EXCEL IN CREATING SUSTAINABLE SOLUTIONS FOR A BETTER WORLD
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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’ is based on six strategic drivers, five core values and above all, one global purpose, bringing BESIX’s employees together throughout the world: ‘Excel in creating sustainable solutions for a better world’.

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

Enjoy your reading,

Rik Vandenberghe, CEO of BESIX 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, Socogema 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.
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 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 Betonimm, 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 then delisted from the stock market and renamed BESIX Group. Johan Beerlandt, who had been with the company since 1974, became its new CEO. In a few 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 Vandenborgh 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 takeover bid, all the shares of construction company Wappex 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 “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 success 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.
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 Infa, Franki Foundations, Sogometra, Van den Berg).

FERARI WORLD
ABU DHABI, UNITED ARAB EMIRATES

Client  Aldar Properties PJSC  
Contract  Design & Build (Six Construct)  
Period  2011 - 2013  
Surface area  190,000 m²  
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.
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 large-scale 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 Contract, 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.
**SKYSCRAPERS**

**ADNOC HEADQUARTERS**

**Dubai, United Arab Emirates**

- **Height**: 342 metres
- **Architect**: HOK Halcrow, CH2M
- **Client**: Emaar Properties PJSC
- **Contract**: Build (Six Construct, Samsung C&T, Arabtecs)
- **Period**: 2004 - 2009

The Adnoc Headquarters is the world’s tallest skyscraper, which redifined 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**: 220 metres
- **Architect**: CICO, SIAT
- **Client**: Qatar Investment & Projects Development Holding Company
- **Contract**: Design & Build
- **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.

**180 BY DAISHO**

**Brisbane, Australia**

- **Height**: 162 metres
- **Architect**: Robert A.M. Stern
- **Client**: Daisho Co. Ltd.
- **Contract**: Build (Six Construct)
- **Period**: 2010 - 2016

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

**MAASTOREN**

**Rotterdam, The Netherlands**

- **Height**: 165 metres
- **Architect**: Dar & Partners
- **Client**: DVS Projectsontwikkeling
- **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 submargined in the river.

**FOUNDATION SOLUTIONS**

**22 BISHOPS GATE**

**London, United Kingdom**

- **Client**: Kellog, Multiplan
- **Contract**: Build (Manito Piling)
- **Period**: 2015 - 2019

Martello Piling carried out the piling works for the 278 metres tall ‘22 Bishops Gate’ skyscraper, which is set to become the second tallest tower in the United Kingdom. Martello Piling is a subsidiary of Frank Foundations, a BESIX entity specialising in deep foundations techniques since 110 years.
The Grand Egyptian Museum is the world’s largest museum dedicated to a single civilization. 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 ‘stillettos’, 30m. high downward pointing structures flanking the grand stairs.

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

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

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.

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

The buildings comprise state-of-the-art laboratories, biological and education facilities.
UTRECHT UNIVERSITY OF APPLIED SCIENCES UTRECHT, THE NETHERLANDS

Architect: Schmidt Hammer Lassen Architects
Client: Hogeschool Utrecht
Contract: Design, Build, Maintenance
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: Francis Soler Architecture
Client: SAS Immobilière du Plateau
Contract: Build (BESIX)
Period: 2013 - 2015

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 26,000m².

EDF LAB PARIS-SACLAY NICE, FRANCE

Architect: Arquitectonica
Client: SAS Immobilière du Plateau
Contract: Build (BESIX)
Period: 2019 - 2020

EDF R&D Centre is an ultramodern complex comprising four circular buildings with a total surface area of 52,000m². The building houses 1,500 researchers working on the most innovative technologies. EDF is the French national electricity supplier.

QUATUOR BRUSSELS, BELGIUM

Architect: Jaspar-Eyers
Client: BNP Paribas Fortis
Contract: Build (BESIX)
Period: 2018 - 2020

Quatour consists of four towers united by an inner garden. Offering 65,000 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, Stijfhuls & Partners
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.

