



**EXCEL IN CREATING
SUSTAINABLE SOLUTIONS
FOR A BETTER WORLD**

Atomium, Brussels, Belgium
(see page 18)

Cover picture
**Sluishuis, Amsterdam,
the Netherlands** (see page 59)





**EXCEL IN CREATING
SUSTAINABLE SOLUTIONS
FOR A BETTER WORLD**

110+
YEARS EXPERIENCE

5
CONTINENTS

95+
INTERNATIONAL ACTIVITY

15,000
EMPLOYEES WORLDWIDE

25+
COUNTRIES

70+
NATIONALITIES



THIS IS BESIX

Dear reader,

The roots of BESIX are a century old. They're made of past successes and of past lessons. It is in these roots that lies our DNA: our **capacity to excel and be at the forefront**, both in terms of engineering capabilities and of our ability to tackle complexity and to master state-of-the-art techniques. This enables us to offer our **clients** first-class, **tailor-made solutions**.

The multiple achievements of our group, some of which are presented in the following pages, certainly illustrate this better than words. They comprise, among others, the tallest skyscrapers, iconic cultural landmarks, major marine, transport and sports infrastructures, as well as cutting-edge water and waste treatment facilities.

Our roots are strong because BESIX has always hired **talented, passionate and creative employees**. They have allowed our group to **dare, to take up challenges** and to successfully promote a culture of **curiosity** and openness to **innovation**. For their part, the members of the Board of Directors and the Executive Committee are in direct contact with operations and are easily accessible to our clients.

This entrepreneurial mindset remains at the core of our group today. We want our actions to be bold and innovative, even disruptive, while **meeting the challenges of our times**, whether environmental, technical or technological. This mindset has even determined our strategy. We've called it 'BESIX Forward'.

BESIX Forward, based on a global purpose "**Excel in creating sustainable solutions for a better world**" and with our five core values "**Excellence, unity, co-creation, passion and respect**", is bringing BESIX employees together throughout the world. We all together, we are BESIX.

We are proud of our roots and confident in our future.

Enjoy your reading,

Rik Vandenberghe, CEO of BESIX Group

Top
Rik Vandenberghe,
CEO of BESIX Group

Left
Burj Khalifa,
Dubai, United Arab Emirates
(see page 16)



BESIX A MULTI-SERVICES GROUP

BESIX is a multi-services group, operating in the contracting, real estate development and concessions sectors. Based in Brussels, BESIX carries out projects in Europe, the Middle East, Africa and Asia, as well as in Australia and Canada.

BESIX Contracting specialises in buildings, marine works, infrastructure, environment, sports and leisure facilities, often in contracts with a high level of complexity. The group also operates through its subsidiaries, in particular Six Construct in the Middle East, Watpac in Australia and BESIX Infra, Jacques Delens, Vanhout, Wust, Lux TP, Franki Foundations, Socoetra and Van den Berg in Western Europe.

The group stands out by having its in-house **Engineering department**, with wide-ranging and state-of-the-art expertise in diverse engineering fields. It enables BESIX to come up with high-quality and cost-efficient solutions across its various activities.

BESIX has also evolved from an esteemed Design & Build contractor into a full-service company. In this regard, the **Concessions & Assets** activities have taken off in recent years: the group's expertise allows it to handle the financial structuring, the design, the construction, the operation and the maintenance of major projects, in particular of environmental and transport infrastructure.

Real estate development activities are led by BESIX RED. The subsidiary, present in five European countries, has proven itself a responsible player in revitalising cities and acquiring prime locations for the development of high-quality and innovative products. BESIX RED operates in the office, residential and commercial sectors (incl. hotels and services).

On each of its sites, BESIX pursues excellence in terms of **quality** and **safety** and in reducing its **environmental** footprint. Faithful to its mission: **Excelling in creating sustainable solutions for a better world.**

**Bahrain LNG Import Terminal,
Muharraq Island, Bahrain**
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The roof of the Al Janoub stadium, Qatar (see page 51)

PROUD OF OUR PAST BESIX HISTORY

1909

BESIX Group was founded in 1909 by the Stulemeijer family under the name Société Belge des Bétons (SBB). After the First World War, the company participated in the reconstruction of Belgian ports and waterways destroyed during the conflict.

1920

In 1920, SBB expanded its construction activities into several European countries, particularly France and Spain, and then into Africa from the end of the 1940s.

1966

In 1966, SBB created a subsidiary, Six Construct, to take charge of major development projects in the Middle East: via Six Construct, SBB, and later BESIX, became in the following decades a driving force in the development of the Arabian Peninsula.

1988

In 1988, SBB diversified into the field of real estate development. This branch would develop rapidly via Betonimmo, which later became BESIX RED, operating in various European countries.

2004

In 2004, 13 SBB senior managers, with the support of Orascom, carried out a Management Buy-Out. The group was thereupon delisted from the stock market and renamed BESIX Group. Johan Beerlandt, who had been with the company since 1974, became its new CEO. In the following years, BESIX's turnover increased from 850 million euros in 2004 to 3.1 billion in 2011.

2009

In 2009, BESIX celebrated its centenary. The anniversary coincided with the inauguration of the Burj Khalifa, the tallest tower in the world, built by BESIX, Arabtec and Samsung Engineering & Construction.

2017

In 2017, Rik Vandenberghe succeeded Johan Beerlandt as CEO of BESIX, after 12 years as CEO of ING Bank. Johan Beerlandt became Chairman of the Board.

2018

In 2018, BESIX strengthened its position in Australia by acquiring, through a public take-over bid, all the shares of construction company Watpac Ltd.

CONFIDENT IN OUR FUTURE BESIX FORWARD

BESIX Forward is a long term strategy to continue to offer and co-create with our clients solutions that best meet their needs and requirements. This requires BESIX to always remain at the forefront of technical, technological and environmental issues.

BESIX Forward is based above all on a **purpose: "Excel in creating sustainable solutions for a better world"**. This mission gives BESIX's actions a goal that goes far beyond profit. It is pivotal, inspiring decisions and actions based on a simple question: what future do we want and how do we make it happen? By encouraging new ideas, assuming its responsibilities in a proactive way, excelling in all of its initiatives, BESIX believes that it can help bring about positive change - economic, social and environmental.

That purpose is expressed in the form of **six strategic drivers**, enabling BESIX to anticipate contemporary challenges in the construction world:

- Being a leader in open innovation: BESIX is ready to experiment. The group is already running its 'Unleash' internal innovation program, as well as its own Start-Ups Accelerator.
- Promoting openness towards new ventures and business activities: BESIX Group has been known for decades for its entrepreneurial spirit. The group continuously explores new opportunities.

- Developing "one-stop-shop" solutions: BESIX has unique capabilities and a multi-service offer, meaning it can provide solutions throughout the value chain, from "develop" to "operate and maintain".
- Leveraging on its customer centricity: it is key for the group's business to really know the clients, understand their needs and satisfy them to achieve the desired results.
- Promoting a great place to work: the group's ability to provide a great employee experience in an open community of enthusiastic colleagues is a defining factor in the successes of tomorrow.
- Synergizing its ways of working: this means 'working light' by simplifying and harmonizing the internal processes and communication. This includes common tools, organizational formats and resource allocation across the group.

To put these strategic drivers into practice, BESIX Forward draws on **five core values**: unity, passion, respect, co-creation, excellence.

01 CONTRACTING

The contracting activity is BESIX's core business since 1909 and remains to this day its main activity, both in terms of revenues and number of ongoing works. BESIX contracting specialises in buildings, marine works, infrastructures, water & environment as well as sports and leisure facilities.

In most countries, BESIX operates under its own brand name. The BESIX name goes in front of the country in which its branches are established: for example, BESIX Cameroon or BESIX Canada are branches integrated into the Business Unit (BU) International, just as BESIX Nederland and BESIX France belong to the BU Europe.

In some regions however, BESIX operates through wholly-owned subsidiaries with a distinct brand name:

- In the Middle East, BESIX's contracting activities are historically carried out by Six Construct. The company was founded in 1966 in order to develop the group's activities in that part of the world, which Six Construct has since continuously done.
- In Australia, BESIX acquired all shares of Watpac in 2018, a construction company with a strong identity and impressive achievements throughout the country.
- In the Benelux area, BESIX has acquired multiple companies over the last decades. These companies are the result of vertical integration and sectoral diversification. It includes regional contractors (Jacques Delens, Lux TP, Vanhout, Wust) and specialised contractors (BESIX Infra, Franki Foundations, Socogetra, Van den Berg).



FERRARI WORLD ABU DHABI, UNITED ARAB EMIRATES

Client	Aldar Properties PJSC
Contract	Design & Build (Six Construct)
Period	2011 - 2013
Surface area	190,000 m ²
Contractors	Six Construct (BESIX)
Contract value	USD 476 million

For Aldar Properties PJSC, BESIX has participated in the construction of the 2,500-hectare artificial island Yas Island, hosting the Formula One motor race Abu Dhabi Grand Prix. The island also comprises the Ferrari World building, a 150,000m² theme park comprising roller coasters and breath-taking rides.



01.1 BUILDINGS

From world-famous skyscrapers to low-impact housing, BESIX designs and builds fully integrated buildings. The group is especially known for its sound experience in realizing largescale projects with a high degree of sophistication: unique architecture, technical complexity, logistical requirements, high environmental standards, top performance and tight construction deadlines.



ROYAL ATLANTIS RESORT & RESIDENCES DUBAI, UNITED ARAB EMIRATES

Client	Atlantis The Palm 2 LLC
Contract	Build (Six Construct, Ssangyong)
Period	2016 - 2020
Height	185 metres
Architect	Kohn Pedersen Fox Associates

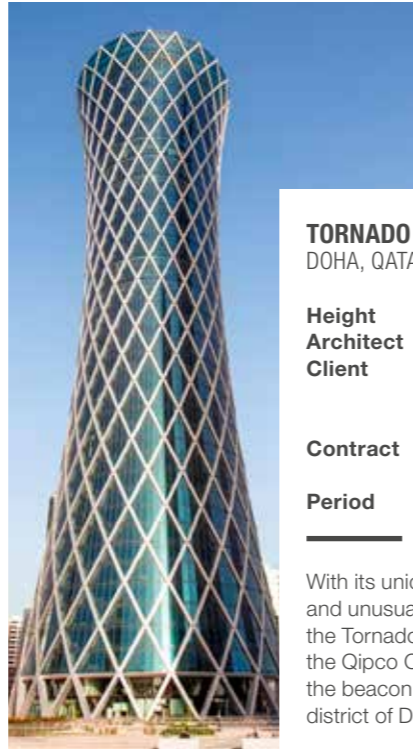
The Royal Atlantis Resort & Residences will offer 795 guest rooms and suites as well as 231 serviced residences. Each tower consists of three reinforced concrete sub-towers. These are connected by a 45m long sky bridge that has been built at a lower level and lifted in place by a strand jacking method. The gross floor area of the property amounts to 387,097m² and the total site area to 173,398m².



BURJ KHALIFA
DUBAI, UNITED ARAB EMIRATES

Height 828 metres
Architect Skidmore, Owings and Merrill
Client Emaar Properties PJSC
Contract Build (Six Construct, Samsung C&T, Arabtec)
Period 2004 - 2009

The Burj Khalifa is the world's tallest skyscraper, which redefined what is possible in the design and engineering of supertall buildings. The tower has won numerous awards, notably in the fields of innovation, engineering excellence and architectural design.



TORNADO TOWER (QIPCO)
DOHA, QATAR

Height 202 metres
Architect CICO, SIAT
Client Qatar Investment & Projects Development Holding Company
Contract Design & Build (Six Construct, Midmac)
Period 2006 - 2008

With its unique architecture and unusual hyperboloid geometry, the Tornado Tower, also known as the Qipco Office Tower, has become the beacon building of the West Bay district of Doha.



MOHAMMED VI
RABAT, MOROCCO

Height 250 metres
Architect Rafael de la Hoz and Hakim Benjelloun
Client O Tower (FinanceCom Group)
Contract Design & Build (BESIX, TGCC)
Period 2018 - 2022

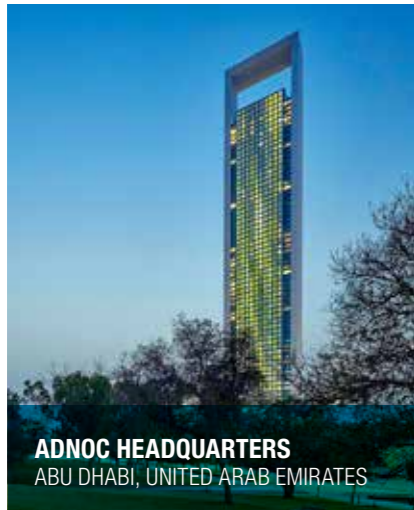
The Mohammed VI Tower is a 55-floor building, which will meet the highest international environmental quality standards with LEED Gold and HQE certifications.



UPTOWN TOWER
DUBAI, UNITED ARAB EMIRATES

Height 339 metres
Architect Adrian Smith + Gordon Gill Architecture
Client DMCC
Contract Design & Build (Six Construct)
Period 2019 - 2021

Uptown Tower will be the first super tall tower of the Uptown Dubai district. The 78-storey building will provide breath-taking views of Dubai's waterfront and iconic skyline.



ADNOC HEADQUARTERS
ABU DHABI, UNITED ARAB EMIRATES

Height 342 metres
Architect HOK Halcrow, CH2M (Jacobs Engineering)
Client Abu Dhabi National Oil Company
Contract Build (Six Construct)
Period 2010 - 2016

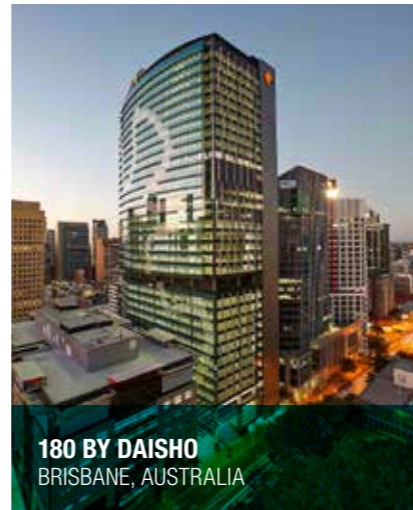
The building incorporates high quality energy efficiency and sustainable engineering technologies. It achieved a LEED Gold certification.



CARPE DIEM
PARIS, FRANCE

Height 162 metres
Architect Robert A.M. Stern
Client SCI Carpe Diem
Contract Build (BESIX, Spie SCGPM)
Period 2010 - 2013

Carpe Diem was the first skyscraper in France to obtain LEED Platinum certification, the highest distinction possible in terms of ecological design.



180 BY DAISHO
BRISBANE, AUSTRALIA

Height 152 metres
Architect Crone Partners
Client Daisho Co. Ltd.
Contract Design & Build (Watpac)
Period 2013 - 2015

This 34-storey premium office tower has won multiple awards and was Brisbane's first commercial building to be awarded a 6 Star Green Star rating by the Building Council of Australia.



MAASTOREN
ROTTERDAM, THE NETHERLANDS

Height 165 metres
Architect Dam & Partners
Client OVG Projectontwikkeling
Contract Build (BESIX)
Period 2006 - 2009

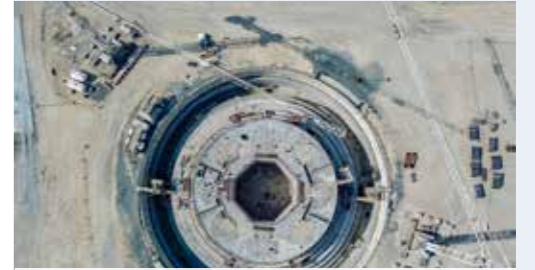
The Maas Towers consist of two adjacent towers. Their construction presented a series of technical challenges, including the fact that part of the building's foundations are submerged in the river.



