VINCI CONSTRUCTION | GRANDS PROJETS

BUILDING

Together for EXCEPTIONAL PROJECTS

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As the pace of urbanisation accelerates all over the world, expanding cities and urban populations are driving the need for construction and development commensurate with their growth momentum. A wide variety of high profile, complex projects including high-rises, service sector and multi-purpose buildings, housing, hotels, stadiums and hospitals are being built.

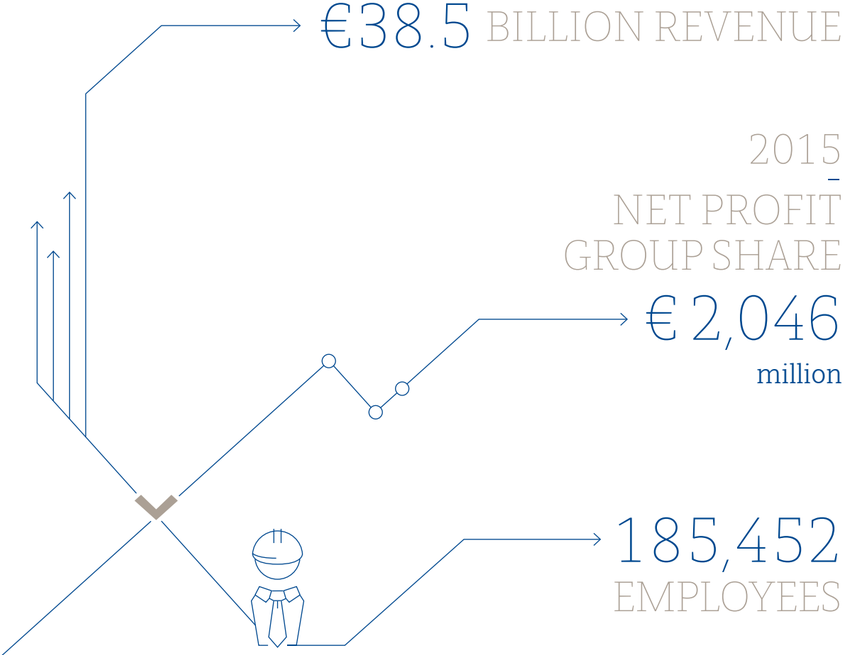
VINCI Construction Grands Projets specialises in delivering these structures. Working with the other VINCI business lines as required, we make our expertise and experience available to clients on four continents.

We design, develop, build and even finance their projects under a broad range of contract types, delivering within budget and on time and offering full guarantees with respect to the quality of the structures, the safety of those working on them and protection of the environment.

VINCI, A GLOBAL PLAYER IN CONCESSIONS AND CONSTRUCTION GROUP, HAS BASED ITS GROWTH STRATEGY FOR MORE THAN A CENTURY ON ITS INTEGRATED CONCESSION-CONSTRUCTION MODEL. EMPLOYING MORE THAN 185,000 PEOPLE IN SOME 100 COUNTRIES, THE GROUP DESIGNS, FINANCES, BUILDS AND OPERATES THE PROJECTS THAT IMPROVE EVERYDAY LIFE AND DRIVE LOCAL AND REGIONAL DEVELOPMENT (TRANSPORTATION INFRASTRUCTURE, PUBLIC AND PRIVATE SECTOR BUILDINGS, WATER, ENERGY AND COMMUNICATION NETWORKS).

THIS BUSINESS ACTIVITY, GENERATING A €38.5 BILLION REVENUE, RESTS ON THE COMBINED EXPERTISE OF THE GROUP'S TWO MAJOR COMPONENTS: CONCESSIONS (VINCI CONCESSIONS) AND CONTRACTING (VINCI CONSTRUCTION, VINCI ENERGIES AND EUROVIA).

WITHIN VINCI CONSTRUCTION, VINCI CONSTRUCTION GRANDS PROJETS SPECIALISES IN MANAGING ALL TYPES OF COMPLEX BUILDING AND CIVIL ENGINEERING PROJECTS AROUND THE WORLD.



A SINGLE INTERFACE

VINCI Construction Grands Projets combines first-rate technical capabilities and skills, the talent of an integrated team and proven experience in project management.

Offering very broad expertise and backed by a group of global dimensions, VINCI Construction Grands Projets offers full guarantees for the successful delivery of projects on time and within budget. To provide maximum flexibility, it offers contracting authorities comprehensive and customised services under a wide variety of contract types including design & build, value engineering, ECI (early contractor involvement), programme organisation and partnership agreements. This enables VINCI Construction Grands Projets to keep pace with changing markets around the world and to manage increasingly global and complex projects.

Our goal is to make the most of the chain of capabilities that underpins VINCI's outstanding reputation.

ENGINEERING: CONSTRUCTION SOLUTIONS AND TOOLS

The VINCI Construction Grands Projets engineering department keeps its expertise constantly up to date through its active research and development programme, and defines the construction solutions that best meet the creative needs of architects and best comply with regulatory requirements. It offers structural expertise covering a comprehensive range of specialised capabilities, including materials strength, concrete, metal frames, wooden structures, anti-seismic design, geotechnical, thermal and acoustic engineering and eco-design.

The engineering department also actively pursues innovation in the field of tools and methods. In one recent innovation, applied in France during the design studies phase of the Fondation Louis Vuitton building, it developed software to support dialogue between the 3D geometric mock-up and the structural engineering models.

The BIM capabilities of VINCI Construction Grands Projets have been developed to meet the most advanced standards: on-site 3D scanning, 3D-model design development and coordination, 4D construction simulation and follow-up, quantities take-off, and facility management software integration.

TRAINING: THE SKILL UP PROGRAMME

VINCI Construction Grands Projets has developed and introduced a training programme called Skill up for workers and supervisors from its local teams and subcontractors.

The customised training combines theory and practice and is given at the construction site. The Skill up programme sets up worksite schools to develop skills tailored to needs and to disseminate best practices in the areas of safety and environmental protection.

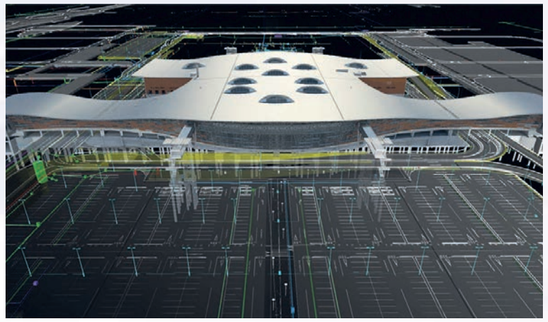
SKILL UP
BUILDING COMPETENCES

OUR CERTIFICATIONS

VINCI Construction Grands Projets obtained:

