



BUILDING FOR LIFE



Press release

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Bouygues Construction inaugurates Scale One, a full-scale innovation platform for the construction sector

Announced in 2023 as a winner of a call for projects entitled “Grands Lieux d’Innovation Filières France 2030” (“Major Innovation Sites for French Industries 2030”)¹, Scale One has been designed to speed up the process of bringing innovations to practical application in the construction sector. By recreating the real-world conditions of a construction site, this platform enables new solutions to be tested and optimised before being rolled out in the field.

The new testing ground was officially opened on Tuesday, 6 October at a ceremony in Chilly-Mazarin, south of Paris, by Fabienne Balussou (Prefect of Essonne), Alexandra Dublanche (Vice President of the Ile-de-France Region in charge of Regional Attractiveness, Economic Development and Innovation), Edward Bouygues (Deputy CEO of the Bouygues Group, responsible for Innovation) and Pierre-Éric Saint-André (Chief Executive Officer of Bouygues Construction).

Bridging the gap between research and construction sites

Scale One has officially opened its 2,500 m² facility dedicated to innovation, located at the Bouygues Construction Matériel technical centre in Chilly-Mazarin, 30 minutes from Paris. It provides a vital solution to a key need felt throughout the construction sector: the ability to test and approve new materials, equipment, construction methods and technologies under real-world conditions. The platform is organised into several complementary areas:

- Two zones that recreate a construction site environment: one specifically for new-build projects and the other for renovation
- A FabLab dedicated to rapid prototyping for construction site accessories
- A dedicated 3D printing facility specialising in concrete
- A training area for robotics
- An open and flexible reception area, also designed for co-working.

Pierre-Éric Saint-André, Chief Executive Officer of Bouygues Construction, said: “Accelerating the innovation process will speed up the transformation of our sector. Scale One allows us to create the conditions for testing solutions that the sector needs in real-

¹ A call for projects organised by the French government and the Ile-de-France region to support the development of strategic economic sectors across the region.

world settings, ensuring their reliability at an earlier stage and rolling them out more widely. Our clear ambition is to reduce the time between an idea and its effective implementation in the field.”

Scale One makes it possible to assess solutions in real-world conditions, gather feedback from Bouygues Construction site managers and site workers, collect reliable data through full-scale trials, and bring innovations to market more quickly.

Some of the innovations undergoing trials at Scale One:

- **Akhantas**, an AI-based solution to improve waste management
- **A 3D concrete printer**, developed to optimise the quantity of concrete needed to build structures
- **Constructing with voids**, to reduce the amount of material needed for construction
- **B-Slicer**, a new procedure for structural works at EPR nuclear power plants, designed to facilitate assembly by prefabricating concrete walls
- **Roby2**, a drilling robot which reduces physical strain and the risk of musculoskeletal disorders for site workers, while improving the quality of the work
- **Stack™ by Woodoo**, an innovative structural solution based on augmented wood. Developed in partnership with Bouygues Construction, this material rivals reinforced concrete and steel in terms of mechanical strength and also has a lower carbon footprint
- **BIPV photovoltaic cladding by Saint-Gobain**, which integrates solar modules directly into the building skin to generate electricity

A service suited to every need

Scale One is available to all stakeholders in the sector. It offers flexible support, ranging from innovation consultancy to assistance with prototyping, ergonomic evaluations and access to testing facilities.

ABOUT BOUYGUES CONSTRUCTION

Bouygues Construction employs 34,500 people around the world, all driven by the greatest and most exciting responsibility of all – building for life. In more than 50 countries, we improve daily life for millions of people by creating structures and buildings that serve life and address all our needs: shelter, healthcare, education, work, entertainment, travel, access to low-carbon energy, etc. At every stage of a project, we put all our expertise and our experience into designing, renovating and building differently so that we can meet the critical imperatives of the environmental transition and achieve construction that is sustainable and less resource-intensive. Every day, we make sure that everyone is safe, and that human rights and ethical standards are respected. Committed to strong values, the men and women of Bouygues Construction work passionately alongside their customers

and partners so that our footprint becomes ever more positive. In 2025, Bouygues Construction generated sales of €10.6 billion.

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