22 BISHOPSGATE
LONDON, UNITED KINGDOM

Client Keltbray, Multiplex
Contract Build (Martello Piling)
Period 2015 - 2019

Martello Piling carried out the piling works for the 278 metres tall '22 Bishopsgate' skyscraper, which is set to become the second tallest tower in the United Kingdom. Martello Piling is a subsidiary of Franki Foundations, a BESIX entity specialising in deep foundations techniques since 110 years.



DUBAI CREEK TOWER
DUBAI, UNITED ARAB EMIRATES

Client Emaar Properties
Contract Build (Six Construct)
Period 2017 - 2018

The Dubai Creek Tower will be the world's tallest tower, rising above 1,000 metres. Six Construct carried out the concrete placement of the pile cap in a record time, two months ahead of schedule. The company poured 50,000 m³ of concrete and placed 18,000 tonnes of steel, twice the weight of the structural steel of the Eiffel Tower, in less than 9 months.

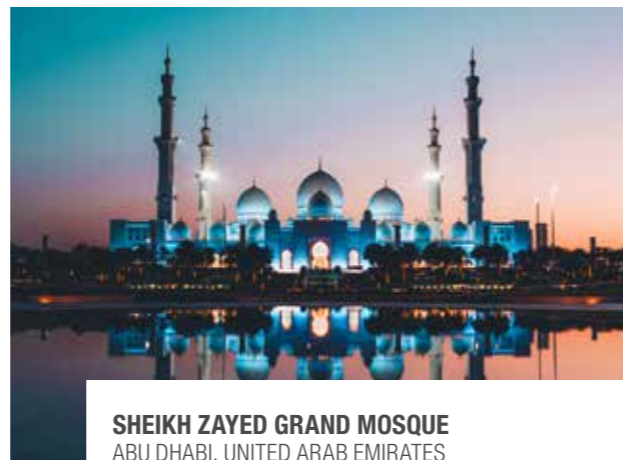




GRAND EGYPTIAN MUSEUM
CAIRO, EGYPT

Architect Henegan Peng Architects
Client The Ministry of State for Antiquities
Contract Build (BESIX, Orascom)
Period 2012 - 2020

The Grand Egyptian Museum is the world's largest museum dedicated to a single civilisation. It is also a building of rare complexity. Challenges included a massive roof slab in white concrete, spanning up to 40 metres, as well as 'stilettos', 30m. high downward pointing structures flanking the grand stairs.



SHEIKH ZAYED GRAND MOSQUE
ABU DHABI, UNITED ARAB EMIRATES

Architect Yousef Abdelky
Client The Emirate of Abu Dhabi
Contract Build (Six Construct, ACC)
Period 2004 - 2007

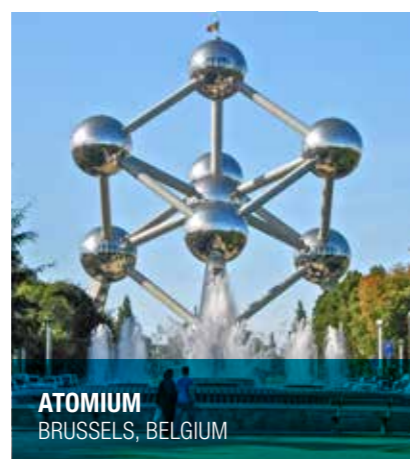
The largest Mosque in the UAE is a masterpiece of modern Islamic architecture and design. Works carried out by Six Construct notably included concrete structures, domes, exterior and interior decorations as well as all marble works.



EUROPEAN PARLIAMENT
BRUSSELS, BELGIUM

Architect Atelier Espace Léopold
Client European Union
Contract Build (BESIX, Jacques Delens, CFE, Eiffage)
Period 1990 - 2008

Espace Léopold is the complex of buildings housing the European Parliament in Brussels. BESIX has participated in its progressive construction, in the European quarter of Brussels.



ATOMIUM
BRUSSELS, BELGIUM

Architect André Polak & Jean Polak
Client ASBL Atomium
Contract Build (Renovation - BESIX, Jacques Delens)
Period 2004 - 2012

Carried out in 22 months instead of 28, the renovation of the Atomium required tailor-made work such as adapting the materials to the shape of the spheres.



QATAR FOUNDATION CONVENTION CENTRE
DOHA, QATAR

Architect Arata Isozaki
Client Qatar Foundation
Contract Build (Six Construct, Midmac)
Period 2009 - 2011

The QNCC is a member of the Qatar Foundation. Particularly innovative, it was the first building of its kind to obtain the US Green Building Council's LEED Gold certification.



CLEVELAND CLINIC ABU DHABI
ABU DHABI, UNITED ARAB EMIRATES

Architect AEDS / AECOM
Client Mubadala
Contract Build (Six Construct)
Period 2010 - 2014

Cleveland Clinic Abu Dhabi is a complex of buildings with a total area of 410,000 m². It was also a technically challenging project, involving complex logistics, large-scale construction and strict environmental standards.



ANSTO MO-99 NUCLEAR MEDICINE FACILITY
LUCAS HEIGHTS, AUSTRALIA

Client ANSTO
Contract Design & Build (Watpac)
Period 2014 - 2017

This nuclear medicine manufacturing plant mainly produces molybdenum-99, which is used for diagnosis of heart disease, cancers and kidney and gastrointestinal tract disorders.



AUSTRALIAN INSTITUTE OF TROPICAL HEALTH & MEDICINE
TOWNSVILLE, AUSTRALIA

Architect Daryl Jackson Architecture
Client James Cook University
Contract Build (Watpac)
Period 2015 - 2016

Based at James Cook University, the Institute is a world-class infectious diseases research facility. The buildings comprise state-of-the-art laboratories, biological and education facilities.

GROUPE HOSPITALIER SUD ÎLE-DE-FRANCE
MELUN, FRANCE

Architect AIA
Client Centre Hospitalier Marc Jacquet
Contract Design & Build (BESIX)
Period 2014 - 2018

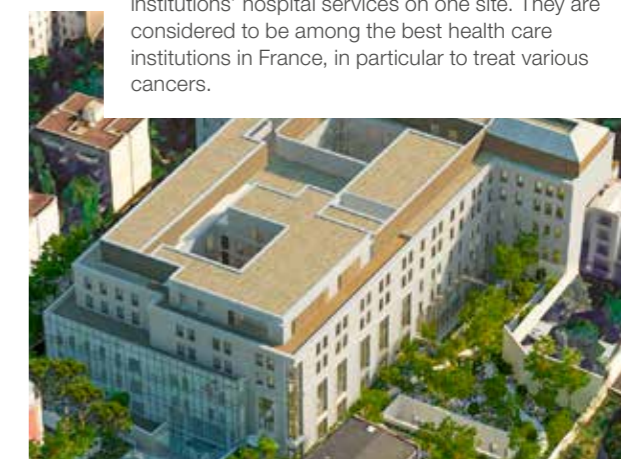
GHSIF is an ultra-modern 56,000 m² hospital located in Melun, near Paris. Challenges included tight deadlines, to which BESIX responded by using Lean methods that brought all stakeholders together around a common goal, a first on such a large and complex project.



CMC AMBROISE PARÉ, PIERRE CHEREST ET HARTMANN
NEUILLY-SUR-SEINE, FRANCE

Architect Sanae Architecture
Client Immobilière Paré Cherest
Contract Build (BESIX)
Period 2018 - 2021

The project consists of combining the three institutions' hospital services on one site. They are considered to be among the best health care institutions in France, in particular to treat various cancers.





PRINCESS ELISABETH ANTARCTICA
UTSTEINEN NUNATAK, ANTARCTICA

Architect Philippe Samyn & Partners
Client International Polar Foundation
Contract Build (BESIX, Prefalux)
Period 2007 - 2009

BESIX contributed to the construction of the Belgian Antarctic research station, both in Belgium as overall construction coordinator and in Antarctica for the final construction. Princess Elisabeth Antarctica was the first 'zero emission' station on the continent.



UTRECHT UNIVERSITY OF APPLIED SCIENCES
UTRECHT, THE NETHERLANDS

Architect Schmidt Hammer Lassen Architects
Client Hogeschool Utrecht
Contract Design, Build, Maintenance (BESIX, Strukton)
Period 2016 - 2018 (Build)

Seven institutes at Utrecht University of Applied Sciences started the academic year 2018-2019 in a brand-new building. Generating enough energy for its own use, the building is BREEAM Excellent certified. The contract also comprises maintenance services for 15 years.



NICE AIRPORT PROMENADE
NICE, FRANCE

Architect Arquitectonica
Client Aéroports Côte d'Azur, AG Real Estate, Citygate
Contract Build (BESIX)
Period 2019 - 2021

Nice Airport Promenade is the flagship project of the city's new business district. It is also a technically and environmentally demanding project with a total area of 25,000m².



EDF LAB PARIS-SACLAY
PARIS, FRANCE

Architect Francis Soler Architecture
Client SAS Immobilière du Plateau
Contract Design & Build (BESIX)
Period 2013 - 2015

EDF R&D Centre is an ultramodern complex comprising four circular buildings with a total surface area of 52,000m². The building houses 1500 researchers working on the most innovative technologies. EDF is the French national electricity supplier.



DGP MEDIA
ANTWERP, BELGIUM

Architect Crepain Binst Architecture
Client DGP Media
Contract Build (BESIX)
Period 2017 - 2019

DPG Media's new headquarters building were erected by BESIX in only 19 months, a true technical feat. With a surface of 22,680m², the building accommodates 1,000 people.



BRUV + KBRB ECOSCIENCES
BRISBANE, AUSTRALIA

Architect Hassell
Client Queensland Government
Contract Build - Managing Contractor (Watpac)
Period 2008 - 2010

The Ecosciences Precinct is Australia's first multi-agency centre dedicated to solving some of the country's biggest environmental issues. A science centre of excellence, this precinct brings together over 1,000 research staff from leading Queensland and Federal research organisations in one location.



ARTHUR PHILLIP HIGH SCHOOL AND PARRAMATTA PUBLIC SCHOOL
PARAMATTA, AUSTRALIA

Architect Grimshaw Architects and BVN
Client NSW Department of Education
Contract Design & Build (Watpac)
Period 2017 - 2020

Arthur Phillip High School is the first high-rise school built in the state of New South Wales and accommodates up to 2,000 students. The multi-storey Parramatta Public School has capacity for 1,000 primary school students.



ADVANCED ENGINEERING BUILDING
ST LUCIA (UNIVERSITY OF QUEENSLAND), AUSTRALIA

Architect Richard Kirk Architect and Hassell
Client University of Queensland
Contract Build (Watpac)
Period 2011- 2013

The project incorporates a large auditorium, laboratories, teaching spaces, offices, a cafeteria and services infrastructure. Both passive and integrated sustainability initiatives are incorporated into the building, targeting reduced energy consumption.

QUATUOR
BRUSSELS, BELGIUM

Architect Jaspers-Eyers
Client Befimmo
Contract Build (BESIX)
Period 2018 - 2020

Quatuor consists of four towers united by an inner garden. Offering 60,000 m² of offices, the buildings are designed to be passive and conform to the highest standards of quality, innovation and environmental performance. The complex is aiming for BREEAM "Outstanding" certification.



BNP PARIBAS FORTIS HQ
BRUSSELS, BELGIUM

Architect Baumschlager eberle, Stijfhals & Partners, Jasper-Eyers
Client BNP Paribas Fortis
Contract Build (BESIX, Eiffage)
Period 2018 - 2021

In the heart of Brussels, BESIX contributes to the construction of the new head office of BNP Paribas Fortis, the Belgian subsidiary of BNP Paribas, the leading bank in the Euro zone. The building will comply with passive construction standards and will receive a BREEAM 'Excellent' certification.





MARY LANE
BRISBANE, AUSTRALIA

Architect Woods Bagot
Client Mary 111 St Pty Ltd
Contract Design & Build (Watpac)
Period 2016 - 2018

The 37-storey tower features Brisbane's newest 5-star international hotel, The Westin, as well as premium residences, a multi-layered atrium with laneways, fine dining restaurants and bars.



ONE CENTRAL PARK
SYDNEY, AUSTRALIA

Architect Foster and Partners, Ateliers Jean Nouvel, PTW Architects
Client Frasers Property Australia
Contract Design & Build (Watpac)
Period 2010 - 2014

Built by Watpac, One Central Park is a mixed-use project comprising two residential apartment towers and a six level retail shopping centre. The building has won multiple awards related to its ambitious and innovative environmental achievements.



GOTTHARD HOTEL & RESIDENCES
ANDERMATT, SWITZERLAND

Architect Germann & Achermann AG, Altdorf
Client Andermatt Swiss Alps AG
Contract Design & Build (BESIX)
Period 2015 - 2018

The Gotthard Hotel & Residences is a world-class real estate complex, nestled in the largest ski resort in Central Switzerland. The complex was designed and built by BESIX and delivered in 2018, in time for the winter season.



GROTIUS TOWERS
THE HAGUE, THE NETHERLANDS

Height 120 & 100 metres
Architect MVRVD
Client Provast
Contract Build (BESIX, J.P. van Eesteren)
Period 2019 - 2022

Grotius comprises two residential towers in the centre of The Hague, offering 655 rental apartments and retail outlets.



THE CHEDI HOTEL AND MARINA
LUŠTICA, MONTENEGRO

Architect tvsdesign
Client BESIX & Luštica Development
Contract Design & Build (BESIX)
Period 2017 - 2018

The Chedi Hotel is a five-star hotel located in Luštica Bay, a new resort town on the Montenegrin coastline. BESIX used green construction methods such as the use of regional building materials, water conservation and waste management.



TERRACED TOWER
ROTTERDAM, THE NETHERLANDS

Architect OZ Architects
Client Provast
Contract Build (BESIX)
Period 2017 - 2020

Latest addition to the Rotterdam skyline, the Terraced Tower offers different types of urban apartments with terraces boasting spectacular views of the city.

BESIX 3D is a division within BESIX that specialises in 3D concrete printing, a technology which presents shorter construction time, higher freedom in shape, less waste and lower CO₂ emissions. In Dubai, BESIX 3D has notably built the world's largest 3D concrete printed facade.



Since 2018, BESIX and Proximus develop innovative solutions and next-generation smart buildings. Their first building, in Dordrecht, can be considered as a European reference in the field, notably in terms of energy management and efficiency.



BESIX and its subsidiaries have often been pioneers in developing new standards and improving the environmental performance of buildings.



BELGIAN PAVILION
DUBAI, UNITED ARAB EMIRATES

Architect Assar Architects and Vincent Callebaut Architectures
Client Bel-Expo (Belgium)
Contract Design & Build (BESIX, Six Construct)
Period 2019 - 2020

The Belgian Pavilion for Expo 2020 Dubai is a zero-waste building with unique feats in terms of eco-design.



DELOITTE EMEA TRAINING CENTRE
PARIS, FRANCE

Architect Dubuisson Architecture
Client Nexity
Contract Build (BESIX)
Period 2020 - 2022

The building will meet particularly high environmental standards, with the certifications BREEAM Excellent, WELL Building Standard Gold, Energy3/Carbon1, and Cradle to Cradle.

Besides the group's own projects in the Benelux area, BESIX's regional subsidiaries also carry out building projects. These companies usually focus on construction projects in their respective regions, within the Benelux. Collaboration with BESIX on specific construction projects is frequent.

LUX TP

Lux TP is one of the largest construction companies in the Grand Duchy of Luxembourg, specialising in construction, renovations and conversions of every kind of buildings.

PHILHARMONIE LUXEMBOURG, GRAND-DUCHY OF LUXEMBOURG

Architect Christian de Portzamparc
Client Public Building Administration
Contract Build
Period 2002 - 2005

Philharmonie Luxembourg is a major concert hall located in Luxembourg's European district.



ENTREPRISES JACQUES DELENS (EJD)

EJD is specialized in construction, restoration of listed buildings and renovation. In recent years, EJD has won multiple awards in the fields of sustainability and circularity.

