

# INNOVATIVE

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## DIJON, NUMBER 1 FRENCH SMART CITY

Dijon Métropole has awarded a contract for the design, building, operation and maintenance of a connected control centre to a consortium consisting of Bouygues Energies & Services and Citelum (EDF group), with SUEZ and Caggenini. The aim is to provide remote management of all urban infrastructure in the 24 towns forming the metropolitan area (e.g. street lighting, public transport and traffic lights).

A commitment to  
**65%**  
energy savings



## LEADER IN MODULAR CONSTRUCTION

Since building the Crowne Plaza Hotel in Singapore in 2014, Bouygues Construction has acquired considerable expertise in modular construction. This innovative construction method, based on assembling prefabricated blocks, reduces the building time and the noise impact of construction sites. Our expertise has hit a new height: the two residential towers of Clement Canopy in Singapore stand 140 metres tall.

Clement Canopy, Singapore – Dragages Singapore – Architect: ADDP Architects

## DIGITAL TRANSFORMATION, IN PARTNERSHIP WITH DASSAULT AND ACCENTURE

Already fully committed to developing the use of BIM (Building Information Modelling), Bouygues Construction is now going further in the digital transformation of its project activities. A solution based on the Dassault Systèmes 3DEXPERIENCE platform gives employees and the complete supply chain a collaborative management tool that uses project data simultaneously for all players.



## REUNION ISLAND'S NEW COASTAL HIGHWAY

Since October 2016, a giant barge, the *Zourite*, has been transporting and putting in place elements of what will be the longest viaduct on French territory. The 5.4 kilometre-long viaduct will be an integral part of the new coastal highway linking Saint-Denis, the island's capital, to La Grande Chaloupe.

The viaduct on the new coastal highway, Reunion Island – Bouygues Travaux Publics



**Wizom**  
Connected

## 1ST CONNECTED HOMES OFFER

Launched in September 2017, Wizom Connected is based on the latest technologies in IoT (Internet of Things) and predictive equipment management. Intended for property developers and social housing landlords for use on both new-build and refurbishment projects, this remote platform simplifies management and maintenance, generates energy savings, and offers residents greater comfort and safety. It brings the block management and occupants closer thanks to a dedicated social network for the apartment block.

## A 3D-PRINTED HOUSE

**3 days**

Target time for erecting the walls

In partnership with the University of Nantes, which has developed the Batprint3D™ process, Bouygues Construction has built the first home using a 3D printing application. The walls of the house were constructed by an articulated robotic arm: two layers of polyurethane between which concrete was poured. Benefits of the process include freedom of architectural forms, a shorter construction time and thermal insulation in place at the end of the construction phase.



## BORDEAUX MÉTROPOLE ARENA

Bouygues Bâtiment Centre Sud-Ouest – Bouygues Energies & Services – Architect: Rudy Ricciotti

## QUEENSFERRY CROSSING

United Kingdom – VSL



## PONT DE SÈVRES STATION

Line 15 of the Grand Paris Express – Bouygues Travaux Publics



## LONGCHAMP RACECOURSE, PARIS

Bouygues Bâtiment Ile-de-France – Architect: Dominique Perrault Architecture

## LIANTANG TUNNEL

Hong Kong – Dragages Hong Kong



## INVENTING GREATER PARIS METROPOLIS

Triangle Ouest, Noisy-le-Sec – Linkcity Ile-de-France



# CONSTRUCTION SITES, THE MOST BEAUTIFUL PLACES ON EARTH

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## HÔTEL DE GRILLON

Paris – Bouygues Bâtiment Ile-de-France – Architect: Affine Design Architecture, Artelia



## ZAGREB AIRPORT

Croatia – Bouygues Bâtiment International – Architects: Branko Kincl, Velimir Neidhardt, Jure Radic

## YVES SAINT LAURENT MUSEUM

Marrakech, Morocco – Bymaro – Architect: Studio KO



## SOLAR FARM

Japan – Bouygues Energies & Services



## GRENCITY ECO-NEIGHBOURHOOD

Zurich, Switzerland – Losinger Marazzi



# RESPONSIBLE

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## MOVING TOWARDS GENDER DIVERSITY

As part of our partnership with the association Elles bougent [Women on the Move], female Bouygues Construction employees are working with female high school, university and engineering schools to raise interest in construction industry careers at job fairs, and through site visits and mentoring.



## 1ST RESIDENTIAL PROJECT IN TIMBER

In Issy-les-Moulineaux, near Paris, Epicea represents a new generation of buildings with a very low carbon footprint, with BBKA low-carbon certification. Built using cross-laminated timber (CLT), which offers exceptional thermal and acoustic performance, this 23-apartment building was constructed in only 9 months!

Architect: Wilmotte & Associés



## WE LOVE LIFE

Health and Safety are the Group's very highest priority, and this is made clear by the 12 "basic rules" introduced in 80 countries. There is a single target: zero accidents. To mark its strong commitment, Bouygues Construction halted work on virtually all of its construction sites for half a day on June 13, 2017, so that employees and the personnel of partner companies could benefit from presentations of information, demonstrations of good practice and dedicated workshops.

## TOP EMPLOYER FRANCE 2017



Bouygues Construction is the first construction industry company in France to be certified

Top Employer for the quality of its HR practices, particularly in terms of the working environment, development of talent and digitalisation.



# COMMITTED

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## BRINGING BACK THE SMILE TO STREET CHILDREN

**179**  
organisations have received support

For the second year, the Terre Plurielle foundation has contributed to the operating costs of the Virlianie foundation's dentistry facility, which offers dental care to homeless children in the Philippines as part of medical and school support programmes.



