



**CONFEDERATION OF INTERNATIONAL  
CONTRACTORS' ASSOCIATIONS**



# **CONSTRUCTION 5.0**

**Chairman: Carlos Bascou**

**Co-Chairman: Jean-Louis Marchand**

**Board Meeting**

**August 6th 2020**



# INTRODUCTION

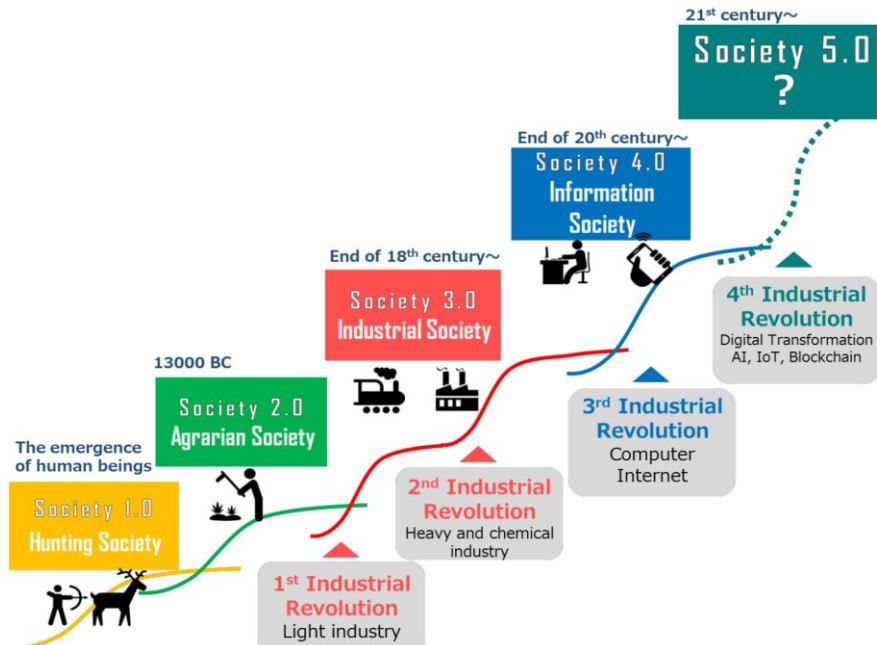
**Construction 4.0 - WG**  
*Chaired by Jean-Louis Marchand*

**Sustainable Construction - WG**  
*Chaired by Carlos Bascou*

Merged December 2019

## CONSTRUCTION 5.0 WORKING GROUP

Action plan on **Innovation** to improve **Productivity and Sustainability** for the Construction Sector



# ACTIVITY REPORT

Internal lobbying: Companies, SMEs & Federations	External lobbying: Government agencies, MDBs & int. organizations
<p><b>Business models to take advantage of environmental benefits by defining customized SDGs</b></p> <ul style="list-style-type: none"> <li>- Contribute on the 17 UN SDGs and the NDC on climate required by the Paris Agreement</li> </ul>	<p><b>Owners and Regulators to adapt legal framework for Sustainable Construction and Innovation</b></p> <ul style="list-style-type: none"> <li>- Promote contractual models and public tenders including SC &amp; i.</li> <li>- Certification systems and innovation (“Education of Demand”).</li> <li>- Promote granting to promote for innovation &amp; Sustainable C.</li> </ul>
<p><b>Key Performance Indicators (KPI) to ensure UN 2030 SDGs</b></p> <ul style="list-style-type: none"> <li>- Life cycle view: ageing, maintenance, ecological, economic and social impact.</li> <li>- Adapt to local level.</li> <li>- Standardize data to promote a better integration.</li> </ul>	<p><b>Data use, intellectual property and transparency</b></p> <ul style="list-style-type: none"> <li>- Information sharing &amp; property protection.</li> <li>- Transparency on entire use impacts.</li> <li>- Ensure Data protection.</li> </ul>