EDF R&D CENTRE NICE, FRANCE

Architect: Arquitectonica
Client: SAS Immobilière du Plateau
Contract: Build (BESIX)
Period: 2019 - 2020

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PRINCESS ELISABETH ANTARCTICA UTRETHERN, NEDERLANDS, ANTARCTICA

Architect: Philippe Samy & 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.

ARThUR PHILIP HIGH SCHOOL AND PARRAMATTA PUBLIC SCHOOL PARRAMATTA, AUSTRALIA

Architect: Grimshaw Architects and BMA
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.

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BRUV + KERB ECOSCIENCES BRISBANE, AUSTRALIA

Architect: Hassell
Client: Queensland Government
Contract: Build - Managing Contractor (Watpac)
Period: 2005 - 2013

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 1,050 research staff from leading Queensland and Federal research organisations in one location.

DGP MEDIA ANTWERP, BELGIUM

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

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

Since 2016, 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.

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

**REGIONAL CONTRACTORS**

**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** Atelor 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.

**PHILHARMONIE**

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**Client** Public Building Administration

**Contract** Build

**Period** 2002 - 2005

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

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).

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.
LOCKS & CANALS

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.

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.

The Vistula Spit Shipping Channel 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 Elbląg accessible to larger vessels and reduce the distance between the port and the Baltic Sea.

PRINCESS BEATRIX LOCK
NIEUWEGEIN, THE NETHERLANDS
Client Rijkswaterstaat
Contract Design & Build (BESIX, Heijmans, Jan De Nul)
Period 2016 - 2019

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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 Elbląg accessible to larger vessels and reduce the distance between the port and the Baltic Sea.

DIKE REINFORCEMENT
KINDERDijk, Schoonhoven/Seveer (KIS)
ZUID-HOLLAND, THE NETHERLANDS
Client Waterschap Rivierenland
Contract Design & Build (BESIX, Franki Foundations)
Period 2014 - 2016

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

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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.
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

<table>
<thead>
<tr>
<th>Client</th>
<th>Vejdirektorat (Danish Road Directorate)</th>
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<tbody>
<tr>
<td>Contract</td>
<td>Design &amp; Build (BESIX, Rizzani de Eccher, Acciona Infraestructuras)</td>
</tr>
<tr>
<td>Period</td>
<td>2016 - 2019</td>
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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**

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

Designed by Zaha Hadid, the 913 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**

**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**

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

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

**HERSTAL VIADUCTS**

**Client:** SoLoCo (BESIX)  
**Contract:** Build (BESIX)  
**Period:** 2014 - 2017  

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

**SHINDAGHA CORRIDOR IMPROVEMENT PROJECT**

**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**

**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**

**Client:** Abu Dhabi Municipality  
**Contract:** Build (Six Construct)  
**Period:** 2013 - 2017  

Six Construct has participated in the construction of various infrastructures at the Dubai International Airport, including the airport's 67 meters high traffic control tower and the Cargo terminal.

**BRUSSELS AIRPORT**

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

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.

**BRISBANE AIRPORT TERMINAL UPGRADE**

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

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

**TERMINAL 2E**

**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.
Theemswegtracé (Rotterdam, The Netherlands)

Client: Het Havenbedrijf Rotterdam N.V.
Contract: Design & Build (BESIX, Alstom)
Period: 2006 - 2011

The project comprised the construction of a rail link outside Europe to be powered by a ground-based electric supply system.

Liège-Guillemins Railway Station (Liège, Belgium)

Client: SNCB
Contract: Build (Wust, Duchemine, Gaëlle, 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.

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.

Railway by-pass and Tangent (Mechelen, Belgium)

Client: Flemish Government
Contract: Build (BESIX, Franki Foundations)
Period: 2010 - 2016

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

Rail Baltica central station (Riga, Latvia)

Client: Latvian Ministry of Transport
Contract: Design & Build (BESIX, Roes Bauers)
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.

