other fields that affect advanced building.
- **R & D companies and manufacturers** of products and equipment aimed at efficiency and sustainability.
- **Architects, engineers, interior designers and designers** with successful case studies in the application of sustainability.
- **Expert professionals** in the application of energy efficiency and sustainability as a competitive and differential advantage.
- Outstanding and **disruptive applications** of building technology, the user / client / inhabitant experience, the new residential commercialization, the use of data, etc.
- **Architecture, engineering, project management studies**... that have created differential projects.
- **Companies specialized in technology** for Advanced Architecture and Construction 4.0.
- **Developers of hardware, software and robotics** that provoke innovative solutions to improve the productivity and the processes inherent to the change and improvement of the sector.

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TOPICS FOR THE CONGRESS

1. Construction 4.0 and Advanced Architecture.
2. Workshops y application areas.

With the objective of facilitating the approach of the candidatures, the following are the 3 vectors in which you want to frame the candidatures of the Call For Speakers:

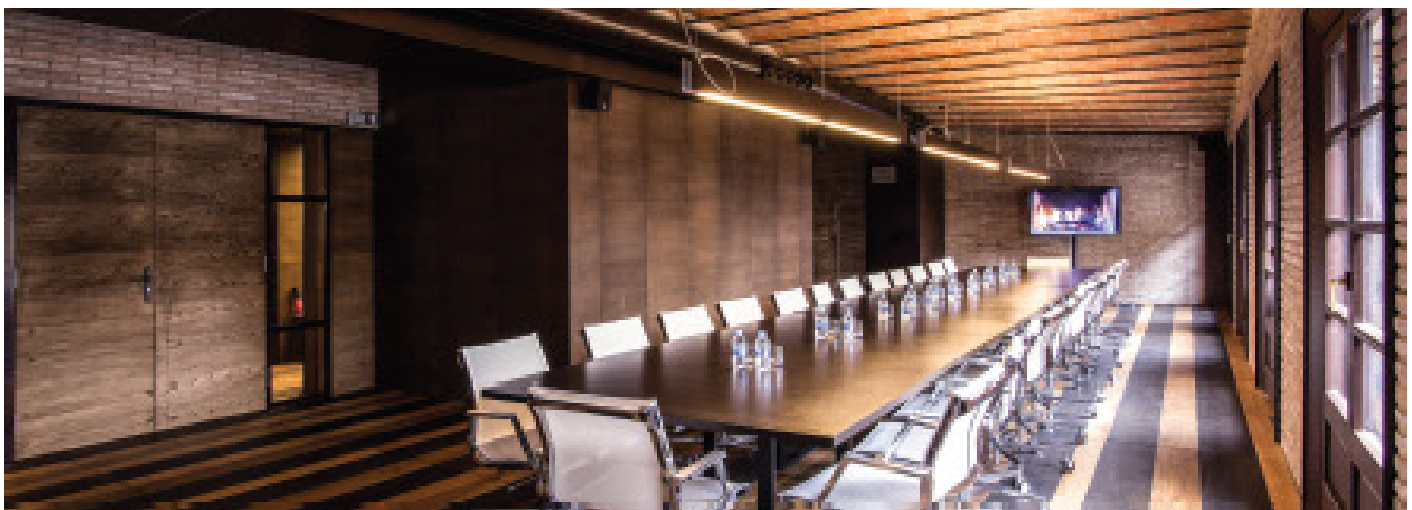| **Technology and digitalization:** towards a sustainable architecture	**Efficiency and sustainability:** the keys to construction 4.0	**Building materials and systems:** professionals in a changing environment
The concept of sustainability is already understood by the majority of the population. But it is urgent to translate this concept into real and identifiable applications, in guaranteed and certified processes so that construction and architecture, instead of being a high-impact sector of our environment, becomes a sector that repairs our environment .	We speak of smart construction as an efficient and technologically advanced construction. Innovative solutions and technologies that are presented in the market must meet real needs and at the same time be efficient and sustainable.	The advanced architecture must focus its objectives towards the person, be this person a client, a user, an operator, a promoter, a teacher, a technician ... All of them will be impacted by the digital transformation and when we can understand, assume and adopt this change of paradigm in all the functions and phases of the building event, before we can evolve.