WILFRIED MARTENS BUILDING BRUSSELS, BELGIUM

Architect Jasper-Eyers
Client Atenor Group
Contract Build
Period 2013 - 2016

The Wilfried Martens buildings is BREEAM Excellent certified. It hosts services of the European Parliament.



WUST

WUST is a general contractor operating in all areas of construction, mainly in Wallonia and in Brussels (Belgium) as well as in the Grand-Duchy of Luxembourg.

EUPEN COURTHOUSE EUPEN, BELGIUM

Architect Arcade Archi
Client Befimmo
Contract Build
Period 2017 - 2019

The new courthouse in Eupen has been completed in two phases (construction and renovation), taking into account strict constraints, in particular in terms of security and acoustic insulation.

VANHOUT

Vanhout is mainly active in Brussels and Flanders (Belgium) and manages various building disciplines through its subsidiaries, which include general contractors, technical companies, insulations specialists...

LOUISE MARIE ANTWERP, BELGIUM

Architect Polo Architects
Client Cores Development
Contract Build
Period 2019 - 2021

Louise Marie is a residential complex comprising two 14-storey buildings, linked by a glass screen of the same height, spanning a width of 22 metres.





01.2 MARINE WORKS

BESIX delivers marine works projects all around the world. Its activities comprise the design and build of infrastructure in eight areas of expertise: breakwaters, jetties, locks, quay walls, marinas, water intakes, shore protection and refurbishment. Recent and ongoing works include world-class projects in the Middle East, Africa and Europe, as well as in Canada and Australia.

BESIX Engineering Department has acquired an advanced and renowned expertise in marine works, enabling BESIX and its subsidiaries, including Six Construct in the Middle East and Watpac in Australia, to carry out major projects through innovative methods.

BESIX has been active in marine works for more than 100 years, starting after the first world war with the reconstruction of Belgian ports and waterways.

PORT OF DUQM
DUQM, OMAN

Client	Special Economic Zone Authority Duqm
Contract	Design & Build (Six Construct, Royal Boskalis Westminster)
Period	2017 - 2019

At Duqm (Oman), Six Construct has designed and built a 1 km quay wall and two jetties (2017 - 2019). Together with its partner Boskalis, the company has developed a 'dry' construction area under sea level, protected by large dikes of sand. After the completion of the civil engineering work, the polder was flooded using large siphons.





AIN SUKHNA PRODUCT HUB
GULF OF SUEZ, EGYPT

Client SUMED
Contract Design & Build (BESIX, Orascom)
Period 2016 - 2017

Located in the Gulf of Suez, the Ain Sukhna Product Hub is a 3 km F-shaped jetty. Once the design was completed and materials were available on site, the construction of the whole complex was completed in less than one year, three weeks ahead of schedule.



WHEATSTONE
ONSLow, AUSTRALIA

Client Chevron, Bechtel
Contract Design & Build (BESIX, Thiess)
Period 2011 - 2015

The project included two quaywalls (LoLo and RoRo) and a protective breakwater through an EPC (Engineering, Procurement and Construction) contract awarded to BEST JV, an integrated joint venture between BESIX and Thiess (Australia).



PORT INFRASTRUCTURE
IN THE UNITED ARAB EMIRATES

From 1966 onwards, BESIX has contributed to the construction of the UAE's port facilities. It comprises multiple infrastructure such as breakwaters, quays, jetties at the ports of Jebel Ali, Mina Rashid, Mina Zayed, Mina Khalid, Khor Fakkan and Fujairah among others.



PORT OF ZEEBRUGGE
ZEEBRUGGE, BELGIUM

BESIX has built multiple infrastructures at the Port of Zeebrugge over the last 70 years. These include major breakwaters, quays, jetties, storage areas as well as a lock.



BAHRAIN LNG IMPORT TERMINAL
MUHARRAQ ISLAND, BAHRAIN

Client GS E&C
Contract Design & Build (Six Construct)
Period 2015 - 2018

Six Construct built offshore infrastructure, comprising a double berth jetty and a 500 m breakwater.



LNG CANADA
KITIMAT, CANADA

Client JGC-Fluor BC LNG JV
Contract EPC (BESIX, Vancouver Pile Driving)
Period 2019 - 2021

The LNG export facility comprises the construction of a 500 m long quay wall, an LNG platform and all associated mooring and berthing structures.



MOZAMBIQUE LNG GAS DEVELOPMENT PROJECT
PALMA, MOZAMBIQUE

Client CCS JV
Contract Design & Build (BESIX, Mota-Engil)
Period 2020 - 2022

Works include the construction of the Material Offloading Facility and the LNG load-out jetty and wharf. The terminal comprises one of the world's longest jetty structures, totalling 4,600 m out at sea, four LNG loading platforms and one condensate loading platform and associated berthing and mooring dolphins for the largest LNG carriers.



PORTS OF TANGER MED
TANGIER, MOROCCO

In Morocco, BESIX built the quaywalls and backyard of both Tanger MED I and Tanger MED II. The Port of Tanger MED is the busiest container port on the African continent.



PORT OF ANTWERP
ANTWERP, BELGIUM

BESIX has carried out multiple works in the Port of Antwerp since the 1920s. Its achievements comprise storage infrastructure, dry docks, locks as well as the construction of multiple quay walls.



VISTULA SPIT SHIPPING CHANNEL
VISTULA SPIT, POLAND

Client Maritime Office of Gdynia
Contract Build (BESIX, NDI)
Period 2019 - 2022

The project includes breakwaters, quays, a 1.5 km channel, lock infrastructure with rotating bridges and sluice gates, as well as a 180 hectares artificial island. The project will make the port of Elblag accessible to larger vessels and reduce the distance between the port and the Baltic sea.



DUBAI WATER CANAL
DUBAI, UNITED ARAB EMIRATES

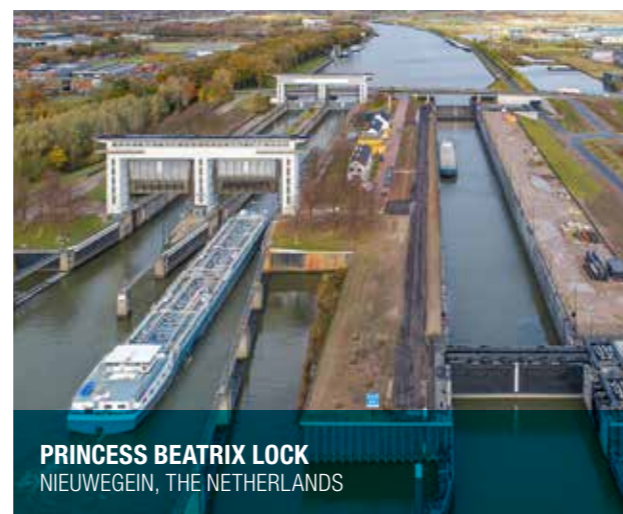
Client Dubai Roads & Transport Authority
Contract Build (Six Construct)
Period 2014 - 2016

The Dubai Canal is a 3km navigable channel. Going through high profile residential areas, as well as some of the city's main traffic arteries, the construction also required the diversion of the underground services.



LOCKS & CANALS IN BELGIUM

In Belgium, BESIX has participated to the construction of many canals, such as the 70 km Brussels-Charleroi Canal. Infrastructures built by BESIX also comprise multiple locks, including the world's second largest lock (Berendrecht), as well as the world's longest canal inclined plane in Ronquières.



PRINCESS BEATRIX LOCK
NIEUWEGEIN, THE NETHERLANDS

Client Rijkswaterstaat
Contract Design & Build (BESIX, Heijmans, Jan De Nul)
Period 2016 - 2019

The Princess Beatrix Lock is the largest inland waterway lock in the Netherlands and major link between the ports of Rotterdam and Amsterdam. BESIX contributed to the design, construction and financing of a third lock chamber, the widening of the Lek Canal and the creation of additional berths. The contract includes the maintenance of the lock complex and Lek Canal for 27 years.



DIKE REINFORCEMENT KINDERDIJK SCHOONHOVENSEVEER (KIS)
ZUID-HOLLAND, THE NETHERLANDS

Client Waterschap Rivierenland
Contract Design & Build (BESIX, Franki Foundations)
Period 2014 - 2017

BESIX and Franki Foundations participated in the reinforcement of the Lekdijk, which needed to integrate bored piles and diaphragm walls within the dike.



DAS ISLAND
ABU DHABI, UNITED ARAB EMIRATES

Client Hyundai Heavy Industries
Contract Design & Build (Six Construct)
Period 2011 - 2012

BESIX contributed to the extension of Das Island, an artificial island in the open sea. The company notably produced, transported and installed reinforced concrete blocks.



MALABO CLIFFS
BIOKO ISLAND, EQUATORIAL GUINEA

Client TEAM Equatorial Guinea SA
Contract Build (BESIX)
Period 2015 - 2017

To ward off the threat of potentially devastating landslides and protect the buildings perched on the cliffs, BESIX reinforced the cliffs with anchored retaining walls.



BESIX possesses and operates its own marine equipment, which include self-elevating platforms, dredgers, tugs, multicats, workboats, as well as crane and transport barges. The fleet is based in Ajman, in the United Arab Emirates. The marine base offers all the required facilities, such as a slipway in order to properly maintain, repair, prepare and mobilise the vessels.





01.3 INFRASTRUCTURE

BESIX builds infrastructure such as bridges, tunnels, underground car parks, airports and railway facilities. The group develops medium to large scale projects, mainly commissioned by public authorities, and in which BESIX can provide a real added value.

Besides these projects, specialized contractors owned by BESIX also carry out infrastructure works, mainly in Western Europe. These works comprise the construction of deep foundations, roads, sewer networks, cabling systems, pipelines, fibre optic installation, high voltage connections, etc.

CROWN PRINCESS MARY'S BRIDGE FREDERIKSSUND, DENMARK

Client	Vejdirektoratet (Danish Road Directorate)
Contract	Design & Build (BESIX, Rizzani de Eccher, Acciona Infraestructuras)
Period	2016 - 2019

BESIX has built an 8.2 km four-lane highway, which includes a 1.4 km bridge over the Roskilde Fjord, the first cantilevered bridge built in Denmark since 1970. All stakeholders working on the project were actively involved in LEAN sessions, which contributed to complete works 3 months ahead of schedule. The highway and bridge cross an EU Natura 2000 zone: works were therefore subject to strict environmental requirements.



SHEIKH ZAYED BRIDGE
ABU DHABI, UNITED ARAB EMIRATES

Client Abu Dhabi Municipality
Contract Build (Six Construct)
Period 2010 - 2011

Designed by Zaha Hadid, the 912 meters long and 64 meters high Sheikh Zayed Bridge has won multiple awards such as the International Road Federation's 2011 Global Road Achievement Award.



AL MARYAH ISLAND BRIDGES
ABU DHABI, UNITED ARAB EMIRATES

Client Abu Dhabi Municipality
Contract Design & Build (Six Construct)
Period 2013 - 2017

Since 2016, four bridges have eased access to Al Maryah island. BESIX designed and built them with special care for the marine ecosystem.



NORTH MANAMA CAUSEWAY
MANAMA, BAHRAIN

Client Ministry of Works
Contract Build (Six Construct, Haji Hassan Group)
Period 2010 - 2012

The North Manama Causeway is a 1.4 km viaduct which links Manama, the capital of Bahrain, with the Bahrain Bay financial district.



HERSTAL VIADUCTS
LIÈGE, BELGIUM

Client Sofico
Contract Build (BESIX)
Period 2014 - 2017

The project comprised the rehabilitation of three successive viaducts. With 100,000 vehicles per day, the project lied at a strategic point linking Belgium to the Netherlands and Germany.



SHINDAGHA CORRIDOR IMPROVEMENT PROJECT | DUBAI, UNITED ARAB EMIRATES

Client Dubai Roads & Transport Authority
Contract Build (Six Construct)
Period 2018 - 2022

As part of Shindagha Corridor Improvement Project, BESIX Group is building the Shindagha bridge, as well as two flyover bridges (466m and 792m long) and a 456m tunnel.



HAMAD INTERNATIONAL AIRPORT
DOHA, QATAR

Client New Doha International Airport Steering Committee
Contract Build (Six Construct, Midmac)
Period 2010 - 2016

In Doha, Six Construct and its partner Midmac have built the airport's new north node and its passenger terminal, as well as the concourses D and E.



DUBAI INTERNATIONAL AIRPORT
DUBAI, UNITED ARAB EMIRATES

Six Construct has participated in the construction of various infrastructures at the Dubai International Airport, including the airport's 87 metres high traffic control tower and the Cargo terminal.



TERMINAL 2E CHARLES DE GAULLE AIRPORT
PARIS, FRANCE

Client Aéroports de Paris
Contract Build (BESIX)
Period 1999 - 2003

BESIX carried out the civil engineering and structural works of the airport's Terminal 2E, as well as its 3-storey underground car park.



NORTH MANAMA CAUSEWAY
MANAMA, BAHRAIN

Client Ministry of Works
Contract Build (Six Construct, Haji Hassan Group)
Period 2010 - 2012

The North Manama Causeway is a 1.4 km viaduct which links Manama, the capital of Bahrain, with the Bahrain Bay financial district.



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SHINDAGHA CORRIDOR IMPROVEMENT PROJECT | DUBAI, UNITED ARAB EMIRATES

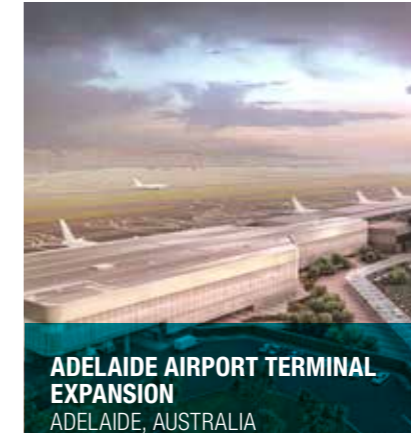
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Contract Build (Six Construct)
Period 2018 - 2022

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BRUSSELS AIRPORT
BRUSSELS, BELGIUM

BESIX contributed to the progressive extension of Brussels Airport. Over the past 25 years, these works comprised a new terminal as well as the high-speed rail connection.



ADELAIDE AIRPORT TERMINAL EXPANSION
ADELAIDE, AUSTRALIA

Client Adelaide Airport Limited
Contract Build (Watpac)
Period 2018 - 2021

Watpac is delivering a major expansion and refurbishment of the existing international terminal including baggage claim, arrivals and immigration facilities.



BRISBANE AIRPORT DOMESTIC TERMINAL UPGRADE
BRISBANE, AUSTRALIA

Client Brisbane Airport Corporation Pty Ltd
Contract Build (Watpac)
Period 2018 - 2020

Watpac has delivered multiple projects at Brisbane's domestic terminal including Stage 1 and 2 retail upgrades all within a live working environment. The team received the client's safety award, acknowledging their commitment to safety throughout works.



OVT TERMINAL UTRECHT

UTRECHT, THE NETHERLANDS

Client Prorail
Contract Build (BESIX)
Period 2010 - 2016

OVT Utrecht is a key hub in the Netherlands and the largest multimodal station in the country. Around 230,000 commuters used the terminal on a daily basis during the works.



LIÈGE-GUILLEMINS RAILWAY STATION

LIÈGE, BELGIUM

Client SNCB
Contract Build (Wust, Duchêne, Galère, CFE)
Period 2001 - 2009

Designed by Santiago Calatrava, Liège-Guillemins is a major railway station connected to the high-speed rail network. The station is particularly remarkable thanks to the highly complex white concrete formwork.

