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BOUYGUES CONSTRUCTION AND WOODOO SCALE UP A NEW LOW-CARBON MATERIAL

WOODOO, the French pioneer of “augmented wood”, and Bouygues Construction have just signed a strategic partnership at VivaTech to bring STACK™ into structural building applications. This new construction system transforms fast-growing, lower-grade wood (such as poplar) – typically underused for biomass – into a low-carbon building material. Its technical performance rivals that of reinforced concrete or steel, at a competitive cost – **BETTER. CHEAPER. GREENER.**

The partnership covers the entire industrial process. WOODOO and Bouygues Construction teams will work hand in hand throughout the design, testing, and construction phases. Following technical and certification approvals, Bouygues Construction will implement 10,000 m³ of STACK™ across its projects – the equivalent of 20,000 m³ of reinforced concrete or the volume of five Olympic-sized swimming pools.

Thanks to mechanical performance at least equal to that of reinforced concrete, STACK™ will be used to build structural frameworks with less material, resulting in lower costs. Its carbon footprint is significantly reduced compared to conventional solutions.

Bouygues Construction, through its subsidiary Bouygues Bâtiment Industrie, and WOODOO are exploring the opportunity to use this decarbonized material in the industrial sector, particularly for infrastructures related to digital uses and artificial intelligence (such as data centers).

Philippe JOUY, Deputy CEO of Bouygues Construction, in charge of Bouygues Bâtiment France :

« With WOODOO, we are proving that it is possible to combine industrial excellence, economic competitiveness, and ecological transition. Our entire value chain is innovating to build differently – and sustainably. »

Timothée BOITOUZET, CEO and founder of WOODOO :

« This strategic partnership marks a key milestone for WOODOO, as it proves we can reach cost parity with reinforced concrete within three years – with only 10,000 m³. Being simultaneously higher-performing, more sustainable, and more affordable is what makes us an obvious industrial alternative to reinforced concrete. »

ABOUT WOODOO

Founded by architect and scientist Timothée Boitouzet, WOODOO is a French technology company specializing in the molecular transformation of wood for the construction sector. With over 80 global patents on “augmented wood,” our company has around forty team members split between its headquarters in Paris and industrial operations near Troyes, in the Aube region. We have been honored with more than 50 national and international awards, including the “BUILD BETTER Innovation Challenge 2024,” organized in collaboration with Bouygues Construction, Microsoft, and Capgemini.

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ABOUT BOUYGUES CONSTRUCTION

At Bouygues Construction, our 35,600 employees around the world share the same ambition: building for life. In over 50 countries, we improve the daily lives of millions of people by delivering structures that serve life and meet every need: housing, healthcare, education, work, leisure, transportation, low-carbon energy production, natural resource management, and more. At every stage of a project, we bring our full expertise and experience to design, renovate, and build differently in order to meet the immense challenges of environmental transition through sustainable and resource-efficient construction. Every day, we are committed to ensuring the safety of all, upholding human rights, and complying with ethical standards. United around strong values, the men and women of Bouygues Construction work passionately alongside their clients and partners to make our impact even more positive. In 2024, Bouygues Construction generated revenue of €10.3 billion.

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Find us at the Bouygues stand – Hall 1, Booth E40.