## SOCIAL INTEGRATION AT THE NORD DEUX-SÈVRES HOSPITAL

The construction contract for the Nord Deux-Sèvres hospital in western France included a requirement to take on socially deprived trainees. Bouygues Construction set up a site school for twelve people, each of whom is supervised by an experienced site worker. For six months, they alternate practical work and theoretical courses. At the end of this period, they are awarded professional competence certificates as formworkers.

**40,000 hours**  
of work for trainees on social integration programmes



## 1ST SIMULATOR FOR TBM PILOTS

To improve the training of Tunnel Boring Machine (TBM) pilots, fifteen risk scenarios have been modelled for Thalia, a simulator specifically developed for TBM pilots. In use at all our tunnelling sites, it recreates real geologies and operating conditions to prepare the drivers for handling dysfunctional situations that may occur.



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Shared innovation

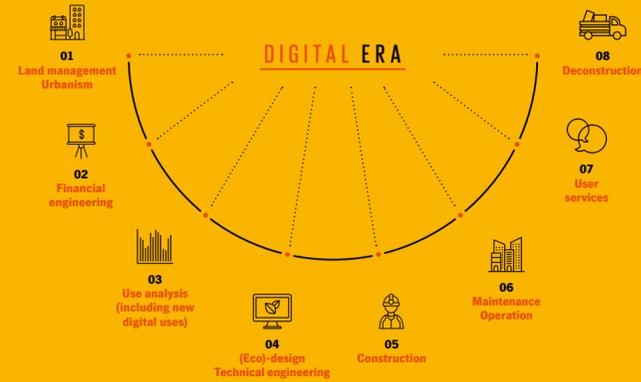
## SHARED INNOVATION INNOVATIVE, RESPONSIBLE, COMMITTED

KEY POINTS 2017



Shared innovation

## WE OPERATE THROUGHOUT THE ENTIRE VALUE CHAIN OF THE CONSTRUCTION INDUSTRY

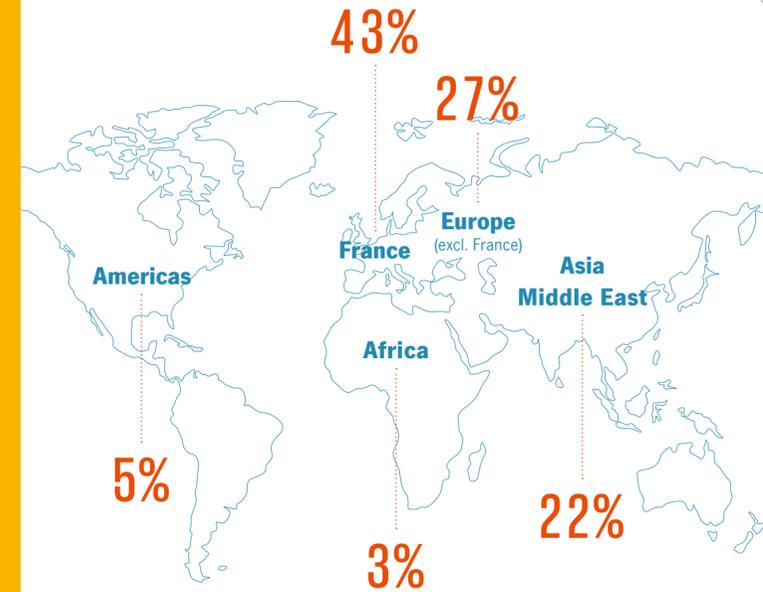


## BUSINESS SECTORS



## A MULTI-LOCAL GROUP

Bouygues Construction is a global player in construction, with operations in more than 80 countries. It designs, builds and operates projects in the sectors of building, infrastructure and industry. As a responsible and committed leader in sustainable construction, Bouygues Construction sees innovation as its primary source of added value, benefiting its customers, employees and partners.



### BE INNOVATIVE

We carry out our projects with the clear determination of sharing innovation. With our employees and with our partners. For our customers, for communities and for the environment. Innovating means opening new horizons and helping imagine our world tomorrow.

### BE RESPONSIBLE

This means working with respect for our customers, our employees, the environment and all our stakeholders. We exercise this responsibility every day through individual and collective initiatives that guarantee the health and safety of everyone on all our sites, irreproachable ethical behaviour and protection of the environment, in France and in all the countries where we operate. These are all opportunities for us to show ourselves as being exemplary.

### BE COMMITTED

Through concrete actions on the ground, we make a contribution to meeting some of the major challenges of society, giving priority to local employment, social integration and the local added value of our projects, encouraging openness and partnership, and focusing on solidarity. There are many accounts of actions we have taken in support of territories where we operate.

## SHARED INNOVATION

With our partners: engineering schools and universities, leading groups, start-ups, NGOs and associations, local government agencies, incubators, etc.


## OUR BUSINESSES

Increasing urbanisation and environmental issues are creating ever greater construction needs. A range of challenges – eco-design, BIM, sustainable cities, smart infrastructure and homes, energy efficiency – constantly redefine the know-how that is required of us. As a global player, Bouygues Construction seizes the opportunities provided by technological advances to constantly modernise its businesses. Its expertise over the entire value chain of the construction sector enables it to furnish its customers with increasingly competitive solutions for mounting and successfully concluding the most complex projects.

### Building



### Civil works



### Energies & Services



### Concessions



## KEY FIGURES