Coen tunnel (Amsterdam, The Netherlands)

Client: Dutch Government
Contract: Design, Build, Finance & Maintenance (BESIX, CFE, Deme, 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 Léopold Tunnel, a major traffic artery of the Brussels Region. With 65,000 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
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.

OVT terminal Tram (Utrecht, The Netherlands)

Client: Utilities & Transport Authority
Contract: Design & Build (BESIX, Jan De Nul, CFE)
Period: 2020 - 2024

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

Toots Thelemans & Lemonnier Metro and Tram Infrastructures (Brussels, Belgium)

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

The project greatly improved the accessibility of Amsterdam.
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.

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.

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.

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Contract Build (BESIX Infra, Van den Berg)
Period 2019 - 2021

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

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.

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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.

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.

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.

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.

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 COMOLIS consortium (Vinci, TBI, Deme).

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.

BESIX CLEAN AIR

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

<table>
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<tr>
<th>Client</th>
<th>Qatra Water Solutions</th>
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<tr>
<td>Contract</td>
<td>Design, Build, Finance, Operate &amp; Maintain (BESIX, Shurooq)</td>
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<td>Period</td>
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Qatra Water Solutions is an example of a successful “full life cycle” asset management project in the water business. By 2020, 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.
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.

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.

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.

WASTEWATER TREATMENT TREATED WATER REUSE
DESALINATION
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 IWS P
MONARAGALA-BUTTALA, SRI LANKA

Client: Ministry of Water Supply
Contract: Design & Build (BESIX)

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.
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.

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.

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.

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.

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**
Client: SIDEIST
Period: 2019 - 2021

**WATER TREATMENT PLANT**
MARCHE-EN-FAMENNE, BELGIUM
Client: SPOE
Period: 2015 - 2016

**DE DOODE BEMDE**
SINT-JOOS-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

**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).

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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  Design & Build (BESIX, Midmac, PORR)

Period  2016 - 2019

In Qatar, BESIX participated in 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.
LOTTO PARK  
ANKERLECHT, BELGIUM  
Client  Royal Sporting Club Anderlecht  
Contract  Build (extension, renovation - BESIX, Jacques Delens)  
Multiple contracts  
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.  

KHALIFA STADIUM  
DOHA, QATAR  
Client  Qatar  
Contract  Design & Build (BESIX, Midmac)  
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.  

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.  

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.  

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.  

STADIUMS  

MELBOURNE PARK REDEVELOPMENT  
MELBOURNE, AUSTRALIA  
Client  Major Projects Victoria  
Contract  Design & Build (Watpac)  
Period  2011 - 2012  

SUNRISE STADIUM  
BRISBANE, AUSTRALIA  
Client  Queensland Government  
Contract  Build - Managing Contractor (Watpac)  
Period  2001 - 2003  

QUEENSLED SPORTS CITY  
TOWNSVILLE, AUSTRALIA  
Client  Watpac  
Contract  Build - Managing Contractor (Watpac)  
Period  2014 - 2016  

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.
**THEME PARKS**

**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.

--

**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.

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**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.

--

**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.
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.

**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.

**CIRCUIT DE SPA-FRANCORCHAMPS**
STAVELOT, BELGIUM
Architect: Acte 1 and BAG
Client: Intercommunale du Circuit de Spa-Francorchamps
Contract: Design & Build (WUST, BESIX, BODARWE)
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.

**ACADÉMIE ROBERT LOUIS DREYFUS**
LIÈGE, BELGIUM
Architect: Assar, L’Atelier Architects
Client: Société de Leasing et de Financement (SLF)
Contract: Build (Wust, Moury)

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.

**NEERPEDE TRAINING CENTRE**
ANDERLECHT, BELGIUM
Architect: AASPservaes, Pieters, Verlief Architecten
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.

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.
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.

