ACTIVITY REPORT — **2017**

SUMMARY

FOREWORD

4 200
collaborators

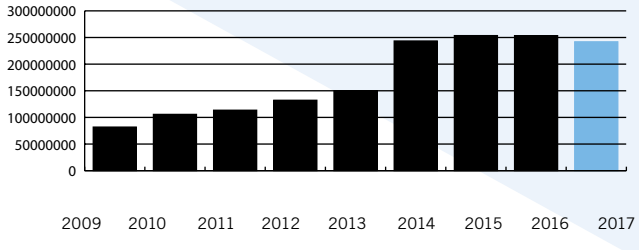
established in
49
countries

Since its creation, TPF has experienced many years of sustained growth, both organic and from acquisitions, which has allowed it to double in size every 3 years on average since its creation in 1991, growing from 20 to 4,200 employees.

From 2016, we decided to focus on simplifying and improving the group and no longer on acquisition growth.

- We focused on simplification with mergers in Spain, Portugal, Brazil, India, Poland, an ongoing process which is expected to end this year.
  It can be a cumbersome process because it leads to groupings of teams, harmonization of management methods, change of management teams as well as redefinitions and more corporate projects.
- We also focused on improving the group through improved subcontracting and delegation, a better organization of expertise centres and the adoption of the TPF name by all entities in the group.
  We are now forming a more integrated structure with a unique global brand: **TPF**.

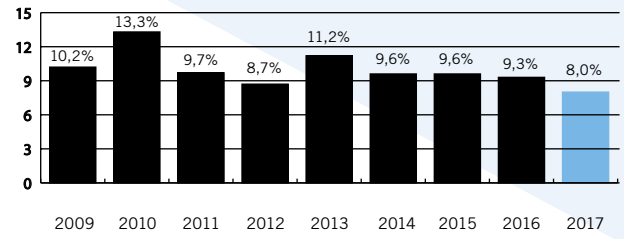
Evolution of sales and services (€)



In this context, we have evolved TPF's management bodies.These are now made up of:

- Mr Thomas Spitaels, President of the Executive Committee and CEO,
- Mr Christophe Gilain who, in addition to his duties as Managing Director, assumes the role of Chief Financial Officer,
- Mr José Santos, Chief Operating Officer.

Evolution of the EBITDA / Sales and services



In order to continue focusing on our core business:

- In 2016, we started removing the Group's real estate development activities;
- We sold the renewable sector fund management business;
- We refocused the turnkey business on a limited number of areas.

We are particularly pleased to welcome José Santos, a 39-year-old Portuguese engineer who has worked for the Group in Brazil since 2010, where he showed his managerial skills during a major crisis, which allowed him to quickly rise within our Brazilian subsidiary.

From January 2019, as part of his new mission, José will be responsible for the short and medium term management of the Group, Thomas Spitaels retaining the long term management.

In 2017, we have reached a turnover of 237 MEUR and an operating margin of 8%.

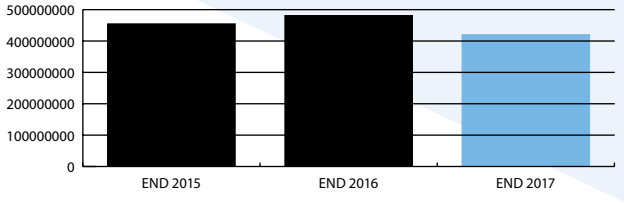
We are also particularly pleased to have a backlog of orders of 420 MEUR at the end of 2017, which is reassuring for the years to come.

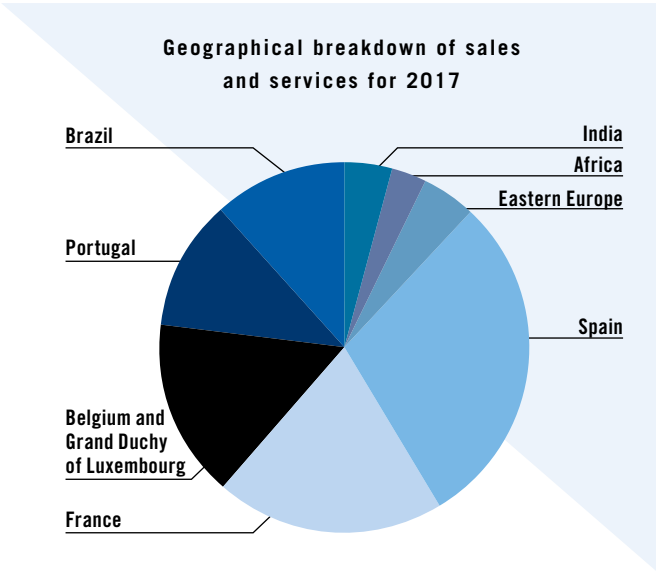
Active in

58

countries

Evolution of the backlog (€)

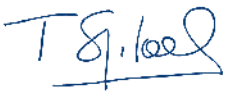




Let us finish by highlighting five projects among the 1,500 projects we worked on in 2017:

1. in Angola, in the province of Cuanza Norte, the revision of the Caculo Cabaça hydroelectric development project, on the Kwanza River basin, consisting of a concrete dam to store a total volume of approximately 440 million m³,
2. in Brazil, the supervision and technical control of the works for the Cinturão de Águas do Ceará (Ceará Water Belt) water project, an impressive water supply network featuring 1,300 km of canals,
3. in China, the project management mission for the construction of an energy efficiency model in the district of Dream Town, west of the innovative city of Hangzhou,
4. in Colombia, the management of the modernization and extension project for El Dorado-Louis Carlos Galán International Airport in Bogotá, the third largest airport in Latin America,
5. in India, in Patna, the supervision of the superstructure replacement work on the 5.575 km long Mahatma Gandhi Setu bridge, one of the longest road bridges in the world,

We wish to thank all our employees and express our deepest gratitude. Through their daily commitment, they contribute greatly to the success of the Group and its expansion.



CHRISTOPHE GILAIN
Managing Director

THOMAS SPITAELS
President of the Executive Committee

EXECUTIVE COMMITTEE

Thomas SPITAELS
Chief Executive Officer

Christophe GILAIN
Managing Director,
Member of the Executive Committee

José CASTRO SANTOS
Member of the Executive Committee

Pedro Daniel GOMEZ GONZALEZ
Member of the Executive Committee

João RECENA
Member of the Executive Committee

Amadou DE
Member of the Executive Committee

Frédéric LASSALE
Member of the Executive Committee

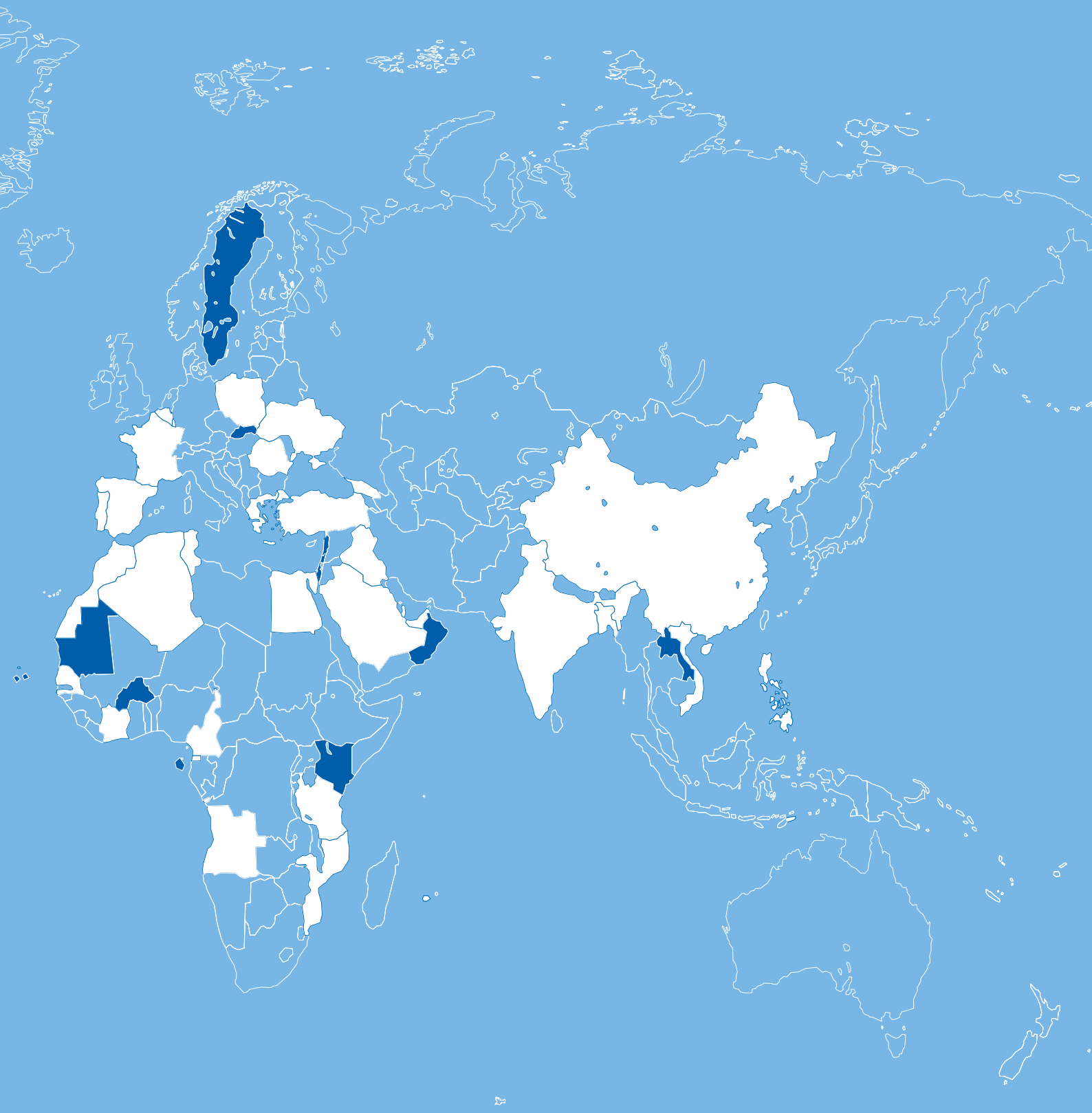
Jorge NANDIN DE CARVALHO
Member of the Executive Committee

Atul BHOBE
Member of the Executive Committee

TPF IN THE WORLD

OUR SUBSIDIARIES AND BRANCH OFFICES

COUNTRIES IN WHICH WE OPERATE



HIGHLIGHTS

BY GEOGRAPHICAL AREA AND BY SECTOR

Africa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01

ALGERIA

PUBLIC TRANSPORTATION INFRASTRUCTURE

In Algeria, projects in the transport sector are becoming increasingly popular. The Government is continuing to invest in the development of the capital's metro network. Two new extensions are on the agenda.

The Algerian company Cosider Travaux Publics has asked us, as part of its contract with the Algiers Metro Company (EMA), to carry out the construction studies of the civil works related to two new sections. These 60- and 30-month studies are conducted with partners in a consortium.

The first extension, between the suburbs of El Harrach and Houari Boumediène airport, will cover 9 km. It will include a tunnel (specially dug by a tunnel boring machine), 9 stations and 10 ventilation shafts.

The second, between Aïn Naâdja and Baraki, will extend for 1.6 km. It will consist of a tunnel (dug according to traditional methods) as well as a ventilation shaft.

In the rail sector, the year was used to continue three studies commissioned by Cosider Travaux Publics.

Among these are implementation studies of railway sections Djelfa-Boughezoul (140 km) and Boughezoul (Medea) - Kasr El Boukhari (40 km). These projects are part of the South East rail loop project.

The third study concerns the duplication of the railway between Bejaia and Beni Mansour. It is also a question of rehabilitating and modernizing railway facilities along their entire route (87 kilometers) in order to increase the frequency and speed of trains (180 km/h for passenger trains and 100 km/h for freight trains). It should be noted that keeping the rail traffic active makes civil engineering works particularly complex.

TPF also continued its collaboration with the National Agency for Studies and Monitoring of the Realization of Railway Investments (ANESRIF): a fruitful collaboration, lasting almost 10 years, which began with missions of technical control and coordination for the renewal project of the Annaba-Ramdane Djamel line.

In 2017, we were particularly interested in four railway lines, totaling 850 km, namely: Annaba- Ramdane Djamel, Relizane-Tiaret-Tissemsilt, Oued Tlelat-Tlemcen, Saida-Tiaret and the East Mining Line - Lot 3.

ROAD INFRASTRUCTURE

In the field of road infrastructure, TPF is currently working on implementation studies for the construction and equipment projects of the East-West motorway, for the centre and west lots spreading over a total of 700 km.

With regard to the realization of the facilities and equipment for the central part of the highway, which crosses seven wilayas over a length of 367 km, this lot has been entrusted to a group including Cosider Travaux Publics. TPF has been appointed by the public works company to carry out implementation studies of 18 toll stations, 7 maintenance and operating centres, 20 rest stops and 10 service areas.

As for the installations and equipment for the western part of the highway, which crosses 4 wilayas over a length of 330 km, development was entrusted to a group including the Portuguese company Texeira Duarte - Engenharia Construções, SA. Implementation studies we carry out relate to 15 toll stations including 2 on the main road, 7 maintenance centres and 22 rest areas.

01 — Extension of Algiers Metro
02 — Oued Tlelat-Tlemcen railway line
03 — Central part of the East-West Highway
04 — Luxury residence of Ben Aknoun
05 — Hotel Safir, Algiers

ALGERIA


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For these two lots, TPF was also commissioned to carry out technical studies (earthworks, pavement, layout, dry and wet networks, signage, full-width public lighting) as well as architectural and engineering studies for the buildings part.

MARITIME AND PORT INFRASTRUCTURE

In addition to these major transport infrastructure projects, there is also the extension of the Djendjen port.

The project involves the construction of a container terminal inside one of the largest port infrastructures in the country. It also involves the construction of berthing structures (three wharves), dredging works for a volume of 4.5 million m³, and a ground surface on a 55 ha area, with an estimated embankment volume of 2.5 million m³.

The work is progressing well under the supervision of TPF.

STRUCTURES

In Algiers, the modernization of security systems in the Oued Ouchaih tunnel is currently under study.

The structure consists of two unidirectional tubes about 900 m long, each with three traffic lanes. Traffic is particularly congested. Commissioned in 1991, it is now suffering from water infiltration and its obsolete security system calls for modernization.

BUILDING SECTOR - URBAN PLANNING

This year in Algiers was marked by our involvement in several luxury real estate projects. Our role is to assist the Project owner in the various project phases until formal acceptance.

In the housing sector, we can mention the new **Luxury residence of Ben Aknoun**, developed by Algerian real estate developer Sarl Enadra Essahiha, featuring 40 apartments with 2 to 5 bedrooms and several common living areas (gardens, swimming pools, gym, nursery).

In the tourism sector, the supervision of the **El-Mithak State Residence** renovation works continues. Its refurbishment is carried out in accordance with international standards and should allow it to reach the rank of five stars. The same goes for the rehabilitation project of **Hotel Safir** featuring 144 rooms including 2 junior suites.

02

ANGOLA

BUILDING SECTOR - URBAN PLANNING

In the building sector, TPF continued to manage and supervise construction works for the National Institute of Biodiversity (INABIO), in Kilamba, about twenty kilometres from Luanda.

This contract is financed by the African Development Bank (ADB) thanks to the loan granted to the Government of the Republic of Angola as part of the Environmental Sector Support Project (ESSP).

The building has a floor area of approximately 1,900 m² and is built on a plot of 5,400 m². It has a ground floor and four floors above ground.

WATER - ENVIRONMENT

In Africa, as in Latin America and other continents, water is at the heart of our concerns, as is the drinking water supply of cities of Luena, Uíge and Tchindjenje.

In **Luena**, capital of the **province of Moxico**, the Ministry of Energy and Water recently entrusted us with revision of the project and supervision of the extension work of the water distribution network and the installation of residential connections.

This represents 50 km of pipelines, 15,000 residential connections and 30 months of work. This project, financed by the International Bank for Reconstruction and Development, is particularly complex given its location in disorganized and densely populated peri-urban areas.

In the **province of Uíge**, TPF has successfully completed a number of projects, including construction work supervision for the city of **Uíge**'s water supply system. A major project for our team of Portuguese and Angolan experts who have been working on it since 2011, to the great satisfaction of the World Bank.

In the **Huambo province**, TPF was chosen by the Ministry of Energy and Water, through the National Water Authority, to carry out project review and supervision of the rehabilitation and extension works for the water supply system in the city of **Tchindjenje**. This mission will last 48 months, with 36 months dedicated to the monitoring of functioning and operational management of the system. Also note that this project is financed by the Chinese Line of Credit.

ENERGY

TPF is participating in the review of the Caculo Cabaça hydroelectric project on the Kwanza River Basin in Cuanza Norte province.

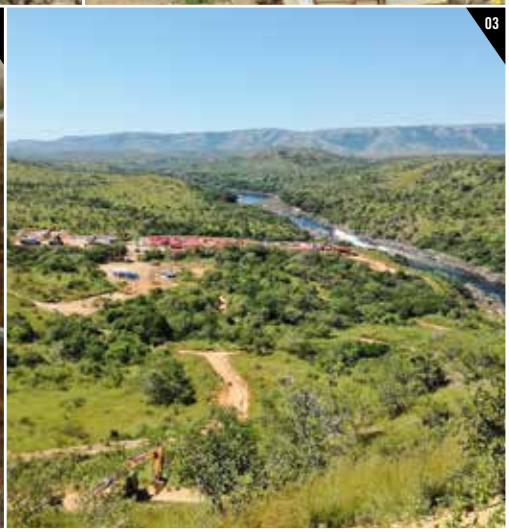
4.5 billion USD will be invested in this project which will require 6,000 people during construction peaks. The China Group Corporation (CGGC) - Niara Holding consortium has been designated for the construction of this vast hydraulic complex which should be developed in eight years, becoming the largest of the country with an installed capacity of 2,200 MW.

This project is part of the 2025 Energy Security Plan of the Republic of Angola which aims to produce 9,000 megawatts by 2025.

The Caculo Cabaça hydroelectric facility consists of a concrete dam (106 m maximum height and 553 m crest length) to store a total volume of about 440 million m³. It uses the 215 m working fall between the reservoir and restitution downstream of the Caculo Cabaça natural falls, and includes a hydroelectric plant and hydraulic circuit. The hydraulic supply circuit of turbines is composed of a water intake in the tank, an adduction circuit with four tunnels of 9 m internal diameter and 300 m length, a cavern and two restitution tunnels. The project also provides for the construction of a second hydroelectric plant at the foot of the dam to turbinate an ecological flow of 60 m³/second and two substations (the main one with 400 kV and auxiliary one with 220 kV).

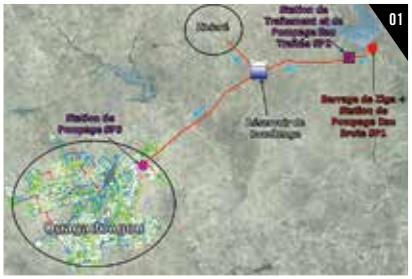
While TPF had already been appointed by the consortium for consultancy work on the construction, site facilities and environment, it has also won a new four-year contract this year which will be implemented in 2018. Tasks to be accomplished include technical methodology review, full development project review for civil engineering aspects, as well as coordination of mechanical and electrical aspects.

ANGOLA



01 — Construction of the National Institute of Biodiversity (INABIO), Kilamba
02 — Rehabilitation and extension of the water supply system in Tchindjenje
03 — Caculo Cabaça hydroelectric development project

BURKINA FASO



CAMEROON

BURKINA FASO

01 — Existing facilities - Ziga
02 — Allotment plan - Lot 4 awarded to TPF

CAMEROON

01 — Hydroelectric development of Bini Warak
02 — Rehabilitation of irrigated perimeters of SEMRY

EGYPT

01 — Cairo's new light rail system

EGYPT

03

BURKINA FASO

In Burkina Faso, ensuring fair and sustainable access to drinking water and sanitation services is a priority in both urban and rural areas.

WATER - ENVIRONMENT

The National Office for Water and Sanitation (ONEA) has received funding from the Arab Bank for Economic Development in Africa (BADEA) and the OPEC Fund for International Development (OFID) in order to finance part of the cost of the Ouagadougou City drinking water supply project from the ZIGA dam.

Within a consortium, ONEA has entrusted us with the control and monitoring of the laying of ductile iron pipes DN > 300. TPF will start there in 2018 for a period of two years.

Currently, the Ziga I production unit, located 50 km northeast of Ouagadougou, has a capacity of 4,500 m³/h and consists of:

- a raw water pumping station (SP1),
- a 2.4 km DN 1000 raw water discharge pipe,
- a treatment unit of 4,500 m³ / h,
- a treated water pumping station (SP2),
- a DN 1000 treated water discharge pipe over 17.3 km,
- a 5,400 m³ head tank on the hill of Boudtenga.

The head tank feeds the SP3 pumping station located at the entrance of Ouagadougou, which redistributes water in the capital via two delivery stages (north branch and south branch, the centre branch being stopped).

04

CAMEROON

WATER - ENVIRONMENT

In the Far-North region, control of the rehabilitation works continues for the irrigated perimeters and dikes of Maga & Logone and Mayo Vrick. This project is part of the implementation of component A of the Emergency Flood Control Project (PULCI), co-financed by the World Bank. The aim is to rehabilitate the main hydraulic structures damaged and deteriorated by floods.

Initiated in 2015, this project is divided into several areas of intervention:

- rehabilitation of the Maga dam-dyke, which is 27 km long and 7 m high, with 78 crest access ramps and 6 berthing areas,
- rehabilitation of the Maga dam valves on the Mayo Vrick (battery of 10 wall-mounted slide valves with a flow rate of 10 m³/s each, and valves of the same type with 4 water intakes for irrigation),
- rehabilitation of the flood protection dam on the left bank of the Logone River, 70 km long (from Yagoua to Pouss) and an average height of 2.5 m,
- reconstruction of the Pouss weir invert with a length of 750 m and a width of 4 m,
- rehabilitation of 7,500 ha of irrigated perimeters of SEMRY I in Yagoua and SEMRY II in Maga,
- study and setting up of associations of water users in the irrigated perimeters of SEMRY and support to the operation and maintenance of hydro-agricultural infrastructures.

The goal is to complete the work in 2019.

ENERGY

In the region of Adamaoua, the contract of Assistance to Project Ownership and supervision of the hydroelectric development works of Bini Warak continues. This year, our team conducted the analysis and review of the implementation studies and prepared the tender documents.

The Ministry of Water, Energy and Mines awarded this 22-month contract to the TPF-Intertechne consortium led by TPF. The hydroelectric development consists of a dam (603 m³), hydroelectric plant (75 MW), power line (225 kV) to the Mounguel substation (70 km), rural electrification system and access roads.

Carrying out this project will require the displacement of 300 people for whom a Plan of Displacement and Relocation has been implemented and this, in accordance with requirements of the World Bank.

05

EGYPT

PUBLIC TRANSPORTATION INFRASTRUCTURE

In Egypt, our involvement in transport infrastructure projects is opening up great prospects. Construction sites are multiplying and we do not intend to stop there. TPF won a new contract in December for the construction of a new electrified light rail line in the new districts surrounding Cairo.