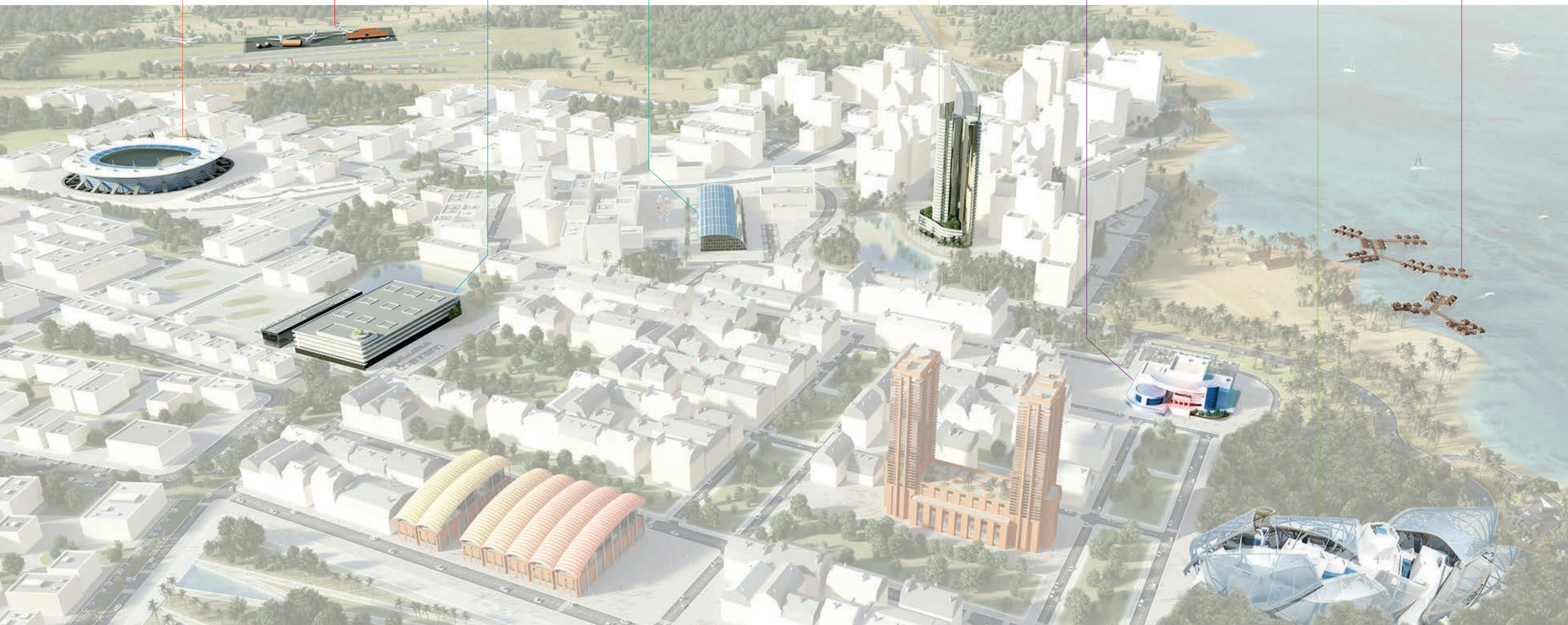
- ISO 9001:2008, AFAQ certification for the extented expertise of its constituent companies,
- ILO-OSH 2001, AFAQ certification for its health and safety management system (first large scale French company obtaining this certification),
- ISO 14001:2004, certification for its effective environmental management system.

afaq ISO 9001 Qualité — AFNOR CERTIFICATION
afaq ILO-OSH 2001 Santé Sécurité au Travail — AFNOR CERTIFICATION
afaq OHSAS 18001 Santé Sécurité au Travail — AFNOR CERTIFICATION
afaq ISO 14001 Environnement — AFNOR CERTIFICATION



NEW AIRPORT TERMINAL OF ARTURO MERINO BENÍTEZ AIRPORT
› *Santiago, Chile*

OUR EXPERTISE SUPPORTING YOUR PROJECTS



HIGH-RISE BUILDINGS

HIGH-RISE STRUCTURES MAKE AN ARCHITECTURAL STATEMENT AND CONSTITUTE A MAJOR CHALLENGE FOR THEIR BUILDERS IN TERMS OF METHODS, PHASING, INTEGRATION AND COORDINATION OF THE VARIOUS BUILDING TRADES. VINCI CONSTRUCTION GRANDS PROJETS BUILDS ON THE VINCI GROUP'S GENERAL CONTRACTING COMPETENCES AND ENGINEERING CAPABILITIES AND WORKS WITH THE CLIENT AND THE CLIENT'S CONSULTING ENGINEERS TO DEFINE CONSTRUCTION SOLUTIONS.

WE MANAGE AND EXECUTE THE PROJECT IN SYNERGY WITH THE VINCI GROUP ENTITIES AND DELIVER INTEGRATED SOLUTIONS.

BERJAYA TIMES SQUARE

› *Kuala Lumpur, Malaysia*

All trade construction of a commercial and residential complex. In 2003, it was the world's largest building ever built all in one block and in a single stage. A complex project with the installation of an indoor roller coaster and a mixed steel-prestressed concrete structure.

- Architects: **DP Architects & Arkitek Daya Reka**
- **2 towers** of **200 m high**
- **46 storeys**
- Podium: **250 m long**
- **700,000 sqm**
- Construction period: **91 months**

BERJAYA CENTRAL PARK
› *Kuala Lumpur, Malaysia*

Turnkey construction contract for the first phase of the Berjaya Central Park which includes a Ritz Carlton serviced residence tower and Bangkok Bank tower. The package 1 building works is targeted to meet CONQUAS score of 80 and Green Mark Gold.

- Architects: **A&A Architects Sdn. Bhd. & UIG Architects Sdn. Bhd.**
- Podium: **9 storeys**
- Office tower: **46 storeys**
- Residential tower: **48 storeys**
- **185,000 sqm**
- Construction period: **61 months**

RESIDENTIAL TOWERS JESSELTON
› *Kota Kinabalu, Malaysia*

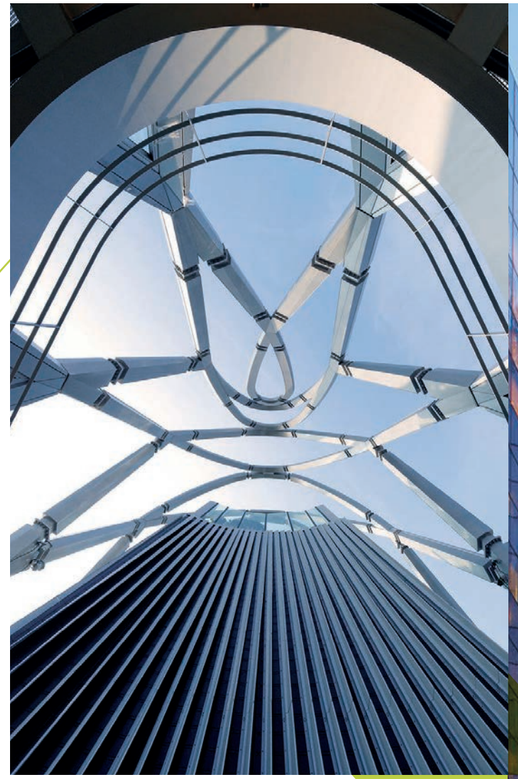
General contractor for the construction of a mixed-use development on the seafront which involves two level basement where waterproofing works is crucial.

- Architects: **Arkitek Billing Leong & Tan Sdn Bhd**
- Basement: **2 levels**
- Podium: **7 storeys**
- **3 towers** with **20 storeys** each
- Commercial centre
- **125,000 sqm**
- Construction period: **20 months**

ODEON TOWER
› *Monaco*

The highest skyscaper in Monaco. The very limited space for construction in an high density urban space forced us to have a very precise logistics organisation. High technicity of construction and short schedule led to construct the tower in top-down with high safety standards.

