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VINCI Construction launches Concreative, its new subsidiary focused on 3D printing of high-performance concrete

- Concreative: a subsidiary set up to develop 3D printing solutions for high-performance concrete
- Inauguration of the first 3D concrete printing factory in Dubai to serve a fast-growing market

VINCI Construction, through its subsidiary Freyssinet*, is launching Concreative, a new company focused on 3D printing of high-performance concrete. The company offers a fully integrated service, from design to on-site installation.

In the first stage of its expansion, Concreative is inaugurating today a first design-build factory in Dubai to meet future demand in the regional United Arab Emirates market. The Emirate of Dubai introduced a strategic 3D printing strategy in 2016 with the goal of basing a quarter of its new buildings on 3D printing technology by 2030 and thus becoming a leading global 3D printing hub by the end of the next decade.

Concreative uses a technology patented by XtreeE, a start-up in which VINCI Construction is a partner and shareholder. The technology consists in extruding concrete layer by layer, with each layer printed via a digitally controlled nozzle.

The 3D concrete printing technology frees architects from the restrictions of standardised formwork. It offers a way to design and build complex concrete architectural and structural elements, deliver personalised, customised solutions and control cost and time to market. Its many advantages include cement savings of up to 70%, construction close to where it is needed and in areas that are difficult to access, and less arduous, less dangerous worksites.

"Concreative is the result of a combination of two favourable circumstances: the arrival at maturity of the technology a year ago, and the decision by the United Arab Emirates to become a major construction market using and promoting 3D printing," says Khalil Doghri, Middle East India Area Director at Freyssinet. "We applied the global approach that we are used to taking in our specialist civil engineering business activity. Beyond the technology provided by XtreeE, we developed the upstream and downstream services needed to put the architects' ideas and the engineers' requirements together and to put the goals of the Emirates into practice."

Concreative: a new entity originating from the Leonard intrapreneur programme

The Concreative company is a direct result of the intrapreneur programme at Leonard, VINCI's forward-looking innovation laboratory. Following an incubation phase in which the project was tested in real market conditions, and then customised coaching to further develop the business model, the start-up is now entering the United Arab Emirates market in association with local partners.

**Freyssinet, which specialises in the construction and repair of engineering structures, is a subsidiary of Soletanche Freyssinet.*

About VINCI Construction

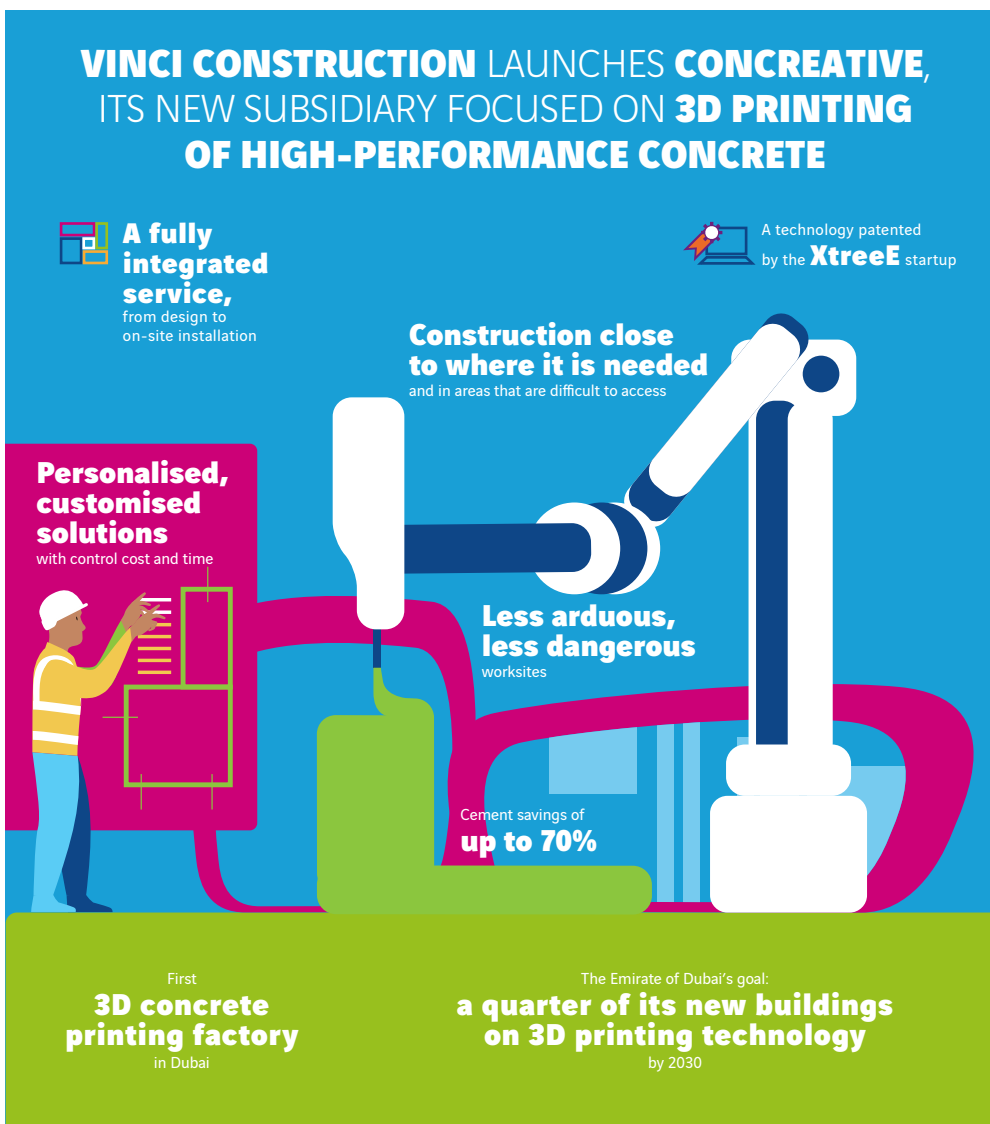
VINCI Construction, a global player and European leader, is active on five continents, with more than 70,000 employees and 700 companies generating revenue of €14.2 billion in 2018. Structured according to an integrated model, the company has the capacity to intervene over the entire life cycle of a structure (finance, design, construction, maintenance) in eight sectors: buildings, functional structures, transport infrastructure, hydraulic engineering, renewable and nuclear energy, the environment, oil and gas sector, and mines.

www.vinci-construction.com

About VINCI

VINCI is a global player in concessions and contracting, employing close to 210,000 people in some 100 countries. We design, finance, build and operate infrastructure and facilities that help improve daily life and mobility for all. Because we believe in all-round performance, above and beyond economic and financial results, we are committed to operating in an environmentally and socially responsible manner. And because our projects are in the public interest, we consider that reaching out to all our stakeholders and engaging in dialogue with them is essential in the conduct of our business activities. VINCI's goal is to create long-term value for its customers, shareholders, employees, and partners and for society at large.

www.vinci.com



**VINCI CONSTRUCTION LAUNCHES CONCREACTIVE,
ITS NEW SUBSIDIARY FOCUSED ON 3D PRINTING
OF HIGH-PERFORMANCE CONCRETE**

A fully integrated service,
from design to on-site installation

A technology patented by the **XtreeE** startup

Construction close to where it is needed
and in areas that are difficult to access

Personalised, customised solutions
with control cost and time

Less arduous, less dangerous
worksites

Cement savings of **up to 70%**

First **3D concrete printing factory**
in Dubai

The Emirate of Dubai's goal:
a quarter of its new buildings on 3D printing technology
by 2030

This press release is an official information document of the VINCI Group.

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