The current contract list includes studies commissioned for the modernization of signalling systems for the Tanta - El Mansoura - Damietta railway section and the electrification system for light rail line 1 in Cairo.

Upon works completion, the new light rail system will cover a distance of 65 km and will have 11 stations on its route. It will link the new administrative capital of Cairo to the most remote districts of Greater Cairo, including Al-Salam City, Ramadan 10 City, Obour City, Badr City and Shorouk City. It will relieve congestion in densely populated areas around Cairo. TPF was awarded with the design review and supervision services for the construction of the new electrified light line between Cairo and 10th of Ramadan City.

EQUATORIAL GUINEA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IVORY COAST


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KENYA


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MAURITANIA


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02

EQUATORIAL GUINEA

01 — Supply network to Mongomo / Technical buildings

IVORY COAST

01 — Scupper under construction
02 — Surface layer rehabilitation works
03 — 500 m³ water tower in Anyama

KENYA

01 — Ndanu waterfalls

MAURITANIA

01 — Dam of Seguelil, Adrar
02 — Drinking Water Supply Project of the Eastern Mauritanian cities from the Dhar aquifer

06

EQUATORIAL GUINEA

WATER - ENVIRONMENT

In Mongomeyen and its outskirts, our teams are hard at work improving the water supply.

TPF continued to supervise the construction of the supply network to Mongomo, between Akonekien and Meyang, a total of 18 km of pipelines.

This year, TPF also worked on the water collection project on the rivers of Lobo and Abía.

Several structures are planned, including a water treatment system with a capacity of 2,400 m³/day, a distribution network, domestic connections and a 1,800 m³ reservoir. TPF focused on the analysis and project review as well as monitoring flow studies.

07

IVORY COAST

ROAD INFRASTRUCTURES

In Ivory Coast, plenty of projects were initiated in important sectors such as road infrastructure and sanitation. Huge rehabilitation works for road infrastructure and drainage works are underway in the capital cities of Abengourou and Agnibilékrou departments.

TPF was appointed by the Road Management Agency (AGEROUTE), acting on behalf of the Ministry of Economic Infrastructure, to act as the prime contractor for the construction of 215 km of rural tracks: surface layer rehabilitation works for various sections and construction of several drainage structures (scuppers and culverts).

WATER - ENVIRONMENT

Challenges related to the development of drinking water in Ivory Coast are numerous and TPF is delighted to be able to participate in the vast program for access to drinking water "Water for All" initiated by the State.

Our team is currently working on the project led by the Ministry of Economic Infrastructures related to the realization of a diagnosis and proposals of drinking water guidance schemes for the chief towns of the regions of Bouafle, Duékoué, Guiglo, Blolequin, Mankono, Boundiali, Ferké and Ouangolo.

TPF was entrusted with the study on water demand, diagnosis of existing drinking water supply systems, development of drinking water supply master plans and accompanying measures, economic and financial analysis and the realization of an investment plan.

08

KENYA

ENERGY

Energy is an area where TPF has been working for decades, particularly through its activities in Kenya. Specifically, in 2017, TPF took part in the Ndanu waterfall hydroelectric project on the Yala River in Kisumu County.

In order to verify the technical and economic feasibility of the project, we have been asked to carry out hydrological and hydraulic studies as well as structure design.

The new development of Ndanu will consist of a mini-hydraulic power station, a mobile dam, a water intake and a water supply pipe, a loading chamber, penstocks, hydroelectric power station and a tailrace.

09

MAURITANIA

WATER - ENVIRONMENT

TPF secured three contracts with the Ministry of Agriculture and the Ministry of Hydraulics and Sanitation to provide consulting services related to water and environment projects.

One of them involves the supervision of the construction of the Seguelil Dam in Adrar. We also conducted a study for 100 storm-water runoff retention structures in the wilayas of Hodhs de l´Assaba, Guidimagha, Gorgol, Brakna, Tagant, Icnchit, Adrar and Tiris Zemmour. This major programme for runoff collection and reuse is part of a long-term policy that will improve ecosystems and living conditions in the area.

And finally, we carried out the detailed design for the construction of a large dam that will be used to store rainwater and protect the town of Tarf Elmehrou against floods.

Other projects include the drinking water supply project for the cities of eastern Mauritania from the Dhar aquifer, financed by the Islamic Development Bank (IDB). Started in 2014, the project is progressing at a good pace and should end in 2019 as planned.

The National Water Company (SNDE) has entrusted us with:

- the review of existing technical studies (detail design, tender documents) and assistance to the administrative management of the project,
- the verification of structure layout (approval of implementation drawings),
- permanent work supervision in accordance with the plans,
- the quality control and the necessary receptions of supplies for the project,
- contradictory reports and appendix for the establishment of periodic provisional accounts and final accounts,
- the keeping, writing and distribution of meeting minutes,
- the preparation of periodic work progress reports and final project report,

- the organization of visits prior to the provisional and final acceptance of the work,
- supervision and control of the laying of 207 km of DN 200/250/400 mm cast iron pipelines,
- supervision and control of the laying of 223 km of HDPE distribution pipes DN 63/90/110/160/200/250/315/400 mm,
- supervision and control of the equipment of six boreholes,
- supervision and control of the construction and equipment of two pumping stations,
- supervision and control of the construction of eight drinking water storage tanks with a capacity of 250 m³ to 1500 m³.

10

MOROCCO

BUILDING SECTOR - URBAN PLANNING

TPF's know-how in all trade technical studies is now recognized in Morocco. Several key projects were tackled this year, including the construction of the new Marriott hotel in the heart of the Agdal district of Rabat.

This project is part of the Arribat Centre project, a mega-project for a multifunctional centre including shops, leisure areas, offices and car parks.

The hotel component involves the construction of a 190 room hotel, a convention centre, a spa and several restaurants (total area of 42,000 m²). TPF is responsible for carrying out studies and monitoring construction of the hotel, which is scheduled to open in 2019.

This mission, which was entrusted to us by the Madaëf tourism investment company, a subsidiary of Caisse de Dépôt et de Gestion (CDG), follows another mission. We were also appointed as the all trade design office for the construction of the Marriott hotel in Taghazout which should have a capacity of 250 rooms and whose opening is also planned in 2019 .

In the field of education, we were involved in the expansion project of the International University of Rabat (UIR).

Work for the fifth part is now underway. It involves the construction of a 10,500 m² building dedicated to administration and another of 13,500 m² dedicated to the Business School. Not to mention the construction of a sixth university campus of 14,000 m² with 388 rooms.

The SCMC mission (Scheduling, construction management and coordination), studies and all trade work follow-up are carried out by TPF. The project is expected to be completed in June 2019.

The International University of Rabat is not the only one to be revamped. The National Football Centre in Maamoura, in the suburbs of Rabat, will also undergo a spectacular facelift.

In addition to the construction of a five-star hotel with 60 rooms, the project for expansion, development and upgrade of the centre provides for the construction of a congress centre (3 congress and training rooms), a medical sports complex and a technical area (laundry, vehicle hangar, sports equipment store) and the redevelopment of the accommodation centre and administrative buildings.

The work has reached an advanced state and should be completed by the end of 2019. TPF was in charge of the study and follow-up of the works along with the SCMC mission.

Last year, in the industrial sector, we were delighted to win our first assistance to project ownership assignment in the automotive field for the design/construction of the PSA Peugeot Citroën plant in Kenitra.

This year, we are particularly pleased to have been selected by the French automotive supplier Plastic Omnium to carry out, in partnership with the firm STILL Associates, studies and follow-up of the construction works for its new Moroccan factory in Kenitra.

This new 15,000 m² production unit will be located on approximately four hectares of land in the Atlantic Free Zone, next to the PSA Peugeot Citroën plant under construction. Work should begin in May 2018 and be completed one year later.

The mission entrusted to us concerns technical lots: metal framework, strong currents, weak currents, fluids and processes.

01 — Construction of the new Marriott, Rabat
02 — Campus of the International University of Rabat, Building dedicated to administration
03 — Campus of the International University of Rabat, Business School
04 — Maamoura National Football Centre, Sports and medical complex
05 — Maamoura National Football Centre, 5-star hotel
06 — Maamoura National Football Centre, Indoor football ground
07 — New production unit of the Plastic Omnium Group, Kenitra

MOROCCO


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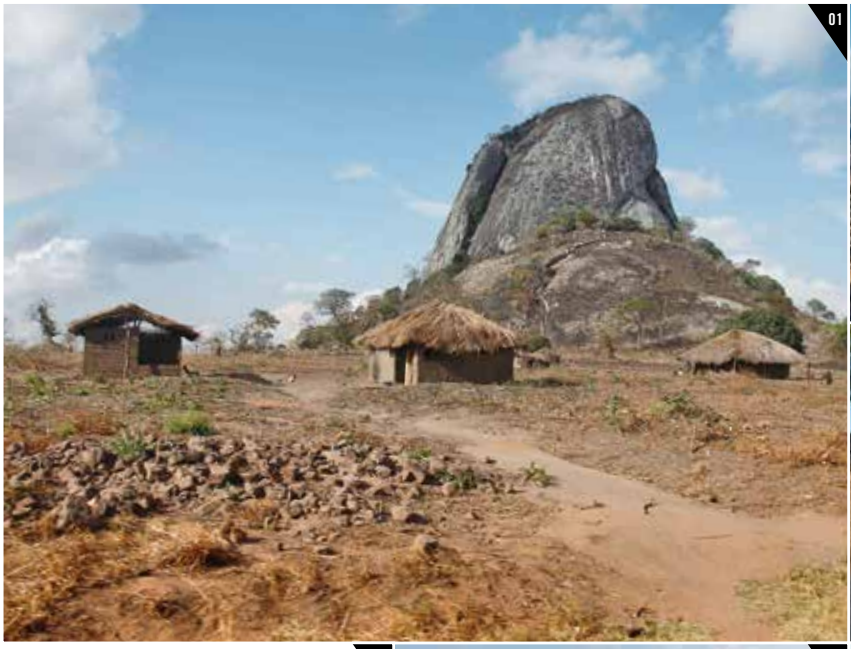
MOZAMBIQUE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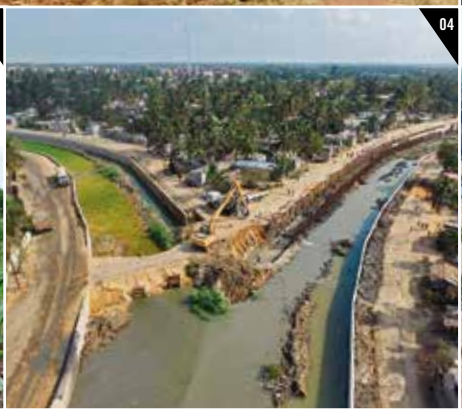
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REUNION ISLAND

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MOZAMBIQUE

WATER - ENVIRONMENT

In Mozambique, TPF continued to strengthen its position in the water and environment sectors. Several of these large projects are detailed here below.

First of all, the development of strategic plans for the integrated development of water resources in the river basins of Meluli, Monapo, Mecuburi, Ligonha and Motomonho in the province of Nampula as well as the rivers of Melela, Molocue, Nipiode, Raraga and Moniga in the province of Zambezie.

Our intervention concerns areas of 44,700 km² and 25,600 km² respectively. As leader of the consortium, TPF carries out the strategic plans for the Ministry of the Earth, Environment and Rural Development (MITADER), including the monograph of basins, definition of development scenarios and strategic investment plans, and integrated development of water resources. The work involves organizing workshops at a local level in order to bring together all interested parties.

We will also mention TPF's study for the development of the Strategic Plan for the Use and Development of the Lúrio River Basin as part of Mozambique's national water resources development project. The intervention area covers 60,800 km².

Results of studies commissioned by the Government of Mozambique and financed by the World Bank will present methods for the management, conservation and development of water resources to be adopted for the sustainable and integrated socio-economic development of those regions.

ECONOMIC DEVELOPMENT - URBANIZATION

In partnership with Biodesign, TPF is also pursuing the development of the Mozambique Space Development Plan for the Government of the Republic of Mozambique, with the support of the National Fund for Sustainable Development financed by the International Development Association of the World Bank. The intervention zone covers the entire territory, i.e. 801,590 km².

The main objective of this substantial plan is to define national land use guidelines and to set goals and priorities for multisectoral interventions at the global level. All this with the perspective of sustainable development based on the participation of all stakeholders involved in mining, agriculture, forestry, industry, energy, environmental, water, education, tourism, transport and roads, ...

Several vectors are essential to realize this mission: the development of decision support tools (GIS Geographic Information System, information exchange platform), the realization of the Strategic Environmental Assessment (SEA) as well as training and institutional strengthening.

In the field of irrigation, TPF was able to win a new contract with the Provincial Directorate of Agriculture and Food Security for the development of the general irrigation plan of the province of Cabo Delgado and the strengthening of its institutional capacities.

The implementation of this plan, funded by the Spanish Agency for International Development Cooperation (AECID), will be crucial for the development and improvement of irrigation systems for the benefit of farmers' associations and small-scale producers. It is about optimizing the use of water resources and increasing the productivity of agriculture to ensure food security and reduce poverty.

To meet this challenge, a team of Portuguese, Mozambican and Spanish specialists from different disciplines has been formed (hydraulic and agronomic performance of irrigation systems, water resources, livestock, agrarian economy, institutional diagnosis, environment and environmental management, geographical and cartographic information systems, ...).

Another highlight of the year is the rehabilitation of priority rainwater drainage structures in the coastal towns of Beira and Maputo: two World Bank-funded projects for climate change mitigation and adaptation.

The contractor responsible for rehabilitation works in Maputo has been selected, and the work began under the supervision of TPF and its partners. Work will last 18 months and will require an additional 12 months for follow-up. Beforehand, TPF carried out the feasibility study and the environmental impact study, while proposing engineering solutions to limit as much as possible demolition works envisaged on existing constructions and the displacement of inhabitants.

In Beira, we focused on the second phase of the project, including the complete rehabilitation of the A0, A2 and A4 canal system and the partial rehabilitation of the A1 and A3 channels (over a length of 9 m), rehabilitation the Palmeiras spillway and the EC1 and EC3 monitoring stations; and the construction of the EC2 and EC4 control stations and the Maraza retention basin with a storage capacity of 175,000 m³. TPF continued with work supervision.

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REUNION ISLAND

BUILDING SECTOR - URBAN PLANNING

In Saint-André de la Réunion, the CASINO Group entrusted us, in partnership with the Marraud Group, with the management of all trades for the La Cocoteraie shopping centre extension.

This involves, on the one hand, restructuring the existing shopping centre to create 25,000 m² of medium-sized retail space and shops and, on the other hand, building a new hypermarket. A project proving particularly complex from the point of view of water management (presence of a watercourse, exposure to flood risk) and terrain configuration (elevation of more than 8 meters). This new contract confirms the recognition of our expertise acquired over the course of projects, particularly in France (Cap 3000 shopping centre in Saint-Laurent-du-Var, Village of Marques de Villefontaine and the Prado shopping centre in Marseille) and in Belgium (Docks Bruxsel commercial centre).

MOZAMBIQUE

01 — Strategic Plans for the Integrated Development of Water Resources
02 — Mozambique Space Development Plan
03 — Development of the general irrigation plan of the province of Cabo Delgado
04 — Rehabilitation of priority rainwater drainage structures in the coastal towns of Beira

REUNION ISLAND

01 — Extension of La Cocoteraie shopping centre, Saint-André de la Réunion

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SAO TOME AND PRINCIPE

ENERGY

The agreement concluded this year with the Project Management and Fiduciary Agency (AFAP) of the African island state São Tomé and Príncipe concerns the hydroelectric development of Contador.

Our mission: to carry out an evaluation study of the available water resources for the production of energy in the hydroelectric power station, aiming towards its rehabilitation and capacity increase.

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SENEGAL

ROAD INFRASTRUCTURE

Senegal has received funding from the Islamic Development Bank (IDB) to cover the cost of the rehabilitation project for national road No.2 (Ndioum-Thilogne: sections Ndioum-Goléré and Goléré-Thilogn).

This road is a major interconnection backbone serving the entire North and East region at the same time.

We are currently supervising and controlling rehabilitation works of national road No. 2 on the Goléré-Thilogn section (68 km), in partnership with SCET-TUNISIE and on behalf of the Road Management Agency (AGEROUTE). TPF is also in charge of the administrative and financial follow-up of the project.

WATER - ENVIRONMENT

TPF reaffirms its commitment to enable access to water and to sustainable development. The project to build a seawater desalination plant with a capacity of 50,000 m³/day upgradable to 100,000 m³/day in Dakar is especially important.

As part of the study for the water supply master plan in Dakar and Petite Côte (2009 - 2011), which was carried out on behalf of the National Water Company of Senegal (SONES) by TPF and its partners in a consortium, this desalination plant was identified as one of the major infrastructures which will allow to meet water needs for Dakar's population by 2025.

This project, financed by the Japan International Cooperation Agency (JICA) in the Mamelles area of Dakar, is based on two components: on the one hand construction of the plant itself, including water intake, discharge at sea, pumping station and power supply, and on the other hand, the renewal of nearly 460 km of pipeline.

The consortium includes our engineering consulting firm and in addition to the master plan study, was also selected for design, tender assistance, construction control and supervision, implementation of the Environmental and Social Management Plan (ESMP) and Environmental Monitoring Plan, as well as the development of monitoring capacities for the maintenance and operation of the plant during the warranty period.

Work is scheduled to start in early 2018 and should be completed in 2022.

Also in this sector, TPF participates in the Dakar Emergency Program for Access to Drinking Water from the well field of the Bayakh-Diender-Thieudiem axis. This ongoing mission has been entrusted to us by the National Water Company of Senegal (SONES) and concerns technical studies and supervision of works related to:

- the construction and equipment of 11 boreholes with a unit capacity of 100 to 200 m³/h in the Bayakh and Tieudème zones,
- the installation of a break tank in Thieudem,
- the laying of a discharge pipe between the Thieudèm and Bayakh stations,
- the Bayakh rework Station,
- the laying of a cast iron distribution pipe of nominal diameter 700/500 mm between Bayakh and Rufisque (17.5 km).

In the irrigation sector, TPF continues its mission for the National Society for Development and Exploitation of Land (SAED). Ongoing studies are carried out as part of the Support Project for the Promotion of Family Farms in the Matam region.

TPF was commissioned to carry out the preliminary design and final draft studies. The objective of this project funded by the French Development Agency (AFD) is to improve food security and contribute to the economic development of rural areas. Among works to be carried out, the rehabilitation and extension of more than 1,500 ha of village irrigated perimeters (Bokidiawé, Baladji, Orfondé, Ogo and Nabadji civol) and the opening up of several villages and production areas by constructing over 80 km of main tracks and several secondary tracks (Djorbivol-Poste Baladji-Fellou, Loumbal Baladji-Ngouloum, Nabadji civol-casier Nabadji-Koundel, Boukissaboudou-casier Nabadji, Boynadji-casier Ogo, Bokidiawé-casier Bokidiawé et Ouro Sidy-Soringho-Bow).

The Urban Water and Sanitation Project (PEAMU) is another project particularly close to our heart since TPF was appointed to carry out technical studies on one hand, and on the other hand, to control and supervise the work between the well field of Tassette and reservoirs of Thiès.

The contract that we concluded with the National Water Company of Senegal (SONES) includes:

- the construction of seven boreholes in the Tassette area,
- the construction and equipment of seven boreholes and the construction of a pumping station in the Tassette area (including the laying of a 500 m³ tank and cast iron pipes with a nominal diameter of 150 mm between boreholes and the tank),
- civil works relating to tanks and water towers (construction of a 20,000 m³ - 2 x 10,000 m³ reservoir in Thiès Sud),
- the laying of a cast iron transfer pipe with a nominal diameter of 600 mm between the Tassette well field and the Thiès reservoirs (16.5 km),
- the installation of a cast iron connecting pipe of nominal diameter 800 mm between the North (existing) and Thiès Sud (4 km) reservoirs.

SAO TOME AND PRINCIPE

SENEGAL

SAO TOME AND PRINCIPE

01 — Hydroelectric development of Contador

SENEGAL

01 — Seawater desalination plant, Dakar
02 — Drinking Water Supply System, Dakar, Installation of cast iron pipes DN 200 mm
03 — Drinking Water Supply System, Dakar Elevation of a 1,500 m³ reinforced concrete reservoir
04 — Water and sanitation project in the Thiès, Tassette area / reinforcement of the 500 m³ reservoir sump

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TUNISIA

WATER - ENVIRONMENT

TPF's success in Tunisia is based on its long-standing expertise in the sewerage and wastewater treatment sector but also on its ability to offer its customers innovative solutions. This year, we have worked extensively on three projects for the National Office of Sanitation (ONAS).

Innovative solutions have been designed for the **rehabilitation** and **expansion of 5 wastewater treatment plants in the towns of Beja, Medjez el Bab, Jendouba, Tabarka and Siliana**.

In **Sidi Bouzid**, we are currently supervising the construction work of the new **Wasterwater Treatment Plant** with a capacity of 56,667 EH, dimensioned for the following values: daily flow of 7,300 m³/d, average hourly flow in dry weather of 365 m³/h, peak flow in dry weather of 750 m³/h, peak flow in rainy weather of 865 m³ / h. The plant is equipped with an oxidation channel (Carrousel) with tertiary treatment (filtration and UV disinfection). Construction is progressing according to schedule. Our work has to be completed within a period of 25 months.

In addition, our design office was selected by ONAS as part of the **Tunis-North sanitation project** for technical assistance and supervision of the work of a 6 km marine outfall. Financed by the World Bank, this project aims to bring treated wastewater far away from the coast and thus improve dispersion and dilution.

We will also mention the interesting contract awarded at the end of the year by the Ministry of Agriculture, under which TPF will provide technical assistance for the monitoring and maintenance of thirty dams in operation.

These structures include:

- Earth dams such as the ones of Sejnane, Hma, Ghezala, Haouareb, Gamgoum, Abid, Sidi Aich, Rmal, Bir Mchergua and Masri,
- Rockfill dams like the one in Nebhana,
- Mixed RCC/earth dams like the Rmil dam.

Acting as leader of the consortium formed with Studi International, our assignment will feature several missions:

- Inspection visits,
- Interpretation of auscultation measurements and analysis of the behaviour of the dam and its ancillary structures,
- Special expertise.

TUNISIA

01 — **Construction of the Sidi Bouzid wastewater treatment plant**

Central America


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While consolidating activities in the continental countries of Central America, TPF also sought development opportunities in the Caribbean region.

ROAD INFRASTRUCTURES

In **Honduras**, the turn-key project for the construction of the Villa de San Antonio Highway Logistics Corridor is currently underway and deserves special attention. It is part of the Government's desire to transform Honduras into a logistics centre for Central American countries.

We have been providing consulting services involving the conduct of a Technical Audit on the work executed, and the supervision of the turn-key project for the construction of two sections of the Villa de San Antonio Highway Logistics Corridor: Section II El Quebrachal –San Juan II Bridge and Section III San Juan II – Goascorán.

The highway runs south along the Honduras Interoceanic Logistics Corridor to link up with the road heading towards El Amatillo, on the Salvadoran border.

Activity in the road sector has also been intense in other Central American countries, such as **Salvador**, **Costa Rica** or **Guatemala**.

In **Costa Rica**, the San Jose Caldera Highway concession project deserves special attention. TPF provides monitoring services during the O&M period.