SLUISHUIS
AMSTERDAM, THE NETHERLANDS

Architects
Bjarke Ingels Group (BIG), BARCODE Architects

Developer
BESIX RED, VORM

Contractors
BESIX, VORM Bouw

Capacity
442 apartments, 39,000 m²

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 1,100m 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) - SLUISHUIS 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.
RESIDENTIAL BUILDINGS

DUNANT GARDENS
GHENT, BELGIUM
Architect  Bontinck & Fretton
Developer  BE SIX RED, IMMORGAP
Contractor  BE SIX
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.

THE COSMOPOLITAN
BRUSSELS, BELGIUM
Architect  Bogdan & Van Broeck
Developer  BE SIX RED
Contractor  Varnhoux
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 arrangement of the building with full-length terraces offering stunning views over the city.

ESPRIT COURBEVOIE
LOUVAIN-LA-NEUVE, BELGIUM
Architects  Syntaxe, Montois Partners Architects, R²D², CERAU
Developer  BE SIX 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, Espirit Courbevoie is a new intergenerational district. Totaling 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  BE SIX RED
Financial Investor  Compagnie du Bois Sauvage
Contractor  Wust, Lux TP, Soludec
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 Novas’ 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  BE SIX 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.
**ROYALE 120 | MOTEL ONE**

**BRUSSELS, BELGIUM**

**Architect**

Architect - Archi 2000, Victor Demeester

**Developer**

Developer - BESIX, Rabot Outilkeu

**Capacity**

Capacity - 12,600 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.

**PERSPECTIVE**

**LILLE, FRANCE**

**Architect**

Architect - Reichen & Robert

**Developer**

Developer - BESIX RED, Macarat (Rabot Outilkeu)

**Contractor**

Contractor - BESIX, Rabot Outilkeu

**Capacity**

Capacity - 12,600 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 13,600 m² including one office building of 12,500 m² and 1,000 m² for commercial purposes.

**CASAS FERRERO**

**LUXEMBOURG**

**GRAND-DUCY OF LUXEMBOURG**

**Architect**

Architect - Perry Weber

**Developer**

Developer - BESIX RED, F. GIORGETTI

**Contractor**

Contractor - BESIX, VAUET LUX TP, F. GIORGETTI

**Capacity**

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, this 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-DUCY OF LUXEMBOURG**

**Architect**

Architect - M3 Architectes

**Developer**

Developer - BESIX RED, IMMOBEL, BPI Contractor - IMMOBEL, BPI

**Capacity**

Capacity - 2,500 m²

of ING Luxembourg, it comprises 2,500 m² retail area and 3,500 m² residential spaces (32 apartments).

**OFFICES, RETAIL & SERVICES**

**PERSPECTIVE**

**LILLE, FRANCE**

**Architect**

Architect - Reichen & Robert

**Developer**

Developer - BESIX RED, Nacarat

**Contractor**

Contractor - BESIX, Rabot-Dutilleul (Rabot-Dutilleul)

**Capacity**

Capacity - 13,500 m²

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.

**ROYALE 120 | MOTEL ONE**

**BRUSSELS, BELGIUM**

**Architect**

Architect - Assar Architects

**Developer**

Developer - BESIX RED

**Financial Investor**

Financial Investor - Compagnie du Bois Sauvage Jean-Claude Daelens

**Contractor**

Contractor - BESIX, Luxembourg

**Capacity**

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.

**ICÔNE**

**BELVAL, GRAND-DUCHY OF LUXEMBOURG**

**Architect**

Architect - Foster + Partners, Beiler François Fritsch

**Developer**

Developer - BESIX RED

**Contractor**

Contractor - BESIX, Luxembourg

**Capacity**

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 1,300 m² for restaurants and retail area. ICÔNE clearly is a reference building in terms of flexibility and space optimisation.

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

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

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

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

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

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.
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.

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.

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

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.

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.

www.a-stay.com
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.

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**Flamant**

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

**LN24**

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

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

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 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 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. At all stages 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 construction firm on its ‘own’ projects. This extended engagement from beginning to end ensures the client that thorough attention is paid to any detail.

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.

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.
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).
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 fulfill 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 fulfil 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 aspirations 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.
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 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** organizes 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.