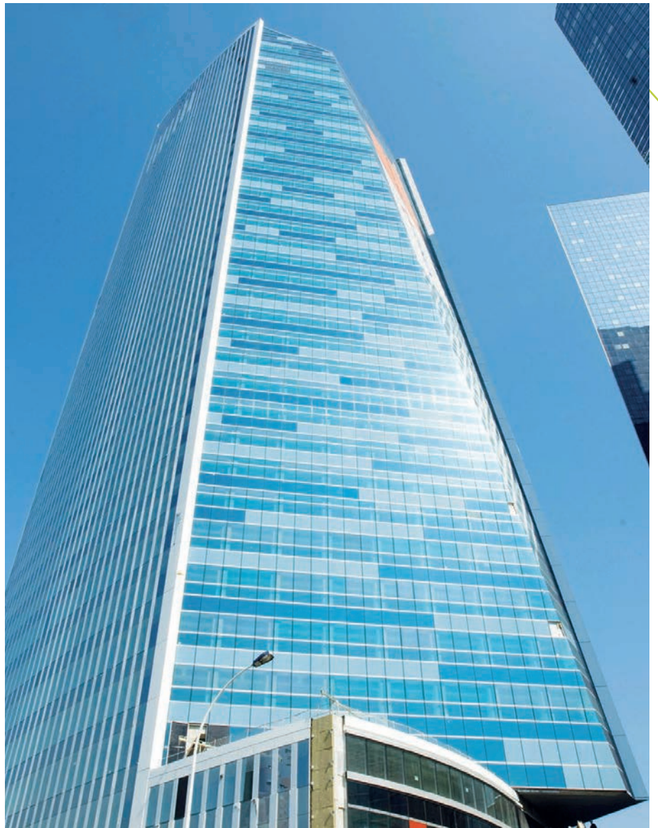
- Architect: **Alexandre Giraldi**
- High: **170 m**
- **87 storeys**
- **10 levels** below ground
- Construction period: **70 months**



D2 TOWER
› *Paris, France*

General contracting basis and environmentally certified project (BREEAM very good). It has involved installing 54 tie rods on the wall of the circular road, in order to allow the demolition of an access ramp and the clearing of the site. The superstructure is a mix between concrete for the core and steel for the facade.

- Architects: **Anthony Béchu & Tom Sheehan**
- Height: **150 m**
- **37 storeys**
- **55,000 sqm**
- Construction period: **36 months**



GRANITE TOWER
› *Paris, France*

The highest of a 3-tower complex built by VINCI Construction companies. The architectural design of the tower led to find a solution for the auto-climbing formwork. The project was in a very dense urban area (La Défense business district) and needed a strong logistics organisation.

- Architect: **Christian de Portzamparc**
- High: **183 m**
- **45 storeys**
- **106,000 sqm**
- Construction period: **28,5 months**

OFFICE BUILDINGS

IN THE SERVICE-SECTOR BUILDING MARKET, VINCI CONSTRUCTION GRANDS PROJETS SPECIALIZES IN LARGE AND COMPLEX BUILDINGS.

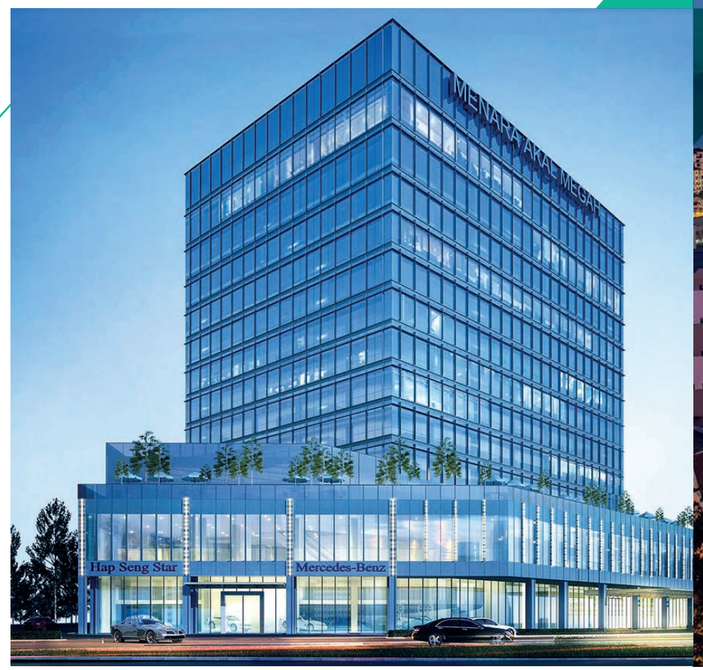
AT A TIME WHEN THIS TYPE OF BUILDING PRESENTS STRINGENT REQUIREMENTS (SECURITY AND ACCESS CONTROL, COMMUNICATION NETWORKS, LOW-ENERGY BUILDING STANDARDS, ENVIRONMENTAL CERTIFICATION, ETC.), WE DRAW ON OUR ENGINEERING RESOURCES AND OUR SYSTEMS APPROACH, WHICH INCLUDES BUILDING AUTOMATION SYSTEMS, TO MEET THEM. THE SOLUTIONS WE OFFER ARE THE KEY TO ACHIEVING OUTSTANDING PERFORMANCE AND TO MEETING THE MOST EXACTING ENERGY EFFICIENCY AND ENVIRONMENTAL QUALITY CERTIFICATION STANDARDS.

EUROPEAN INVESTMENT BANK

› *Luxembourg*

Design and construction contract. All efforts were deployed to respect environmental protection requirements and ensure that the new building would be the first building in Luxembourg and continental Europe to be awarded the mark of 'Very Good' in accordance with the BREEAM method: it was in 2008.

- Architects: **Ingenhoven Architekten**
- **8 storeys**
- **72,500 sqm**
- Construction period: **29 months**



MENARA HAP SENG TOWER

› *Kota Kinabalu, Malaysia*

Design and construction of a Grade A tower office in Borneo with a Mercedes Benz showroom and retails shop on podium. The building is certified as LEED Silver rating building.

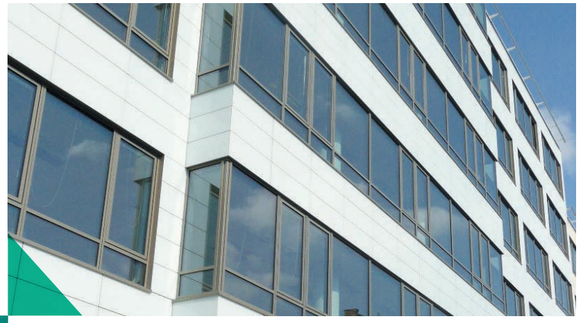
- Architects: **Arkitek KOPA Sdn. Bhd. & UIG Architects Sdn. Bhd.**
- Car park: **4 underground levels**
- Podium: **3 storeys**
- Office tower: **10 storeys**
- **65,000 sqm**
- Construction period: **25 months**

MYSLBEK BUILDING

› *Prague, Czech Republic*

Design and construction contract of a high standing office building with shops on a general contracting basis.