HOT TOPICS

Within these three vectors that make up Advanced Architecture and Construction 4.0 (Technologies and digitalisation, Efficiency and sustainability, Materials and construction systems) the following topics have been identified that may be the subject of the papers to be proposed:

- **Advanced Architecture**

- **Buildtech**

  - New systems to build, zero residue

  - Pre-construction and Augmented Reality

  - Passivhaus concept

  - MMC-Modern Construction Methods

  - Building Assembly Manufacturing

  - Prefabrication & Off-site

  - Modular Construction & Containers

  - Pre-engineering

  - Dry building vs Wet building

- **Construction 4.0**

- **Design**

- **Durability**

- **Edification**

- **Real estate management**

- **3D Building Printing**

  - Automation and Robotics and Mixed Reality

  - Energy Efficiency-Efficient Consumption

  - Change towards Renewable Energies

  - Business Information Management

  - Blockchain in construction

  - Smart Contracts for collaborative processes

- **Proptech**

- **Sustainability**

  - New materials to design

  - Smart Lighting

  - Building Information Modeling

  - Virtual Design and Virtual Reality

  - Prescribe in a different way, Kilometer Zero

  - Design to manufacture

To which are added cross-cutting issues such as the transformation of professional vocations and universities, the introduction of digitalization, the transposition of regulations and directives on the Digital Agenda, the BIM, the transparency of processes, the reconversion of operators and technicians towards digitalization, the 5R concept in building (Reuse, Renovation, Rehabilitation, Restoration and Recycling), the introduction of healthy and healthy construction concept, the biodynamic office, the design for co-creation, the co-living, the co-working, the devices for the new home automation (smart living, Siri, Alexa, Nest, etc.), the mobile data / immobile buildings, circular economy ...

SECTORS OF INTEREST
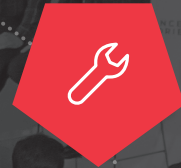

KITCHEN & CO.

PLANET BATHROOM

STUDIO INTERIORS

INSTAL PRO

FLOORS AND SURFACES

ENERGY EFFICIENCY

OUTDOORS

HOME CLOSING

SERVICES

DIGITAL CONSTRUCTION

HOW TO PRESENT YOUR PROPOSAL

To submit your proposal you must fill out the form that you will find at https://www.rebuildexpo.com/en

All proposals must comply with the detailed terms and conditions. The attached form will require, among others, the following details:

- Title of the presentation (max 100 characters)
- Summary (max 2,500 characters): must include the added value of the paper, the methodology, the current status and implementation, the solutions / conclusions and any other information useful to understand the main ideas of the proposal.
- Brief biography of the speaker (400 characters)
- Keywords (max 200 characters)
- Draft of the presentation in Power Point (max 10 slides)

KEY DATES

The key dates to consider are the following:

- Reception of proposals: until May 31, 2018
- Selected proposals: as of June 20, 2018, all the participants will be informed of the results of the proposals.
- Reception of final papers: July 30, 2018

EVALUATION CRITERIA

The objective of the National Congress of Advanced Architecture and Construction 4.0 is to be a platform capable of providing the keys of the construction sector and rehabilitation of buildings and homes through unique and high level conferences that will show ideas, practices and technologies more inspiring, innovative and disruptive.

The selection criteria are:

- Impact that contributes to the key themes of the congress
- Degree of innovation and disruption within the sector
- Originality and differential aspects
- Information, analysis and contents of the presentation

INTELLECTUAL AND PROPERTY RIGHTS

The participant is responsible for the authorship of the presented paper. Must own the rights of intellectual property and, where appropriate, industrial.

