

PRESS RELEASE



Indocement and Modula3D

Collaborate to Build with “3D Construction Printing” Technology

- *Marking Indocement's golden milestone of 50 years in Indonesia*
- *Modula3D introduces breakthrough 3D Construction Printing (3DCP) technology*

Jakarta, August 19, 2025

PT Indocement Tunggal Prakarsa Tbk. (Indocement) has partnered with PT Modula Tiga Dimensi (Modula3D), a subsidiary of PT Bakrie & Brothers Tbk. (BNBR). This construction collaboration will result in a landmark project called the **Indocement Collaborative Hub**. The partnership combines Indocement's five decades of expertise in cement and building materials with Modula's cutting-edge 3D construction printing (3DCP) technology.

“This collaboration marks Indocement's golden milestone of 50 years and signifies our entry into a new era of construction in Indonesia through the adoption of 3D construction printing (3DCP) technology provided by our partner, Modula,” said Christian Kartawijaya, President Director of Indocement, during the groundbreaking ceremony for the **Gemilang 50 Years Auditorium – Indocement Collaborative Hub**, held at the I-SHELTER Citeureup Factory, Bogor, on Tuesday (August 19, 2025).

Christian explained that the **Indocement Collaborative Hub**, a $\pm 120 \text{ m}^2$ building featuring an iconic “50” structure, symbolizes sustainability and a historic milestone for the Company. The project blends functionality, innovation, and architectural exploration. By leveraging 3D construction printing technology, Indocement is

confident this initiative will deliver a structure that is not only aesthetically pleasing and robust but also reduces construction time, labor, and material usage efficiently. “We are optimistic that this collaboration will pave the way for sustainable construction methods and broaden the possibilities for building shapes and designs in the future,” he added.

Adi Bagus Tirto, President Director of PT Modula Tiga Dimensi (Modula), stated that this 3D printing construction technology can build a simple house in just six days. Using this printer for wall construction can cut more than 70 percent of the time required compared to conventional methods.

“3D construction printing is a disruptive technology in the building industry. Through large-scale printers capable of reading digital designs, various types of structures—such as houses, commercial spaces, public facilities, and even infrastructure elements—can be built faster, with greater precision, reduced material waste, and in an environmentally friendly manner,” Adi explained.

Adi further noted that Modula is a joint venture between BNBR and COBOD International, a leading Denmark-based manufacturer of 3D construction printers. The 3D construction printer used is the BOD3 model, a technology widely adopted across Europe.

“In Indonesia, BNBR is pioneering the use of this cutting-edge technology in the 3D printing construction industry,” Adi said.

About Indocement

Indocement is one of Indonesia’s largest cement producers, manufacturing Semen Tiga Roda, Semen Rajawali, Mortar Tiga Roda, and Semen Grobogan. Indocement and its subsidiaries operate in several business sectors, including cement production and sales (as the core business), ready-mix concrete, and aggregate and trass mining, employing approximately 4,400 people. Indocement operates 14 owned plants, two leased plants, and one leased grinding mill, with a total annual production capacity of 33.5 million tons of cement. Ten plants are located at the Citeureup Factory, Bogor, West Java; two at the Cirebon Factory, Cirebon, West Java; one at the Tarjun Factory, Kotabaru, South Kalimantan; one in Grobogan, Central Java; two in Maros, South Sulawesi; and one grinding mill in Banyuwangi, East Java. In 2022, Indocement began operating the Maros Plant after signing an Asset Lease Agreement with PT Semen Bosowa Maros and PT Bosowa Corporindo. Heidelberg Materials AG has been Indocement’s majority shareholder since 2001.

About PT Modula Tiga Dimensi

PT Modula Tiga Dimensi (Modula) is a joint venture between PT Bakrie & Brothers Tbk. (BNBR) and COBOD International. The company focuses on developing the construction industry in Indonesia using 3D Construction Printing (3DCP) technology. Modula's role includes marketing, market development, and all business activities related to 3DCP technology, from machine rentals and 3D-printed wall construction to 3DCP machine sales.

About COBOD International

COBOD is one of the world's leading providers in the 3DCP industry and has disrupted global construction technology. This technology enables building processes that are significantly more efficient, faster, cost-effective, and high-quality.

COBOD built its first 3D-printed building in Europe in 2017. It has since constructed multi-story buildings in Belgium and Germany, as well as projects in Dubai and across Africa.

COBOD follows an open-source strategy, partnering with industry players, academic institutions, and global supplier networks, supported by strategic investors such as GE Renewable Energy (USA), PERI (Germany), CEMEX (Mexico), Holcim (Switzerland), Dar Al-Arkan (Saudi Arabia), L&T Construction (India), and JGC (Japan). Headquartered in Denmark, COBOD operates globally across North and Latin America, Europe, the Middle East, Africa, and Asia-Pacific.

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