In **Salvador**, we conducted the feasibility and the detailed design for the widening of the CA02E Road section between La Herradura and Zacatecoluca. This project is particularly complex because the road carries high traffic flows, but will remain open throughout the upgrading works.

WATER - ENVIRONMENT

In **Panama**, an interesting project we are working on is the Federico Guardia Conte Drinking Water Treatment Plant in Chilibre. The plant will be expanded in order to increase its treatment capacity by 15 MGD (0.658m3/s).

TPF provides detailed design services to the Joint Venture contractor for the Chilibre Drinking Water Treatment Plant project. Moreover, our team is in charge of the detailed design of a treatment facility for the recovery of backwash water and the treatment of the sludge generated in the whole plant.

In **Nicaragua**, we completed our work on major projects that were underway during the year.

Examples include design studies of the water supply and sanitation network serving the rural communities of Prinzapolka and Puerto Cabezas, on the Caribbean coast.

HONDURAS


01


01

PANAMA


01

HONDURAS

01 — **Logistics Corridor Goascorán-Villa San Antonio**

PANAMA

01 — **Drinking water treatment plant Federico Guardia Conte, Chilibre**

Latin America


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01

ARGENTINA

ROAD INFRASTRUCTURE

In Buenos Aires, TPF is assisting with the construction of the 2,415.90 m Paseo del Bajo road project: an arterial route running north-south across the city of Buenos Aires.

During the year, we have been supervising works on a section consisting of 4 dedicated lanes in cutting for trucks and long-distance buses, and 8 lanes for light vehicles running on the surface. The project will improve traffic flow on the Paseo del Bajo Road. This vast project began in January 2017 and will end in the spring of 2020.

02

BOLIVIA

ROAD INFRASTRUCTURE

Road infrastructure projects occupy a prominent place in our business in Bolivia. Ten missions are currently underway.

TPF is responsible for designing the Guanay Chimate road and supervising the construction of a section of the Sucre - Padilla - Ipati road.

The **Guanay –Chimate** is part of the RF-29 Main Road Network. It starts in the town of Caranavi and ends in the town of Apolo, both in the Department of La Paz. The road has a length of 62 km; and its route runs across several urban areas, such as the town of Guanay, where mining activities have greatly enhanced development and economic growth. The purpose of the assignment is to carry out the technical, economic, social and environmental design of upgrades to the existing road. The road traverses a mountainous, landslide-prone region. The existing road has inadequate radius of curvature and alignments, together with steep slopes and alignments, involving high safety risks; and frequent fog in the zone reduces visibility.

The **Muyupampa-Ipati** section, with a length of 44.82 Km is part of the Sucre – Padilla – Ipati highway on the Route No. 6 of the National Road System and connects Route No. 1 with Route No. 9. The purpose of the contract is the supervision of construction work, which is expected to begin mid-year.

ARGENTINA

01 — **Paseo del Bajo Road Development Project, Buenos Aires**

BOLIVIA

01 — **Guanay – Chimate Road**
02 — **Muyupampa – Ipati Road**

ARGENTINA


01


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BOLIVIA


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BRAZIL

WATER - ENVIRONMENT

Initiated three years ago, the interconnection works between the Jaguarí and Atibainha dams are progressing. This pharaonic project is estimated at 173 million USD, and will guarantee water supply for the population of the metropolitan area of São Paulo.

The aqueduct that will transfer water between the dams includes a 13.4 km steel pipeline and a tunnel 6.2 km long. The system will also count on a large pump station with a capacity of 5.1 m³/s. TPF was hired to provide inspection services and specialized technical support to the construction site.

On the coast of Sirinhaém, located in the Brazilian state of Pernambuco, TPF was responsible for the elaboration of an Environmental and Social Impact Assessment (ESIA) aiming to assess the ecological feasibility of the Guadalupe Beach Resort.

The project, consisting of 116 environmentally-protected hectares of land along the north-eastern coast, was the object of an intense evaluation for its main ecological components. Regarding the Biotic Environment, it was possible to register specimens not previously seen in the state as well as endangered ones. The Socioeconomic Environment was also assessed and social studies with fishermen were carried on so that their concerns were observed and taken to the Environmental Authority. The Historical Heritage was also a theme of concern and geological prospections revealed remains of a colonial church dating back to the Dutch rule over colonial Brazil.

As part of the impact mitigation initiatives, the project design was reformulated and more than 20 programs were proposed involving areas such as Sustainability, Education, and Income Distribution, resulting in a total environmental investment of approximately 2,000,000 US dollars.

In Recife, one of the largest cities in Brazil, with 1.5 million inhabitants, TPF was hired by EMLURB, the local urban services company, to develop what is being considered a pioneering application of Smart City technology. The entire street sweeping, solid waste removal and final disposal services are being planned and monitored from a dedicated operational centre.

TPF services were hired for a five-year period.

Every solid waste truck and every sweeping handcart is tracked by GPS technology and the routes they follow are checked against those that have been planned. In loco mobile monitoring and geoprocessing complete the job.

Two main results are being attained. First, the citizens are getting what they deserve, the quality of services been guaranteed. Second, and most amazing, some saving is being made. The sharp monitoring is resulting in a better service with less sweeping cycles.

The success obtained in one service is encouraging municipal authorities to extend the Smart City technology to other fields. Maintenance of road pavement, drainage and urban lighting, security and public transport are among those services that can profit from the scope expansion of the already available planning and control system. As you will be able to read in the following chapters, TPF is leading Smart City technology applications in other parts of the world, including China (in Hangzhou) and France (in Dijon).

ECONOMIC DEVELOPMENT - URBANIZATION

The Government of Bahia signed with the Inter-American Development Bank - IDB a financing contract aimed at expanding tourism in the region, promoting business and new jobs. The project intends to improve tourism quality, empower institutions involved, develop basic services and reinforce socio-environmental management in tourist destinations.

Furthermore, PRODETUR Nacional Bahia aims at contributing to the creation of formal jobs, as a result of the increase in the nautical and cultural tourism in the municipalities located around Baía de Todos os Santos.

TPF was hired by the Government of Bahia to advise the Project Coordination Unit (UCP) on the implementation and operation of this Program. The main activities of TPF are: supervision of engineering works and services, support to environmental and social activities, monitoring of the administrative and financial activities of the program, and support for procurement of goods and services.

01 — Interconnection works between the Jaguarí and Atibainha dams
02 — Environmental and Social Impact Assessment - Seaside Resort of Guadalupe
03 — Control of solid waste collection and disposal operations in Recife

BRAZIL


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BRAZIL


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SOCIO-ENVIRONMENTAL ENGINEERING

Created in 2009 at the instigation of the Federal Government, the social housing program "Minha casa, minha vida" (My Home, My Life) aims to fill the housing deficit in Brazil by creating massive neighbourhoods of identical houses. Among these is the Lavras housing project in Guarulhos, a city in the state of São Paulo.

This project involves the construction of 1,460 houses intended for 600 families displaced by severe floods or affected by an expropriation procedure in connection with the development of the Parque Várzeas do Tietê - PVT (Tietê Flood Zone Park), the largest linear park in the world with 75 km of extension and an area of 107 km². In this context, the Department of Water and Power of the State of São Paulo - DAEE asked us:

- To enable adaptations, adjustments and redirections of actions to ensure that the goals and guidelines of the Resettlement Plan are achieved;
- To subsidize managers in the preparation of control tools in all levels - beneficiaries, linked companies, public managers and partners;
- To observe whether the prescribed measures are being developed and, in case it is detected the need to change the process, propose course corrections;
- To identify obstacles and opportunities to perform the planned measures, indicating solutions to overcome and optimize them;
- To verify compliance with targets and schedules of the Program;
- To monitor evolution in life conditions of the resettled population in relation to previous living situation, focusing on family income, quality of life and access to services, infrastructure and leisure.

This two-year mission will end in the spring of 2019.

TPF is facing one of the greatest and most complex challenges of its history: to support the repair process of damages caused by the rupture of the Samarco's Fundão dam, representing the worst environmental disaster to have ever occurred in Brazil and, when it comes to mining accidents, the worst in the world.

The rupture of Samarco's dam, on November 2015, in the sub-district of Bento Rodrigues, near the historical city of Mariana, caused profound changes in the landscape and life of local residents. Since May 2016, TPF has been leading social work in the 41 municipalities affected between Minas Gerais and Espírito Santo.

The accident destroyed 82% of the buildings of the Community of Bento Rodrigues, district of the municipality of Mariana, displacing around 1,300 people. As a result of the accident, this district will have to be entirely rebuilt.

In 2017, we worked on four major fronts with the Renova Foundation:

- Population resettlement and measures of mediation and debate;
- Additions of the Individual Registration of Impacts and Damage Mapping - Doce River;
- Support to the Mediated Indemnity Program (PIM) in the helpline of Governador Valadares (MG) and Colatina (ES) - payment to the population for pain and suffering caused by the interruption of water supply due to the rupture of the Samarco's Fundão dam;
- Preparation of public finance diagnosis in municipalities directly affected by effects of the Fundão Dam rupture, in Mariana/MG, aiming to assist Renova Foundation in the making of decisions related to financial investments and/or repairs in the affected municipalities.

The contract signed with the Agricultural and Land Reform Department of the State Government of Pernambuco is part of Pernambuco's Sustainable Rural Development Program (ProRural) which aims to ensure social participation and management in ongoing sanitation works in the State, in different completion stages in 200 rural locations.

This program is based on the principles of participation and social inclusion and aims to guarantee access to sanitation for all.

Our socio-economic department staff are experts in social engineering and have accomplished many tasks including:

- The coordination and integration of primary and secondary data to compile a diagnosis of the rural sanitation reality in the State of Pernambuco;
- The mobilization and awareness raising of Family Producers Organizations (OPFs);
- The training of organizations in the management of basic sanitation systems;
- Management monitoring (water treatment, system operationalization and maintenance, management support instruments, among others);
- Assessment of the operation of basic sanitation management performed by the OPFs;
- Preparation of didactic materials (technical notes and videos) for training activities.

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04 — **Bahia National Tourism Development Program**
05 — **Lavras Project, Guarulhos**
06 — **Work with the Renova Foundation, in charge of coordinating the compensation and relocation of victims of municipalities devastated by the rupture of the Fundão Dam**
07 — **Sustainable Rural Development Program (ProRural) in the State of Pernambuco**

CHILE

01 — Santiago de Chile Metro - Extension works
02 — Santiago de Chile Metro - Installation of elevators - Implementation of the CBTC system
03 — Cautín Bridge
04 — Malleco Bridge

COLOMBIA

01 — El Dorado Airport, Bogota
02 — Olaya Herrera Airport, Medellín
03 — El Caraño Airport, Quibdó
04 — José María Córdova International Airport, Rio Negro
05 — Transmilenio BRT System - Villavicencio Avenue, Bogotá
06 — Río Magdalena road concession
07 — Free Housing Program - La Victoria Real Estate Project in Sampués, Sucre Department
08 — Free Housing Program - San Francisco Real Estate Project in Momil, Cordoba Department

04

CHILE

The expansion of our activity in Chile continued with great success, as evidenced by the growth of our turnover (+60%) compared to last year. 2017 was focused mainly on transport infrastructure.

PUBLIC TRANSPORTATION INFRASTRUCTURE

After successfully completing the technical inspection of all works carried out on Lines 1, 2, 4, 4A and 5 of the Santiago de Chile Metro, TPF has been awarded with a new technical inspection mission for all other lines. We will carry out this mission over a period of 2 years, from 2017 to 2019.

The purpose of the agreement is to carry out the technical inspection for upgrade and maintenance works on the existing metro stations, workshops, corporate buildings and systems; thereby improving operation, capacity, safety and comfort. These projects are being developed along all lines of the Santiago Metro.

The scope of the contract is to supervise the work performed by contractors, by monitoring all related administrative, quality and quantity matters. The main services we provide encompass the review of detailed designs before work is initiated, the follow-up of the traceability of all construction materials, the approval of work procedures and the supervision of all construction activities

Works to be carried out include the installation of elevators in several stations of the Santiago Metro, the expansion of several stations as well as the implementation of the TETRA ACCESSNET-T IP mobile radio system on all lines and the Implementation of the CBTC (Communications-Based Train Control) system.

STRUCTURES

In the north and south of the country, TPF has completed detailed designs and studies for more than 142 railway bridges, totalling 6,900 m in length, of which 107 are made of steel, 31 are concrete bridges and 4 are masonry bridges.

Two of them stand out, however: the Cautín bridge and the railway bridge Malleco.

The first structure was constructed using different types of decks. The last reinforcement project involved the installation of suspension cables and counterweights.

The second structure is remarkable in several ways. The railway bridge over the Malleco river stands was declared a National Monument in 1990. It is the highest bridge in the Chile, has a length of 348 m and is statically indeterminate. Other remarkable features are its long service life (spans more than 100 years) and the use of different reinforcement systems in the bridge deck and piers.

05

COLOMBIA

In Colombia, more than 25 projects mobilized our teams this year. We have been awarded 10 new contracts, mainly for road infrastructure such as the Río Magdalena Motorway concession project and water and wastewater infrastructure.

PUBLIC TRANSPORTATION INFRASTRUCTURE

The airport sector is particularly dynamic in Colombia and TPF is honoured to take part in the modernization and expansion of several international airports.

Mission accomplished successfully in Bogota where our team has successfully completed services under the contract which has been awarded by the National Infrastructure Agency to develop a Management Plan (Program Manager) for **El Dorado Airport**, involving all stakeholders that may be involved in the normal development of the airport concession contract.

In central-northern Colombia, we have continued our work on a major airport contract. The assignment involves the provision of financial, administrative,

CHILE


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COLOMBIA


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technical, legal, operational, environmental and airport safety supervision services for concessionaire Airplan. The scope of the contract includes the following airports: **José María Córdova International Airport (Rionegro), Olaya Herrera Airport (Medellín), El Caraño Airport (Quibó), Los Garzones Airport (Montería), Antonio Roldán Airport (Carepa) and Las Brujas (Corozal**).

Also of importance this year is the final acceptance and inauguration of the **Montería Terminal** expansion as well as the airport service centre, pedestrian bridge and expansion of the passenger terminal in Quibdó. These works will boost economic and social development in the region.

TPF also continues to deliver Independent Engineering services for the upgrading of the **Ernesto Costissoz Airport in Barranquilla** and consulting services involving supervision of the construction for **airports in Bucaramanga, Cúcuta, Yopal and Aguachica**.

The airport sector was not the only one where TPF was extremely active. We also had the opportunity to work on public transit systems such as the Bus Rapid Transit System (BRT).

In Bogota, we won several feasibility studies and detailed design contracts, including the implementation of the **TransMillenio BRT system** on Avenida Villavicencio (4.7 km)

ROAD INFRASTRUCTURE

In Colombia, the group has once again confirmed its reputation and know-how in the field of road infrastructure. TPF has been involved in many projects from the design stage.

TPF has completed a contract aiming to carry out the overall (technical, financial and legal) structuring of **4 road projects**, with a total length of **77 km**, in the departments of the Cauca Valley, Antioquia, Córdoba and Boyacá. At present, we are delivering services for structuring **4 other road projects**, totalling **189 km** of secondary and tertiary roads, in the regions of Bolívar, Meta and the Cauca Valley.

In addition, we have made excellent progress with the feasibility study for the **Nuquí – Las Ánimas road link** in the Department of Chocó.

Supervision of road construction is another area in which TPF has extensive experience. We continue to provide technical, administrative, financial, social, environmental and safety supervision services to the Brigada de Reacción Vial for the rehabilitation of Group 2 of **Bogota's Arterial Road Network**. Moreover, we deliver comprehensive supervision services under the **Chía- Mosquera – La Mesa – Girardot road concession contract**.

We also provide land acquisition, social and environmental management services on the **Honda – Manizales road corridor project**. Works include road widening, construction of interchanges and other upgrades.

Among new contracts won this year is the **design of 18 kilometres of urban and road infrastructure** in Bogota. But not only, since TPF has also been selected to provide technical, legal, administrative and financial **supervision services** for the improvement, land acquisition, social and environmental management of two projects.

One of them is the "Transversal Central del Pacífico" road corridor contract, under the "Vías para El Chocó" Scheme.

The other contract was entered into with OHL Concessions to provide supervision services for the Río Magdalena Motorway concession project.

BUILDING SECTOR - URBAN PLANNING

In the building sector, TPF is mainly involved in the new Free Housing Program launched by the Colombian government, a program designed in response to the situation of thousands of households living in extreme poverty.

After successfully participating in the first phase of the program (19 projects - 5,000 households), TPF intends to continue its efforts to carry out the new mission entrusted by the Colombian Government's Fund for Development Projects (FONADE) for Phase II. The goal is to carry out the monitoring of 30 design-build-priority-housing projects (3,414 households) located mainly in the north-western area, the foothill plains and in the central and southern regions. There are different types of houses, such as one-storey single-family dwellings, two-storey two-family dwellings, and two-storey, three-storey, four-storey and five-storey multi-family houses.

WATER - ENVIRONMENT

In the fields of hydraulic engineering and environment, TPF plays an active role in the supervision and monitoring of several projects.

In Quibdó, TPF has been awarded a contract worth €2 million covering the provision of technical, administrative, financial, legal, environmental and social supervision services for **water supply and sewerage project**s. The projects have been launched by the National Unit for Disaster Management under the Todos Somos Pacífico Plan.

Our team also keeps working on 4 supervision contracts covering technical, financial, accounting, legal, administrative, operational, environmental, social and land acquisition consulting services for the **construction of hydraulic infrastructure in the municipal districts of Machetá, Cucunubá, Zipaquirá, Gachincipá, Cajicá and Tabio**.

06
ECUADOR

BUILDING SECTOR - URBAN PLANNING

With the acquisition of three new contracts in the field of education infrastructure, TPF is strengthening its presence in building engineering.

TPF is in charge of supervising construction for six High Education Units, with a daily capacity of 1,120 students, under the PARECF Scheme (Higher Education Reform) boosted by the Ministry of Education with funding from the World Bank. The HEU will be implemented in provinces of Pichincha, Los Ríos and Guayas, each unit covering around 28,000 m^2.

01 — **Construction of a new higher education unit**

ECUADOR


01


01

07

PERU

PUBLIC TRANSPORTATION INFRASTRUCTURE

In 2017, TPF has continued its activities in Peru where it is currently working on a dozen projects, including the construction of lines 2 and 4 of the Lima Metro, which we want to highlight.

For now, we are preparing the feasibility study for Line 4 and the detailed design of Line 2. It should be noted that the construction of Line 2 of the Lima Metro is among the largest infrastructure projects ever initiated in Peru. It will run east-west, cutting journey times to 45 minutes from at least 2 hours by bus, and will serve around 1,100,000 passengers per day. We provide detailed design services to the Private Developer awarded with the DFBOM contract. The assignment encompasses civil engineering design, structural design and design of the E&M and communications systems for the tunnel and the stations, as well as the architectural design of the stations.

ROAD INFRASTRUCTURE

TPF has been in charge of the monitoring and control of the contract for the road management, upgrading and maintenance by levels of service of the Cañete – Lunahuaná – Dv. Yauyos – Ronchas – Chupaca – Huancayo – Dv. Pampas highway corridor, with a length of 343 Km.

Under road management, upgrading and maintenance contracts by levels of service, the responsibilities of maintenance contractors are not limited to basic improvements, since other works are required as well, such as planning and executing activities to allow the road corridor to meet the service level requirements set up by the Client, along with all emergency works focused on maintaining adequate user safety and smooth traffic flows, on the basis of the established service level indicators. TPF provides consulting services to ensure the upgrading and maintenance works are carried out in accordance with the said level-of-service requirements and all necessary emergency works are performed along the whole corridor.

Works involve both upgrading of 149.4 Km (75.4 million soles) and maintenance by levels of service of 343.9 Km (150 million soles).

STRUCTURES

In Peru, impressive works are currently underway for the replacement of ten road bridges.

TPF is in charge of preparing technical files and supervising the construction works for the replacement of 10 road bridges on national road corridors: Sullana – Aguas Verdes Km 221 + 000 – Km 273 + 800 and Sullana – El Alamor Km 0 + 000 – Km 59 + 200).

The contract is divided into three parts:

- Service 1: the bridge of Panteón, Charán, La Cruz and Corrales
- Service 2: the bridges of El Viejo, Monteo, Algarrobillo, Arrozal and Lagarto
- Service 3: the Venados bridge

At present, we are at the final stage involving the review of technical files concerning Service 1 and Service 2 before submitting them to the client so that they may be approved and works undertaken in July 2018.

As for Service 3, we are at the construction supervision stage. This bridge will benefit the town of Lancones, the province of Sullana and the Piura region. Besides, it will allow for effective road connection in the country with Ecuador. The bridge is a concrete structure with 4 lanes in each direction and a total length of 350 m.

01 — Line 2 of Lima Metro
02 — Line 4 of Lima Metro
03 — Improvements to the Cañete Road Corridor -Lunahuana - Dv. Yauyos - Ronchas - Chupaca-Huancayo-Dv
04 — Venados Bridge

PERU


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North America


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MEXICO

Water in Mexico is an area of great interest for TPF. This year, our consulting engineers specializing in hydraulics were involved in projects in both public and private spheres.

WATER - ENVIRONMENT

TPF signed a subcontractor agreement with INEXPROC, SA de CV to perform a hydraulic transient analysis for the relocation of the **water pipeline extending from Peñón to Texcoco,** in the Mexico Valley.

Among contracts in progress, we can mention the feasibility study and the detailed design of the **Nopala water supply system in the State of Hildago.**

The scope of the detailed design project covers over 28 towns in the region of Nopala de Villagrán, reaching a population of 7,500 people. The main technical features are as follows: average flow: 10.87 l/s; peak daily flow: 13.07 l/s, pipeline: 34,645.06 m in length, with diameters ranging from 2 to 6 inches; balancing reservoirs with a regulating capacity of 50 and 10 m3; and 2 pumping stations.

02

UNITED STATES

PUBLIC TRANSPORTATION INFRASTRUCTURE

The construction of the California High-Speed Rail is undoubtedly one of the most ambitious projects on the North American continent and TPF is proud to be part of it. Construction is progressing fast as completion rate has now reached 75%.

The first step is to build a high speed line between San Francisco and Los Angeles reaching a speed of up to 350 km/h, which would then connect Sacramento to San Diego over a distance of 1,288 km. Just like last year, we provided civil engineering services.

Stakes are high because this second high-speed rail contract could act as a stepping stone to boost our activity in the United States.

TPF also worked last year on the Texas HSR project between Houston and Dallas: a route of 386 km reaching a speed of 330 km/h. TPF has carried out, as lead designer, the preliminary design of 120 km of the HSR infrastructure including civil and electrification works. Nearly 91 structures will mark this section which will cross the city of Houston.

MEXICO

01 — Nopala Water Supply System

UNITED STATES

01 — California HSR Project
02 — Texas HSR Project

MEXICO


01


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01

UNITED STATES


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Asia


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CHINA

BUILDING SECTOR - URBAN PLANNING

Among topics that have made the news this year, we will undoubtedly remember our first project management mission on Chinese soil.

This is part of an innovation project related to the construction of an energy efficiency model in the district of Dream Town, west of the innovative city of Hangzhou. It should be noted that Hangzhou is the first city in the world to apply artificial intelligence technology to help public management of the city and promote its sustainable development. In this context, TPF was asked to propose innovative 100% French energy efficiency solutions. In the course of 2018, the company will showcase its project in the Dream Town Internet Village.