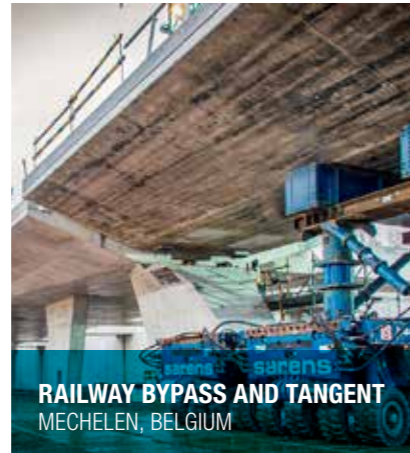


THEEMSWEGTRACÉ

ROTTERDAM, THE NETHERLANDS

Client Het Havenbedrijf Rotterdam N.V.
Contract Design & Build (BESIX, Mobilis, Dura Vermeer, Hollandia, Iemants)
Period 2018 - 2021

Theemswegtracé is a four-kilometre elevated railway viaduct comprising two metal arch bridges. This rail link will considerably improve the accessibility and connection of the port of Rotterdam.



RAILWAY BYPASS AND TANGENT

MECHELEN, BELGIUM

Client Infrabel
Contract Build (BESIX, Franki Foundations)
Period 2010 - 2016

In Mechelen, BESIX has built a total of 15 structures including major railways bridges, bridges and tunnels. The project was the last missing link of the Belgian high speed train network.



RAIL BALTICA CENTRAL STATION

RIGA, LATVIA

Client Latvian Ministry of Transport
Contract Design & Build (BESIX, Rere Buve)
Period 2019 - 2026

BESIX builds the new central station of Riga as well as a major railway bridge on the Daugava river, the railway embankments and tracks for high-speed trains.



DUBAI TRAM

DUBAI, UNITED ARAB EMIRATES

Client Roads & Transport Authority
Contract Design & Build (BESIX, Alstom)
Period 2008 - 2011

BESIX and Alstom built Dubai's tramway lines and its 13 stations. The Dubai Tram was the first tramway project outside Europe to be powered by a ground-based electric supply system.



TOOTS THIELEMANS & LEMONNIER METRO AND TRAM INFRASTRUCTURES

BRUSSELS, BELGIUM

Client STIB-MIVB
Contract Build (BESIX, Jan De Nul, Franki Construct)
Period 2020 - 2024

The project comprises the construction of metro and tram stations and tunnels. These infrastructures will improve the north-south connection of the Brussels-Capital Region.



GRAND PARIS EXPRESS SAINT-DENIS-PLEYEL

PARIS, FRANCE

Client Société du Grand Paris
Contract Build (BESIX)
Period 2020 - 2024

With 250,000 passengers every day, the Saint-Denis-Pleyel metro station will be the largest of the Grand Paris Express transport network. It will be operational for the 2024 Summer Olympics.

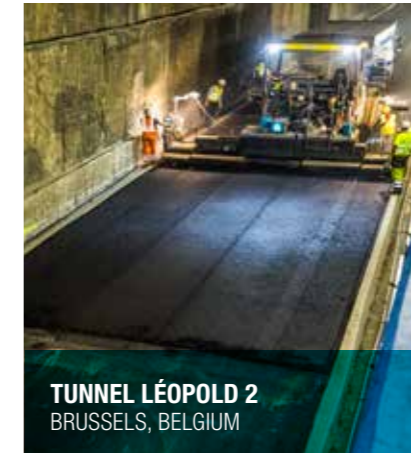


COEN TUNNEL

AMSTERDAM, THE NETHERLANDS

Client Rijkswaterstaat
Contract Design, Build, Finance & Maintenance (BESIX, Dura Vermeer, TBI, Vinci, CFE, DEMA, Arcadis)
Period 2009 - 2014 (Build)

BESIX participated in the construction of a new 1.2 km long underwater tunnel, the Second Coen Tunnel, and the renovation of the old one. The project greatly improved the accessibility of Amsterdam.

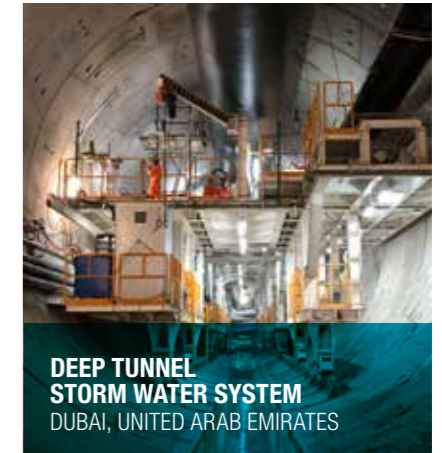


TUNNEL LÉOPOLD 2

BRUSSELS, BELGIUM

Client Brussels-Capital Region
Contract Design, Build & Maintenance (BESIX, Jan De Nul, Fabricom)
Period 2018 - 2021 (Build)

BESIX is renovating the 2,600 meters long Leopold II Tunnel, a major traffic artery of the Brussels Region. With 60,000 vehicles a day, it links the Western Belgian motorways to the capital city centre.



DEEP TUNNEL STORM WATER SYSTEM

DUBAI, UNITED ARAB EMIRATES

Client Dubai Municipality
Contract Design & Build (Six Construct, PORR)
Period 2017 - 2020

The Dubai Deep Tunnel Storm Water System is a 10 km long, 45 meters deep tunnel. With a capacity of 110 m³ per minute, it drains 40% of the entire urban area of Dubai.

Besides BESIX's projects, the group's specialised subsidiaries also develop their own projects, most often in niche sectors. Collaboration with BESIX and the group's regional subsidiaries is of course frequent.

FRANKI FOUNDATIONS

Specialized in the design and construction of deep foundations, Franki Foundations has subsidiaries in Belgium, France, the Netherlands and the United Kingdom.

WHITEHALL LONDON, UNITED KINGDOM

Client Toureen Contractors Ltd.
Contract Build (Franki Foundations)
Period 2018

Franki Foundations and its subsidiary Martello Piling constructed the piles of the Whitehall building known as Winston Churchill's Old War Office.



BESIX INFRA

BESIX Infra is a Top 5 operator on the Belgian infrastructure market, for both public and private clients. The company carries out road works, sewer networks and the construction of public spaces.

TEBEKEHOF WILRIJK (ANTWERP), BELGIUM

Client POM Antwerpen, water-link i.s.m. Aquafin, ISVAG, Stad Antwerpen
Contract Build (BESIX Infra, Van den Berg)
Period 2019 - 2021

The project consisted in the redevelopment of the business park Terbekehof.



VAN DEN BERG

Van den Berg is specialised in cable and pipeline construction, from high-voltage and fibre optic networks to horizontal directional drilling and tunnel-technical installations.

ALEGRO BARCHON, BELGIUM

Client Elia
Contract Build (Van den Berg)
Period 2018

Van den Berg carries on the ALEGRO project, connecting for the first time the Belgium and German high-voltage networks.



SOCOGETRA

Socogetra is a major operator in Belgium in road construction, civil engineering works and water treatment facilities. Socogetra also owns and operates various plants producing construction materials.

E411 HIGHWAY BELGIUM

Client Walloon Region, Sofico
Contract Build (Socogetra)
Period 2018 - 2019

For the Walloon region, Socogetra resurfaced the E411 highway, connecting Belgium with the Grand-Duchy of Luxembourg.

BESIX participates in the construction of energy-neutral infrastructure, most notably highways and tunnels, providing their own energy needs.



A16
ROTTERDAM, THE NETHERLANDS

Client Rijkswaterstaat
Contract Design, Build, Finance, Maintain (BESIX, Dura Vermeer, Van Oord, John Laing, Rebel en TBI (Mobilis, Croonwolter&dros)
Period 2019 - 2024 (Build)

In Rotterdam, the consortium 'De Groene Boog' is involved in the construction of the A16, a new motorway that includes a 100% CO₂ neutral tunnel thanks to smart solutions for the electricity, heating and lighting.



A6
ALMERE, THE NETHERLANDS

Client Rijkswaterstaat
Contract Design, Build, Finance, Maintain (BESIX, Dura Vermeer, RebelValley, John Laing Investments Ltd.)
Period 2017 - 2022 (Build)

In the Netherlands, BESIX and its partners are building the first energy-neutral highway of the country. In 2016, the project won the European Procura+ Sustainability award.

BESIX Clean Air develops panels made of mosses. This natural material serves to reduce the concentration of fine particles present in the air. This is a particularly appropriate method for improving air quality in dense atmospheres, such as tunnels, underground car parks or industrial sites. The project is subsidised by the Brussels-Capital Region Innoviris.



N434
RIJNLANDROUTE, THE NETHERLANDS

In 2019, on a pilot project basis, BESIX Clean Air panels were installed on the future N434, one of the works of the RijnlandRoute, a road infrastructure project of the Province of South Holland carried out by the COMOL5 consortium (Vinci, TBI, Deme).



01.4 ENVIRONMENT

BESIX designs and builds environmental projects, most notably in the water and energy sectors. Its achievements include major water treatment facilities, as well as waste-to-resource and hydroelectric infrastructure. In the Benelux area, in the Middle East, in Asia and in Africa, BESIX carries out emblematic projects, including some of the World's largest and most advanced facilities.

BESIX has developed a specialized expertise in these areas through its department BESIX Environment. It develops tailor-made solutions in environmental contracting. With nearly 40 years of experience, BESIX Environment has established itself as a key player in the field of water treatment and sustainable development.

Besides the design and construction of environmental projects, BESIX also offers financing, operations and maintenance services through public-private-partnerships and private-private-partnerships (see Chapter 3: Concessions & Assets).

QATRA WATER SOLUTIONS

Client Qatra Water Solutions
Contract Design, Build, Finance, Operate & Maintain (BESIX, Shurooq)
Period 2020 - 2022

Qatra Water Solutions is an example of a successful 'full life cycle' asset management project in the water business. By 2022, the project will have doubled the treatment capacity of the wastewater treatment plant. Qatra has also built a purification station which will convert the treated water into high-quality water, suitable for various uses, including industrial use. Qatra is a joint venture between BESIX (49%) and Shurooq (51%), the Emirate's investment and development authority. The joint venture develops and will operate and maintain the water infrastructures for 25 years.



JEBEL ALI SEWAGE TREATMENT PLANT
DUBAI, UNITED ARAB EMIRATES

Client Dubai Municipality
Contract Build (BESIX, Larsen & Toubro)
Period 2016 - 2019 (Build)

The sewage treatment facility treats the sewage flow originating from 3.35 million-equivalent inhabitants, and enables the city to make use of treated water for numerous irrigation and re-use purposes, in a region where water is a scarce resource.



AJMAN SEWERAGE
AJMAN, UNITED ARAB EMIRATES

Client ASPCL
Contract Design, Build, Finance, Maintain (BESIX, Six Construct)
Period 2003 - 2007 (Build)
Expansion in 2017

In 2003, the Government of Ajman and BESIX built the Emirate's sewerage system, which included the wastewater treatment plant in the Al Jurf Industrial area. BESIX further expanded the plant in 2017 and still operates it today through ASPCL, which is also now busy expanding the sewerage collection network in new areas of the city of Ajman.



SAFI WATER REUSE STATION
AJMAN, UNITED ARAB EMIRATES

Client SAFI
Contract Design, Build, Operate, Maintain (BESIX, Six Construct)
Period 2012 & Expansion in 2017

BESIX has developed and now operates a station that reuses treated water supplied by the Ajman Sewerage Treatment Plant. SAFI then provides industries and commercial businesses with quality water.



SEA WATER REVERSE OSMOSIS PLANT
DUBAI, UNITED ARAB EMIRATES

Client Dubai Electricity & Water Authority
Contract Design & Build (BESIX, Acciona Agua)
Period 2018 - 2020

The facility has a capacity of 182.000 m³/day, the first by DEWA to use Reverse Osmosis technology. BESIX has carried out all marine works, civil works and mechanical and electrical works.

DRINKING WATER TREATMENT PLANT
LA MÉ, IVORY COAST

Client PFO Africa
Contract Build (BESIX)
Period 2018 - 2020

BESIX has carried out the civil engineering works of one of the largest water treatment plants in West Africa. With a capacity of 240 million litres of drinking water per day, this project alone will produce 30% of the needs of Abidjan, which will have almost six million inhabitants in 2025.



MONARAGALA-BUTTALA IWSP
MONARAGALA-BUTTALA, SRI LANKA

Client Ministry of Water Supply
Contract Design & Build (BESIX)
Period 2014 - 2017

The plant supplies 90,000 people in Sri Lanka with high quality drinking water. Facilities include river water intake points, water tower, storage tanks as well as 100 km of pipelines.

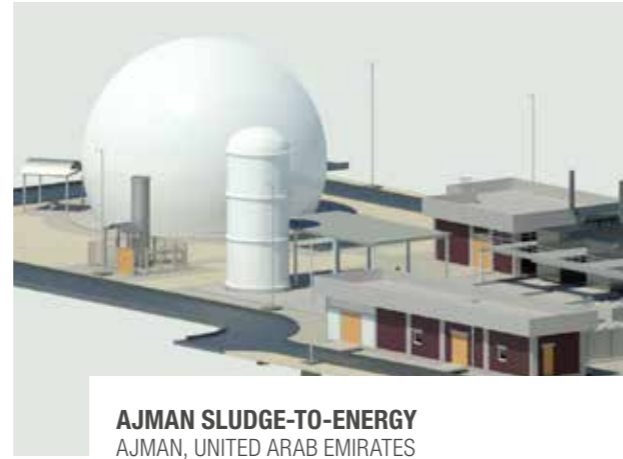




TIEL SEWAGE TREATMENT PLANT
TIEL, THE NETHERLANDS

Client Waterschap Rivierenland
Contract Design & Build (BESIX, Colsen)
Period 2017 - 2019

The project consisted of upgrading a sewage treatment plant to a 100% energy-neutral facility. The plant itself now meets its own energy needs, thanks to the installation of a sludge treatment process which produces biogas. This biogas is then used to provide heat and electricity.



AJMAN SLUDGE-TO-ENERGY
AJMAN, UNITED ARAB EMIRATES

Client ASPCL
Contract Design & Build (Six Construct)
Period 2019 - 2021

The facility will enable the wastewater treatment plant to produce green electricity and cover about 50% of its energy needs by processing the sludge it produces through wastewater treatment.



NACHTIGAL HYDROPOWER PROJECT
NACHTIGAL, CAMEROON

Client Nachtigal Hydro Power Company
Contract Design & Build (BESIX, NGE, SGTM)
Period 2018 - 2023

Financed by EDF, IFC (World Bank), the State Cameroon, Africa 50 and STOA, the Nachtigal facilities will produce 420 MW and increase by one third the national electricity production in Cameroon. The contract requires to design and build a 2km long and up to 14m high dam, a 3 km canal and the civil engineering works of the hydroelectric power plant.



WASTE-TO-ENERGY PLANT
DUBAI, UNITED ARAB EMIRATES

Client Dubai Municipality
Contract Build, Operate, Transfer (BESIX, Hitachi Zosen Inova)
Period 2018 - 2023

The facilities will convert 5,000 tons of solid waste per day to produce 171 MW per hour and power around 120,000 homes in the region. This is one of the world's largest resource recovery projects.



LANDFILL GAS-TO-ENERGY
DUBAI, UNITED ARAB EMIRATES

Client Dubai Municipality
Contract Build, Operate, Transfer (BESIX)
Period Under development

The facilities will capture landfill gas and treat it to produce 12 MW of electricity. The recovery of methane also prevents this environmentally harmful gas from escaping into the atmosphere.



EMIRATES RDF (REFUSE DERIVED FUEL)
UMM AL QUWAIN, UNITED ARAB EMIRATES

Client Ministry of Climate Change and Environment
Contract Design, Build, Operation, Maintenance (BESIX, Tech Group, Griffin Refineries)
Period 2018 - 2020 (Build)

The facility will convert the waste of 550,000 people into an alternative energy source, which will be used in cement factories as a fuel to partially replace gas or coal.

Some of the group's regional subsidiaries also develop environmental projects, in particular in Western Europe. Works comprise wastewater treatment facilities, sustainable energy infrastructures and land development.