- Architects: **Jestico + Whiles**
- Car park: **4 basements**
- **7 storeys**
- **44,000 sqm**
- Construction period: **32 months**



PALAC TESNOV

› *Prague, Czech Republic*

Design and construction of an office building on one level of car park. It is composed of 2 buildings linked by a central 'bridge' building.

- Architects: **Peter and Franta Associés**
- **20,000 sqm**
- Construction period: **21 months**

EMBASSY OF FRANCE

› ***Jakarta, Indonesia***

Construction of new French embassy campus including 2 buildings: 6-storey Embassy Tower and 5-storey French Institute tower linked by a 2-storey podium.

- Architects: **Segond-Guyon Architectes**
- Towers: **6** and **5 storeys**
- Podium: **2 storeys**
- **7,400 sqm**
- Construction period: **18 months**

PLACE VICTORIA TOWER

› ***Bucharest, Romania***

Design and construction contract of a 24-storey building in a very strong seismic zone. The superstructure of 20 floors was built in 6 months using a climbing core formwork.

- Architects: **Galmard Architects**
- **3 underground levels**
- Podium: **2 storeys**
- **18 storeys**
- **34,670 sqm**
- Construction period: **22 months**

HOTELS

VINCI CONSTRUCTION GRANDS PROJETS HAS ACQUIRED EXTENSIVE REFERENCES IN THE HIGH-END HOTEL SECTOR, AND ESPECIALLY IN TURNKEY PROJECT DEVELOPMENT.

THROUGHOUT THE WORLD WE BUILD ON OUR FAMILIARITY WITH THE LOCAL ENVIRONMENT AND THE HOTEL BUSINESS, WORKING WITH PROMINENT ARCHITECTS AND LARGE HOTEL OPERATORS. WE MAKE THE MOST OF OUR EXPERIENCE TO OPTIMIZE THESE PROJECTS ACCORDING TO THE DESIGN AND COMFORT STANDARDS OF EACH HOTEL COMPANY AND THEN DELIVER THEM, GENERALLY UNDER DESIGN AND BUILD CONTRACTS.

FOUR SEASONS HOTEL

› ***Prague, Czech Republic***

The project, located in the heart of the old town, includes 5 buildings: 3 existing buildings UNESCO listed, which have been renovated keeping only the original facades, and 2 new buildings linked to the other ones.

- Architects: **Loxia A.S.**
- **160 rooms** and **suites**
- Construction period: **26 months**

LE MÉRIDIEN BORA BORA HOTEL

› *Bora Bora, French Polynesia*

General contractor for the construction of a 4-star hotel with 83 bungalows on piles (17 on the land), restaurants and technical buildings.

- Architects: **Cabinet Tricard Architecte**
- **100 bungalows**
- Construction period: **21 months**

LE MÉRIDIEN TAHITI HOTEL

› *Tahiti, French Polynesia*

General contractor for the construction of 12 bungalows and 9 buildings (swimming pool with sandy bottom).

- Architects: **Cabinet Tricard Architecte**
- **138 rooms**
- Construction period: **21 months**

LE MÉRIDIEN JAKARTA HOTEL

› *Jakarta, Indonesia*

Turnkey construction of a 5-star hotel. 396 keys with 28 suites, basement car park, swimming pool, health club, squash, tennis, 3 restaurants and a banqueting hall.

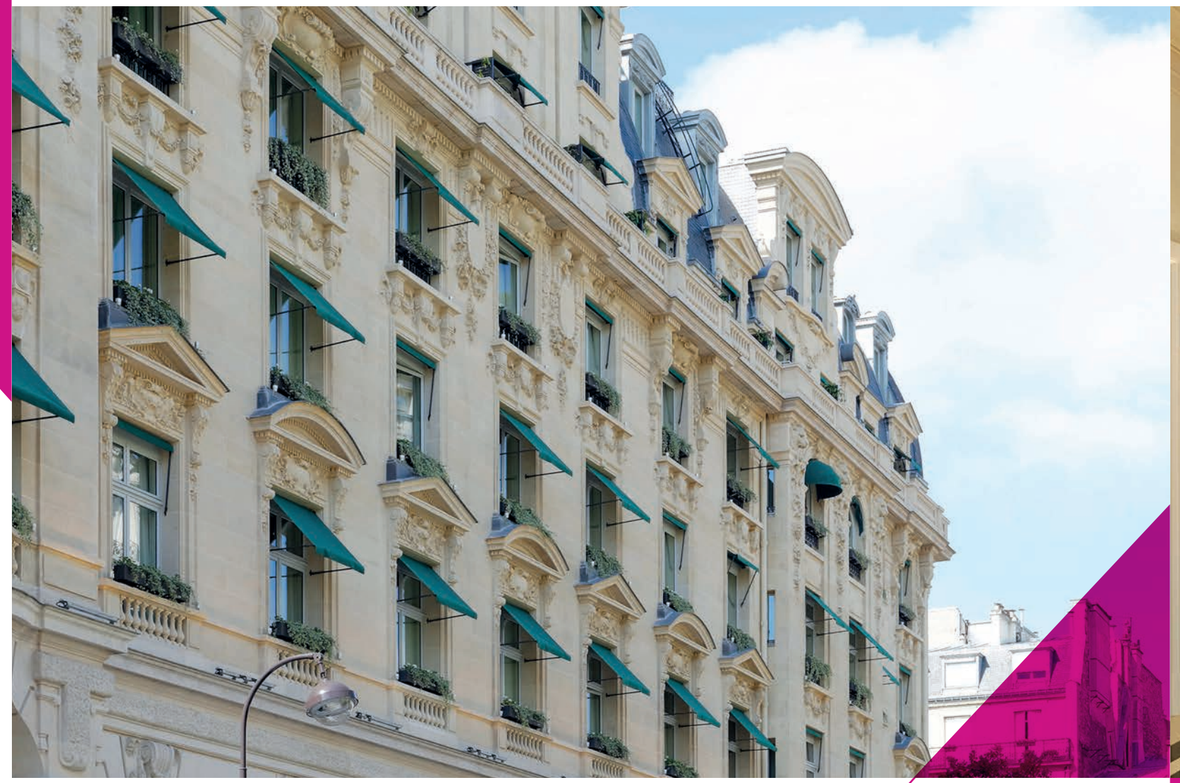
- Architects: **Atelier 6**
- **396 guest rooms**
- Construction period: **42 months**