About fifteen people from six high-tech start-ups are currently working to create this bespoke innovation ecosystem. If this concrete integration approach is successful, the objective of the mission is to export its development to other regions of China.

This work "hand in hand" with our customers and partners will demonstrate that the energy bill of inhabitants can be reduced with a smartphone application specific to each user.

In the Macau peninsula, TPF successfully provided technical supervision and management of the Zape 9A1 and 9A2 residential project.

Located on an area of 2,320 m², the complex is made up of two interconnected buildings of 23 and 26 floors above ground and 4 basement levels each. In total: a building area of 36,200 m², 339 apartments, 18 shops on the ground floor and a car park with 226 spaces.

Specifically, TPF is responsible for coordination and technical assistance throughout the project development cycle: tender documents for subcontracting, structure implementation, work supervision.

The quality of our work in Macau has been praised by our client Companhia de Desenvolvimento Predial San You, Ltd. This is evidenced by the new service contract they entrusted to us this year as part of the Lot 135 residential project.

Located on an area of 2,787 m², the complex is composed of two interconnected buildings of 16 and 27 floors above ground and 5 underground levels each. In total: a construction area of 49,700 m², 408 apartments, 21 shops on the ground floor and a parking with 345 spaces. The complex will have a swimming pool.

This is a new challenge for TPF's teams who will provide technical supervision and management for 19 months.

02

EAST TIMOR

ROAD INFRASTRUCTURE

In the Oecusse enclave, TPF is participating in the development of infrastructure in the ZEESM TL Special Economic Zone.

During the year, our local team oversaw the construction of several bridges and some 50 kilometres of roads.

WATER - ENVIRONMENT

The Government of Timor-Leste places improving access to water and sanitation at the heart of its development priorities. To our satisfaction, TPF has been approached by the National Directorate of Water and Sanitation Services of East Timor as part of the implementation of the drainage master plan for the city of Dili.

Implementation studies are currently underway and are part of priority sanitation and drainage works as defined in the 2014-2015 master plan.

Our mission also includes the regularization of the Maloa, Kuluhun, Santana, Bemori and Becora rivers, the displacement of the population affected by the works, the drainage network as well as the construction of new bridges and sea discharge.

CHINA

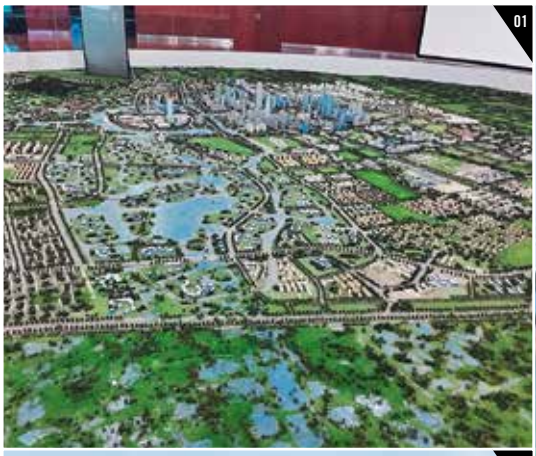
01 — Sketch of the Dream Town

02 — Residential project Zape 9A1 and 9A2 (Macao)

EAST TIMOR

01 — Priority sanitation and drainage works` in the city of Dili

CHINA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EAST TIMOR


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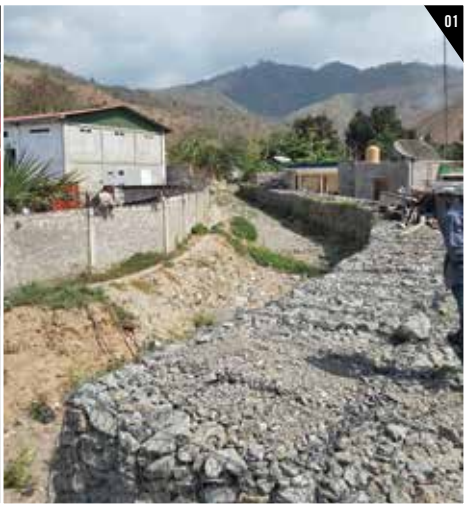
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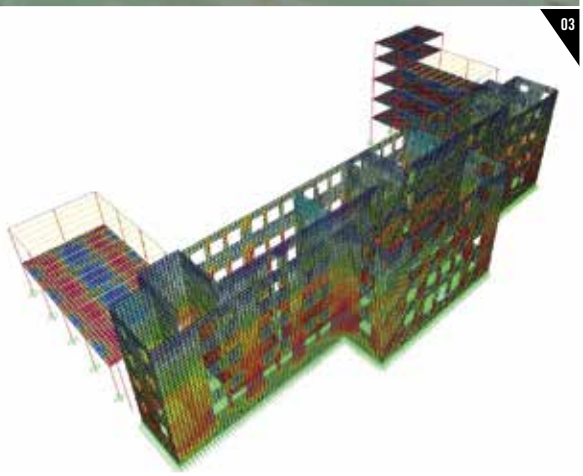
GEORGIA



INDIA

03
GEORGIA

Urban and interurban public transport and school buildings are areas on which our experts have focused.

PUBLIC TRANSPORTATION INFRASTRUCTURE

As for the Metro sector, the design, procurement, management and supervision of the **Tbilissi Metro Line 2** project has reached its final stage, since the works for the extension and the construction of 2 stations have already been completed.

ROAD INFRASTRUCTURE

As for interurban transport, it is worth mentioning the **Poti Grigoleti-Kobuleti bypass** project. This year saw the successful accomplishment of the project's feasibility study. We also completed the detailed design of the Grigoleti-Kobuleti bypass (Lot 1), while the detailed design of the Poti-Grigoleti section (Lot 2) is at a very advanced stage. A remarkable feature of Lot 2 is the viaduct over the Rioni River, with a length of over 400 m.

BUILDING SECTOR - URBAN PLANNING

During the year we worked on a project financed by the CEB involving the refurbishment, **upgrading and seismic retrofitting of 25 public school buildings**. We selected 3 schools where renovation works could immediately be undertaken as pilot sub-projects, and prepared designs and tender documents for the three schools. Special attention was paid to seismic performance to ensure the schools are retrofitted to a life-safety standard, in accordance with ASCE (formerly FEMA 310).

GEORGIA

01 — Grigoleti-Kobuleti bypass
02 — Rioni River viaduct
03 — Tbilissi Public School - Post-seismic rehabilitation and modernization

INDIA

01 — Lumding - Silchar Broad Gauge Railway Line Project, State of Assam
02 — Rehabilitation and modernization of two road sections of the NH-361B (Lot 40)
03 — Improvement of the road network in India: 800 km of national roads in the state of Manipur
04 — Improvement of the road network in India – Development of a dedicated freight corridor in the State of West Bengal

04
INDIA

For decades, TPF has supported authorities in the development and improvement of road and rail infrastructure. The 2017 edition will have been no exception, as evidenced by the many projects currently underway.

PUBLIC TRANSPORTATION INFRASTRUCTURE

In the Assam State, the Geoconsult-RITES consortium appointed us as part of its contract with Northeast Frontier Railway (NFR) in order to lead the geotechnical investigation work for Lumding - Silchar Broad Gauge Railway Line and to work on slope stability assessment. Our mandate is for a 75 km section.

The proposed BG line will be benefitting the Barak valley people and also other North-eastern states like Tripura, Mizoram and Manipur. It demanded the mobilization of 7 Rigs, along with SPT and sampling assemblies. Carrying out the boring, drilling work for 44 boreholes up to a depth of 40 mts was rather difficult. It also involved grouting and installation of Inclinometers and Extensometers into the bore-hole for monitoring purposes. Permeability tests were also carried up to the final depth of boreholes. Laboratory tests were also conducted in our NABL accredited Laboratory at Kolkata.

ROAD INFRASTRUCTURE

In India, TPF has established itself as the reference engineering body for road infra-structure. The company is currently working on more than 4,000 km of roads.

Detailed Project Report (DPR) work for over 1,553 km is being executed for 6 projects in the state of Maharashtra and 2 projects in the state of Karnataka with the use of LiDAR technology for up-gradation of two lanes with paved shoulders to various other configurations.

Various road networks where work is being carried out are as follows:

– Package No. MU 28: Palghar District, Maharashtra

- Package No. MU 34: Ratnagiri District, Maharashtra
- Package No. MU 38: Sindhudurg District, Maharashtra
- Package-Nagpur-75: Chandrapur District, Maharashtra
- -Package-Nagpur-76: Chandrapur District, Maharashtra
- Package-Nagpur-72: Gondia District, Maharashtra
- Shimoga to NH-4 via Shikaripura-Hangal-Tadasa, Karnataka
- NH-4 Tadas-Kalghatagi- Dharwad-Hebsur-Navalgund-Annigeri to NH-63, Karnataka

In the state of Maharashtra but this time for the Ministry of Road Transport, Highway and Shipping, TPF commenced work as the authority engineer on a project in the State of Maharashtra on EPC mode in 2017.

TPF was responsible for providing consultancy services for Package No. 40 as authority's engineer for supervision of rehabilitation and upgradation to 2 lane with paved shoulder/ 4-lane standards of National Highway section:

- Kalamb – Ralegaon – Wadki section of NH-361B (Length - 50.275 km)
- Ralegaon- Sirasgaon–Vadner section of NH-361B (Length - 27.199 km)

In the State of Mizoram, we are providing consulting services for project management including preparation of feasibility study/ detailed design report for two laning with paved shoulder of two stretches on NH-54.

The agreement with the Ministry of Road Transportation, Highway and Shipping covered the stretches from Km 40.00 to Km 118.00 and from Km 147.00 to Km 170.00 (Length 105 Km).

TPF has been mandated by the National Highways Development Corporation Limited for feasibility studies and the preparation of detail design reports (DPR) to improve the Indian road network in several States.

In the densely populated **State of West Bengal**, we have been appointed for the development of 250 km of Economic Corridor. The project mainly envisages development of a dedicated freight corridor for smooth and conflict free movement. Designing 4/6 lane corridors with 60-100m corridor width requires bypassing major settlements. The project was awarded in September 2017 and needs to be completed within 8 months from commencement.

In the **State of Manipur**, TPF has been awarded 800 km of road design project in 2 packages. This 800km road length comprising of 6 roads touches many important State locations and covers the state from East to West and North to South. Once developed, these roads will improve the total transport network of the Manipur State by manifolds. The routes pass through very tough terrain, with a steep hill on one side and a deep valley on the other side. The major challenge is that there are several land slide prone areas which are highly accident prone and are safety hazards. Apart from designing a 2-lane hilly road, the project involves providing innovative solutions for erosion, land-slides, sinking zone issues etc. The site work was challenging considering the narrow road and safety issues and difficult terrain. The project was awarded in November 2017 and needs to be completed within 8 months from commencement.

STRUCTURES

In May this year, our company signed a new contract with the Ministry of Road Transport and Highways (MoRTH) for the supervision of construction works for replacing the super-structure of the existing Mahatma Gandhi Setu bridge in Patna, the capital of the State of Bihar.

The four-lane structure passes over the Ganges and is located on the NH19 national road (from km 212.72 to km 218.95). Stretching over 5,575 km, it is one of the longest road bridges in the world. This project is being executed on EPC mode by the client and is the single largest work ever won by TPF in its history in India.

Our geotechnical engineers have been invited to conduct investigations and geotechnical engineering missions related to the construction of two bridges on the Brahmaputra River in Guwahati, Assam State. The proposed bridges will result in expansions of the city towards the north bank which will reduce the congestion in the existing city areas.

SMEC India Pvt. Ltd. has been appointed by the Guwahati Metropolitan Development Authority (GMDA) to carry out the feasibility study and detailed design (DPR), and appointed us as a consultant for Geotechnical Engineering. Carrying out boring, drilling work for 68 boreholes up to a depth of 70 meters was challenging. It also involved drilling work in soil under water, up to a maximum depth of 12mt (during high tide). TPF's qualified engineers and supervisors had worked relentlessly to make this project a success. The laboratory tests were also conducted in our NABL accredited Laboratory at Kolkata. 50 % of the work is completed.

Another major project in the State of Jammu and Kashmir, at the very heart of the Himalayas is the Chenani-Nashri tunnel, which is the longest road tunnel ever built in India (9 km).

TPF supervised the construction of this dual lane monotube structure which was officially inaugurated in April 2017. We now have three years ahead of us to supervise the operation of the tunnel.

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05 — **Supervision of replacement works for the Mahatma Gandhi Setu Bridge superstructure in Patna**
06 — **Construction of two bridges on the Brahmaputra River in Guwahati, Assam State**
07 — **Chenani-Nashri Road Tunnel, State of Jammu and Kashmir**


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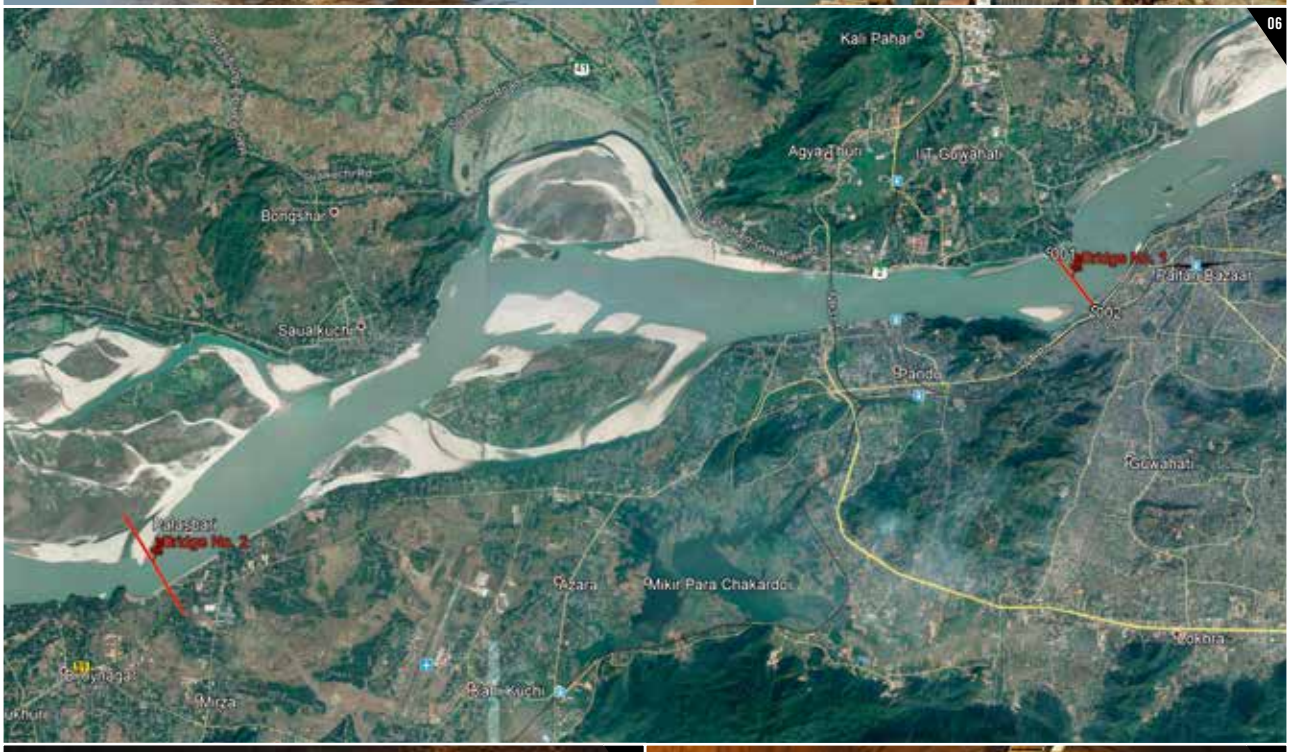

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LAOS

ENERGY

These past months have allowed TPF to reaffirm its expertise and know-how in hydroelectric planning, from the collection and analysis of data based on geo-spatial characteristics to the presentation of results.

The 12-month consortium contract with the Ministry of Energy and Mines of Laos as part of the support program for the energy sector confirms this.

Studies we are currently carrying out will make it possible to perform a cartographic representation (Mapping) of mini-hydroelectric plants on the whole territory. These studies are part of the World Bank's Renewable Energy Resource Mapping Plan. Their purpose is to analyze, quantify and map available renewable energy resources in order to set up development strategies and identify priority areas of interest for the implementation of mini hydro-electric power plants.

06
PHILIPPINES

PUBLIC TRANSPORTATION INFRASTRUCTURE

TPF has provided Independent Checking Engineer Services for Manila's Light Transit Rail Line 1 (LRT1) Extension and O&M project.

The assignment involves the transfer to the concessionaire company of responsibilities for Operation & Maintenance of the existing line, and for the construction and Operation & Maintenance of a 11.7-km long extension (10.5 km elevated and 1.2 km at grade) and the stations along the route (9 elevated and 1 at grade). The project is intended to increase daily passenger capacity from 500,000 to 800,000 throughout the 32-year concession period.

ROAD INFRASTRUCTURE

During the year we have been engaged in the Operation & Maintenance of the Muntinlupa Cavite Expressway (MCX) toll road project.

Inaugurated in July 2015, this 4 km facility connects the South Luzon Expressway (SLEX) to Daang, south of Manila.

TPF was also responsible for overseeing the design and implementation.

07
SAUDI ARABIA

PUBLIC TRANSPORTATION INFRASTRUCTURE

A consulting mission has just ended to the utmost satisfaction of the Saudi Railways Organization (SRO).

More than four years have been dedicated to the supervision and management of maintenance work on the signalling and communications systems on Line 1 Damman - Hofuf - Riyadh and Line 2 Damman - Hofuf – Hard - AL Kharj - Riyadh.

At the same time, we continued our work on the Haramain high-speed rail project which has been entrusted to the Hispano-Saudi consortium Al-Shoula.

We have kept on collaborating with Renfe Saudi Arabia Branch, a member of the Al-Shoula Consortium, by providing project management services and comprehensive management support related to the construction of **two depots in Mecca and Medina**, during Phase II of the Haramain high-speed rail project.

For the sake of completeness, let us add that from spring 2018, the 450 km long line will connect the holy cities of Mecca and Medina via Jeddah.

In the field of public transport, TPF also plays a leading role in major projects such as the Riyadh metro.

We have continued to make good progress on the Riyadh Metro project. We provide Independent Checking Engineer services, which include the **design of Line 1 and Line 2 (Package 1)**, especially the underground works and stations, the elevated stations and viaducts, and the track.

LAOS

01 — Hydroelectric planning in Laos

PHILIPPINES

01 — Extension of LRT1 light rail line in Manila
02 — Muntinlupa Cavite Expressway toll-road, known as the MCX

SAUDI ARABIA

01 — Railway Line 1 Damman - Hofuf - Riyadh
02 — Riyadh Metro

LAOS

PHILIPPINES

SAUDI ARABIA

TURKEY


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VIETNAM


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08

TURKEY

PUBLIC TRANSPORTATION INFRASTRUCTURE

This year again, it is important to focus on performance achieved in the field of transport infrastructure.

TPF is responsible for the quality control of upgrade works to the signalling and communications systems on the **railway sections** connecting **Bogazköprü to Yenice** and **Mersin to Toprakale**. We are also in charge of the construction supervision of the **Adapazari - Karasu Port railway line**.

In addition, the contract signed in 2008 for the coordination of the construction of the **Ankara – Istanbul High Speed Rail Line** has been extended until 2019.

ROAD INFRASTRUCTURE

In the road sector, we completed the supervision of the design of 15 motorways and more precisely those of:

Afyon - Antalya, Antalya - Alanya, Delice – Samsun, Denizli – Burdur, Ankara – Dumlupınar, Dumlupınar – Izmir, Kinali – Çanakkale, Canakkale – Savastepe, Merzifon – Koyulhisar, Gerede – Merzifon, Sanlıurfa – Habur, Sivrihisar – Bursa, Horasan – Gurbulak, Koyulhisar - Pulumur and Pulumur – Horasan Highway.

MARITIME AND PORT INFRASTRUCTURE

TPF is also responsible for the preliminary study of the new **Istanbul cruise terminal**, the development of alternative proposals to the master plan (400,000 m² intervention area) as well as conceptual studies of several buildings in the terminal.

BUILDING SECTOR - URBAN PLANNING

In Turkey, TPF's good level of activity is largely due to urban transformation projects in Istanbul and to the project to create three artificial islands (1,500 hectares) in the Marmara Sea.

In Istanbul, on behalf of the Istanbul Metropolitan Municipality (Istanbul Buyuksehir Belediyesi), TPF is currently conducting preliminary design studies for the construction of a **solar parking** and the development of an **urban park** in accordance with principles of sustainable development.

The Municipality of Istanbul has used our services for design studies of three **artificial islands in the Marmara Sea** which will be built by backfilling the seabed (3,865 hectares) for the Kanal Istanbul megaproject connecting the Black Sea to the Sea of Marmara. Hotel resorts, shops, local services, housing, a financial centre, marinas, care institutions and services, schools, sports facilities will be located on 1,500 hectares of these artificial islands. Our mission includes, on one hand, evaluation of geotechnical conditions, design of the master plan, estimation of construction costs and analysis of the economic viability and, on the other hand, architectural, technical and economic aspects of the project.

During this year, TPF also became involved in many other projects.

We provided construction supervision services for several buildings in the cities of Ordu and Bayburt.

Moreover, it is worth mentioning that several construction supervision projects have reached their final acceptance stage, such as the **logistics centre and buildings for the OKA agency** in Samsun, and the expansion of the **Elazig industrial park**.

09

VIETNAM

PUBLIC TRANSPORTATION INFRASTRUCTURE

This year, we have been working on major BRT projects which will contribute to sustainable urban development in Vietnam.

Of particular importance in this respect is the supervision of the construction of a BRT system in Da Nang. The work is progressing as planned.

ROAD INFRASTRUCTURE

At the same time, we have provided technical assistance to the Vietnam Expressway Administration VEA.

The purpose of the assignment is to perform an assessment of the current situation of the organization, use a benchmarking process for comparing international expressway management models that have proved successful, and propose a new organizational model and recommendations for its implementation.