LUX TP

With support of BESIX Environment, Lux TP has entered the wastewater treatment market in the Grand Duchy of Luxembourg. It carries out both civil engineering and electromechanical works.

BOUS
BOUS, GRAND-DUCHY OF LUXEMBOURG

Client SIDEST
Period 2019 - 2021

SOCOGETRA

Over the years, Socogetra has specialised in civil engineering works dedicated to building water treatment facilities. In recent years, the company has carried out multiple projects in this field throughout the Walloon region (Belgium).

WATER TREATMENT PLANT
MARCHE-EN-FAMENNE, BELGIUM

Client SPGE
Period 2015 - 2016

BESIX INFRA

BESIX Infra is a major operator in the Belgian infrastructure market. The company has notably achieved multiple projects in protected areas and nature reserves, such as developing habitats for vulnerable wildlife and dedicated sewer systems.

DE DOODE BEMDE
SINT-JORIS-WEERT, BELGIUM

Client Aquafin
Period 2016



FRANKI FOUNDATIONS

Franki Foundations is internationally known as an expert in deep foundations techniques. The company's expertise also extends to the construction of collection ponds as well as wind turbines' foundations.

BASSIN DES VERGNES
CLERMONT-FERRAND, FRANCE

Client Clermont Communauté
Period 2016 - 2017



01.5 SPORTS & LEISURE

BESIX and its subsidiaries have built a number of sports and leisure complexes such as stadiums and theme parks. These include major and state-of-the-art facilities in the Middle East, Europe and Australia.



AL JANOUB STADIUM
AL WAKRAH, QATAR

Client	Supreme Committee for Delivery & Legacy
Contract Period	Design & Build (BESIX, Midmac, PORR) 2016 - 2019

In Qatar, BESIX participated to the construction of the 40,000-seat Al Janoub Stadium, designed by Zaha Hadid Architects. It is one of the eight stadiums that will host the 2022 FIFA World Cup. Al Janoub Stadium ranks amongst the world's most sustainable stadiums with outstanding GSAS Class A* and GSAS 4 Star Green rating certifications.



KING ABDULLAH SPORTS CITY
DJEDDAH, KINGDOM OF SAUDI ARABIA

Client Aramco
Contract Design & Build
(Six Construct, Al Muheidib)
Period 2010 - 2013

King Abdullah Sports City, often nicknamed al-Jawharaa ('The Jewel'), is a 60,000 seat arena, spanning a total area of 3 million m². Works were completed one year ahead of schedule.



LOTTO PARK
ANDERLECHT, BELGIUM

Client Royal Sporting Club Anderlecht
Contract Build (extension, renovation - BESIX, Jacques Delens)
Multiple contracts

BESIX and its subsidiary Jacques Delens have carried out multiple works in the Lotto Park stadium, which is home to the Belgian football team R.S.C.Anderlecht.



MELBOURNE PARK REDEVELOPMENT
MELBOURNE, AUSTRALIA

Client Major Projects Victoria
Contract Design & Build (Watpac)
Period 2011 - 2012

The project included the construction of a new public plaza, indoor and outdoor courts and state-of-the-art player facilities. Works were completed three months ahead of schedule, in time to host the 2013 Australian Open, one of the four Grand Slam tournaments.



QUEENSLAND COUNTRY BANK STADIUM
TOWNSVILLE, AUSTRALIA

Client Queensland Government
Contract Build - Managing Contractor (Watpac)
Period 2017 - 2020

Watpac successfully delivered this once in a generation 25,000 seat multi-purpose stadium featuring an iconic roof inspired by the pandanus plant. This regional iconic project was delivered to exceptionally high standards maximising local employment and indigenous participation.



KHALIFA STADIUM
DOHA, QATAR

Client Qatar
Contract Design & Build (BESIX, Midmac)
Period 2003 - 2005 | 2014 - 2017

BESIX has renovated the Khalifa Stadium in 2003 - 2005 for the 2006 Asian Games. Next to the stadium, the company also built the Aspire Tower, on which the Olympic Flame was installed. BESIX expanded the Khalifa Stadium in 2014 - 2017 in order to host the 2022 FIFA World Cup.



SUNCORP STADIUM
BRISBANE, AUSTRALIA

Client Queensland Government
Contract Build - Managing Contractor (Watpac)
Period 2001 - 2003

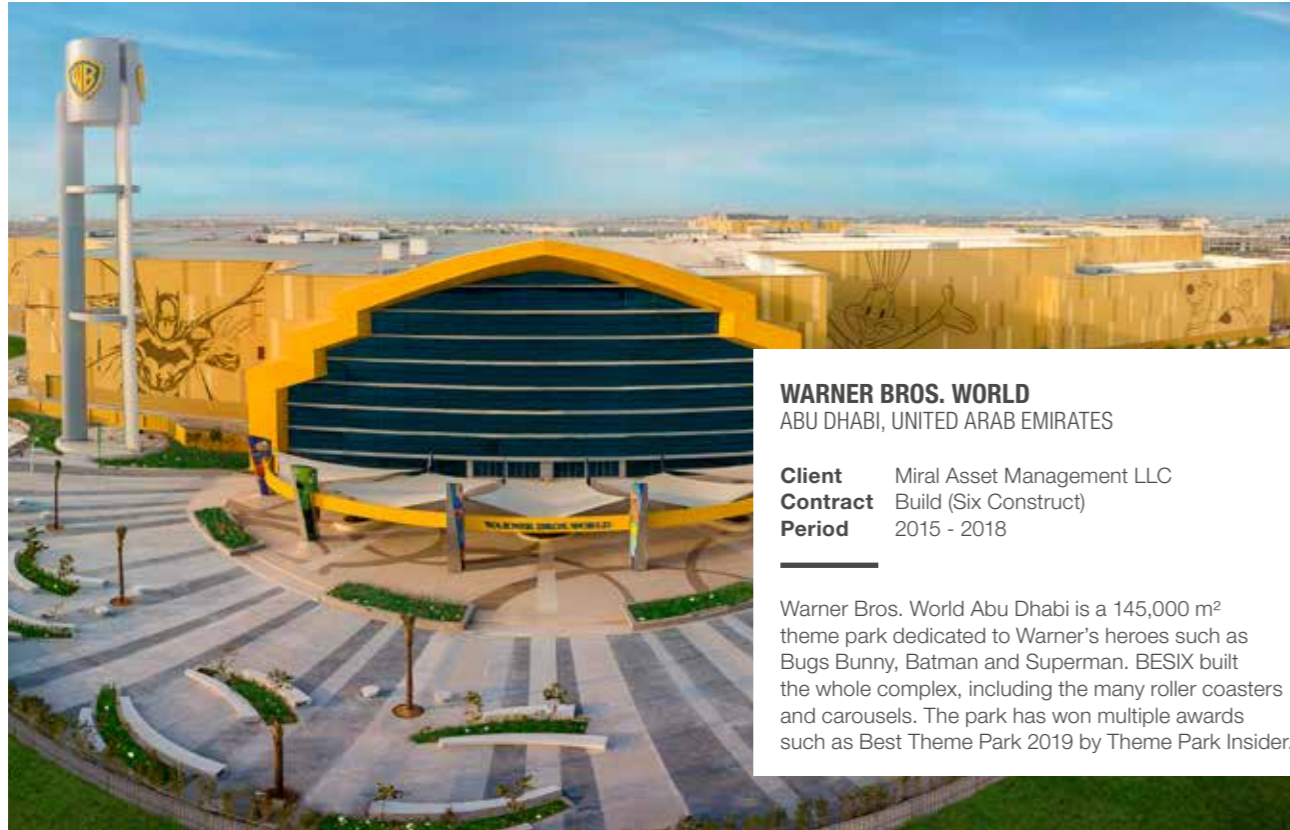
Watpac led the redevelopment of the historic football field into a world-class stadium with a capacity of 52,500 people. It notably hosted the 2017 Rugby League World Cup Final, as well as the 2019 and 2020 National Rugby League's Magic Round.



ANNA MEARES VELODROME
CHANDLER, QUEENSLAND

Client DSD / CGOC
Contract Build - Managing Contractor (Watpac)
Period 2014 - 2016

Watpac delivered the 10,000m² international-standard velodrome including roof designed to minimise the use of artificial lighting throughout the day. The facility hosted the cycling events at the Gold Coast 2018 Commonwealth Games.



WARNER BROS. WORLD
ABU DHABI, UNITED ARAB EMIRATES

Client Miral Asset Management LLC
Contract Build (Six Construct)
Period 2015 - 2018

Warner Bros. World Abu Dhabi is a 145,000 m² theme park dedicated to Warner's heroes such as Bugs Bunny, Batman and Superman. BESIX built the whole complex, including the many roller coasters and carousels. The park has won multiple awards such as Best Theme Park 2019 by Theme Park Insider.



LEGOLAND DUBAI RESORT
DUBAI, UNITED ARAB EMIRATES

Client Dubai Parks & Resorts
Contract Build (Six Construct, Orascom)
Period 2014 - 2016

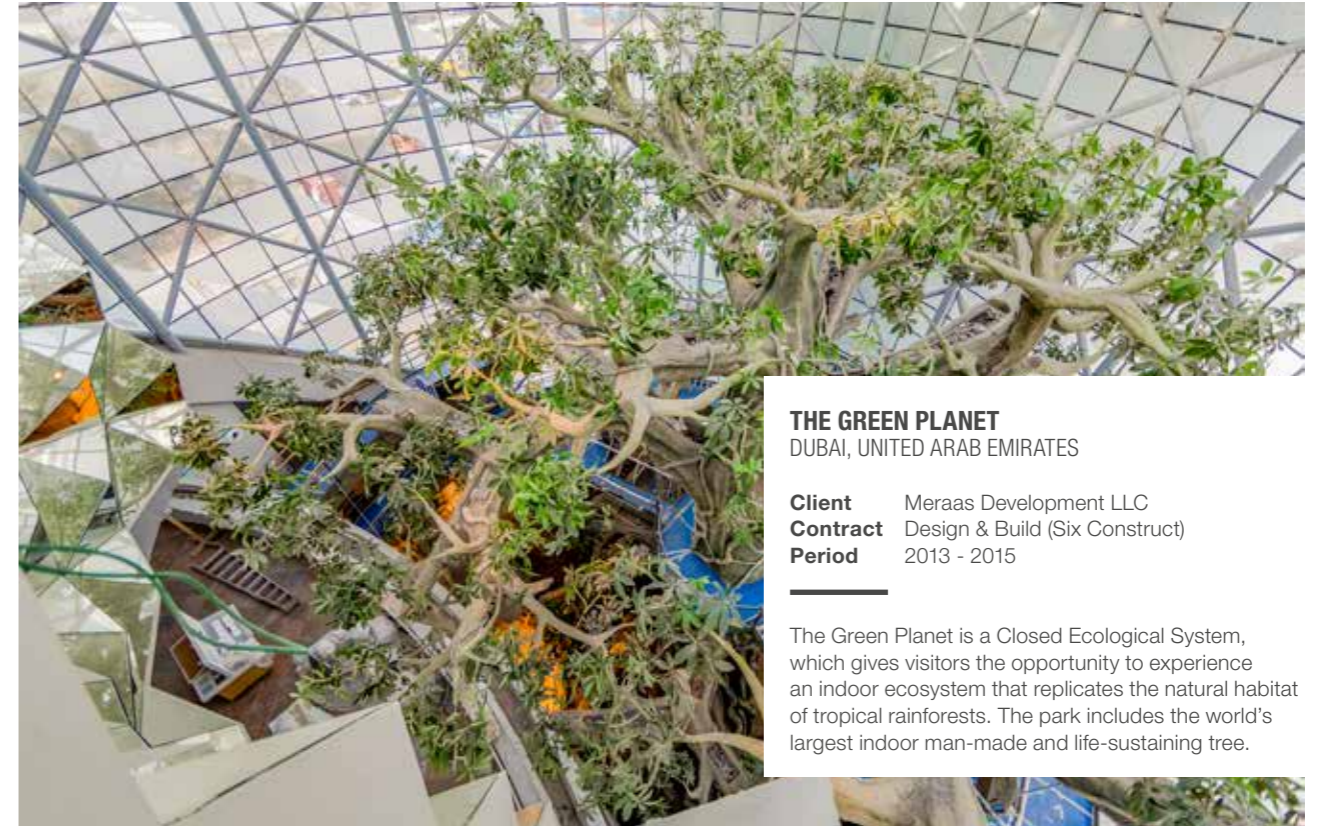
Legoland is a family theme park in Dubai, providing a wide range of indoor and outdoor rides and activities. Six Construct and Orascom built 53 buildings as well as the finishing touches and amenities.



FERRARI WORLD ABU DHABI
ABU DHABI, UNITED ARAB EMIRATES

Client Aldar Properties PJSC
Contract Build (Six Construct)
Period 2011 - 2013

Ferrari World is the first Ferrari-branded theme park and had the record for the World's largest space frame structure at the time it was built. The park notably comprises Formula Rossa, the world's fastest roller coaster.



THE GREEN PLANET
DUBAI, UNITED ARAB EMIRATES

Client Meraas Development LLC
Contract Design & Build (Six Construct)
Period 2013 - 2015

The Green Planet is a Closed Ecological System, which gives visitors the opportunity to experience an indoor ecosystem that replicates the natural habitat of tropical rainforests. The park includes the world's largest indoor man-made and life-sustaining tree.

In the Benelux, BESIX's regional subsidiaries build a wide range of leisure and sports infrastructures, such as training and sports centres, bleachers and stadiums, Olympic-size swimming pools, etc.



CIRCUIT DE SPA-FRANCORCHAMPS
STAVELLOT, BELGIUM

Architect Acte 1 and BAG
Client Intercommunale du Circuit de Spa-Francorchamps
Contract Design & Build (WUST, BESIX, BODARWÉ)
Period 2006 - 2007

The Circuit de Spa-Francorchamps is the venue of the Formula One Belgian Grand Prix and the 24 hours of Spa endurance race. Wust, BESIX and Bodarwé have notably built the new paddock building and stands, as well as adapted the racetrack to new security norms.