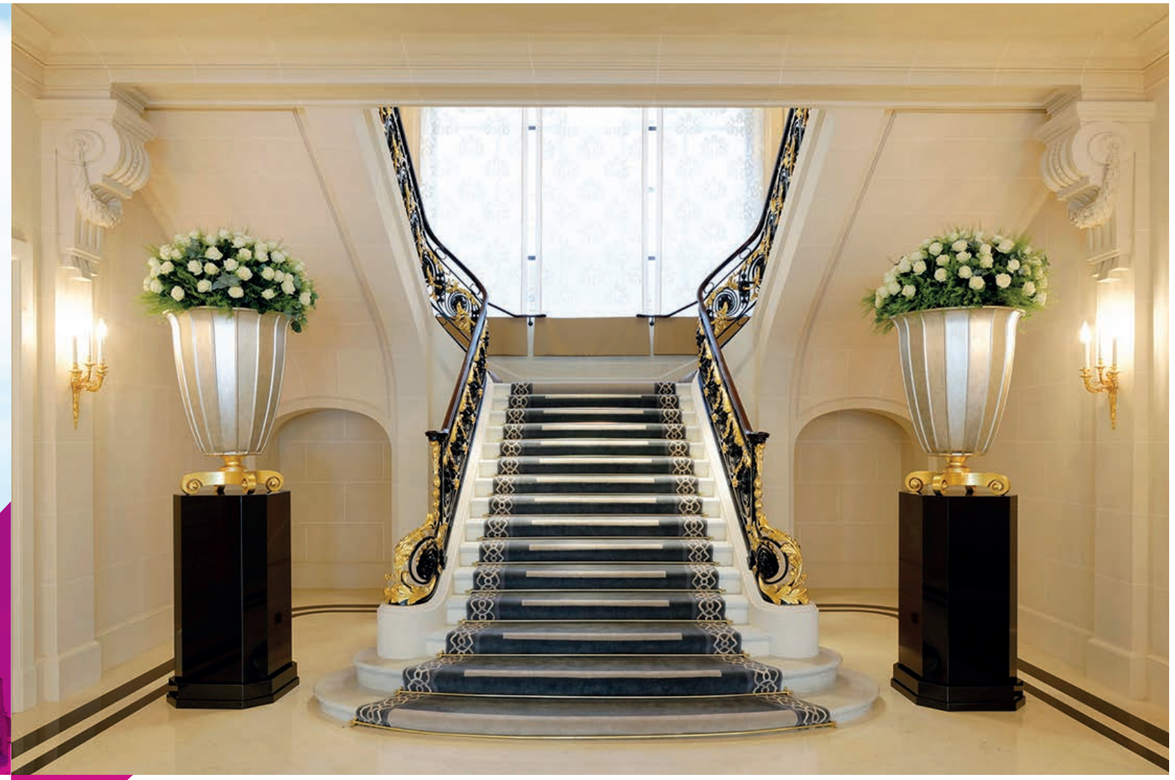
MANDARIN ORIENTAL, PARIS HOTEL

› *Paris, France*

Transformation of an office building into a 5-star hotel. The historical facade had to be preserved and an environmental certification has been reached.

- Architects: **Jean-Michel WILMOTTE & Associés**
- **140 rooms**
- Construction period: **31 months**





ROYAL VICTORIA DOCK HOTEL

› *London, United Kingdom*

Design and construction of a 12-storey hotel in London.

- Architects: John Seifert and Associate
- 535 rooms
- 27,000 sqm
- Construction period: 25 months

THE PENINSULA PARIS HOTEL

› *Paris, France*

Major redevelopment and total transformation of the former Majestic Hotel. The building, in classical style and dating from the Belle Epoque period (early 20th century), has been transformed into a 5-star hotel.

- Architects: AFFINE DESIGN Architecture
- 200 rooms
- 6 storeys + lobby
- 3 underground levels
- 44,000 sqm
- Construction period: 36 months

MELIÁ PARIS LA DÉFENSE HOTEL

› *Paris, France*

Construction of 4-star hotel in La Défense for Meliá Hotels International Group. The hotel is located on the 'Parvis' and needed strong organizational and technical skills to construct above the 'la Défense' ring-road and several technical existing galleries under the building as well as logistical solutions for deliveries in the district.

- Architects: Vasconi & associés
- 25 storeys
- 369 rooms
- 24,000 sqm
- Construction period: 31 months

MUSEUMS

DEDICATED TO ART, MODERN MUSEUMS HAVE BECOME WORKS OF ART IN THEIR OWN RIGHTS, REQUIRING THEIR BUILDERS TO INNOVATE IN ORDER TO IMPLEMENT THE CREATIVE INTENT OF THEIR ARCHITECTS. THE SAME APPROACH BASED ON UNDERSTANDING AND RESPECT IS APPLIED TO RESTORATION OF HERITAGE STRUCTURES.

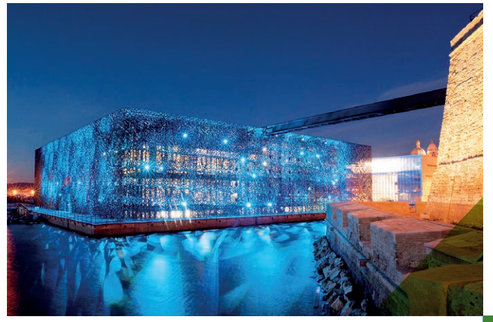
WHATEVER THE PROJECT TO BE DESIGNED AND BUILT, VINCI CONSTRUCTION GRANDS PROJETS HAS THE EXTENSIVE CAPABILITIES AND EXPERIENCE REQUIRED, FROM INNOVATIVE SOLUTIONS AND TECHNIQUES SUCH AS THE BUSINESS INFORMATION MODELING (BIM) PROCESS. USED IN THE FONDATION LOUIS VUITTON BUILDING.

FONDATION LOUIS VUITTON

› *Paris, France*

For this extremely complex structure, Building Information Modeling (BIM) type organisation was implemented to give the 5 design offices involved in the structural engineering, and later the suppliers and subcontractors, access to the data and enable them to exchange information.The project adopted an exemplary environmental programme and was selected as a pilot project during the drafting of a new High Environmental Quality (HQE) guidance document dedicated to cultural buildings.

- Architect: **Frank Gehry**
- Height: **46 m**
- **9,500 sqm**
- Construction period: **18 months**



MUCEM
› *Marseille, France*

A technical tour de force that revolutionises concrete construction. Its use of a very strong material, UHPFRC (ultra high performance fibre reinforced concrete) allows for substantial flexibility. The material, developed entirely in France, reduces the building's environmental footprint and supports a short production chain.

- Architects: **Rudy RICCIOTTI & Roland CARTA**
- Bridge: **136 m long foot**
- Auditorium: **400 seats**
- **3,700 sqm**
- Construction period: **36 months**

CONFLUENCES MUSEUM
› *Lyon, France*

A long building with an atypical shape is made up of a steel frame 'cloud' and a glass 'crystal' floating 8 metres above a concrete foundation challenging the laws of construction. The entire construction process is geared to rigorously achieving the geometric design by the architecture firm. The success of this project required the coordination of some 10 design offices and the combination of state-of-the-art expertise such as VINCI Construction metal framing capabilities.

- Architects: **Coop Himmelb(l)au**
- **22,000 sqm**
- Construction period: **36 months**

LA CITÉ DU VIN
› *Bordeaux, France*

La Cité du Vin aims to introduce and to share with an international public the culture of wine-making. Built to reach environmental certification, its upper level features a panoramic restaurant and a belvedere – with a torus (a rounded moulding) curling around its base.

- Architects: **XTU Agency**
- Auditorium: **250 seats**
- **13,350 sqm**
- Construction period: **36 months**

SHOPPING CENTERS & PUBLIC SPACES

VINCI CONSTRUCTION GRANDS PROJETS HAS A WELL-GROUNDED EXPERTISE BASED ON ITS LONGSTANDING TRACK RECORD IN THIS HIGH ADDED VALUE SECTOR.

