



## CALL FOR EXPRESSIONS OF INTEREST (EoI)

### Leadership of CIB Task Group 130 (TG130): Construction 5.0

The International Council for Research and Innovation in Building and Construction (CIB) is officially seeking expressions of interest for leadership positions to drive and coordinate the newly established **Task Group 130 (TG 130): Construction 5.0**.

#### 1. Introduction and Scope of Construction 5.0

Construction 5.0 (C5.0) which represents the next stage in global construction advancement presents an exciting vision for the future of construction characterized by high efficiency, health and safety, sustainability, and a human-centric focus, where technology complements human skills rather than replacing them. C5.0 will involve up-skilling and re-skilling of the construction workforce to work with new technologies, incorporate the human element into all construction processes, improve working conditions, and foster a culture of creativity and innovation. To be successful, C5.0 must be tailored to the demands of the workers and the industry.

C5.0 is linked to the UN's 17 Sustainable Development Goals (SDGs) for 2030. As such, activities within the industry must be geared towards sustainability and the optimized use of natural resources. C5.0 potentially accelerates both the green and digital transitions, aimed at a more resilient and sustainable society and economy. It prioritizes human-centric design, enhances human-machine collaboration, demands safer and more inclusive construction workspaces, promotes a greener economy, and fuels societal transformation. It emphasizes that people and the environment are significant and deserve protection and places both at the heart of all construction processes throughout all the construction project phases.

It is argued that if executed properly and proficiently, the construction sector will benefit from:

1. Increased profitability & efficiency by optimizing resource allocation, reducing expenditures, and enhancing time effectiveness and management, resulting in increased margins and improved organizational productivity;
2. Environmental sustainability and compliance by highlighting waste minimization and environmental preservation, bringing the construction industry in line with evolving sustainability rules and endorsing responsible practices;
3. Customization and competitive advantage through people-centered technological progress;
4. Adaptability to market dynamics by reinforcing the importance of swift adaptability, flexibility, and responsiveness to shifting market conditions, economic elements, and unexpected occurrences such as the recent global COVID-19 pandemic.



The shift to C5.0 becomes more critical as the construction industry becomes increasingly focused on sustainability with pressure to respond to the challenges of climate change, the depletion of natural resources, and the human impact on natural habitats. The sustainability of construction processes is becoming increasingly important with industry stakeholders having to reduce the environmental impact of the construction industry.

C5.0 promises that construction sites will be 'smart', powered by the Internet of Things (IoT). For example, sensors embedded in equipment, materials, and the built environment will continuously gather data, providing real-time insights into project progress, resource utilization, and health and safety conditions. Building Information Modeling (BIM) and digital twins will become commonplace, enabling simulation, optimization, and predictive maintenance.

Artificial Intelligence (AI) and Machine Learning (ML) will be integral in construction decision-making processes which include identification of the best sites for construction, detection of potential design flaws, prediction of project delays or cost overruns, powering predictive maintenance, and consequently significantly enhance efficiency and reduce risks.

Robotics will play a crucial role in performing complex, repetitive, or hazardous tasks, improving productivity, and health and safety, with the synergy between humans and robots becoming more prominent. Robots will augment human capabilities and learn from human experience and expertise.

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## 2. The Leadership Role: Task Group Coordinators

We are seeking dedicated, visionary researchers and industry leaders to step into the role of **Task Group Coordinators**.

Coordinators are responsible for leading the strategic direction of TG130 acting as the primary hub for thematic projects, and reporting progress. This is an exceptional opportunity to shape the international research agenda and establish yourself at the forefront of the Construction 5.0 transition.

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## 3. Eligibility and Nomination Requirements

In accordance with CIB regulations, all appointed Task Group Coordinators **must be active CIB members** (or represent a CIB member institution).

To be considered for this leadership position, candidates must submit the **four mandatory CIB application documents** for formal review and approval:

1. **Curriculum Vitae (CV)**.
2. **Letter of Support** from your employing university, institution, or line manager.
3. **Letter of Recommendation** from a current CIB commission coordinator.



4. **A 3-Year Detailed Working Plan** outlining your proposed activities, objectives, thematic projects, and meeting schedule for the Task Group.
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#### **4. How to Apply**

To express your interest or to submit a leadership nomination for TG130, please email your compiled application documents to the CIB Programme Manager, Moges Tibebu.

- **Email:** [secretariat@cibworld.org](mailto:secretariat@cibworld.org)
- **Submission Deadline:** September 20, 2026

**August 2026**