NEERPEDE TRAINING CENTRE
ANDERLECHT, BELGIUM

Architect AASPservaes, Pierters, Vinckx Architects
Client Royal Sporting Club Anderlecht
Contract Build (Jacques Delens)
Period 2009 - 2011

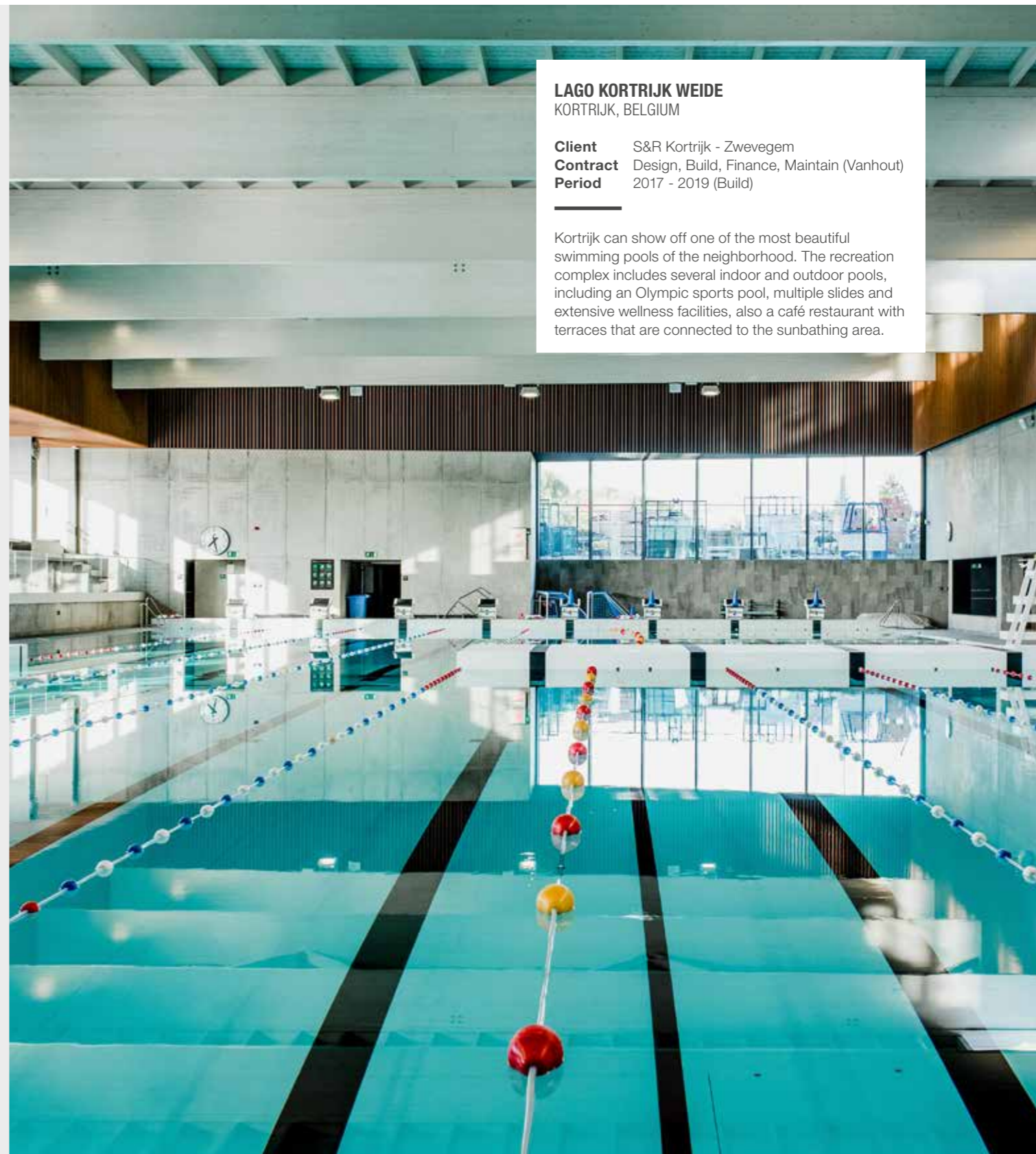
Neerpede is the training centre of Belgian football team R.S.C.Anderlecht. The complex houses state-of-the-art sports facilities, including a rehabilitation centre and, at the time it was built, Europe's largest fitness room.



ACADÉMIE ROBERT LOUIS DREYFUS
LIÈGE, BELGIUM

Architect Assar, L'Atelier Architects
Client Société de Leasing et de Financement (SLF)
Contract Build (Wust, Moury)
Period 2005 - 2007

The Académie R.L. Dreyfus is the training centre for the young and professional players of Belgian football team Standard Liège. The complex includes multiple buildings, soccer fields and various sports infrastructures, a hotel as well as fitness facilities.



LAGO KORTRIJK WEIDE
KORTRIJK, BELGIUM

Client S&R Kortrijk - Zwevegem
Contract Design, Build, Finance, Maintain (Vanhout)
Period 2017 - 2019 (Build)

Kortrijk can show off one of the most beautiful swimming pools of the neighborhood. The recreation complex includes several indoor and outdoor pools, including an Olympic sports pool, multiple slides and extensive wellness facilities, also a café restaurant with terraces that are connected to the sunbathing area.

02 REAL ESTATE DEVELOPMENT

BESIX RED is the subsidiary of BESIX Group responsible for Real Estate development. With over 30 years' experience, BESIX RED has repeatedly seized development opportunities in cities marked by a real socio-economic dynamism. Currently active in 14 cities across five European countries – Belgium, the Grand Duchy of Luxembourg, the Netherlands, Portugal and France – the company covers 3 lines of activities: Offices, Residential, Mixed-use and retail (including Hotel and services).

Strengthened by the multidisciplinary expertise of BESIX Group, BESIX RED positions itself as a large-scale project developer that brings quality of life and new dynamics into neighbourhoods; while responding to tomorrow's society on demographic, sociological and environmental levels.

In its ambition to develop sustainable buildings and meet its clients' needs, the company ensures efficient and innovative products, strategically located, offering new living, work and shopping experiences.

Driven by the desire to excel, BESIX RED surrounds itself with the most prestigious architects (Foster + Partners, BIG, Viguier, Bogdan & Van Broeck, ..). Together, they conceive iconic projects bringing a new architectural and urban dimension to city districts.

With 27 projects under development, the company holds a balanced portfolio totalling more than 600,000 m² under development.



SLUSHUIS AMSTERDAM, THE NETHERLANDS

Architects	Bjarke Ingels Group (BIG), BARCODE Architects
Developer	BESIX RED, VORM
Contractors	BESIX, VORM Bouw
Capacity	442 apartments, 39,000 m ²

Sluishuis is an exceptional new landmark in the district of IJburg, in Amsterdam, developed by BESIX RED and strong local partner VORM. The zero energy residential building of 39,000 m² integrates solutions adapted to tomorrow's new ways of living, including the use of sustainable materials, geothermal energy, rainwater recycling, solar panels and heat recovery of water and used air.

Conceived as a fully integrated water program – with a 400m-long promenade and an archipelago of four islands each fulfilling a specific function (solar panels, bird island, island for water sports activities, publicly accessible community island) - SLUSHUIS offers Amsterdam a new living experience on and around water. Completely built on water, the cantilever construction (spanning 50m in length on each side) features 442 energy-neutral apartments, a two-story underground carpark below sea-level, houseboat lots, berths for pleasure crafts, catering facilities, as well as commercial areas. A wide range of services is also foreseen, contributing to users' wellbeing.



THE COSMOPOLITAN
BRUSSELS, BELGIUM

Architect Bogdan & Van Broeck
Developer BESIX RED
Contractor Vanhout
Capacity 158 housing units, 1,500 m² of offices, 15,100 m²

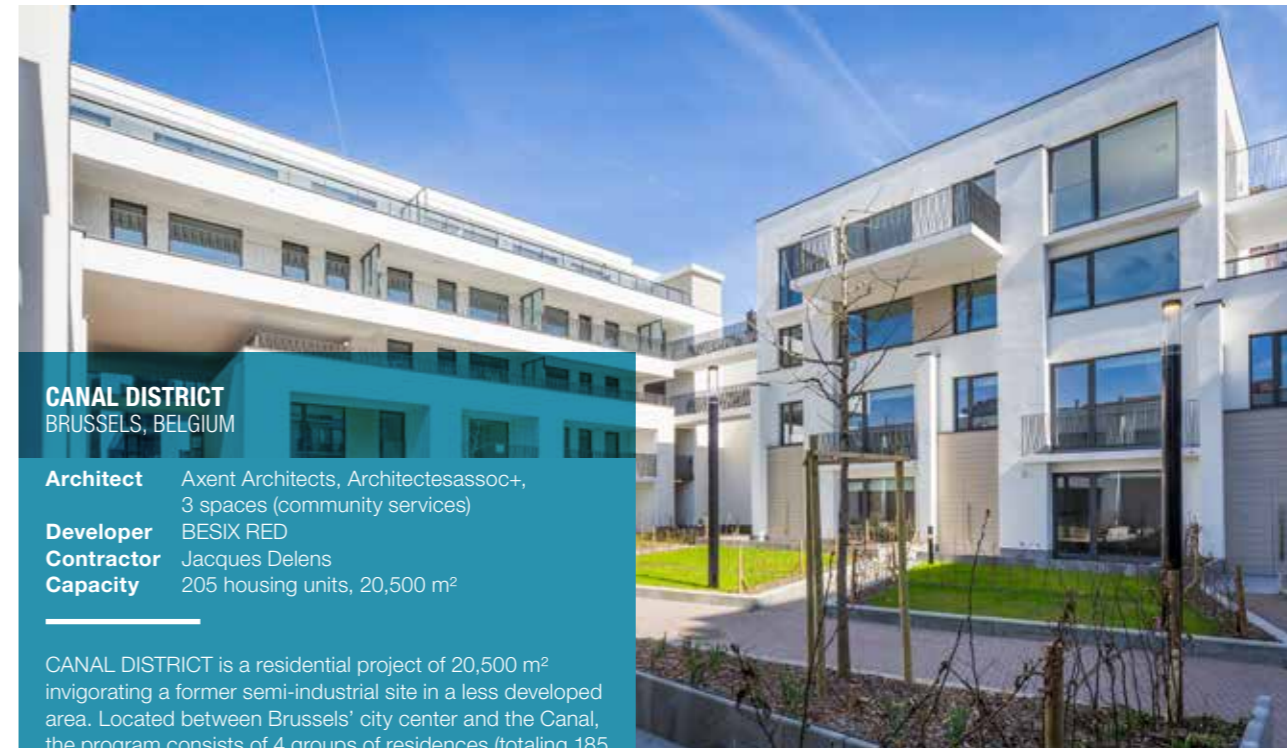
THE COSMOPOLITAN is a complete refurbishment project of an old office tower, right in the center of Brussels. The expertise of BESIX Group enabled the dismantling of the initial façade, the addition of 3 levels and the enlargement of the building with full-length terraces offering stunning views over the city.



DUNANT GARDENS
GHENT, BELGIUM

Architect Bontinck & Fretton
Developer BESIX RED, IMMOGRA
Contractor BESIX
Capacity 201 housing units, 26,400 m²

Dunant Gardens is located at walking distance from the historic centre of Ghent. The project is a combination of existing modernist architecture and contemporary elegance designed around 4 green courtyards.



CANAL DISTRICT
BRUSSELS, BELGIUM

Architect Axent Architects, Architectesassoc+,
3 spaces (community services)
Developer BESIX RED
Contractor Jacques Delens
Capacity 205 housing units, 20,500 m²

CANAL DISTRICT is a residential project of 20,500 m² invigorating a former semi-industrial site in a less developed area. Located between Brussels' city center and the Canal, the program consists of 4 groups of residences (totaling 185 apartments) and 20 houses, harmoniously installed around an inner garden, encouraging social interaction.



ESPRIT COURBEVOIE
LOUVAIN-LA-NEUVE, BELGIUM

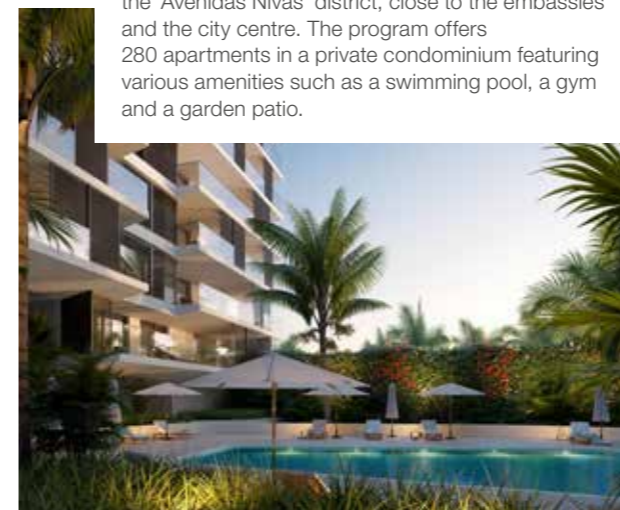
Architects Syntaxe, Montois Partners Architects,
R²D², CERAU
Developer BESIX RED, Thomas & Piron
Contractor Jacques Delens, Thomas & Piron
Capacity 500 housing units, 53,000 m²

Developed at the entrance of Louvain-la-Neuve, close to the railway station and the university, Esprit Courbevoie is a new intergenerational district. Totalling 500 housing units as well as retail and office spaces, the project combines comfortable living environment with sustainable technologies.

DUUO
LISBON, PORTUGAL

Architect Nuno Leonidas
Developer BESIX RED
Financial Investor Compagnie du Bois Sauvage
Capacity 280 housing units, 34,000 m²

DUUO is a two phased residential development located at Praça de Espanha in Lisbon, in the heart of the 'Avenidas Nivas' district, close to the embassies and the city centre. The program offers 280 apartments in a private condominium featuring various amenities such as a swimming pool, a gym and a garden patio.



SOHO
LUXEMBOURG, GRAND-DUCHY OF LUXEMBOURG

Architects Architectes Moreno, M3 Architectes
Developer BESIX RED, Soludec
Contractor Wust, Lux TP, Soludec
Capacity 150 housing units, 2,350 m² retail spaces, 17,850 m²

SOHO is a perfect example of BESIX RED's success to revitalize less established districts. This residential project, located next to the railway station of Luxembourg City, consists of 4 buildings offering 150 units, 2,500 m² office and retail spaces.





PERSPECTIVE
LILLE, FRANCE

Architect Reichen & Robert
Developer BESIX RED, Nacarat (Rabot-Dutilleul)
Contractor BESIX, Rabot-Dutilleul
Capacity 12,500 m²

Perspective is a real estate project located in the heart of the business district of the Lille metropolis. The building comprises a lettable area of 13,500 m² including one office building of 12,500 m² and 1,000 m² for commercial purposes.



CASA FERRERO
LUXEMBOURG
GRAND-DUCHY OF LUXEMBOURG

Architect Perry Weber
Developer BESIX RED, F. GIORGETTI
Contractor BESIX, WUST, LUX TP, F. GIORGETTI
Capacity 29,500 m²

Strategically located next to Luxembourg Airport, Casa Ferrero is a tailor-made office development housing the Ferrero International headquarters. Co-developed with F. GIORGETTI, the project offers 1,200 employees a new work experience. It fully embraces user interaction and wellbeing with qualitative and innovative solutions in terms of space optimization, flexibility, adapted ergonomics and the integration of new ways of working.

KONS
LUXEMBOURG,
GRAND-DUCHY OF LUXEMBOURG

Architect M3 Architectes
Developer BESIX RED, IMMOBEL, BPI
Contractor BESIX, LUX TP, CLE
Capacity 20,500 m²

Next to Luxembourg railway station, KONS is a mixed-used project sold to AXA. Besides housing the headquarters of ING Luxembourg, it comprises 2,500 m² retail area and 3,500 m² residential spaces (32 apartments).



ICÔNE
BELVAL, GRAND-DUCHY OF LUXEMBOURG

Architect Foster + Partners, Beiler François Fritsch
Developer BESIX RED
Contractor BESIX, LUX TP
Capacity 18,800 m²

ICÔNE is an office development in the Belval district dedicated to the New Way of Working (NWoW) and wellbeing. While offering the latest technologies in terms of construction and work environment (BREEAM EXCELLENT), ICÔNE encourages interaction and co-creation thanks to its concept and architecture. Next to more traditional offices, 3,000 m² are reserved for co-working spaces and 1,500 m² for restaurants and retail area. ICÔNE clearly is a reference building in terms of flexibility and space optimisation.



OXYGEN
BRUSSELS, BELGIUM

Architect Assar Architects
Developer BESIX RED
Financial Investor Compagnie du Bois Sauvage
Contractor Jacques Delens
Capacity 11,100 m²

Oxygen is high quality complex, surrounded by nature and consisting of a mixed program of 89 apartments, a ground floor of 1000 m² retail area, an office space and 100 parking units. The whole complex includes features such as high-performance triple glazing and photovoltaic panels and complies with Brussels' passive buildings certification.



ROYALE 120 | MOTEL ONE
BRUSSELS, BELGIUM

Architect Archi 2000, Victor Demeester
Developer BESIX RED
Contractor BESIX, Jacques Delens
Capacity 14,500 m²

This tailor-made hotel project is the first establishment of the German group Motel One in Brussels. With a total of 490 rooms, this hotel is one of the largest in the region and enjoys an exceptional location.

INNOVATION

BESIX RED positions itself as a pioneer in real estate innovation, focusing on digitalisation and the integration of new technologies in its developments. Its ambition is to anticipate the future needs of clients while offering them new experiences through flexible products designed to evolve over time. Considering innovation as a means at the service of the end-users, BESIX RED provides solutions and technologies that improve overall life quality and wellbeing.