EVERY PROJECT STARTS WITH THE UNDERSTANDING OF THE CLIENT'S CHALLENGES AND CONSTRAINTS IN TERM OF MARKETING, FLEXIBILITY OF THE PREMISES, AND TIME SCHEDULES. VINCI CONSTRUCTION GRANDS PROJETS TAKES ALSO INTO ACCOUNT THE NEEDS OF THE TENANTS IN THE DESIGN, AND DELIVERS THE PREMISES IN ANTICIPATION TO ALLOW THE TENANTS TO BE READY AT THE DATE OF THE OPENING OF THE SHOPPING CENTER.

THE TERRASSES DU PORT MALL

› ***Marseille, France***

Creation of a retail centre within the biggest business district of south Europe - Euromediterrannée, next to the Port of Marseille. The tight schedule compelled us to build the structure with the top and down method.

- Architects: **A4 Architecture**
- **230,000 sqm** including:
  - **61,000 sqm** of shops
  - **2,800** car park spaces
- Construction period: **36 months**

ORHIDEEA MALL
› *Bucharest, Romania*

The centre opened to the public a year after building operations began, on the site of a former dump area, which needed full soil substitution.

- Architects: **BIP**
- **Carrefour supermarket and 56 shops**
- **28,000 sqm**
- Construction period: **13 months**

FEERIA MALL
› *Bucharest, Romania*

Real estate development and turnkey contract for the construction of this shopping centre. The total package involves all the stages of design and management, from finding the land, land permission to handover of the building.

- Architects: **SPA Consulting**
- Car park: **1,650 vehicles**
- Hypermarket: **15,460 sqm**
- **34,600 sqm**
- Construction period: **12 months**

ASHGABAT CINEMA
› *Ashgabat, Turkmenistan*

First and only cinema in Ashgabat, which includes a 3D movie theater.

- Architect: **Ya. Azizova**
- **5,000 sqm**
- Construction period: **13 months**

CASSOVIA MALL
› *Cassovia, Slovakia*

Design-build contractor, covering all aspects of the operation. From land identification to design, construction and commercialisation.

- Architects: **4a Architects**
- **Supermarket: 13,000 sqm**
- **30,000 sqm**
- Construction period: **12 months**

PITER RADUGA MALL
› *St. Petersburg, Russia*

Design and construction contract for the construction of a commercial centre, including a *Do It Yourself* center and a cinema.

- Architects: **Groupe H**
- Car park: **3,500 vehicles**
- **75,000 sqm**
- Construction period: **28 months**

FELICIA MALL
› *Iasi, Romania*

Real estate developement, design and construction, on the former site of a factory, with demolition and depolution of the land.

- Architects: **SPA Consulting**
- **Car park: 1,000 vehicles**
- **30,000 sqm**
- Construction period: **12 months**

DANUBIA MALL
› *Bratislava, Slovakia*

Real estate development and turnkey contract for the construction of this shopping centre. The total package involves all the stages of design and management, from finding the land through to hand-over of the finished building. The company has acted as advisor and provided technical support to developer.

- Architects: **Bogar Kralik Urban**
- **Car park: 1,800 vehicles**
- **40,000 sqm**
- Construction period: **11 months**

HOSPITALS

THROUGH ITS DESIGN AND BUILD SOLUTIONS, VINCI CONSTRUCTION GRANDS PROJETS EXPORTS FRENCH MEDICAL EXPERTISE AROUND THE WORLD.

WE FOCUS ON FUNCTIONALITY AND OVERALL ECONOMIC FEASIBILITY, WORKING WITH PARTNERS SUCH AS SURGEONS, DOCTORS AND SPECIALIZED ARCHITECTS TO DEVELOP THE DESIGN, OPTIMIZE THE PROJECT, AND GUARANTEEING ON-BUDGET, ON-TIME DELIVERY. FROM THE FIRST DESIGN STUDIES ONWARDS, WE CALL ON THE TECHNICAL CAPABILITIES OF VINCI ENERGIES AND LOCAL CONTRACTORS TO ANTICIPATE AND RESOLVE THE INTEGRATION ISSUES THAT CAN BE ESPECIALLY COMPLEX IN THE HOSPITAL SECTOR.

KOUTIO MULTI-MEDICAL CENTER

› *Nouméa, New Caledonia*

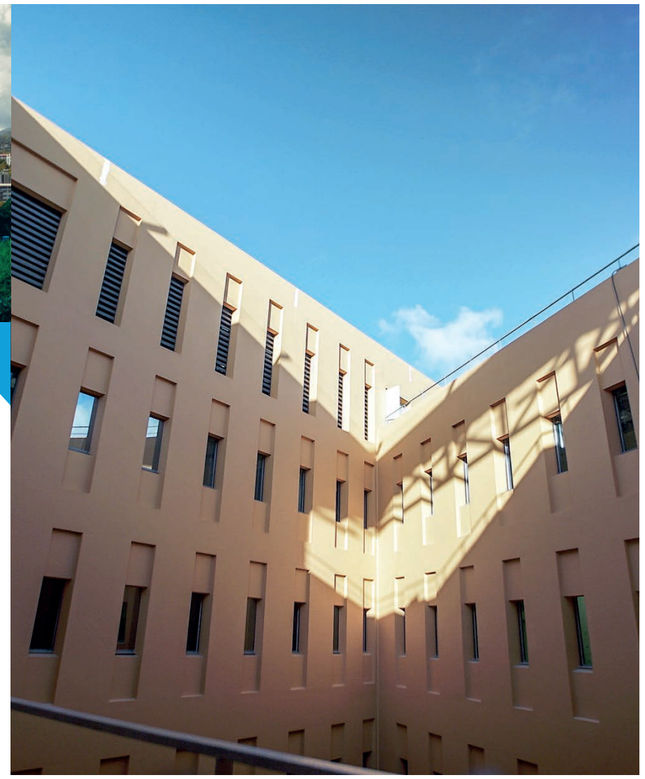
The largest ever carried out public project in New Caledonia and in the Pacific region brings together at a single site the facilities of the hospital centre (CHT) that was previously spread over 4 different locations. The centre is structurally designed to accommodate alterations and expansion to meet future health care needs; it is also the region's first public facility to achieve High Environmental Quality (HQE) certification. A challenge in terms of logistics, since most of the equipments came from France, 22,000 kilometres far from the site.

- Architects: **Michel Beauvais & Archipel**
- **650 beds**
- **82,000 sqm**
- Construction period: **48 months**

TOULON HOSPITAL
› *Toulon, France*

General contractor for the construction of this hospital. The VINCI subsidiaries' expertise was a prime factor in securing the contract: building a hospital does require the best possible coordination of the construction work and the electrical and climate control engineering.