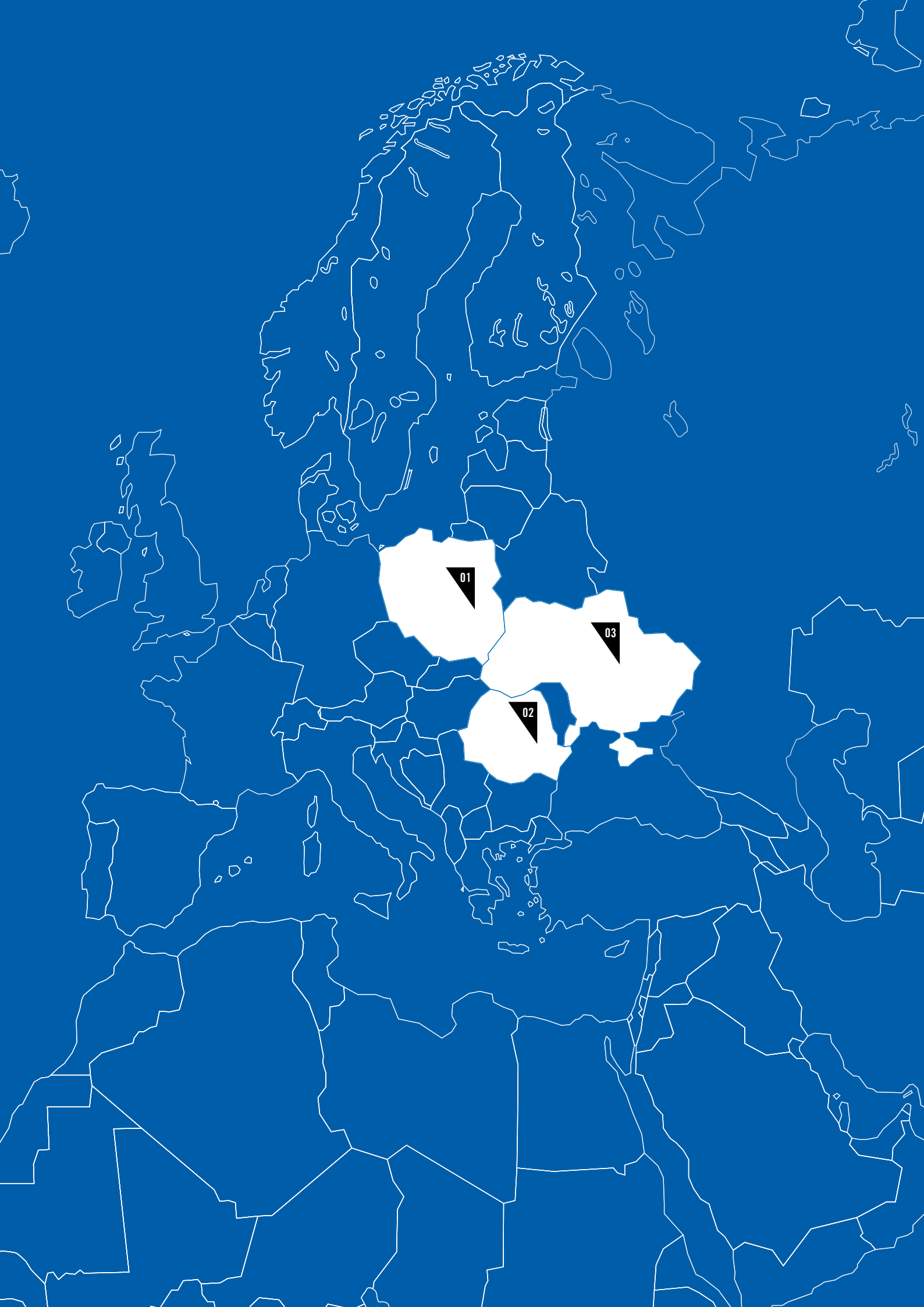
TURKEY

01 — **Ankara – Istanbul High Speed Rail Line**
02 — **New cruise terminal in Istanbul**
03 — **Development of an urban park, Istanbul**

VIETNAM

01 — **BRT system in Da Nang**

Eastern Europe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POLAND

PUBLIC TRANSPORTATION INFRASTRUCTURE

While our activity in the road sector has been particularly intense this year, rail remains one of our specialty fields. This year, TPF followed many projects including the line 447 modernization project between Warsaw Wlochy and Grodzisk Mazowiecki, one of the major railway investment projects in the Warsaw area.

Modernization of the railway infrastructure will improve passenger rail transport in the Warsaw Metropolitan Area. This investment includes the replacement of railway infrastructure, rail traffic control equipment, catenary, power equipment, railway crossings, engineering structures, buildings and platforms. TPF was entrusted with the Author's and Investor's supervision of the works.

Our highlights this year include the signature of two new contracts as part of the modernization of railway lines No. 208 and E75.

TPF signed 2 contracts for preparation of pre-design documentation for the following projects:

- "Works on the railway line no. 208 on the section Grudziadz - Tuchola - Province border" and "Revitalization of railway lines no. 208 and 33 on the section Grudziadz - Brodnica "
- "Works on railway line E75 on the section Białystok - Suwałki - Trakiszki (state border), stage II section Ełk - Trakiszki (state border)"

In 2017, TPF also worked for PKP Polskie Linie Kolejowe SA on the reconstruction project of the Olsztynek railway station north-east of the country.

This project is implemented in a consortium with the company Decorum Architekci sp. z.o.o. and concerns the development of technical documentation and estimation of the costs for reconstructing the railway station. It is implemented as part of the Eastern Poland Operational Program (POPW) projects run by the Beneficiary PKP PLK SA.

ROAD INFRASTRUCTURE

In Poland, TPF remains a significant player involved in many road infrastructure projects. Our expertise has been solicited many times this year.

In 2017, TPF won 3 contracts for the supervision of design and construction works of the S61 expressway Ostrów Mazowiecka in Budzisko.

Works are divided into 3 sections with a total length of 60,844 km:

- Junction Kolno (with junction) - Junction Stawiski (without junction);
- Junction Stawiski (without junction) - Ring Road Szczuczyn;
- Ring Road Suwałki – Budzisko.

01 — Modernization of railway line 447 between Warsaw Wlochy and Grodzisk Mazowiecki
02 — Olsztynek Railway Station
03 — Construction of the S-6 expressway, section Goleniow - Kielpino
04 — Design and construction of the S-8 expressway from the Marki interchange, without the interchange itself, to the Radzymin interchange
05 — Transformation of National Road No. 8 into an express way, section Wyszkow - Podlasie province border
06 — Extension of the Atrium Reduta shopping centre, Warsaw

POLAND


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06

The expressway S61 will be one of the Polish sections of the E67, Via Baltica and Via Carpatia routes.

The infrastructure covered by this other major project includes a road section on the S-19 Lublin - Rzeszów Expressway.

TPF signed a contract for the supervision of design and construction works and services for the management of the S19 expressway. TPF will be responsible for supervision on a section of the Janów Lubelski Ring Road.

At the same time, TPF continues to be involved in the supervision and construction for the S6 expressway project with a total length of 54.1 km. Work completion is scheduled for 2019.

Our tasks include services for the management, coordination, control and investor's supervision regarding the implementation of 3 separate contracts for the design and construction of expressway S6 Goleniow-Kielpino.

Works are divided into 3 sections with respective lengths of 19.78 km; 20.361 km and 14.614 km. The S6 expressway will connect metropolitan centres (Szczesci, Trójmiasto), regional centres (Koszalin Słupsk) and sub-regional centres (Kołobrzeg) north-west of Poland.

On the border of provinces Kujawsko-Pomorskie and Wielkopolskie, our teams are still working on the S-5 expressway construction site featuring a total length of 23.3 km.

The Nowe Marzy-Dworzysko section is the first of seven planned sections for the upcoming S5 Expressway Nowe Marzy - Bydgoszcz, for which TPF is supervising construction. End of construction is scheduled for 2019.

A similar project is the design and construction of the S-8 expressway between the Marki interchange, without the interchange itself, and the Radzymin interchange. TPF is responsible for investment management and supervises construction works.

The S-8 road is located in the Masovian district and runs through the communities of Marki, Zielonka, Zabki, Kobyłka and Radzymin.

Works are divided into 2 main tasks and should be completed in 2018.

- Task I - Project and construction of the S-8 expressway on the section from junction "Marki" (without the junction) to junction "Kobylka", with a total length of 8.129 km;
- Task II - Project and construction of the S-8 expressway on the section from junction "Kobyłka" (without the junction) to junction "Radzymin Pld.", with a total length of 7.24 km.

TPF signed 3 separate contracts for the supervision of construction works for national road No.8 (between Wyszków and the Podlasie province border) adjusting its parameters to expressway requirements.

The total length of the section is 38.51 km. Tasks cover services for the management, coordination, control and investor's supervision. Works are divided into 3 sections with respective lengths of 13 km, 16.1 km and 9.41 km. This mission will continue until 2018.

BUILDING SECTOR - URBAN PLANNING

In Poland, the development of the company is not limited to rail and road activities. In Warsaw for example, our expertise and our valuable knowledge in the field of building engineering have enabled us to participate in the reconstruction and expansion of the Atrium Reduta shopping centre and in the reconstruction of the office building for the needs of the Children's Aid Centre for FDDS (Empowering Children Foundation).

With regards to the Atrium Reduta shopping centre, the goal is to expand the tenant's area from the side of Al. Jerozolimskie Street and to design the foodcourt space on the top floor. The project is implemented in three stages.

As for the reconstruction project of the office building, it includes the renovation and adaptation of existing rooms of a requirements of the Children's Aid Centre.

For these two projects, we were entrusted with the development of technical documentation and estimation of reconstruction costs.

02
ROMANIA

MARITIME AND PORT INFRASTRUCTURE

In terms of port infrastructure engineering, our engineers successfully implemented the feasibility study for the modernization and extension of Ovidiu Port, including all related field studies and financial estimates, and obtained all the necessary construction permits.

The project concerns the construction of a new port on the left bank of the Danube river at Poarta Alba – Midia - Navodari in the ships/barges return area and also upgrading the old port on the right bank of the river.

BUILDING SECTOR - URBAN PLANNING

This year was marked by the receipt of the technical assistance contract for the rehabilitation of 11 facilities belonging to Apa Nova Veolia.

TPF role is to provide technical expertise, topographical and geotechnical surveys and detailed design for the rehabilitation of 11 administrative, office and laboratory buildings. The contract also includes fit-out design and utilities upgrade for ensuring proper building use.

In parallel, TPF was contracted by the Ministry of National Defense to provide engineering services for investments in various military facilities (Buzau, Focsani, Mangalia, Medgidia, Constanta).

Those investments envisage rehabilitation of a historical monument garrison in Constanta, reinforcement and capital repairs of facilities in Focsani, Constanta, Medgidia, Buzau, refurbishment of utilities in Mangalia.

01 — Historic building, Focsani
02 — Refinery Project - Green Oil & Lubes, Oltenita
03 — Water Infrastructure in Arges County
04 — Topographic and Geotechnical Work in Bistrita-Nasaud County
05 — Apa Nova Veolia Sewage Treatment Plant, Bucharest


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TPF role is to ensure design, design checking according to national legislation on construction quality and supervision of construction works.

In the industrial sector, TPF prepared the Pre-Feasibility Study and related bathymetrical studies for the construction of special facilities for GREEN OIL & LUBES Refinery.

The investment includes new facilities for used oil and lubes and also mooring and navigation facility on the Danube river (near Oltenita) and berth layout (including top side facilities).

WATER - ENVIRONMENT

In the water sector, TPF focused on the FEDER 2014-2020 regional development program for the improvement of drinking water and wastewater systems for inhabitants of Arges and Bistrita-Nasaud counties. In 2017, we initiated Technical Assistance for the preparation of Funding Application and Tender Documents.

In Arges County, the project consists of investments in water treatment and wastewater collection and treatment in rural and urban settlements of over 2,000 L.E., thus, complying with the EU directives on the quality of life. The project covers investments in: 32 chlorination units, 52 new and rehabilitated water tanks, 196.5 km main water pipes, 323 km distribution water pipes, 370 km water pipes, 43 pumping units, 2 new and rehabilitated Waste Water Treatment Plants, 32 new Waste Water Pumping Stations, 261 km wastewater network.

The Consortium led by TPF was contracted to prepare the Feasibility Study and Funding Application for EU funds for phase 2014 – 2020, together with the tender documents for services / equipment / works contracts, provide technical assistance from the Designer during the construction and technical assistance for project management. The first phase of the project - preparation of the Feasibility Study, including topographical, geotechnical and hydrological studies and environmental impact assessment - was already approved by the Beneficiary.

In Bistrita-Nasaud County, investments in the water and the wastewater system consist of: 18 new dwells, rehabilitation of the county Treatment Plant, 2 chlorination units, 21 new and rehabilitated water tanks, 49.8 km main water pipes, 69 km water pipes, 3 pumping units, 6 new and rehabilitated Waste Water Treatment Plants, county Waste Water Treatment Plant capacity extension, 73 new Waste Water Pumping Stations, 8 km of main wastewater pipes and 252 km wastewater network.

TPF, as leader of the consortium formed with CCAT has finished the preparation of the Feasibility Study (including topographical, geotechnical and hydrological studies and environmental impact assessment) and started the elaboration of the Funding Application for EU funds for phase 2014 – 2020, together with the tender documents for services / equipment / works contracts.

The project also aims at providing technical assistance from the Designer during the construction and technical assistance for project management and works supervision.

By obtaining this second engineering services contract for Apa Nova Veolia, TPF intends to further integrate the private sector.

The project in question concerns **the extension and rehabilitation of the water and wastewater infrastructure in Bucharest**. The contract includes the elaboration of the Feasibility Study and corresponding field surveys for 50 works locations in Bucharest, elaboration of conceptual and detailed design and tender documents for the works contracts.

03

UKRAINE

BUILDING SECTOR - URBAN PLANNING

In Ukraine, in the historic centre of Lviv, a UNESCO World Heritage Site, TPF has been involved in a project to restore and enhance historic monuments, and in an urban development project.

The first project concerns the restoration of **St. George's Cathedral** baroque-rococo style built in the 18th century and in particular the restoration of the Bell Tower, the Metropolitan Chambers and the Bram with stone sculptures. TPF carried out technical studies for this project.

The second project is inherent to the development of **High Castle Park**. The project includes the installation of the cable railway on the mountain « High Castle » from the central part of the city, including the organization of transport and pedestrian traffic and engineering networks. TPF carried out a detailed plan of the territory.

UKRAINE


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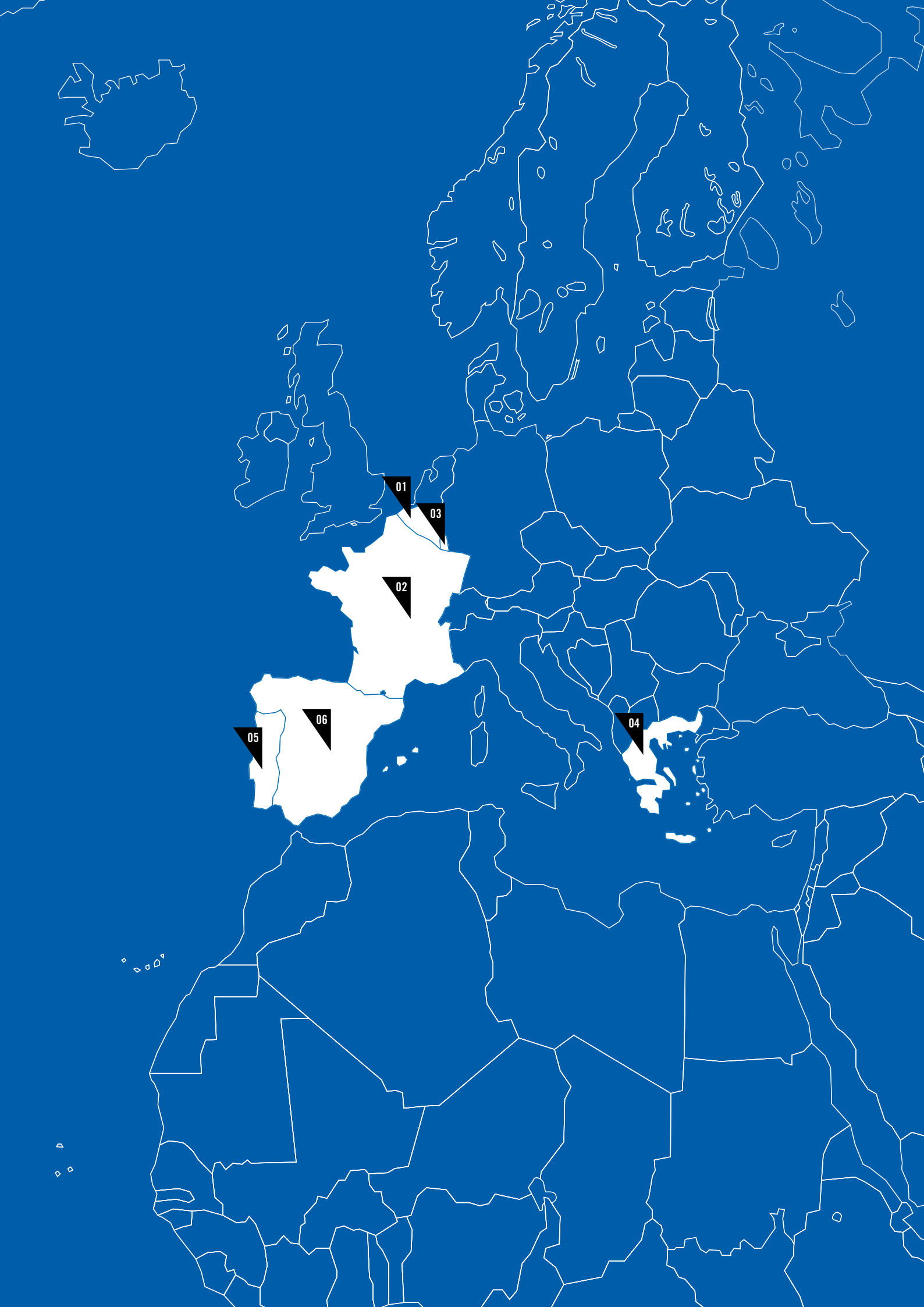
01 — **St. George's Cathedral, Lviv**
02 — **Development of the High Castle Hill Park, Lviv**

Western Europe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01

BELGIUM

PUBLIC TRANSPORTATION INFRASTRUCTURE

Although many public infrastructure projects have been postponed and are waiting for a fresh start, TPF has nevertheless been able to continue its work under the Brabo II project in Antwerp.

The Brabo II project is an integral part of the 2020 Mobility Master Plan in and around the Antwerp agglomeration. On one hand, it concerns the development of the North line which enable tramway connection between the centre, the district of Eilandje and the north of the city and on the other hand, it aims is to reorganize arteries and city squares along the route.

Stability studies and site supervision which were entrusted to us by BAM concern the redevelopment of the Operaplein, the reconstruction of the current pre-metro station as well as the construction of a road tunnel and underground parking.

BUILDING SECTOR - URBAN PLANNING

In the building sector, 2017 saw the completion of some projects and the start of other new projects, whether in terms of renovation or new construction.

Without a doubt, the "Atenor-Wilfried Martens Building" project illustrates TPF's desire to be recognized as a major player in the study and design of sustainable real estate development projects.

During the Belgian Award Ceremony for Energy and Environment (EEAward) on June 08, 2017, the **ATENOR-WILFRIED MARTENS** building, currently home to the European Parliament, was nominated in the "Sustainable Building Award" category and won the special "Premium Media Partner Award" awarded by the IPM Press Group. Featuring an innovative energy concept, including a daring geothermal installation (geothermal piles installed at a depth of 240 m), this very low energy building offers an area of 30,000 m² on 13 levels above ground and has also obtained the "Excellent" BREEAM certification. Our design office has been in charge of technical building services and acted as EPC Advisor until the permission stage (with target values of K30 and E60).

Other passive building projects also came to an end in 2017, such as the construction of the new police station in the Brussels-West police zone in a residential area north of Molenbeek-Saint-Jean.

01 — **Brabo II project, Antwerp**
02 — **Atenor-Wilfried Martens Building / Brussels**
03 — **New police station of the Brussels-West police zone, Molenbeek-Saint-Jean**
04 — **New Jules Bordet Institute, Anderlecht**

BELGIUM

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02

© Architectes : Jaspers-J.Eyers & Partners – Bureau Marniel

03

© Architectes : BAEB Bureau d'Architecture Emmanuel Bouffioux

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© Architectes : BAEB Bureau d'Architecture Emmanuel Bouffioux

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© Architectes : BAEB Bureau d'Architecture Emmanuel Bouffioux

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© ARCHI 2000

04

BELGIUM


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This 3,079 m² building consists of 7 floors including 2 basement levels and is a good example of technology and sustainability. It contains a complex of cells and local audition and image analysis equipped with the latest technologies. To meet the energy and environmental challenge, the building is equipped, among other things, with heat and rainwater recovery systems, intelligent lighting with daylight simulation, solar panels and extensive green roofs of 347 m². Insulation levels is particularly high. The project has been named "Exemplary Building" by Brussels Environment. TPF was appointed for its skills in technical building services.

While the renovation and construction of office buildings are the focus of our attention, our activity in the sectors of housing, trade and real estate health has also grown significantly this year.

Near the Erasme Hospital, in Anderlecht, the new Jules Bordet Institute is now being constructed. With this project, Brussels will be equipped with the largest cancer centre in Belgium but also one of the most important centres for research and fight against cancer in Europe.

With an area of nearly 80,000 m², the new institute will be able to accommodate 250 beds and 40 beds for day-patients. The building will be organized on 10 levels including 2 underground levels (one fully buried and the other partially) and will include integrated cancer research laboratories, radiotherapy bunkers and 8 operating areas.

In the commercial sector, the renovation and extension of the shopping centre Les Bastions in Tournai is progressing well.

The end of construction is scheduled for 2018. The extension is important since the shopping centre will grow from 15,000 m² to around 30,000 m². The current car park will also be converted into an underground car park on two levels with 1,150 spaces (29,000 m²). We are in charge of the complete mission for stability and technical building services and are also acting as EPC adviser.

The same goes for the industrial sector. The highlight of this year is the successful construction of the new Mainfreight Crossdock Centre in Genk on behalf of Montea. The entire project covers an area of 50,000 m².

This modern centre is composed of 8,000 m² of storage space, 800 m² of offices, a car park and 60 loading docks on both sides of the building. As part of Montea's "Blue Label" guaranteeing the sustainability of its real estate portfolio, the cross-dock centre was designed to have the best energy efficiency, while respecting the financial and technical requirements of the client. The building has also been designed to maximize the benefit of natural light through its multi-storey orientation and glazed facades. Also note the perfect harmony between the colour of the building and the logo of the company. TPF is particularly pleased to have been able to participate in this project in terms of its architecture, technical studies (stability and technical building services) and site monitoring.

ENERGY

In Wallonia, the construction of the Moulins Saint-Roch wind farm developed by intercommunal IPALLE was successfully completed.

Four 2 MW SENVION MW100 wind turbines, each equipped with a 100 m diameter rotor, are now part of the landscape of Peruwelz and Beloeil entities.

TPF provided project ownership assistance for the construction and commissioning of the wind farm as well as the coordination of site safety.

MAINTENANCE AND OPERATION OF TECHNICAL INSTALLATIONS

TPF also strengthened its Maintenance business in Belgium with a new contract signed for a period of 4 years.

Our team of technicians now deals with preventive, conditional and evolutionary maintenance as well as the operation of technical installations (heating, cooling units and cooling towers, ventilation and air conditioning, fire protection, electricity, compressed air) for 25 buildings in the De Witte De Haelen complex of the Etterbeek Federal Police.

The role assigned to our team is also to reduce and control energy consumption by installing measurement devices that can generate alerts when thresholds are exceeded.

Also in Brussels, our longstanding collaboration with the Ministry of Defence led to a new contract for the installation of smart meters. A first for TPF whose mission was until now to carry out the maintenance and operation of technical installations in military buildings.

In addition to measuring energy consumption, these smart meters will provide the information required to improve and reduce it.

05 — **New Mainfreight Crossdock Centre / Genk**
06 — **Wind farm of Moulins Saint-Roch**
07 — **De Witte De Haelen Complex / Etterbeek**

02
FRANCE

PUBLIC TRANSPORTATION INFRASTRUCTURE

In the airport sector, TPF focused on repairing part of the tarmac at Bastia airport, to which planes crossing the Mediterranean are routed day and night in the event of an emergency.