PROPCHAIN

In 2019, in its ambition to diversify its activities, BESIX RED has taken a capital participation (40%) in PROPCHAIN, a Belgian start-up combining blockchain technology and secured ledger of all real estate and technical documents related to a building. This investment confirms its long-term vision of innovation as a means of serving its clients and not as a purpose.



03 CONCESSIONS & ASSETS

BESIX Concessions & Assets creates and offers tailor-made solutions covering the complete scope and lifecycle of infrastructural, environmental or building projects: design, build, finance, operate and maintain.

For Public Private Partnership - projects (PPP), BESIX C&A has the capacity to completely align to its clients' vision and expectations. It customises schemes technically and commercially to meet the client's long-term needs. With successful accomplishments in Europe and the Middle East for projects in transport infrastructure, water- and wastewater works, energy and hospitality, BESIX C&A believes that strong partnerships are key to delivering quality infrastructure benefiting the community whilst using each partner's strength.

By working in close collaboration with the Contracting business unit of BESIX, Concessions & Assets is able to undertake the most complex integrated projects, as such adding unique value by its know-how in structured financing and overall project lifecycle approach.

LIMMEL FLOOD BARRIER

Client Rijkswaterstaat
Maintenance Period 30 years

The Limmel flood barrier is an important link in the Maas Route connecting Belgium, the Netherlands, Germany and France. In partnership with Agidens, BESIX has replaced the existing flood barrier and built a brand new lock. The group is now responsible for their maintenance.





LÉOPOLD 2 TUNNEL
BRUSSELS, BELGIUM

Client Brussels-Capital Region
Maintenance Period 25 years

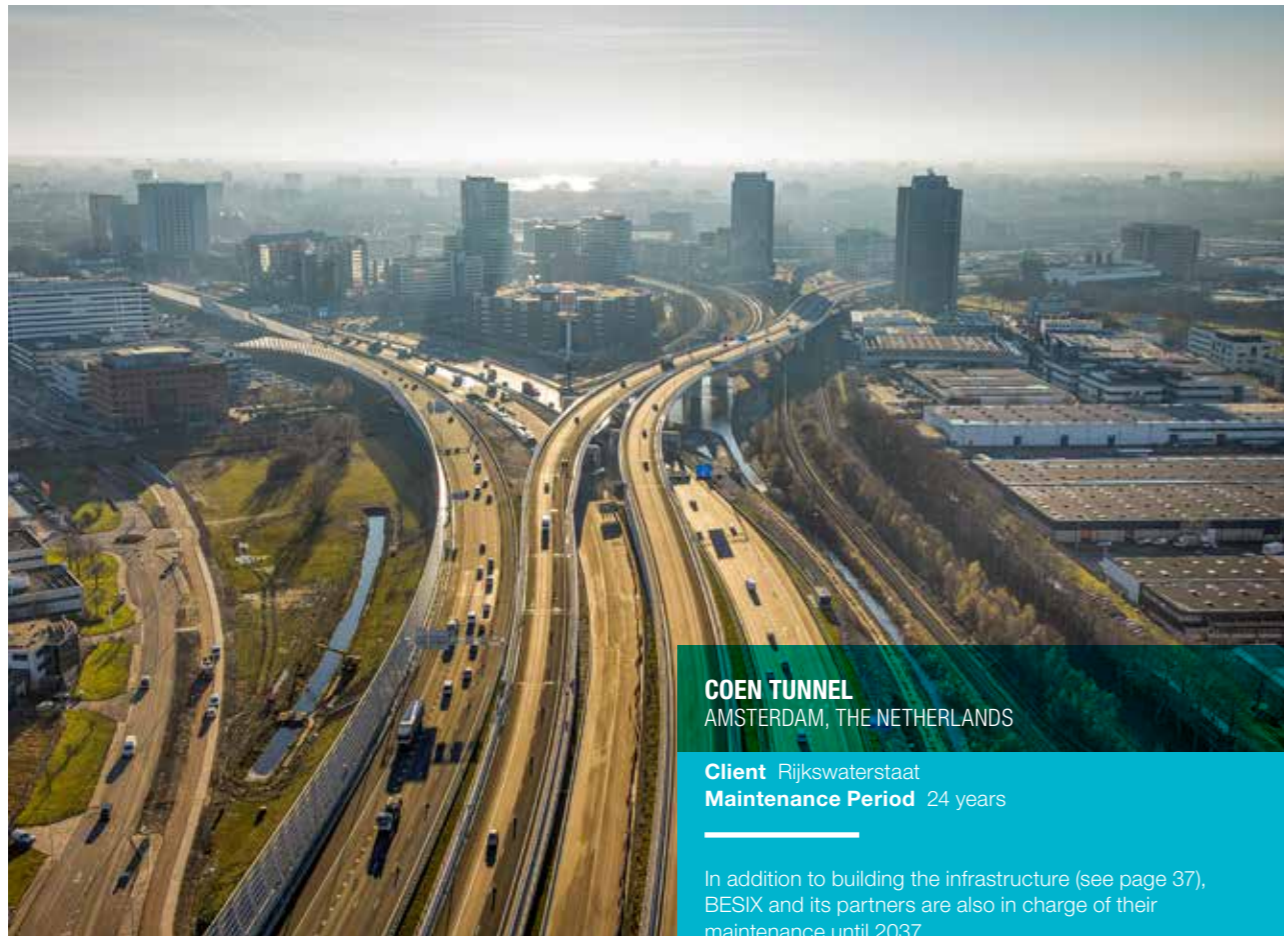
The Léopold 2 tunnel is the longest road tunnel in Belgium and a major entrance to Brussels (see page 37).



A16
ROTTERDAM, THE NETHERLANDS

Client Rijkswaterstaat
Maintenance Period 20 years

The A16 is a new motorway that also includes a 100% CO₂ neutral tunnel (see page 40).



COEN TUNNEL
AMSTERDAM, THE NETHERLANDS

Client Rijkswaterstaat
Maintenance Period 24 years

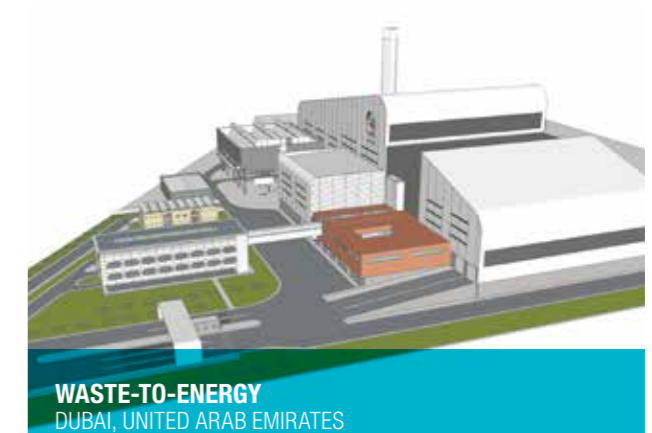
In addition to building the infrastructure (see page 37), BESIX and its partners are also in charge of their maintenance until 2037.



SAFI WATER REUSE STATION
AJMAN, UNITED ARAB EMIRATES

Client SAFI
Operations & Maintenance Period 20 years

BESIX operates a station that reuses treated water to provide industries with quality water (see page 44).



WASTE-TO-ENERGY
DUBAI, UNITED ARAB EMIRATES

Client Dubai Municipality
Operations & Maintenance Period 30 years

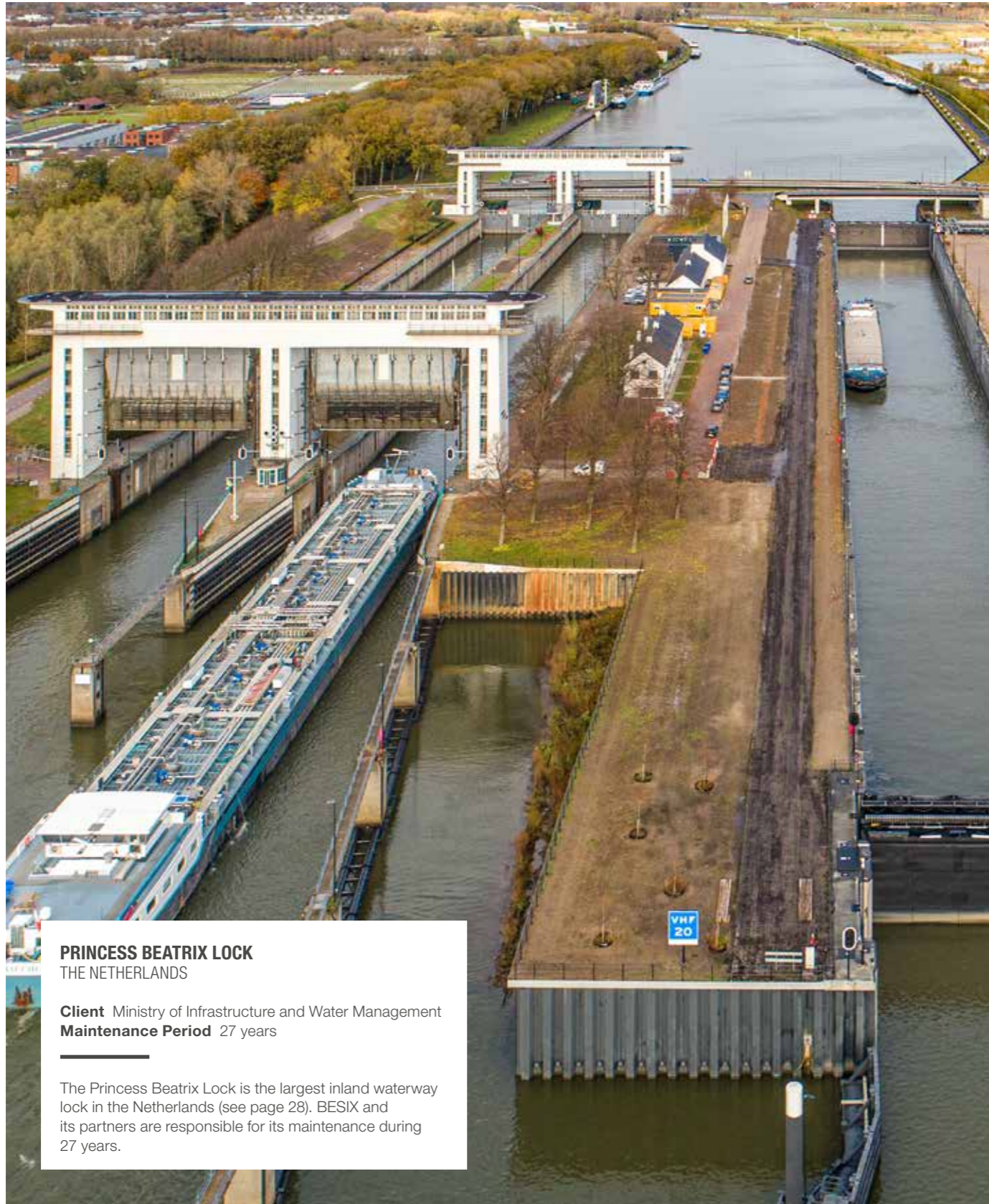
BESIX participates in the construction of the world's largest resource recovery projects (see page 47) and will operate and maintain it during 30 years.



EMIRATES RDF
UMM AL QUWAIN, UNITED ARAB EMIRATES

Client Ministry of Climate Change and Environment
Operations & Maintenance Period 15 years

BESIX is building (see page 47) and will help manage a Refuse-Derived Fuel plant in the UAE.



PRINCESS BEATRIX LOCK
THE NETHERLANDS

Client Ministry of Infrastructure and Water Management
Maintenance Period 27 years

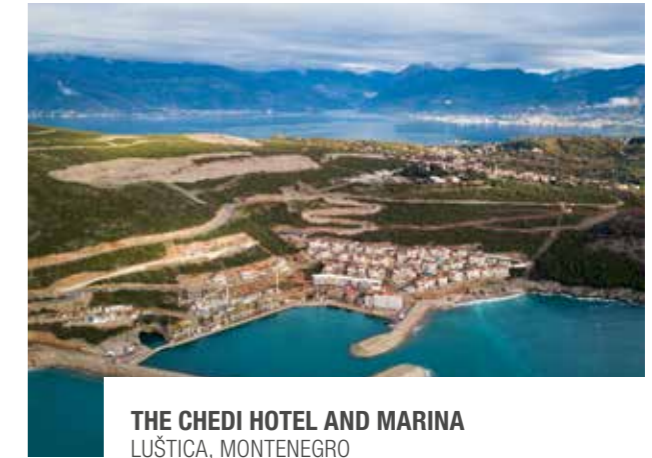
The Princess Beatrix Lock is the largest inland waterway lock in the Netherlands (see page 28). BESIX and its partners are responsible for its maintenance during 27 years.



GOTTHARD HOTEL & RESIDENCES
ANDERMATT, SWITZERLAND

Architect Germann & Achermann AG, Altdorf
Client Andermatt Swiss Alps AG

BESIX played a two-fold role in the development of the resort. The group built it (see page 20) and is also one of its shareholders through Andermatt Swiss Alps AG.



THE CHEDI HOTEL AND MARINA
LUŠTICA, MONTENEGRO

Architect tvsdesign
Client BESIX & Luštica Development

In addition to the construction of the resort (see page 20), BESIX is also co-owner of the hotel.

A-STAY

A-STAY



BESIX STAY is an innovative concept developed by A-Star Group and BESIX Group, which encompasses the development of rooms for short and extended stays around the world. It leverages the use of new technologies such as IoT, biometric recognition and extensive software algorithms to deliver added value at a low price point. Always in central urban locations, it offers a home away from home for a connected generation that is always on the move and is looking for sustainable solutions and seamless customer experiences - whether travelling for business or for pleasure.

BESIX launched the first A-STAY in the market November 15th 2019, with the opening of its first 192 room property just across the central train station in Antwerp, Belgium.

www.a-stay.com

04 DIVERSIFICATION

FLAMANT

Diversification plays a key role in maintaining the growth of an industrial group, enabling it to consolidate its positions in particular sectors or geographic markets, and to develop new business areas.

CONSOLIDATING THE GROUP'S POSITIONS

In recent years, the group has entered new countries, including Canada, Denmark or Ivory Coast among others. At sectoral level, it has also acquired a number of companies, notably in Western Europe and Australia. In most cases, these acquisitions lie within BESIX's traditional business areas. This includes vertical integrations, that is to say the acquisition of skills that complement existing expertise.

NEW BUSINESS AREAS

Some acquisitions or equity investments are sectoral diversifications in the strict sense of the term, bringing new business categories into the Group's business portfolio. In BESIX's case, these are companies whose activities do not fit into one of the many construction sector areas, nor into those of Real Estate Development and Concessions & Assets.

Two recent participations by BESIX fall into this category: Flamant and LN24.



Flamant, which BESIX acquired in May 2018, is a reputed Belgian company operating in the field of interior decoration. The company specialises in the design and sale of furniture, interior objects, lighting, upholstery, decorative items, paints, wallpapers and a variety of other products in various styles. The company runs stores in Belgium and in France. Its products are also available in more than 200 stores worldwide. Founded in 1978, Flamant has been a "Patented Supplier to the Court of Belgium" since 2007.

www.flamant.com



In October 2018, BESIX participated in the creation of Les News 24 (LN24), Belgium's first continuous news channel. Created by reputed Belgian journalists and media experts, LN24 seeks to cover the economic and political news from a constructive angle.

LN24 is available 24/7 on television and on the internet since September 2019.