- Architects: **BRUNET-SAUNIER Architecture**
- **40,000 sqm**
- Construction period: **42 months**



LA MEYNARD HOSPITAL
› *Fort-de-France, Martinique (France)*

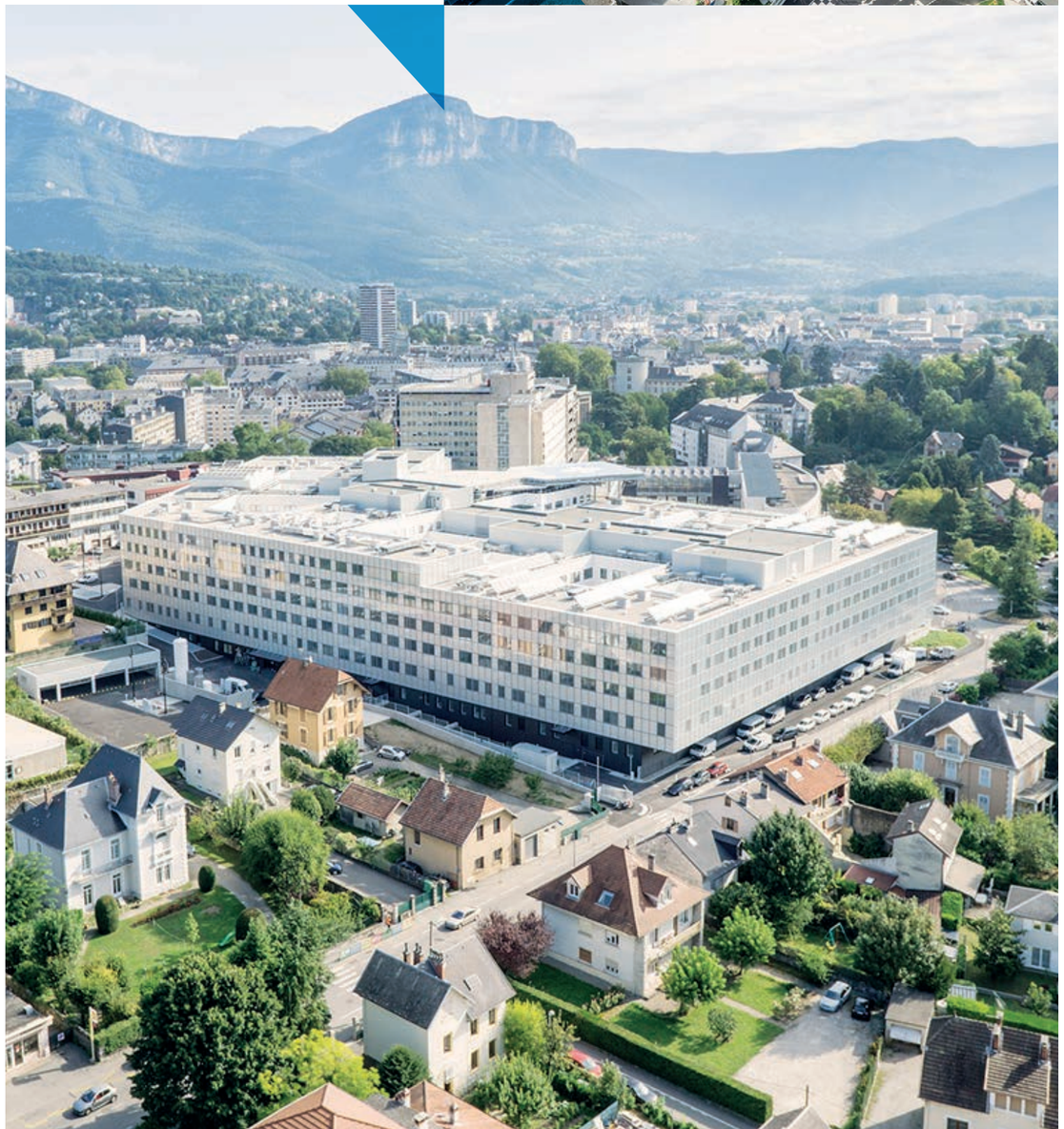
Construction of a new building to host 13 surgery blocs with last up to date technology. In order to ensure the establishment can continue to operate in the event of an earthquake, the building's structure will rest on 300 insulators that totally separate it from its foundations.

- Architects: **Bernard CABANNES, SCAU Architectes**
- **40,000 sqm**
- Construction period: **40 months**

CHAMBÉRY HOSPITAL
› *Chambéry, France*

Design and construction project won with the expertise of several VINCI's subsidiaries. The construction will be High Environmental Quality (HQE) certified.

- Architects: **BRUNET-SAUNIER Architecture**
- **671 beds**
- **73,000 sqm**
- Design & construction period: **49 months**



STADIUMS

WHEN IT WORKED WITH A TEAM OF RENOWNED ARCHITECTS SOME 20 YEARS AGO TO DESIGN AND BUILD THE STADE DE FRANCE, VINCI CONSTRUCTION GRANDS PROJETS INTRODUCED A NEW GENERATION OF VERY HIGH CAPACITY, VERY SAFE SPORTS ARENAS BUILT IN ACCORDANCE WITH CIVIL ENGINEERING PRINCIPLES.

THESE MODULAR, MULTI-PURPOSE FACILITIES CAN SERVE AS VENUES FOR ALL TYPES OF PUBLIC GATHERINGS SUCH AS CONCERTS, SHOWS AND CORPORATE EVENTS. THE HIGH-PROFILE STRUCTURES DRIVE BUSINESS DEVELOPMENT IN THE AREAS WHERE THEY ARE LOCATED. THEY CAN BE BUILT UNDER PUBLIC PRIVATE PARTNERSHIPS, AS EXEMPLIFIED BY THE STADE DE FRANCE, THE MMARENA IN LE MANS, INAUGURATED IN 2011, AND THE NICE, BORDEAUX AND LYON STADIUMS, BUILT IN THE RUN-UP TO THE 2016 UEFA EUROPEAN FOOTBALL CHAMPIONSHIP.

MATMUT ATLANTIQUE STADIUM

› ***Bordeaux, France***

Design and construction of this facility, within a very short period to be ready to host the UEFA Euro 2016. The project stands out for its social dimension: the number of integration-through employment hours worked largely exceeded the 63,000 hours written into the contract.

- Architects: **Herzog & de Meuron (Groupe-6 Agency)**
- **42,000 seats**
- Construction period: **30 months**

MMARENA STADIUM
› *Nice, France*

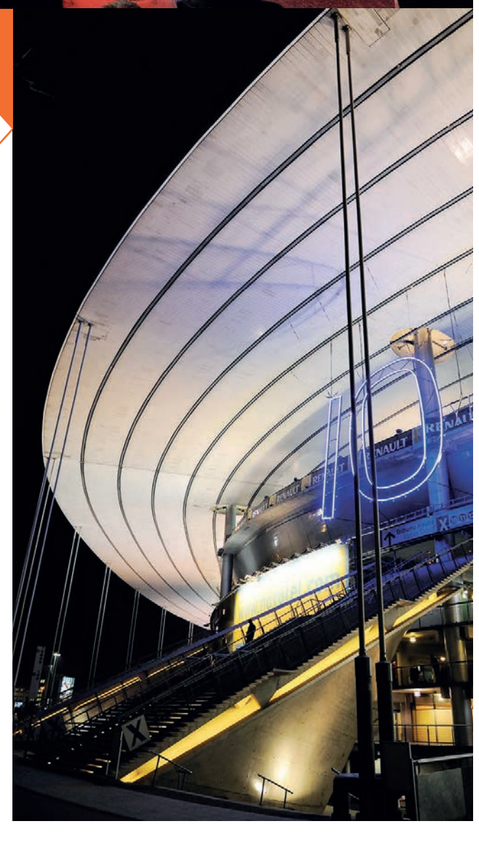
Design and construction of this stadium. The roof is supported by 27-metre truss girders with purlins of 14-metre span.