More specifically, it involves the repair of the North and South taxiways, linking parking areas to the take-off and landing runways. This project, carried out by the territorial CCI of Bastia and Haute-Corse, is particularly constraining because the work must take place without interrupting airport traffic.

TPF is well acquainted with this sector. In Nice, we are involved in the redevelopment of the T2.3 and TUBA docking stations and in the "Charlie Taxiway, Echo Bravo strip and docking station 54" infrastructure works at the Nice Côte d'Azur airport and in Rouen Vallée de Seine, in the repair and compliance of the airport runway. On military base 125 in Istres, we were entrusted with a mission of assistance to project ownership for the work on aeronautical runways for the reception of new tankers A 330 MRTT Phenix.

BUILDING SECTOR - URBAN PLANNING

In terms of commercial infrastructure, TPF continued to supervise the construction of the brand village in Villefontaine, the first in the region. Its opening is planned for on May, 2018.

It is located between towns of Villefontaine and La Verpillière, where 21,000 m² of commercial space is being built on a 128,000 m² land area. This project is supported by SCI Vendôme Outlets and its partners La Compagnie de Phalsbourg and Freeport, and is aiming at BREEAM certification. It will include 82 retail stores (13 medium areas and 69 stores) and will have a car park (R4 + 1) with 1,600 spaces.

The village is a good example in environmental and architectural terms. It features a green roof covering the car park, ecological ponds using the principle of phyto-purification, and glass and wood shops. Involved in this project since 2015, TPF is currently finalizing monitoring of the works, including a mission of scheduling, steering and coordination of the works.

In the tertiary sector, our fruitful collaboration with Architecture Studio enabled us to finalize studies for the construction of head offices for the Picard Surgelés Group and the Schindler Group, market leader in escalators and elevators.

Schindler France has decided to leave the building of its current headquarters in Vélizy and to build a new head office on the same site. The new construction will see the light of day in 2019, and will offer 5,000 m² of office space and a corporate restaurant. TPF has been entrusted with a complete mission for all trade project management.

In Fontainebleau, the new head office of **Picard Surgelés** should also open at the end of 2019. This involves the construction of a building of approximately 4,000 m², as part of a design-build contract launched by the Société d'Economie mixte du Pays de Fontainebleau and won by the Demathieu & Bard / Studio / TPF architecture group. Its green roof and the care given to the landscaping of its surroundings will ensure perfect integration in its environment.

In Reims, in the heart of the Champagne city, TPF was selected to support the transformation of the former headquarters of Groupama.

The operation consists in the complete restructuring of the building, the conversion into office areas and the complete renovation of the façade. No less than 5,000 m² of floor space spread over seven levels will be started soon.

TPF is part of the project, acting as part of a multi-disciplinary design office in association with architectural firm Thienot, Ballan, Zulaica.

In the heart of the Saclay Plateau, Centre of Scientific Excellence in Paris, TPF is interested in the development of the Corbeville ZAC area between the districts of Ecole Polytechnique and Moulon. This scientific, economic and urban development project will link the different neighbourhoods of the urban campus. Its perimeter covers 94 hectares and 27 municipalities.

The Paris-Saclay public development institution has selected the UapS - Base - TPF group for the urban project management of the Corbeville concerted development zone (ZAC). Its role: to welcome research institutions, to support the development of the Paris-Saclay University on a global scale and to create new city districts including mixed real estate programs as well as a new hospital centre. Studies are currently underway and focus on water management, biodiversity, energy efficiency of buildings and waste recovery.

The rehabilitation of the former Mercure Assembly Centre (CMM) is another ambitious project of TPF.

The SPL Aerospace Istres-Etang de Berre entrusted TPF and the ATRIUM architecture agency with the rehabilitation of a building of more than 30,000 m² built in 1971 as part of the aeronautical development Jean Sarrail located in Istres. At the end of 2018, the site will be used to host various activities related to the aeronautics sector, in particular activities linked to the Dirigibles industrial plan prefiguring on site development and production of operational equipment. The rehabilitated building will house the construction of the Stratobus Prototype Flight Model (PFM), an autonomous stratospheric multi-mission platform halfway between a satellite and a drone. Stratobus is one of the projects selected by the French Ministry of Industry and Digital Technology as part of New Industrial France, and is being developed under the direction of Thales Alenia Space.

As part of this project, TPF provides a complete project management mission as well as the acoustics, maintenance and coordination of the fire safety system. The major challenge of the project is a particular structural constraint induced by the opening of 15 m high gates.

In September 2017, other flagship projects in the aerospace industry included the installation of service company RTE (Réseau de Transport d'Electricité) and its subsidiary Airtelis in their new premises located on the Pegasus Technopole at Avignon Airport.

This new location will enable the development of helicopter-borne activities, namely the monitoring, maintenance and construction of high and very high voltage power lines in France. Designed by Kardham Cardete Huet Architecture Sud-Est, this real estate project is spread on 3 hectares and consists of two buildings with a total floor area of 11,700 m². It is conceived as a campus organized around three expertise areas - helicopter maintenance activities, workshops, and tertiary activities - also including outdoor parking areas for helicopters.

TPF carried out all studies within the design-build consortium led by Bouygues Bâtiment Sud-Est.

In terms of tourism, TPF had the opportunity to participate in the energy renovation project for the alpine ski resort of Chamrousse, which will become the first "100% planet, 100%

FRANCE


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01 — Bastia Airport
02 — Brand village, Villefontaine
03 — New head office of Schindler France, Vélizy
04 — New head office of Picard Surgelés, Fontainebleau
05 — Transformation of the former head office of Groupama, Reims
06 — Ski resort of Chamrousse
07 — CERN - Science and Innovation globe

connected" Smart Station in the Alps. An investment representing 250 million euros.

The project includes three hotels including a "four-star" hotel, six tourist residences with 650 apartments, a convention centre, a spa, an indoor / outdoor spa area of 3,000 m² and a "coworking" site for high-tech companies of the Grenoble valley.

TPF was selected to design the station in association with Atkis in Grenoble. More specifically, our team is involved in urban project management, definition of energy specifications and tendering for projects related to future real estate programs.

Finally, TPF has been appointed by the European Organization for Nuclear Research (CERN). As part of the Large Hadron Collider (LHC) project, the largest and most powerful particle accelerator in the world, this contract is awarded for a three-year period and aims to provide civil engineering services for new technical installations on French territory.

Our civil engineers are involved in all phases of the project, from feasibility studies to work supervision and contract negotiation with construction companies.

The year 2017 resulted in intense activity on LHC experiment sites at Sergy (point 2) and Ferney-Voltaire (point 8). Civil engineering works that will be carried out will accommodate two new data centres.

In Prévessin, we focused on the study for the transformation of building 864.

MAINTENANCE - OPERATION OF TECHNICAL INSTALLATIONS

TPF was awarded two lots in the tender initiated by the Département du Nord for the maintenance of its technical installations in Lille.

More precisely, it concerns the maintenance of heating, hot water and air-conditioning installations for 16 buildings belonging to the General Council.

This 6-year contract is also provided with an incentive on the energy consumption of each building.

Also in Lille, TPF won the operating contract for heating, hot water, ventilation, air conditioning, water treatment and refrigeration production facilities at the European Institute of Genomic Diabetes (EOPS, CANCER, DHURE 2 and EGID Buildings) on the university hospital campus.

In addition to the maintenance and operation of technical installations (air treatment of laboratories, fume cupboards, ventilation networks, heating, water treatment and legion monitoring, production of chilled water, air conditioning cabinets, cold rooms positive and negative), our technicians are also in charge of following-up the Centralized Technical Management (CTM) and accompany the customer in improvement steps.

03

GRAND DUCHY OF LUXEMBOURG

BUILDING SECTOR - URBAN PLANNING

One of the most significant milestones of the year is undoubtedly the end of the renovation project to transform some of the old breweries of Neudorf into a residential and commercial complex of 11,400 m².

The site now offers 87 homes (energy class A), 4 office spaces, 8 shops and 111 underground parking spaces on two levels. A public square with green and recreational areas has been developed. TPF took care of engineering (stability, technical building services) for this remarkable project.

04

GREECE

PUBLIC TRANSPORTATION INFRASTRUCTURE

In the metro sector, we secured a contract, in joint venture with other companies, to supervise the construction of the Thessaloniki Metro for an initial period of 5 years.

The contract covers the main line (9.6 km) and 13 stations, as well as the extension to Kalamaria (4.78 km) and 5 new stations. The trains will be capable of being operated without a driver, so the stations will be fitted with platform screen doors (PSDs).

ROAD INFRASTRUCTURE

TPF has continued to provide supervision and quality control services during the construction of the IONIA ODOS, the PATJE E-65 and the PATHE toll road concession projects, whereas technical assistance work on the Gournes - Hersonissos motorway has already been completed.

GRAND DUCHY OF LUXEMBOURG

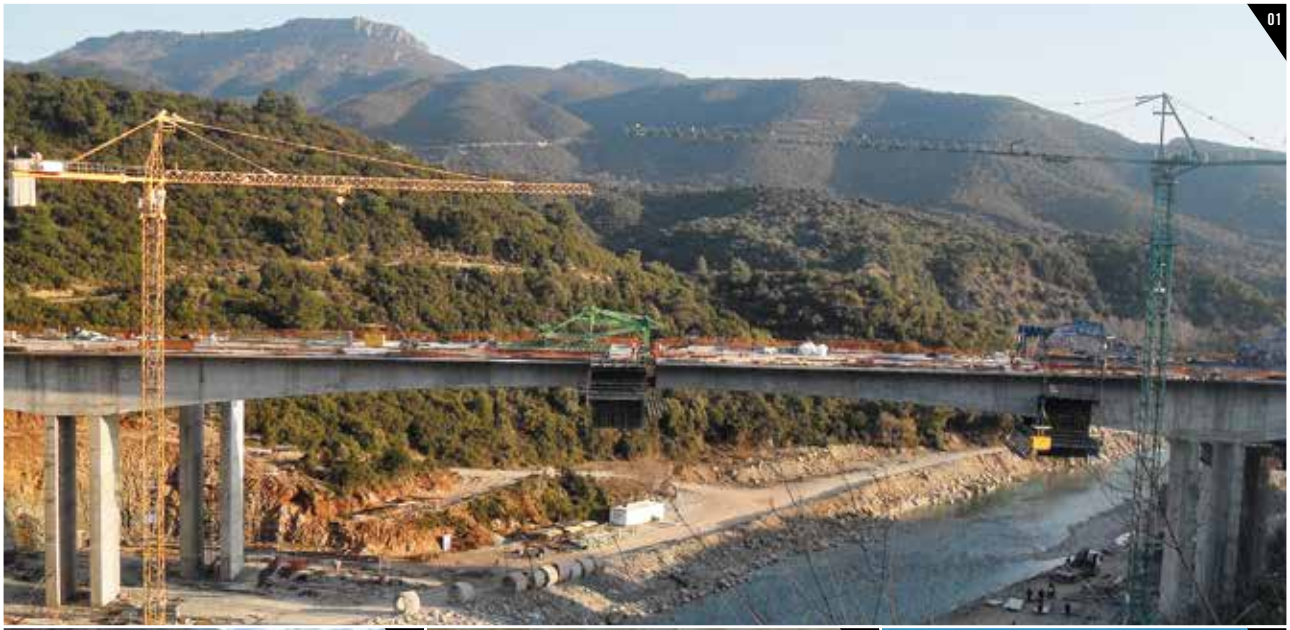
01 — Construction and rehabilitation of part of the old breweries of Neudorf

GREECE

01 — Construction of the Ionia Odos motorway

GRAND DUCHY OF LUXEMBOURG

GREECE



PORTUGAL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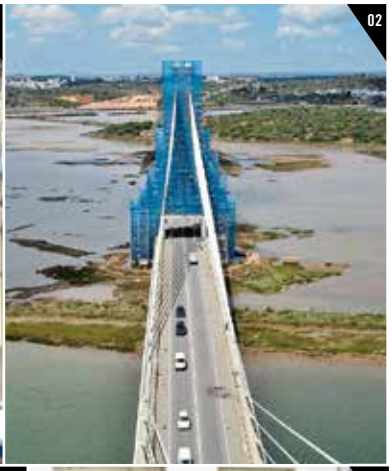
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PORTUGAL

PUBLIC TRANSPORTATION INFRASTRUCTURE

In the rail sector, TPF is taking part in the modernization of the Beira Alta railway line between Pampilhosa and Vilar Formoso on the Spanish border and more particularly the modernization of the 124 km Mangualde - Guarda and Guarda - Vilar Formoso sections. This ambitious project should allow the movement of freight trains of 750 m instead of 500 m currently, and improve rail connections between Portugal, Spain and Europe.

On behalf of the company IP-Infraestruturas, the consortium led by TPF is carrying out feasibility studies, preliminary draft, environmental impact study, implementation studies and environmental compliance report.

In addition to road renovation studies, structural performance studies are also planned for the construction of 9 special structures, 29 overpasses and 7 underpasses, as well as rehabilitation studies for 11 main railway stations and 16 secondary railway stations. This long-term work will span over 28 months.

ROAD INFRASTRUCTURE

As in previous years, TPF continues to manage and supervise the construction of road infrastructures included in sub-concessions of Baixo Alentejo and Algarve Litoral, while being responsible for the coordination of health and safety on construction sites. This mission has once again been assigned to us by IP-Infraestruturas.

The sub-concession of Baixo Alentejo consists of a road network of about 342 km including 68 km of toll roads. It integrates the A26 / IP28 between Roncão and Beja, connecting the districts of Setúbal and Beja.

The sub-concession of Algarve Litoral, located in the district of Faro, consists of a road network of about 118 km including the requalification of the EN/ER125, between Vila do Bispo and Faro as well as the construction of three bypass roads (in Lagos, Troto and Faro).

MARITIME AND PORT INFRASTRUCTURE

In the field of port engineering, the Port Administration of the Autonomous Region of Madeira has entrusted us with implementation studies for the rehabilitation and repair works of the port infrastructures of Funchal, Machico, Caniçal and Porto Santo.

Tasks to be accomplished include: infrastructure inspection, review of existing reports and analysis of port-specific infrastructure information, hydrographic surveys and implementation studies.

BUILDING SECTOR - URBAN PLANNING

In Lisbon, TPF has worked on several rehabilitation projects in recent months.

The first project, located on **São Paulo street**, concerns the **rehabilitation of a 5-storey building into apartments** while respecting its architectural character (conservation of facades and other architectural elements). TPF was responsible for the management and supervision of the works as well as health and safety coordination. The work should be completed by the end of 2018.

The second project, located Defensores de Chaves avenue, concerns the **rehabilitation of an existing building into a luxurious 130-room hotel** with bar and restaurant. TPF has been designated for the management and supervision of façade conservation and construction work on two 11-storey blocks including 2 levels below ground: a total construction area of 6,000 m². Completion of the work is scheduled for summer 2019.

In the hospital sector, TPF has been appointed by the José de Mello Saúde Group to oversee the extension and modernization of CUF Sintra and CUF hospitals in Torres Vedras, as well as site safety coordination.

By the spring of 2019, the Torres Vedras Hospital Centre will cover an additional area of 3,100 m².

Two months later, the Sintra Hospital will also expand by 9,500 m². In addition to the construction of a new 3-storey extension, the project involves the modernization of the existing 2-storey building.

Note that TPF was also mandated to assist the project owner before the beginning of projects (preparation of tender documents for the selection of contractors and bid evaluation).

01 — Mangualde - Guarda railway section
02 — Sub-concession of Algarve Litoral
03 — Port of Funchal (Madeira)
04 — São Paulo street building in Lisbon
05 — Rehabilitation and transformation of an existing building into a luxury hotel, Defensores de Chaves avenue, Lisbon

As for our urban planners, they responded to the public call for tenders launched by the Lisbon City Council for the design of the upcoming 45,000 m² Praça de Espanha urban park.

Our mission focused on mobility and more specifically on the mixed use of public space by pedestrians and cyclists. Innovative solutions have been proposed such as the construction of high structures for the passage of pedestrians and cyclists.

Let's finish our review with the Muda Reserve project, a 200 million EUR real estate project developed by real estate investment group Vanguard Properties in the village of Muda in Grandola.

Muda Reserve is an ambitious project featuring 157 houses and 50 properties of 4 to 7 hectares dedicated to farming, trade, sports and recreation. The foundation stone ceremony took place on November 09, 2017.

TPF has obtained a contract for monitoring and control of the works as well as security coordination for the construction of urban infrastructure networks.

ENERGY

TPF has also been very active in the hydroelectric sector. Several projects are now emerging such as the construction of the Alto Tâmega hydropower complex, one of the largest in Europe in the last 25 years. This ambitious project of 1.2 billion EUR is developed by the Spanish energy group Iberdrola and will see its main investments between 2018 and 2020.

The Alto Tâmega hydroelectric complex will have an installed capacity of 1,200 MW for an annual output of 1,800 GWh.

Our involvement is not limited to implementation studies such as those relating to access roads to the hydroelectric development. In addition to applications for building permits and tendering documents for contracting, we also provide technical assistance during the implementation of the work.

Let us also mention a few new contracts won this year for the revision of the internal emergency plans of the Daivões and Alto do Tâmega dams, the simplified emergency plan of Gouvães as well as the realization of implementation studies for the power generation system control building of the Tâmega River located in the Gouvães Power Station.

We are particularly pleased to contribute to the construction and renewal of energy infrastructure in Portugal as Quality, Environment and Safety Manager.

REN, the transmission system operator for electricity has entrusted us with a supervision contract in consortium concerning the installation of 15 km of power lines between Alto Rabagão and Frades as well as the renewal of substations of Riba d'Ave, Recarei, Canelas and Santa Maria da Feira.

In the renewable energy sector, we took part to several photovoltaic and wind projects requiring extensive technical expertise.

The environmental impact studies of the photovoltaic power plants of Coruche and Benavente (in the Lisbon and Tagus Valley region) as well as those of Serpa, Tapada, Alpalhão, Fortios and Arronches (in the Alentejo region) also progressed very well.

The same goes for environmental monitoring activities (avifauna, flora and chiroptera) of several back-up equipment and wind farm reinforcement projects, and the back-up equipment construction work on the Arada-Montemuro wind farm.

06 — **CUF Sintra Hospital**
07 — **CUF Torres Vedras Hospital**
08 — **Upcoming urban park of Praça de Espanha, Lisbon**
09 — **Muda Reserve Project, Grandola**
10 — **Alto Tâmega Hydroelectric Complex**
11 — **Riba d'Ave substation**
12 — **Arada-Montemuro wind farm**


06


07


08


09


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06

SPAIN

PUBLIC TRANSPORTATION INFRASTRUCTURE

TPF has managed to maintain its position in the engineering market.

Although railway project tenders were scarce in Spain this year, TPF nevertheless won several new contracts for high-speed lines.

For instance, TPF won a contract to conduct the detailed design of the Pulpí – Vera section and a new contract to perform a demand analysis for the Cantabrian-Mediterranean HSR line. Both high-speed rail sections are part of the Mediterranean HSR Corridor, linking major cities across Europe.

And in this area, as in many others, the concept of sustainable development has become increasingly indispensable. So much so that today it is impossible to design a project without taking into account its environmental aspect.

Our Environment Department has been very active in Spain, ensuring that environmental sustainability is fully integrated into all our projects. Moreover, this Department has provided consulting services within the framework of contracts signed with public bodies, such as the contract entered into with Spain's Administrator of High-Speed Railway Infrastructure (ADIF) to perform environmental management activities during the construction of a number of high-speed rail lines that require an EIS. This contract covers over 50 sections and over 6 high-speed rail lines in Spain.

ROAD INFRASTRUCTURE

Our road business was not left behind at all this year.

In the road infrastructure sector, we have worked on road widening projects and have provided Operation & Maintenance services, such as technical management of pavement maintenance activities on national roads.

This year, TPF was also involved in the installation of a Big Data analytics platform for traffic and transport modelling.

TPF has provided services to Empresa Municipal de Transportes de Madrid (EMT) covering studies, design, installation and commissioning of the platform. The main purpose of the project is to replace traditional travel demand models (based on increasingly expensive and less accurate mobility surveys) by methods involving constant collection of information from many systems in the city which can then be processed using Big Data analytics techniques.

As in previous years, we have continued to provide radio spectrum management support to the Ministry of Industry.

The main services under the contract, which was extended in 2017, comprise: analysis of licence requests for fixed and mobile services networks, assessment of technical projects related to radio broadcasting stations, LMDS, mobile telephony, radars and satellite stations, International frequency coordination, upgrading of working procedures and development of new applications which are aimed at simplifying everyday work.

BUILDING SECTOR - URBAN PLANNING

Finally, in the building market, TPF performed a Performance Based Fire analysis for three of these iconic buildings: Teatro Fernán Gómez, Palacio Municipal de Congresos and Madrid Arena.

TPF has analysed their fire and evacuation performance by means of computer simulations, and proposed the most adequate and cost effective solutions to improve fire safety conditions.

WATER - ENVIRONMENT

As regards the water sector, TPF has developed several innovative projects in the field of water use efficiency and water consumption monitoring. During the year 2017, for example, TPF has continued to work on smart water projects for reducing water consumption in eight new correctional facilities.

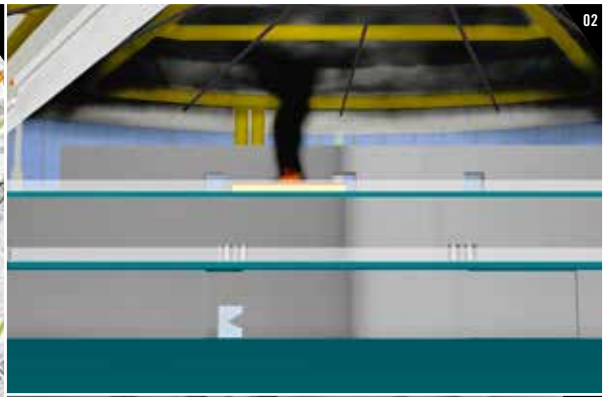
This is not a first for the company. To date, TPF has been involved in 28 projects related to correctional facilities, i.e. one-third of the existing prisons in Spain.

Along the same lines, TPF has also completed a R&D project this year, within the EU Framework Programme 2020 for Research and Innovation, aimed at reducing citizens' water consumption.

The "IWESLA" project has been coordinated by TPF and has designed and implemented a cyber-physical system to optimize and manage water consumption in buildings.

01 — **High speed line, Pulpí-Vera section**
02 — **Evacuation simulation of the Madrid Arena in the event of fire**
03 — **IWESLA Project**


01
Beginning of the project
End of the project
HUERCAL-OVERA
CUEVAS DEL ALMANZORA
VERA
GARRUCHA
MOJACAR
PULPI
Sierra de Almagro
Cuevas del
Antas
Los Gallardos
Turre
Mojacar


02


02


03

CENTRES OF EXPERTISE

BUILDING

As a key player in construction, the TPF Group has built an international reputation thanks to the work and involvement of its 1,200 employees active in this sector. True to its motto "Building, the World Better", TPF is today, more than ever, ready to meet the challenges facing the world of construction of tomorrow.

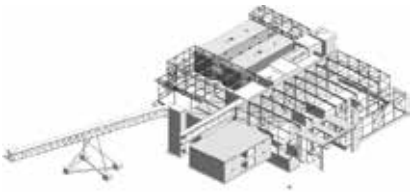
In the building sector, digital revolution is definitely under way and TPF is totally committed to it. From now on, the integration of BIM (Building Information Modeling) into a construction or renovation project has become unavoidable.