International Federation of Consulting Engineers (FIDIC)



# ACTIVITY REPORT

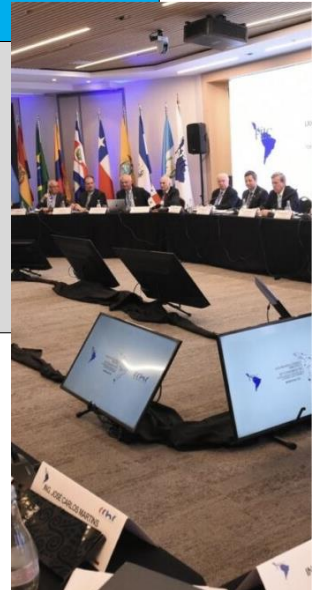
## All Stakeholders

### Invest in Innovation and use of new digital and sustainable technologies

- Industrialization
- Open Innovation: Partnerships with SMEs and start-ups.
- Industry Connectivity: creation of platforms and networks.

### Human capital - Recruitment, Training and Retraining

- Digital literacy and digital upskilling
- Sustainability awareness.
- Culture of change.
- Adapt and anticipate for the future.



## CICA

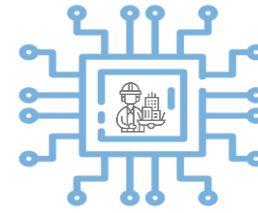
### Guidelines within the Construction Companies or Federations.

- Key recommendations for short, mid and long term.

### Coordinate with other Working Groups

- Incorporate and receive recommendations, to accelerate the use of the new technologies.

# ACTIVITY REPORT



## *Construction 5.0 Dropbox Summary*

### In general

- Construction is **slow to change** but **Covid-19 crisis** might **accelerate digitalization** and **better productivity**.
- **Sustainability** must be **at the heart of** the post Covid-19 **recovery**
- Need to strengthen an **inclusive, resilient and interoperable digital infrastructure**.
- Comparisons with China are made. Seen as more advanced in **technology** and **fast in execution**.

### On construction worksites

- **Social distancing technology** by retrofitting already existing technologies.
- **Facilitate remote work:** Initiate a complete inventory of digital tools
- Promote the use of **BIM**.

# REVIEWED OBJECTIVES

## Changes induced by COVID-19

- Digitalization is occurring faster than before.
- Post-pandemic stimulus can create jobs and help the climate.



## Adaptation of new and digital technologies

- Adaptation, implementation and integration of digital technology.
- Gap persists between what is announced and the reality on site.
- Very Little or no progress of productivity (last 30 years).
- Make the stakeholders aware that a change is occurring.



## Productivity in the construction sector

- Linked to a lack of digitization.
- Hampered by the outside environment.



## Key Performance Indicators (KPIs)

- Ensure progress in fulfilling the UN 2030 Agenda for SDGs
- Digital Transformation Index
- List and use of new technologies that can be used.



## Sustainability & Society 5.0. Include more about.

- Towards a sustainable Europe 2030
- “Society 5.0 for SDGs”.
- Involve in the COP26’s works.



# CONCLUSIONS



The main objective would be to **issue guidelines on recommendations to be implemented.** Short-term view (COVID-19), maintaining mid and long-term view.

A **glossary** in order to explain the different terms will be prepared.

**Cooperation between CICA's working groups. Construction 5.0 & Health and Safety WGs** have become important in light of the current health crisis.

Reviewd updated FIDIC forms of contract to **analyse it's sustainability point of view.**

**Sustainability** must be **at the heart of** the post Covid-19 **recovery.**

**A cultural change is needed. It is strongly linked with investments in human capital. Acceleration of changes, will occur implementing new and digital technologies.**

**Improve productivity. A huge gap persists** between plan and the reality on site.

**Very Fast Innovations are happening** outside the traditional industry.



**THANK YOU**



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