- Architects: **Cardete & Huet Architectures**
- **25,000 seats**
- Construction period: **29 months**

OLYMPIQUE LYONNAIS STADIUM
› *Lyon, France*

This complex will host not just the football matches of Olympique Lyonnais and major international competitions but also concerts and many other events. Handover was done in January 2016, in time for the UEFA Euro. The metallic roof is supported by the seismic-resistant concrete structure composed of 12 perimetral concrete cores.

- Architects: **Populous**
- **59,186 seats**
- Construction period: **36 months**



STADE DE FRANCE
› *Saint-Denis, France*

Design, finance, construction and maintenance of the facility. The size of the roof is 6 hectares (as vast as Place de la Concorde), of which 5 hectares are covered and 1 hectare glassed-in. One of the most powerful cranes on the market was used to raise the 36 elements of the roof, each weighing 350 tonnes and suspended at a height of 42 metres.

- Architects: **Michel Macary, Aymeric Zublena, Michel Regembal & Claude Costantini**
- **80,000 seats**
- Underground car park: **4,000 vehicles**
- Air car park: **2,000 vehicles**
- Construction period: **31 months**

ARENA NANTERRE LA DÉFENSE

› *Nanterre, France*

Design and build of a flexible and multi-purpose facility. The project is implemented on an High Environmental Quality (HQE) basis, notably featuring a geothermal heating system and solar panels.

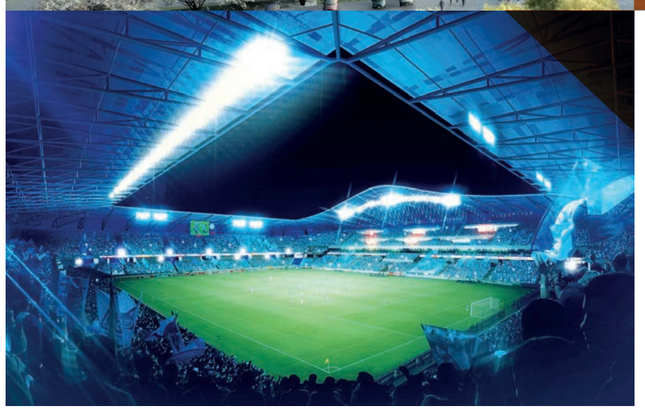
- Architect: **Christian de Portzamparc**
- **32,000 seats** (rugby) up to **40,000 seats**
- **117,000 sqm**
- Construction period: **37 months**

ATATÜRK STADIUM

› *Istanbul, Turkey*

A real challenge for this stadium standing 50 metres above field level. The structure is half-buried in the ground, with the track and grass field located 12 metres below the main platform. The stadium's geometrical properties are very complex. As for the metal frame, it supports 2 different types of roofing weighing 3,300 and 1,200 tonnes, respectively.

- Architects: **Michel Macary, Aymeric Zublena**
- **80,000 seats**
- **50,000 sqm** including annex buildings
- Construction period: **46 months**



OCÉANE STADIUM

› *Le Havre, France*

First 'positive energy' sports facility, fitted with photovoltaic panels that generate more power than the stadium requires. Rainwater is recovered to supply the building. Work has been completed in record time of 20 months. Due to the tight schedule, the construction method had to be an integral part of the design.

- Architects: **SCAU & KSS Architects**
- **25,000 seats**
- Construction period: **22 months**

AIRPORTS

VINCI CONSTRUCTION GRANDS PROJETS DESIGNS AND BUILDS ALL TYPES OF TRANSPORT INFRASTRUCTURE SUCH AS MOTORWAYS, HIGH-SPEED RAILWAY LINES AND ROAD TUNNELS, AND IT ALSO OPERATES IN THE AIRPORT SECTOR. IN THIS BUSINESS ACTIVITY DRIVEN BY STEADILY INCREASING TRAFFIC, WE SUPPORT THE EXPANSION OF VINCI AIRPORTS, WHICH SPECIALIZES IN MANAGING AND OPERATING AIRPORTS WITHIN VINCI CONCESSIONS, WORKING WITH IT TO DESIGN AND ENGINEER ALL TYPES OF AIRPORT CONSTRUCTION, RENOVATION AND EXTENSION PROJECTS.

THE INTEGRATED SERVICE OFFERING, WHICH CAN BE EXTENDED TO INCLUDE FINANCING, IS ALSO AVAILABLE TO CONTRACTING AUTHORITIES FOR NEW CONSTRUCTION PROJECTS.

NEW AIRPORT TERMINAL OF ARTURO MERINO BENÍTEZ AIRPORT

› *Santiago, Chile*

Redevelopment and extension of the current terminal, and the financing, design and construction of a new terminal, in addition to the management of the airport platform performed by VINCI Airports. The works are undertaken with a complex phasing and a short design period. The operation of VINCI's integrated concession-construction business model is illustrated by the adoption of a Building Information Modeling (BIM) approach, bringing together the various project components into a single digital model of the project.

- Architects: **Stantec Architecture**
- **217,000 sqm** (current and new terminal)
- Construction period: **58 months**

CONNECTION BETWEEN SOUTH AND WEST TERMINALS OF ORLY AIRPORT

› *Orly, France*

Construction of a building that will connect the airport's South and West terminals, while the airport is in use. The new building was designed with the help of Building Information Modeling (BIM), an innovative tool using digital models.

- Architects: **DIAM - F.** Tamisier / A. Davy
- **250 m** long building
- **80,000 sqm**
- Construction period: **57 months**

INTERNATIONAL AIRPORTS

› *Phnom Penh and Siem Reap, Cambodia*

Design and construction for the expansion and the renovation of the passenger terminals of Phnom Penh and Siem Reap for overall capacity of the 2 airports doubled to 10 million passengers. The terminals remained open throughout the project, without disrupting their operation. The projects also used state-of-the-art Building Information Modeling (BIM) technology to improve safety performance and construction schedule compliance.

- Architects: **Hamilton Architects (Phnom Penh Airport) & Archetype Group (Siem Reap Airport)**
- Phnom Penh: **31,000 sqm**
- Siem Reap: **26,000 sqm**
- Construction period: **19 months**

CONTROL TOWER & TECHNICAL BUILDING IN THE NEW AIRPORT

› *Tripoli, Libya*

Construction of the control tower and the technical building at Tripoli's new airport.The contract covers the civil engineering and all the technical and architectural works as well as the airport equipment.

- Architects: **ADPi**
- High control tower: **72 m**
- **4,200 sqm**
- Construction period: **25 months**

DUSHANBE AIRPORT

› *Dushanbe, Tajikistan*

Design and construction of the new international terminal on a general contracting basis as well as the implementation of the airport equipment and the operational systems. Logistics was a main issue in this project where the capability to lead complex one-shot operations has been demonstrated.

- Architects: **Studio Med**
- **12,000 sqm**
- Construction period: **23 months**

CAR RENTAL CENTER OF NICE AIRPORT

› *Nice, France*

Financing, construction, operation and maintenance of the building. Success on this contract is attributable to the VINCI Group's diversity of skills. This project confirms the relevance of VINCI's integrated concession-construction business model, as well as the spirit of partnership underpinning its drive to expand in the French airport activity sector.

- Architects: **Georges Dikansky & Frédéric Génin**
- Car park: **2,500 vehicles**
- **60,000 sqm**
- Construction period: **31 months**

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