TPF understood this and has used this technology for several construction projects, in particular in Belgium (bio-methanisation plant in Lixhe), in Chile (El-Salvador hospital), in France (Lariboisière Hospital in Paris, Bourgoin-Jailleu police station) or the Principality of Monaco (Building 45 Grimaldi in Monaco).

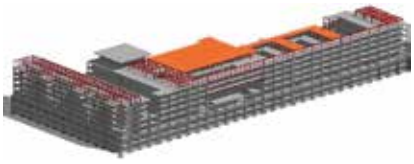
This new way of working on a single platform makes it possible to increase our collaboration with other project stakeholders and to have access to all the information in real time, from design to work supervision.

Thanks to the intelligent 3D modelling of the structure, the envelope and the main building networks, we can also add factors such as time (BIM 4D), cost (BIM 5D), sustainable development (BIM 6D) and lifespan data linked to management and maintenance (BIM 7D). Our teams are now able to visualize and simulate technical data such as earthquake resistance, acoustics, thermodynamics, sunshine, building consumption or fire related events (fire and smoke spread, evacuation of people).

Lariboisière Hospital, Paris / France



Biomethanization plant, Herstal / Belgium



El Salvador Hospital / Chile

Challenges faced to build the sustainable city of tomorrow are numerous and TPF is determined to be part of initiatives such as Smart Cities, eco-construction or LearningGrid.

This year, TPF participated in the project **Learning-Grid by Grenoble in France**, the first European Microgrid aiming to create a smart local network between all buildings of the Institute of Trades and Techniques of Grenoble (IMT).

The IMT website will soon host the first technical-educational tool to simulate the operation of a smart city in terms of intelligent energy management.

The project, launched in 2016 for an operational start-up in 2018, has several objectives: to control energy expenditure, energy production and storage but also to encourage the reduction of energy needs, the development of local renewable energies and facilitate the implementation of green sectors by participating in the creation of new skills and jobs. The site has been equipped with 1,000 photovoltaic panels, distributed over different buildings and a micro-CHP boiler. The additional renewable energy is provided by a connection to the urban heating network. The site is equipped with 520 electrical meters (radio, cable, pulses), temperature probes and 220 fluid meters have also been installed to instrument and control existing installations.

Energy management is performed using monitoring, control and modelling software that relies on the retrieval of statistics and meteorological forecasts to optimize energy, recharge batteries, trigger cogeneration, inject photovoltaic power into the grid and redistribute energy between buildings. In addition to the existing computer network, two fibre-optic computer networks have been set up, one for controlling the machine and the other for collecting data via meters.

TPF is proud to be able to participate in all phases of the project, from the energy diagnosis of the 6 buildings to the study phase of energy efficiency actions up to the implementation of the systems and equipment.

LearningGrid by Grenoble (France)

In Turkey, Istanbul, TPF is working on behalf of Istanbul Buyuksehir Belediyesi (IBB), namely the Metropolitan Municipality of Istanbul, on **preliminary plans for two eco-villages, a solar parking and an urban park**. Studies involve a multidisciplinary team of Portuguese and Turkish architects and engineers, charged with implementing principles of design and construction respecting the environment.

Urban Park in Istanbul (Turkey)

In China, alongside its partners, a group of high-tech French start-ups, TPF will work in the continuity of the **demonstrator in Hangzhou** and accompany the China United Engineering Corporation (CUEC), one of the leader in Chinese engineering, on an important project.

The work is divided into four parts:

- Combining and implementing French innovations based on project needs, both at the building and neighbourhood levels, to target energy efficiency. Clean ecological mobility, urban safety, water and waste treatment, innovative construction and artificial intelligence solutions will also be part of the project.
- Design and develop a unique smart building.
- Accompany and propose an added value at the project management level.
- Develop in connection with local design practices, a collaborative work around BIM based on our different skills and experiences.

This year has also been focused on the theme of Health, a particularly important concern for the TPF Group, which has established itself as a major player in this sector. From Belgium to Chile via France, Portugal and Turkey, an important number of hospital projects have been initiated in recent months.

In **Belgium**, two major projects are currently underway. The first, very recent, concerns the construction of the **Centre for Cancer and Hematology at the Albert II Institute** on the site of the University Clinics Saint-Luc in Woluwe-Saint-Lambert with an area of 22,000 m² and a capacity of 120 beds. The second, already in progress, concerns the construction of the **Jules Bordet Cancer Treatment Centre** in Anderlecht with an area of 88,000 m² and a capacity of 250 beds. TPF will work in the field of stability and technical building services (ventilation, air conditioning, plumbing, medical fluids, electricity).

Jules Bordet Cancer Treatment Centre in Anderlecht / Belgium

In Chile, the project for the new **Hospital complex of Santiago**, with an area of 92,000 m² and a capacity of 641 beds, is progressing well.

In France, we have concentrated our efforts on the construction of the new **Lariboisière Hospital in Paris**. The main building will include a technical platform including imaging, operating area, obstetric area, resuscitation and continuous monitoring, four levels for conventional hospitalization, one level for technical medical logistics and one emergency room with a capacity of 100,000 patients per year.

New Hospital complex of Santiago de Chile

New Lariboisière Hospital in Paris / France

In the meantime, TPF continues to oversee the construction of the **CUF Hospital of Sintra** in **Portugal** on behalf of the José de Mello Saúde Group. It includes the renovation of the existing 2 storey building and the construction of a new 2 storey extension zone built on one basement level, for a total area of approximately 9,500 m². Our mission is not limited to the supervision and coordination of work safety since we were also in charge of assistance to the Project owner during phases preceding work commencement (design review, preparation of tender documents to select the contractor, market consultation and bid analysis). This represented a total of 15 months of work.

The José de Mello Saúde Group has also entrusted us with the supervision and coordination of safety for the extension and renovation works of the **CUF Hospital in Torres Vedras**. This building will benefit from an additional 3,100 m² for its offices.

CUF Hospital Sintra / Portugal

CUF Hospital Torres Vedras / Portugal

In **Turkey**, the Ministry of Health has also used our expertise in this area. In fact, we are providing technical assistance as part of the project to build two new **municipal hospitals, in Izmir and Kocaeli**.

In a completely different way, we will draw attention to three awards: these reward the technical expertise and excellence of TPF and its partners. Three particularly remarkable real estate projects were rewarded.

At the awards ceremony of the Belgian Energy and Environment Prize (EEAward) on June 8, 2017, the **Atenor-Wilfried Martens** building, which is currently home to the European Parliament, was nominated in the "Sustainable Building Award" category and won the special "Premium Media Partner Award" awarded by the IPM Press Group. Featuring an innovative energy concept, including a bold geothermal installation, this very low energy building offers an area of 30,000 m² on 13 levels above ground and is a reference on the market in terms on sustainability. It has also obtained the BREEAM "Excellent" certification.

Atenor-Wilfried Martens Building, Brussels (Belgium)

In the course of this month, the project **Erasmus Gardens**, led by promoter BPI, won the "Best Sustainable Real Estate Project in Belgium" prize awarded by Build, a British magazine for construction professionals.

This urban eco-district project is located in Anderlecht, a few steps from the Erasme Hospital, and will eventually host 3,000 new inhabitants. TPF provides stability and technical building services for the construction of buildings B2 and I comprising respectively 60 and 90 apartments.

Erasmus Gardens, Anderlecht - Brussels (Belgium)

In **Kazakhstan**, the **French Pavilion** at the 2017 Astana International Exhibition was particularly appreciated as it was named as the "Editor's Choice" of the EXPO 2017 Astana Awards Competition by the international reference magazine Exhibitor. But that's not all. At the awards ceremony of the Bureau International des Expositions (BIE), the French pavilion also received the bronze award for its interpretation of the theme "energy of the future".

During the 2015 Milan World Expo, TPF had already accompanied the French Commissioner General in designing the French pavilion.

French Pavilion at the 2017 Astana / Kazakhstan International Exhibition

TRANSPORT INFRASTRUCTURES

This year, activity in the transport infrastructure sector has strengthened and the growth remained strong in most developing countries where TPF is present. A key sector since it alone represents the largest part of sales.

In addition, the Group has strengthened its leadership in the rail and urban transport segments through its ability to develop innovative and state-of-the-art solutions, while addressing issues of social and environmental sustainability.

Challenges faced by our 1,900 professionals active in this sector have been numerous in recent months.

Road sector

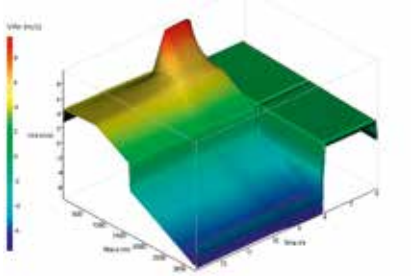
The road sector plays a major role in the Group's sales performance. We have developed a trusted relationship with our clients and, drawing on our wide experience, we can offer them comprehensive services across the full life cycle of a project, including operation and maintenance.

Our commitment to incorporating the latest technologies into all our projects allows us to propose effective solutions that can reduce construction, operation and maintenance costs.

In the U.S., for instance, we have conducted a study for a private construction group with a view to optimizing the lighting, ventilation, and power supply and fire-protection systems in a road tunnel with six lanes in each direction. To this end, we have used a three-dimensional CFD model.

In Spain, TPF has provided auditing and assessment services to the concessionaire in charge of the operation and maintenance of the AP-6 toll road.

The purpose of the assignment was to improve ventilation along the 3,340m tunnel that runs through the Guadarrama mountain range. It should be noted that significant cost savings in the operation of the tunnel have been achieved through the optimisation of pre-programmed operating modes according to the pollutant concentration results from the simulations performed by TPF.



Tunnel of Guadarrama / Spain

Railway sector

Activity in this sector proved particularly dynamic in Spain where TPF has won several new contracts and has undertaken some consultancy assignments on major railway projects in Spain, entailing, among others, the conduct of studies aimed at fostering freight transport by rail, and analyses of project implementation and operation requirements for conventional rail and HSR lines.

At the same time, we have worked on many other projects, notably in Algeria, Saudi Arabia, Brazil, Chile, Egypt, India, Poland, Portugal, Turkey and the United States. A couple of our missions worth mentioning: in the United States, the design of one stretch of the California High Speed Rail project and in Turkey, the provision of assistance to the Turkish State Railways (TCDD) in the construction of the Ankara – Istanbul High Speed Rail Line.

Metro and light rail sector (LRT)

This sector also remains one of the priorities of TPF's strategy.

In 2017, we worked on several emblematic projects around the world: in Algiers, Barcelona, Brussels, Madrid, Marseille, Lima, Riyadh and Santiago de Chile.

Among the third quarter's highlights in Georgia was the successful completion of new upgrades to Tbilissi Metro Line 2 which were designed and supervised by TPF.

New projects are already emerging for a promising future. In 2018, we will deliver project management services for the construction of Line 3 of Hanoi Metro system in Vietnam and will supervise extension works on the Thessaloniki Metro network in Greece.

In addition, we have been awarded a new contract in Egypt to provide supervision services during the construction of Line 1 of the Cairo Metro. This new contract win underpins our track record of growth in the country's railway market, where we are working on the design of the electrification and signalling systems for several rail lines.

Riyadh Metro / Saudi Arabia

Lima Metro / Peru

Santiago de Chile Metro / Chile

Urban transport sector

Urban transport projects are becoming more and more important on the world stage. Mobility is a major challenge, TPF is aware of this and intends to offer assistance by proposing solutions to decongest traffic and reduce pollution in metropolitan areas. TPF has chosen to take an active part in building tomorrow's cities. During 2017, we have been leading a state-of-the-art smart cities development project in the city of Hangzhou in China. By focusing on one part of the city, the project aims to implement smart solutions concerning energy efficiency, water management, sustainable urban transport, safety and environment. Besides these specialities, TPF renders pioneering solutions to transform urban mobility.

In Spain, we provide advice to the Madrid Regional Transport Consortium regarding the modification of the regulatory framework and the identification of the technical requirements that will allow for safe use of vehicles operated on compressed natural gas in underground interchange stations on the Madrid network. In addition, the study evaluates how those changes would affect the concessionaires in charge of network operation, in order to safeguard the balance of current contracts.

We have also designed an innovative system that will improve traffic flow to Madrid by reserving the left lane for the exclusive use of buses and high-occupancy vehicles during rush hours by means of dynamic lane allocation signs.
We also had the opportunity to participate in high capacity bus rapid transit projects (BRT) in Bogota, Colombia; in Cannes, France; in Lima and Arequipa, Peru; in Dakar, Senegal and in Da Nang and Hanoi, Vietnam.

Fantastic opportunities have opened up in this sector with a new BRT project won in Vientan, Laos, which we will be looking into in 2018.

BRT system in Da Nang / Vietnam

Airport sector

Our Spanish customers have reaffirmed their confidence in our Group with the award of new contracts in the airport sector. To name just a few examples, TPF will continue to work on some important projects, such as the Santiago de Compostela airport and the Valencia airport, for which we have successfully completed the detailed design process and will now undertake the supervision of the works.

As regards the Adolfo Suárez Madrid-Barajas, in 2017 the Spanish airports and air navigation group AENA awarded TPF a contract, under a framework agreement, to deliver design and construction supervision services covering all the works that will be carried out in the future on the landside and airside areas of the airport. Likewise, we have provided assistance to AENA, under another framework agreement, entailing the design and construction supervision of other Spanish airports.

In Colombia, TPF plays a leading role in the development of the airport sector. During 2017, TPF has been engaged in the expansion and upgrading of the following airports: El Dorado in Bogotá, Río Negro in Medellín, Ernesto Cortissoz in Barranquilla, Simón Bolivar in Santa Marta, Camilo Daza in Cúcuta and Palo Negro in Bucaramanga.

In Bolivia, work on the Cobija airport project, for which we perform detailed design and construction supervision services, is progressing well and on schedule.

Logistics sector

TPF has extended its record of growth in this area during 2017 by engaging in cutting-edge projects. For instance, we are designing the Safe and Sustainable Urban Logistics (CAF LOGUS) strategy for the CAF - Development Bank of Latin America. This scheme is aimed at effectively contributing to competitive development and improving quality of live in Latin American cities

In Spain, TPF has conducted a ground-breaking study for a Rail Motorway terminal for the European Economic Interest Grouping (EEIG) SEA Vitoria-Dax, which is composed of Spanish and French authorities. The purpose of the project is to plan and design a Rail Motorway terminal enabling the carriage on trains of some of the 9,000 heavy vehicles that cross the French-Spanish border.

In addition, during 2017 TPF has continued to work on the Tambacounda dry port project in Senegal, a country where the Group has maintained a strong position in the local market for many years.

Rail motorway terminal at the Franco-Spanish border (Vitoria-Gasteiz)

Let's take a look at three major projects that we want to highlight:

The LOGUS project is an essential part of the strategy of the CAF - Development Bank of Latin America to deliver comprehensive, structured support for improving the management and development of urban logistics systems in Latin America and the Caribbean region. It falls within the framework of the Regional Logistics Development Program for Latin America.

In this context, the main purpose of the assignment is to design the CAF intervention strategy in safe and sustainable urban logistics (CAF LOGUS) for effectively contributing to competitive development and improving quality of live in Latin American cities. The strategy encompasses relevant political, economic, social, technological and environmental issues; aiming at integrating them with integral mobility policies, programs and plans in the middle term.

The main Project activities are as follows:

- Identification of state-of-the-art practices, parties involved and existing initiatives in the field of Urban Logistics;
- Developing and deciding on a common CAF strategy for safe and sustainable urban logistics and linking it to a Comprehensive Urban Mobility Strategy;
- Developing strategy development tools, including roadmaps for the cities of Fortaleza, Guayaquil, Santiago de Cali and Rosario;
- Disseminating and socializing the results and the CAF strategy through publications, and socializing documents in workshops on Safe and Sustainable Urban Logistics.

The second project is the modernization and extension of El Dorado-Luis Carlos Galán Sarmiento International Airport in Bogotá, the third largest airport in Latin America. During the year 2014, it welcomed more than 29 million passengers, which demonstrates its importance.

The importance of the El Dorado International Airport in Colombia and in the whole region makes it necessary to accomplish the Upgrading and Expansion Stage.

The project will be implemented under a concession agreement scheme and includes works on the landside area and the airside area, comprising runways, aprons, roads, networks, car parks, parking areas, electrical power and telecommunications networks, demolition of old facilities, runways, terminal, taxiways, new control tower and Colombia's Air Traffic Control Centre (CGAC).

As Project Manager, TPF is in charge of the following activities:

- Management, coordination and scheduling procedures;
- Communication Protocols;
- Document Management;
- Risk Management;
- Monitoring and coordination of the detailed design and the works;
- Environmental Management;
- Social Management.

Eldorado Airport of Bogota, Colombia

Finally, in Brazil, TPF can be proud of its involvement in the development of the Master Plan for the Port of Suape.

In 2016, the Port Authority of SUAPE - Port and Industrial Complex, linked to the Economic Development Secretary of Pernambuco, began a review of the Master Plan of the Port of Suape with the objective of optimizing a plan of development to the port, as well as guiding its expansion for the next 20 years.

TPF was hired to elaborate the Suape Master Plan. The project comprises multidisciplinary areas such as logistics, future cargo prospects, capacity analysis, territorial planning, socio-environmental evaluations and a proposal of an Operational Plan, according to technical standards, aiming to improve the efficiency of port operations. In order to validate the new layout, which proposed a new jetty, a maneuvering simulation was carried out.

The Port is located inside the Recife metropolitan area, 40km south of the city, and it is one of the most important harbours in the northeast of Brazil. The complex plays an important role in the economy of the state.

At the end of this project, the Port of Suape will have a Plan with short, medium and long-term actions for the expansion. The update of the plan also intends to consolidate cargo prospects and to attract new investments to develop the hinterland and foreland of the port.

Port of Suape, Brazil

WATER AND ENVIRONMENT

Looking back to our activity in this sector for 2017, we must pay tribute to the 800 employees of the Water and Environment Expertise Centre who once again demonstrated professionalism and dynamism.

The Group can be proud of being a key player in this sector representing 20% of its turnover. Whether it concerns hydraulic infrastructure and sanitation or hydroelectric development, TPF has supported its customers at each stage of their projects, from design to commissioning, sometimes beyond. These projects consist of 84% public sector investments.

In terms of geographical distribution, 75% of turnover in this sector is generated by activities in Brazil, Spain and Portugal and to a lesser extent in Romania and Senegal. A large number of projects have been successfully implemented over the past year.

In Angola, TPF is participating in the review of the Caculo Cabaça hydroelectric project in the Kwanza River Basin in the Cuanza Norte province.

4.5 billion USD are invested in this project which will mobilize up to 6,000 people during construction peaks. The consortium China Group Corporation (CGGC) - Niara Holding has been appointed for the construction of this vast hydropower complex which is expected to be completed in about eight years, the largest in the country with an installed capacity of 2,200 MW.

This project is part of the 2025 Energy Security Plan of the Republic of Angola, with which the Republic wants to achieve its goal of producing 9,000 megawatts by 2025.

The Caculo Cabaça hydroelectric facility consists of a concrete dam (106 m maximum height and 553 m crest length) which can store a total volume of about 440 million m³. It uses the 215 m working fall between the reservoir and restitution downstream of the Caculo Cabaça natural falls and includes a hydroelectric plant and hydraulic circuit.

The hydraulic supply circuit of turbines is composed of a water intake in the tank, an adduction circuit with four tunnels of 9 m internal diameter and 300 m length, a cavern and two restitution tunnels. But not only, the project also provides for the construction of a second hydroelectric plant at the foot of the dam to turbinate an ecological flow of 60 m³/second and two substations (the main one with 400 kV and auxiliary one with 220 kV).

While TPF had already been appointed by the consortium for consultancy work on the construction, site facilities and environment, it has also won a new four-year contract this year which will be implemented in 2018. In addition to the revision of the technical methodology, TPF will be responsible for the full construction design review of the complete hydropower scheme, with all its civil engineering components, and ensuring coordination with mechanical and electrical components.

Hydroelectric development project of Caculo Cabaça / Angola

In the Angolan province of Bengo, the mandate entrusted to us by the Ministry of Urban Planning and Housing (MINUHA) concerns the Preliminary Study and Final Design of a Wastewater Treatment Plant for the domestic effluents produced in the Capari Centrality.

It is a domestic wastewater treatment plant with a capacity of 9,000 population equivalents as a first step (1,500 houses, corresponding to about 37,5% of the maximum occupancy) expandable to 24,000 population equivalents (4,000 houses).

The project comprises, in addition to the Pumping Station for a flow rate of 64 L / s, a pumping duct, a final discharger and respective road accesses.

Site of the future Capari treatment plant / Angola

Also in Angola, TPF has successfully completed the consulting services of design checking and works supervision for the water network and home connections for Uíge. For TPF, it is the culmination of nearly 68 months of work.

A particularly interesting project including the design and construction of 120 kilometers of primary and secondary of water network and 10,126 household connections, including excavation, laying of pipes with all accessories and back filling, testing and commissioning.

TPF was selected by the National Directorate for Water Supply and Sanitation (DNAAS) of the Ministry

of Energy and Water (MINEA), by the Financial and Contract Management Unit (FCMU) for the review and comment of design elements received and the supervision of the construction, including planning, cost control, quality assurance, environmental, health and safety coordination, completion and commissioning.

Uíge water distribution network / Angola

In Mauritania, TPF secured three contracts with the Ministry of Agriculture and the Ministry of Hydraulics and Sanitation to provide consulting services related to water and environment projects.

Water resources are essential in this African country, especially for agriculture and livestock, main sources of livelihood for the majority of the population. However, millions of cubic meters of water are wasted during the rainy season because they cannot be recovered, processed and stored. This demonstrates the importance of contracts currently being executed, of which we are particularly proud and motivated to work on, namely:

- Supervising the construction of the Seguelil dam in Adrar;
- Studies for storm water retention structures in the wilayas of Hods Assaba, Guidimagha, Gorgol, Brakna, Tagant, Icnchit, Adrar and Tiris Zemmour. It should be noted that this storm water recovery and reuse program is part of a long-term strategy focused on improving ecosystems and living conditions in the region;
- The elaboration of the detailed design for the construction of the Tarf Elmehrou dam, an ambitious project aimed at ensuring the storage of rainwater and flood protection.

Seguelil Dam, Adrar / Mauritania

In Mozambique, TPF is strengthening its presence in the water and environment sector. Several projects have been carried out in recent years. The year 2017 was particularly fruitful in many respects, and continued this momentum. We can mention the development of Strategic Plans for the Integrated Development of Water Resources of the Meluli, Monapo, Mecuburi, Ligonha and Motomonho rivers in Nampula region and of the Melela, Molocue, Nipiode, Raraga and Moniga rivers in Zambezia region.

Our mission covers areas of 44,700 km² and 25,600 km². Acting as leader of the consortium, TPF defines strategic plans for the Ministry of the Earth, Environment and Rural Development (MITADER), including basin monographs, definition of development scenarios. Strategic investment plans and integrated development of water resources. This work involves the organization of workshops at the local level bringing interested parties together.

Strategic Plans for Integrated Development of Water Resources / Mozambique

TPF was also entrusted with the study of the Strategic Plan for the Use and Development of the Lúrio River Basin as part of Mozambique's national water resources development project. The intervention area covers 60,800 km².