The participant will declare that his presentation does not violate the rights of intellectual property, industrial property rights, copyright and image rights, and assumes complete responsibility with respect to third parties.
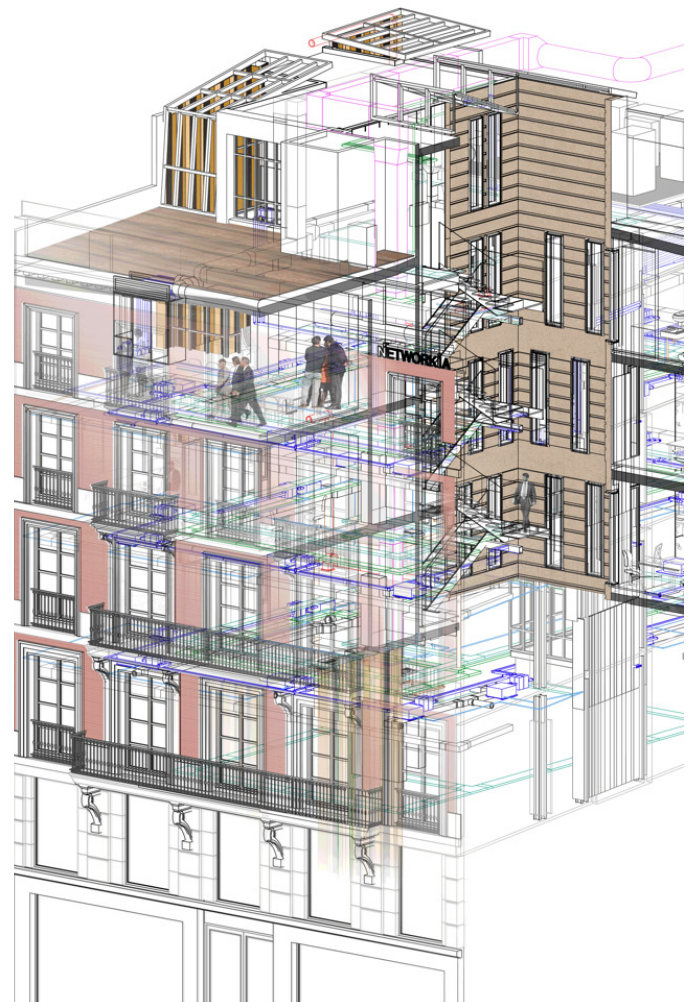
The organization of the National Congress of Advanced Architecture and Construction 4.0 is free of all responsibility.

Once the proposal for a paper has been selected, the Organization may publish part or completely any data considered for public purposes: name of author, company / organization, title, abstract / abstract, website, links, theme ... on the web and other media of diffusion.

DATA PROTECTION

The National Congress of Advanced Architecture and Construction 4.0 Organization is committed to maintaining the confidentiality of the proposals received. They will be shared and distributed only to the members of the Expert Committee.
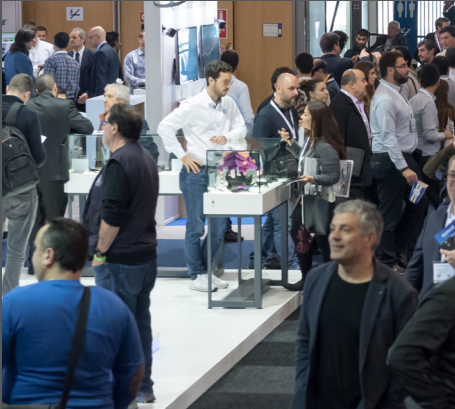
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NETWORK

KNOWLEDGE

BUSINESS OPPORTUNITIES

REBUILD
BARCELONA. REFORMA Y REHABILITA

CALL FOR SPEAKERS & CONGRESS INFORMATION:
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IF YOU ARE INTERESTED IN EXHIBIT
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