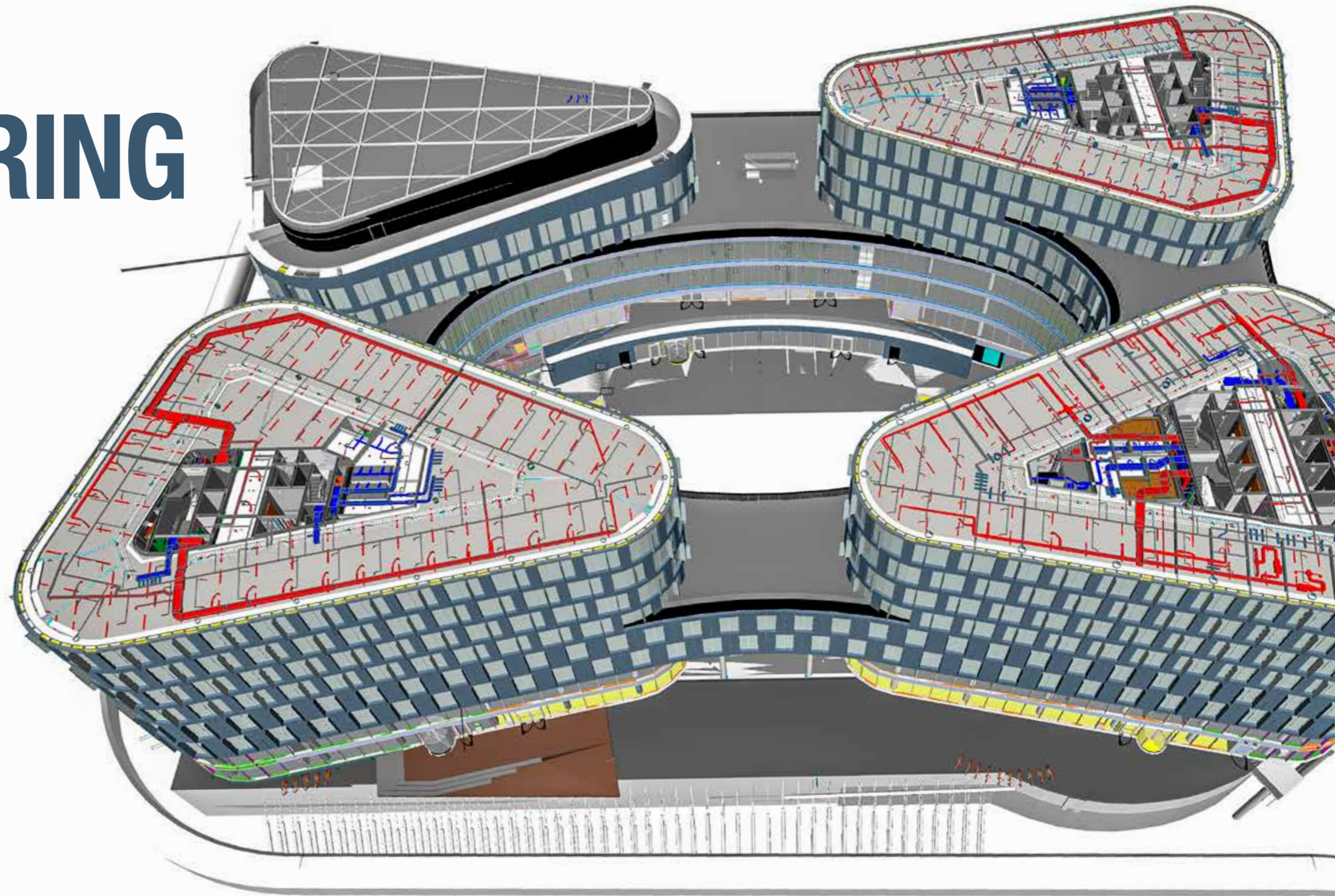
www.ln24.be

05 BESIX ENGINEERING

It is a defining characteristic of BESIX, quite unique in the construction sector. The group has its own internal Engineering department, at the forefront of contemporary technologies. It stems from BESIX's history and the group's continued interest in innovation and state-of-the-art techniques.

BESIX's Engineering Department has around 200 employees on three sites: Brussels (Belgium), Dubai (UAE) and Brisbane (Australia). This decentralized presence places the Engineering teams closer to BESIX's clients and their needs. Synergies between offices also promote optimal use of resources and skills in Design, Methods & Planning, Sustainability and Digital, which permits a high level of responsiveness to market demands.

The department's expertise derives from the exceptional know-how of its experts, for the most part academic references in their respective fields.



A diversity of expertise



The design manager

Ensures the right balance is obtained between technical, financial and cost aspects of the works and is our ambassador towards our client and the site.



The geotechnical expert

Specifies the geotechnical site investigations, analyses the results and establishes a state of the art geotechnical design.



The method and planning engineer

Ensures the constructability in terms of safety and production of our designs.



The structural engineer

Is responsible for all engineering aspects of the project, the models, drawing and verification to secure practical and buildable structures.



The BIM manager

Is responsible to set up and follow up the agreed rules to manage both geometrical (3D models) as well as non-geometrical information (specifications, codes,...).



The production centre

Takes care to produce the necessary high quality shop drawings within the agreed schedule.



The façade architect

Designs innovative façade concepts that comply with all architectural, structural, environmental and comfort requirements.



The sustainability expert

Develops concepts and solutions to improve the performance of our buildings in terms of environmental impact and energy consumption.



The concrete expert

Specifies the requirements on the concrete mix in accordance with the design and assists our sites to ensure a state of the art and durable execution of all concrete works.



A client-centric approach

Over the years, BESIX Engineering Department has developed an approach that enables it to offer unique solutions, specifically adapted and thought out for each client. As of the design phase, its experts focus on the client's briefing, requirements and objectives, which enables BESIX to propose alternatives and variants increasing the project's quality and value.

BESIX then ensures an intense collaboration between on and off site teams throughout the construction process. The Engineering department being embedded within a contractor works on its 'own' projects. This extended engagement from beginning to end ensures the client that thorough attention is paid to any detail.

Big in BIM

The BIM approach consists of creating a virtual model of the asset to be built. This significantly improves information management throughout the asset's life cycle, from design and construction to operation and maintenance.

Since 2010, BESIX has been a forerunner in the use of BIM. Its team of BIM experts has participated in a large number of projects around the world. These include the Mohammed VI Tower in Morocco, the world's largest waste-to-energy plant in the United Arab Emirates, the Al Janoub stadium in Qatar, the headquarters of BNP Paribas Fortis in Belgium as well as the Princess Beatrix Lock, the largest inland navigation lock in the Netherlands.

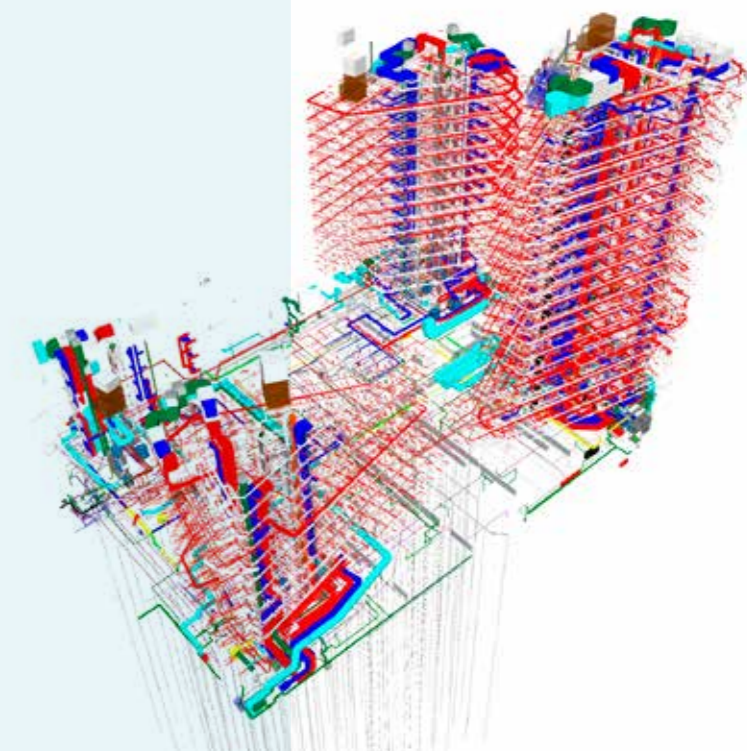
Since 2020, BESIX is ISO 19650-2:2018 certified, the world's first international standard for Building Information Modelling (BIM). In 2017, BESIX was already one of the first construction companies in Europe to be awarded the BIM Level 2 certification.



Value engineering

BESIX Engineering Department is experienced in providing 'value engineering'; that is, improving the design of a project in order to limit building costs, reduce risks, prolong a project's life span and optimise its functional objectives.

'Value Engineering' at BESIX relies on highly diversified and specialised engineering expertise, combined with the realisation of highly complex projects over the last decades.





Innovation

It is in BESIX's culture to promote innovation. In recent years, the group has developed multiple initiatives in this field, both internal and external. They aim to expose BESIX to new ideas and in doing so, give the group the opportunity to adopt them early.



The Unleash program

BESIX encourages its employees to participate in innovative initiatives. They are notably given the opportunity to submit their own ideas through the 'Unleash' innovation programme. Their ideas are presented to the Innovation Board, which selects and rewards the winning projects. Examples of winning projects are BESIX 3D (see page 24) and BESIX Clean Air (see page 41).



Start-ups accelerator

The BESIX Start-Ups Accelerator is a worldwide acceleration programme targeting mature start-ups active in the ConTech or PropTech sectors having the willingness to find new business opportunities and speed up their growth. BESIX provides them with technical resources, tailored support and opportunities for on-site experimentation. Since its creation in 2018, a new wave of start-ups has joined the accelerator each year, making it a reference in the construction sector.

Creating opportunities

BESIX promotes a culture of constant curiosity and openness for new products and services. This leads to seize or develop promising opportunities and allows for diversifying and taking on board new skills. Examples of this are the Smart Buildings that BESIX and Proximus, both leaders in Belgium in their respective areas, develop since 2018 (see page 24).



06 A GREAT PLACE TO WORK

BESIX thrives on the commitment, investment and well-being of its employees since they are the ones who make the difference. BESIX assumes that providing a great employee experience in an open community of enthusiastic colleagues is a defining factor in tomorrow's successes. The quality of working life is therefore a priority to the group. BESIX wants to be a place where its employees can fulfil their potential - professionally, personally and as a human being.

Quality of working life relies on multiple aspects, comprising the group's internal policies as well as high safety and environmental standards, applicable anywhere in the world.



Internal initiatives

Many initiatives have been taken internally together with employees to improve the quality of their working life and their opportunities for professional and personal development. These cover many areas: an improved working environment, continuing professional development, acquiring new skills, internal mobility, experience abroad. These steps, which focus on the human aspect, are essential to ensure that every employee can develop his or her talents in a stimulating environment.



Quality, Health, Safety & Environment

The main objective of the QHSE department are to develop a strong and positive culture throughout the Group. The care for Quality, Health and Safety and Environment are for BESIX Group key to fulfill our purpose: "Excelling in creating sustainable solutions for a better world". Striving for zero incidents or towards achieving quality excellence is more than 'a journey'. In our continuous efforts to detect and integrate new technologies and advanced programs, we better call it an 'adventure'.

BESIX Group is determined to go the extra mile to put those ambitions into practice with respect for its customers, staff and partners.

- **First time right:** guaranteeing delivery of projects with the right quality while respecting agreed timings. This means BESIX puts strong focus on preparation, planning, quality assurance and quality control throughout all phases of a project.
- **Excellent safety:** we insist on a robust risk management system. The process of risk management already starts in the tendering phase where the methods and assumptions included in the offer are challenged before submittal. During execution the risk assessments are reviewed by engineering together with an HSE advisor.
- **Minimizing the impact of the group's operations on the environment:** maximizing sustainability requires putting in place an environmental management program that focuses on aspects like energy consumption, waste, hazardous products, soil, etc.

One of the drivers of QHSE performance is BE SAFE. BE SAFE a Behavioural Based Safety program which was launched on a global scale in 2019.

The core concept of BE SAFE is to reinforce and grow caring values and to help our own staff as well as our subcontractors to work safely. This is done by positively influencing behaviour at work through frequent and on the spot observations and giving constructive feedback by peers. It is in fact backed up by scientific research in the field of cognitive psychology and behavioural science.

In striving for continual improvement, BESIX is certified since several years according to the following standards:

- **ISO 9001**
- **ISO 14001**
- **SCC/VCA ** 2008/5.1 (only BESIX S.A. Benelux-France region)**
- **ISO 45001**



Fair labour agreement

As a global player, BESIX bears a social responsibility. In 2018, the implementation of a framework agreement signed with Building and Wood Workers' International (BWI) began. The BWI is an international federation of 328 trade unions from 130 countries, representing 12 million workers in the construction and wood sectors. The framework agreement is based on respect for international standards and conventions in the area of human rights, specifically those of the International Labour Organization (ILO).

The framework agreement gives the BWI access to all of BESIX's sites worldwide, including workers' accommodation in countries where they are housed by BESIX. All companies worldwide can state that they respect high employment standards: BESIX demonstrates this, opens its doors to audits and insists that its partners and subcontractors sign up to this, in order to improve its own practices as well as be an agent of change in this area.

Since the agreement was signed, the BWI has carried out audit missions on BESIX's activities and workers' accommodations, in particular on those implemented for migrant workers. These audits by the BWI involve inspecting both conditions on site and workers' living conditions.

07 CITIZENSHIP & RESPONSIBILITY

Corporate Responsibility

BESIX Group wants to contribute to a safer and greener planet and build a better place to live in. The goal is to go beyond the legal requirements in the social (People), environmental (Planet) and economic (Prosperity) areas, and that on a voluntary basis. As an active member of United Nations Global Compact since 2016, BESIX Group supports the UN's 10 Principles and 17 Sustainable Development Goals.

As a global player, the Group takes into account the specificities and the environmental requirements of each country while developing its CR approach. BESIX's CR priorities are focused on four pillars:

- **People:** BESIX is committed to guaranteeing the well-being and safety of its employees. At the same time, the group wants to offer enough career development opportunities and social involvement possibilities.
- **Engineering:** BESIX's engineers strive to create sustainable building solutions.
- **Environment:** BESIX aims to minimize its impact by reducing CO₂ and waste, while attempting to attain certifications (LEED, BREEAM, ...) for its projects.
- **Business Behaviour:** BESIX Group has a commitment to purchase sustainably, to promote circular economy and to follow the codes of conduct.



In striving for these priorities, BESIX Group has to take into account 5 main challenges of its industry: climate change, society's ageing, the growing need for green buildings, the lack of green energy and drinking water and the lack of talent management.

The combination of these CR pillars with the industry challenges results in the following commitments for the Group:

- Enabling a low carbon & waste society
- Encouraging green solutions
- Taking care of respectful & sustainable operations
- Being a preferred employer
- Increasing employees' safety and comfort
- Integrating codes of conduct
- Promoting social, local and economic development



BESIX Foundation

BESIX Foundation operates in the sectors of the environment (renewable energies, waste treatment), education (literacy, vocational training) and construction (access to housing, sustainable construction). Created in 2009, it supports existing non-profit organizations, either through project financing or through skills provision.

BESIX Foundation also developed its own projects, including KiddyBuild and Right 2 Learn.

- **Right 2 Learn** organizes computer training for workers in the Middle East.
- **KiddyBuild** organises a discovery of the construction trades and coding for pupils in positive discrimination schools in Belgium.

BESIX Foundation also organizes actions within the Group, such as the BESIX Clean Up Day, which encourages employees around the world to collect waste, for example near their workplace.

Every other year, BESIX Foundation rewards one of the supported projects. This award gives the project extra financial support, but above all, recognition and publicity to the organizations, for whom this is very important.





Sheikh Zayed Grand Mosque,
Abu Dhabi, United Arab
Emirates (see page 18)

Back cover picture
Burj Khalifa, Dubai, United
Arab Emirates (see page 14)



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