Results of studies commissioned by the Government of Mozambique and financed by the World Bank will present methods for management, conservation and development of water resources to be adopted for the sustainable and integrated socio-economic development of these regions.

Lúrio River / Mozambique

Also in Mozambique but this time in the field of irrigation, TPF has concluded a new contract with the Provincial Directorate of Agriculture and Food Security for the development of the general irrigation plan of the province of Cabo Delgado and strengthening of its institutional capacities.

The implementation of this plan, funded by the Spanish Agency for International Development Cooperation (AECID), will be crucial for the development and improvement of irrigation systems for the benefit of farmers' associations and small-scale producers. It is about optimizing the use of water resources and increasing the productivity of agriculture to ensure food security and reduce poverty.

To meet this challenge, we assembled a team of Portuguese, Mozambican and Spanish specialists from different disciplines (hydraulic and agronomic performance of irrigation systems, water resources, livestock, agrarian economy, institutional diagnosis, environment and environmental management, irrigation systems, geographic and cartographic information, ...).

General irrigation plan of the province of Cabo Delgado / Mozambique

In Senegal, TPF reaffirms its commitment to enable access to water and to sustainable development. The project to build a seawater desalination plant with a capacity of 50,000 m³/day upgradable to 100,000 m³/day in Dakar is especially important.

As part of the study for the water supply master plan in Dakar and Petite Côte (2009 - 2011), which was carried out on behalf of the National Water Company of Senegal (SONES) by TPF and its partners in a consortium, this desalination plant was identified as one of the major infrastructures which will allow to meet water needs for Dakar's population by 2025.

This project, financed by the Japan International Cooperation Agency (JICA) in the Mamelles area of Dakar, is based on two components: on the one hand construction of the plant itself, including water intake, discharge at sea, pumping station and power supply, and on the other hand, the renewal of nearly 460 km of pipeline. Total investment: 137 billion FCFA.

The consortium includes our engineering consulting firm and in addition to the master plan study, was also selected for design, tender assistance, construction control and supervision, implementation of the Environmental and Social Management Plan (ESMP) and Environmental Monitoring Plan, as well as the development of monitoring capacities for the maintenance and operation of the plant during the warranty period.

Work is scheduled to start in early 2018 and should be completed in 2022.

Seawater desalination plant, Dakar / Senegal

In Latin America and more particularly in Brazil, the Ceará Water Belt is undoubtedly one of the grand projects of this year. TPF provides supervision and technical control of the works.

The installation of this vast water supply network is part of the project of transposition of the São Francisco River waters, one of the most ambitious and bold projects ever undertaken in Brazil, which is expected to cover the water needs of the arid Nordeste zone by 2040.

The Ceará Water Belt will deliver water from the São Francisco River to the Ceará catchment basins with a maximum flow of 30 m³ / s. The water will be drained using gravity into 1300 km of canals and will pass into aqueducts or tunnels depending on land configuration. This project has been divided into five work packages.

Cinturão de Águas do Ceará Hydraulic Project - Lot 1 / Brazil

In Central America, TPF was solicited to perform a comprehensive assessment of the water supply and sewerage systems of Santa Rosa de Copan, a city of 42,796 inhabitants located in western Honduras.

The objective is to ensure sustainable management of the town's water and sewer services.

The services provided by TPF within this assignment, were: Sewerage Master Plan; Water Supply Master Plan; Environmental Study; Cadastral surveying of water and sewerage users; Comprehensive management system for water supply and sewerage; and Personnel training.

Let's finish this overview with the hydraulic studies and assessment of 20 urban sanitation networks in Madrid region for the public company Canal de Isabel II, S.A., responsible for water cycle management.

The total population included in the scope of works is one million people.

The main goal is to detect and resolve existing deficiencies and plan the actions necessary to serve the new developments programmed for urban planning of the municipalities. To this end, mathematical models with software Info works CS were developed, from which these studies were conducted and proposals were defined and verified in different scenarios for both hydraulic and water quality criteria. Different rain events have been also considered in these studies.

Sanitation Master Plan of Madrid / Spain

ENERGY

Since its creation more than 25 years ago, TPF has established itself as a leading international player in the field of energy. Thanks to the daily investment of its 250 employees in its expertise centre dedicated to energy, TPF has the professional and technical capacities to offer a wide range of services: energy studies, operation of energy-intensive installations and renewable energies.

The energy market is facing constant evolution. In recent decades, energy, technology and environmental challenges have become more and more numerous and larger. Research and innovation in new technologies are now at the heart of redefining the energy landscape.

Traditional sources of usable energy such as coal or hydropower are less and less popular because of their significant environmental impact and their many detractors. Today, they have to deal with the rise of renewable energies such as wind power.

In a context strongly marked by volatile oil prices, political uncertainty about the future of nuclear energy and the discovery of new fossil fuel reserves, energy planning is proving particularly difficult.

TPF understands this: Investing in its ability to innovate and continually improve its products and services, challenging itself and adapting to new trends to better meet the needs and expectations of its customers is essential for staying competitive. Faced with strong demand, TPF wanted to refine its already recognized expertise in the hydroelectric field in order to better supervise and improve the planning of dam safety.

TPF is also today a reference in the field of efficient energy management of industrial equipment and in the development of wind energy projects at all stages, from Third Part Finance planning to construction management for wind farms.

In a completely different register, that of regional strategic planning, TPF is regularly asked to support developing countries in order to improve and adapt their activities to the evolving needs of the energy sector, as and when required by institutional and regulatory progress.

Latin America, which has a low level of carbon emissions in most of its constituent countries, is the ideal ground for conducting research aimed at improving the institutional framework. More than a quarter of the primary energy in this region comes from renewable sources. Brazil, whose energy production is traditionally based on hydropower, is an example in this respect because it has managed to significantly increase wind power generation.

For the operation of energy-consuming installations, we provide maintenance for all types of technical installations: boilers, cogeneration, air-conditioning units, ventilation units, emergency units, etc.

In total, more than 5,000 boilers with a total output of 500,000 kW are maintained by TPF. In addition, we rigorously and efficiently monitor energy consumption, an essential condition for any energy management approach. TPF is committed to saving energy by implementing activities requiring or not requiring investments. This commitment often takes the form of an Energy Performance Contract (EPC). To carry it out successfully, it is essential to constantly optimize technical installations which we operate.

TPF is also very active in the field of renewable energies such as wind, biomass, photovoltaics, hydraulics or any other energy source which can answer our needs in a sustainable way.

To conclude, let us review some of the highlights which marked the year 2017 for TPF around the world, from Belgium to Bangladesh through France, Brazil or India.

In Belgium, TPF continued the maintenance and delegated management of **technical installations of the Atrium Midi Building in Brussels**. This three-year contract was won in 2015. This building is home to the Belgian National Railway Company (SNCB): a net area of 56,000 m² including 39,000 m² of offices and 17,000 m² basement and parking areas.

Also ongoing is the implementation of the four-year contract for the **maintenance and operation of technical installations for buildings located on the Peutie military base**: heating installations, HVAC, water treatment (softeners, water purification, biological analysis), fire protection, detection of gas, electricity, compressed air and lifting. This contract comes with full warranty on the equipment.

The **Moulins Saint-Roch wind project** located on the territory of entities of Peruwelz and Beloeil was successfully completed. TPF was mandated to provide project management assistance for the construction and commissioning of the wind farm comprising 4 Senvion turbines with a unit capacity of 2 MW.

Moulins Saint-Roch wind farm / Belgium

In France, TPF was awarded two lots in the call for tenders launched by the **Département du Nord** for the maintenance of its technical installations in Lille. More precisely, it concerns the heating, hot water and air-conditioning installations of 16 buildings property of the General Council. This 6-year contract also includes an incentive for energy consumption in each building.

At the same time, in Paris, we are carrying out studies on **energy optimization and exploitation of renewable energies for new stations** which will be built on lines 15 South and 16 of the transport network **Grand Paris Express** as part of the innovation partnership between Efficacity and the Société du Grand Paris.

In Latin America, specifically in Brazil, TPF has carried out preliminary studies for the transmission line of the new **Fiat Chrysler Automobiles Plant** in Goiana in the Pernambuco state.

In addition, our teams were mobilized in the state of Pará where they are contributing to the **Belo Monte hydroelectric plant project** (one of the largest of its kind ever built in the world) and more specifically to the environmental aspect of the project. For now, our employees are collecting data to implement programs designed to mitigate environmental impacts caused by the construction of the Belo Monte hydroelectric plant. It is not the first time TPF is involved in such projects since in recent years, we have carried out environmental assessments for 5 hydroelectric projects.

Belo Monte Hydroelectric Development, Brazil - Data Collection

Also, **in India**, TPF was asked to look into the construction project of the **3 x 880 MW thermal power plant** for the National Thermal Power Corporation (NTPC) **in Patratu**, in the Maoist zone Jharkhand. This project covers the expansion of the old plant. TPF has been appointed to carry out topographic work and geotechnical studies.

Thermal power plant project in Patratu

TPF
FOUNDATION

The TPF Foundation fits in perfectly with our desire to help build a better world. Created in 2015, it would never have been possible without the dedication and enthusiasm of our shareholders and our employees.

The TPF Foundation favours small-scale local initiatives working to combat poverty, precariousness and social exclusion of children and adolescents. The TPF Foundation has been involved in many projects in their favour in the fields of nutrition, protection, education and health. These projects are essentially distributed in the countries where the Group is present. In 2017, the Foundation was able to support eleven associations financially.

BELGIUM

Parrain Ami Asbl

Support to foster families providing care for children (ages 0-12) in difficult family situations on an ad-hoc and regular basis.

Les Godillots (Rixensart)

Day care center for 21 children and adolescents with serious behaviour, personality and communication problems (psychotic and neurotic disorders, autism).

Castia Notre-Dame and the Communauté Educative Pierre Harmignie (Florennes)

These two associations provide educational assistance and host 72 children (ages 3-18) in difficult or dangerous situations and facing parental problems. The objectives are multiple: providing a home for young people, reintegration, autonomy.

BRAZIL

Help for children and adolescents in the community of Gesteria (Barra Longa locality, Mina Gerais State).

This year, we helped children and adolescents in the community of Gesteira, a community particularly affected by the dam catastrophe of the mining company Samarco in 2015. Teenagers were studying or helping their parents on livestock or agricultural farms, but after the accident, a lot of them started taking drugs and children began to experience learning difficulties in school because their families lost everything: their house, livelihoods, social and cultural ties. Given their situation, TPF organized several events helping them to overcome trauma, to find self-esteem and, in the case of young people, to benefit from training leading the way to the labour market.

A first event was organized on the occasion of Children's Day, celebrated in Brazil on October 12th. On the program: fun activities, workshops and a play, in association with the Osquindô Club and the active participation of local schools, parents and an NGO. A Christmas party was also organized in the same spirit.

Junior Achievement Association (Recife)

Junior Achievement is the world's largest organization dedicated to educating students about workforce readiness, entrepreneurship and financial literacy through experiential, hands-on programs. Volunteers help and prepare young people for the real world by showing them how to generate wealth and effectively manage it, how to create jobs which make their communities more robust, and how to apply entrepreneurial thinking to the workplace. Students put these lessons into action and learn the value of contributing to their communities.

01 — Parrain Ami Asbl - Belgium
02 — Institution of Youth Aid La Castia Notre-Dame, Florennes - Belgium
03 — Associação Junior Achievement – Recife, Brazil
04 — Children's Day in Brazil, Community of Gesteira - Brazil


01


02


03


04

ETHIOPIA

Emalaikat Foundation - San José (Muketuri) Maternal and Child Care Center

The San José center aims to combat food and nutrition insecurity in the Shoa region and specifically in the village of Muketuri with 15,100 inhabitants. About 320 children aged 4 to 6 receive the most comprehensive care every day (nutrition, growth and health monitoring, primary school preparation). The San José centre is also a place of food production where their mothers can receive training. Among achievements, we can mention: the creation of an orchard with localized irrigation system (drip) or the construction of a chicken coop with 150 hens and a stable with 12 dairy cows.

INDIA

Fandry Foundation (Mumbai)

Established in 2014, the Fandry Foundation contributes to the educational success of tribal children and focuses on maximizing local resources within tribal communities of Maharashtra State. Its goals are to collect donations, support educational initiatives and teach organic farming to farmers. IT infrastructure was needed in order to implement e-learning solutions and ensure access to quality education for children in the Nashik, Ratnagiri and Kolhapur tribal areas. TPF decided to help by buying several computers.

MOZAMBIQUE

Ongawa (Maluana)

Ongawa is a Spanish engineering NGO which operates in the province of Manica and specifically in the district of Maluana which has 5,000 inhabitants. Barely 50% of the population has access to water and less than 20% has access to adequate sanitation. Ongawa aims to improve access to water and sanitation services to improve infant mortality statistics and causes of death.

POLAND

The Empowering Children Foundation (formerly known as "Nobody's Children Foundation")

This Polish NGO has several objectives: the protection of children and adolescents against violence and sexual abuse, the improvement of the situation of children participating in legal procedures as witnesses, or the aid and assistance to children and adolescents as well as their families.

PORTUGAL

Operação Nariz Vermelho

The Institution Operação Nariz Vermelho aims to entertain hospitalized children to give them a better experience during these difficult times. Each year, volunteer clown doctors visit some 40,000 children in hospital.

SENEGAL

Yakaar Africa

This Spanish NGO collects old bicycles in order to repair them and distribute them to schoolchildren who sometimes live more than 7 kilometres away from their school. Since they can not have lunch in school, some of them have to travel four times a day. The objectives of this project are many: to improve the conditions of access to school, to combat fatigue and absenteeism, to motivate schoolchildren to participate in classes, to help schools by providing them with equipment, to contribute to best practices for school governance.

01 — San Jose Maternal and Infant Center - Ethiopia
02 — Fandry Foundation - India
03 — Ongawa - Access to water in the Maluana district - Mozambique
04 — Empowering Children Foundation - Poland
05 — NGO Yakaar Africa - Senegal


01


02


02

02


03


04


05

CONSOLIDATED ACCOUNTS

2017

CONSOLIDATED BALANCE SHEET / ASSETS	2017	2016
	€	€
TOTAL FIXED ASSETS	**40,117,550.45**	**38,213,288.89**
I. FORMATION EXPENSES	**6,422,550.32**	21,779.12
II. INTANGIBLE ASSETS	**1,707,589.99**	1,747,907.03
III. GOODWILL	**14,304,250.87**	17,073,591.30
IV. TANGIBLE ASSETS	**8,476,777.36**	9,233,785.07
A. Land and buildings	2,393,242.57	2,064,765.47
B. Plant, machinery and equipment	2,838,595.31	3,054,357.40
C. Furniture and vehicles	2,736,359.71	3,669,965.63
D. Leasing and other similar rights	12,256.05	18,420.91
E. Other tangible assets	496,323.72	426,275.66
F. Fixed assets in progress	0.00	
V. FINANCIAL ASSETS	**9,206,381.91**	10,136,226.38
A. Companies consolidated by the equity method		
1. Participating interests		
2. Amounts receivable		
B. Other companies		
1. Shares	4,878,504.68	5,035,031.18
2. Amounts receivable	4,327,877.23	5,101,195.21
TOTAL CURRENT ASSETS	**275,421,237.60**	**284,699,251.01**
VI. AMOUNTS RECEIVABLE AFTER ONE YEAR	**2,988,990.48**	2,578,718.88
A. Trade debtors	1,574,693.24	1,540,085.18
B. Other amounts receivable	1,414,297.24	1,038,633.70
VII. STOCKS AND CONTRACTS IN PROGRESS	**53,329,738.28**	53,268,262.20
A. Stocks	708,969.61	1,214,514.38
1. Raw materials and consumables	73,918.48	455,361.32
2. Goods in process	58,069.01	3,967.98
3. Finished goods	312,282.14	617,479.20
4. Goods purchased for resale	26,362.44	
5. Real property acquired or constructed for resale		
6. Advance payments	238,337.54	137,705.88
B. Contracts in progress	52,620,768.67	52,053,747.82
VIII. AMOUNTS RECEIVABLE WITHIN ONE YEAR	**180,138,798.36**	164,923,841.28
A. Trade debtors	127,462,006.06	121,436,936.28
B. Other amounts receivable	52,676,792.30	43,486,905.00
IX. INVESTMENTS	**9,325,488.82**	11,167,992.49
A. Owned shares	104.83	
B. Other investments	9,325,383.99	11,167,992.49
X. CASH AT BANK AND IN HAND	**18,523,012.49**	44,529,116.61
XI. DEFERRED CHARGES AND ACCRUED INCOME	**11,115,209.17**	8,231,319.56
TOTAL ASSETS	**315,538,788.05**	**322,912,539.90**

CONSOLIDATED BALANCE SHEET / LIABILITIES	2017	2016
	€	€
EQUITIES	**58,522,004.71**	**60,135,672.32**
I. CAPITAL	**18,327,188.00**	18,327,188.00
II. SHARE PREMIUM ACCOUNT		
III. REVALUATION RESERVES	**356,542.84**	5,580.99
IV. RESERVES	**40,899,917.97**	40,878,565.14
V. BADWILL	**2,375,131.97**	2,020,244.24
VI. CUMULATIVE TRANSLATION ADJUSTMENTS	**-3,436,831.33**	- 1,095,906.05
VII. GRANTS	**55.26**	0
VIII. THIRD PARTIES INTERESTS	**16,125,210.20**	15,424,947.38
TOTAL GROUP AND THIRD PARTIES EQUITIES	**74,647,214.91**	**75,560,619.70**
IX. PROVISIONS AND DEFERRED TAXES	**7,786,921.99**	4,365,624.46
A. Provisions for liabilities and charges	4,714,378.50	978,813.91
B. Tax provision	133,747.96	187,236.49
C. Important repairs and important maintenance	932,559.28	1,609,622.36
D. Other risks and charges	2,031,087.32	1,575,861.40
E. Deferred taxes	-24,851.07	14,090.30
TOTAL DEBTS	**233,104,651.22**	**242,986,295.79**
X. AMOUNTS PAYABLE AFTER ONE YEAR	**55,840,009.06**	61,553,055.64
A. A. Financial debts	52,618,486.94	57,499,468.64
1. Subordinated loans	115,099.39	
2. Unsubordinated debentures		
3. Leasing and other similar obligations	94,039.23	92,037.24
4. Credit institutions	34,107,443.25	40,608,065.60
5. Other loans	18,301,905.07	16,799,365.80
B. Trade debts	33,045.23	174,987.98
1. Suppliers	33,045.23	174,987.98
2. Other trade debts		
C. Amounts received for orders		568,299.89
D. Other amounts payable	3,188,476.89	3,310,299.13
XI. AMOUNTS PAYABLE WITHIN ONE YEAR	**174,978,240.67**	178,388,234.73
A. Current portion of amounts payable after one year	33,349,751.29	35,025,111.77
B. Financial debts	49,961,593.28	59,376,784.01
1. Credit institutions	47,472,531.32	56,486,536.12
2. Other loans	2,489,061.96	2,890,247.89
C. Trade debts	39,204,913.17	34,737,855.45
1. Suppliers	39,204,913.17	34,737,855.45
2. Other trade debts		
D. Advances received on contracts in progress	2,710,582.50	2,940,481.91
E. Taxes, remuneration and social security	42,649,052.86	33,608,435.46
1. Taxes	25,463,789.03	20,652,078.82
2. Remuneration and social security	17,185,263.83	12,956,356.64
F. Other amounts payable	7,102,347.57	12,699,566.14
XII. ACCRUED CHARGES AND DEFERRED INCOME	**2,286,401.49**	3,045,005.42
TOTAL LIABILITIES	**315,538,788.12**	**322,912,539.95**

CONSOLIDATED PROFIT AND LOSS ACCOUNT	2017	2016
	€	€
I. OPERATING INCOME	**242,337,309.87**	254,030,293.96
A. Turnover	237,170,467.61	243,761,580.24
B. Increase ; Decrease in stocks of finished goods, work and contracts in progress (+, -)	2,310,610.89	7,505,031.81
C. Own work capitalised		
D. Other operating income	2,594,252.56	2,414,594.79
E. Non-recurring operating income	261,978.81	349,087.12
II. OPERATING CHARGES	**225,452,817.01**	236,256,268.54
A. Raw materials, consumables and goods for resale	53,620,535.87	61,165,498.45
1. Purchases	53,261,330.77	61,141,160.77
2. Stocks: decrease (increase) (+, -)	359,205.10	24,337.68
B. Services and other goods	50,986,433.72	53,617,781.01
C. Remuneration, social security costs and pensions	111,906,594.72	112,239,044.61
D. Depreciation of and other amounts written off establishment costs, intangible and tangible fixed assets	2,350,845.87	2,669,831.18
E. Amounts written off stocks, contracts in progress and trade debtors (+,-)	709,486.27	1,890,319.12
F. Provisions for liabilities and charges (+,-)	24,164.29	-438,324.34
G. Other operating charges	2,319,011.56	3,012,453.35
H. Operating charges carried to assets as restructuring costs (+,-)		
I. Amounts written off on positive consolidation differences		
J. Non-recurring operating charges	3,535,744.71	2,099,665.16
III. OPERATING RESULT	**16,884,492.86**	17,774,025.42
IV. FINANCIAL INCOME	**6,358,801.37**	30,475,942.33
A. Income from financial fixed assets	1,216,933.34	609,554.01
B. Income from current assets	809,079.03	515,799.34
C. Other financial income	1,964,969.16	4,392,132.42
D. Non-recurring financial income	2,367,819.84	24,958,456.56
V. FINANCIAL CHARGES	**14,972,559.47**	28,910,329.47
A. Debt charges	5,014,790.15	5,282,683.55
B. Increase ; Decrease in amounts written off current assets other than those mentioned under II.E. (+,-)	905,916.70	8,236,883.16
C. Other financial charges	5,542,461.58	5,220,857.38
D. Depreciation of goodwill	3,415,950.13	3,960,529.59
E. Non-recurring financial charges	93,440.91	6,209,375.79

CONSOLIDATED PROFIT AND LOSS ACCOUNT	2017	2016
	€	€
IX. GAIN (LOSS) FOR THE PERIOD BEFORE TAXES	**8,270,734.76**	19,339,638.28
X. TRANSFERS TO AND FROM DEFERRED TAXES AND LATENT TAXATION LIABILITIES	**-1,570,594.86**	-1,288,836.60
A. Transfers to deferred taxes and latent taxation liabilities	4,940.79	134,474.74
B. Transfers from deferred taxes and latent taxation liabilities	1,575,535.65	1,423,311.34
XI. INCOME TAXES	**8,187,768.78**	8,036,530.90
A. Taxes	8,711,372.45	8,154,041.98
B. Adjustment of taxes and release of provision for taxes	523,603.67	117,511.08
XII. GAIN (LOSS) OF THE PERIOD	**1,653,560.84**	12,591,943.98
XIII. SHARE IN THE RESULT OF THE COMPANIES ACCOUNTED FOR USING THE EQUITY METHOD		
A. Profits		
B. Losses		
XIV. CONSOLIDATED PROFIT	**1,653,560.84**	12,591,943.98
XV. RESULT OF THIRD PARTIES	**1,632,208.12**	2,070,933.34
XVI. RESULT OF THE GROUP	**21,352.76**	10,521,010.66

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