Imagining and designing cities and regions
Imagining, designing and developing more efficient, harmonious and sustainable cities and regions
**Capital held by managers and employees**: 96.7%

- **520** shareholder managers
- **1,790** employees (via the shareholding plan “FCPE”)

**Geographical breakdown of turnover**

- 30% outside France
  - 43% Europe (exc. France)
  - 38% Africa and Middle East
  - 15% Asia
  - 4% Americas

**Turnover**

- €485M in 2017

**Operating income**

- €19M

**Variation in comparison with 2016**

- +10.5%

**Backlog of orders**

- 19 months’ T/O

**Your projects**

- Building construction: 11
- Multi-site projects: 19
- Industrial facilities: 25
- Cities & Mobility: 33
- Water & Regional Development: 45
- Energy: 53

**Independent & Responsible**

- Ethics and resilience: 60
- Our human capital: 61
- Health, safety and security: 63
- Our eco-responsible approach: 64
- The Artelia Foundation: 65
In October, Artelia sealed its merger with Auxitec, a fine company that brings with it the expertise of a 900-strong workforce and that propels the Group to the forefront of the industrial engineering sector. The move, which vindicates our growth strategy and shareholding model, was facilitated by the fact that our companies share the same values and vision of the profession, while sharing the same degree of commitment to professional excellence and to a company controlled by its managers and employees.

The merger has helped drive Artelia’s performance, as reflected in 10%+ growth and a substantial operating income of €19 million in 2017. So a big thank you to all our employees who, by dint of their commitment and professionalism, have played an important part in this success.

Artelia is now one of the top 30 engineering companies in Europe. This momentum opens up some bright prospects for the Group and gives us cause for optimism about the future.

Feeding the momentum of growth

2017: a year of growth and strong financial results for Artelia.

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Alain Bentéjac & Jacques Gaillard
CO-PRESIDENTS
At the heart of the key challenges of our times

As an engineering and project management company, we are living in exciting times.

We are living in a world buffeted by both profound transformations and unforeseen shocks – a sort of daily dual reality in effect. Advising our clients and helping them rise to the challenges of mobility, the energy transition, quality of life and the digital transformation is our raison d’être. Every day we tackle that dual reality by ensuring that we anticipate and adapt swiftly to regulatory developments, to shifting geopolitical realities and to the strategic goals of our clients – a challenge that is at once demanding and incredibly exciting.

2017 was vivid testament to this dual reality. We helped to modernise the French rail network by virtue of our framework agreements with SNCF and to make the Greater Paris area an exemplary capital in our capacity as assistant to the Owner, Société du Grand Paris. We played our part in the energy transition by overseeing the construction of major hydropower projects in Laos and photovoltaic power plants in South America and Asia. We designed a cyber security services solution tailored to the latest digital applications for more than 300 Weldom home improvement stores. We carried out projects on more than 900,000 m² of high-rise buildings in France, helping to enhance the well-being of those who live and work in them. And we were involved in the digital transformation, developing drones to capture imagery for 4D modelling programmes designed to optimise the construction supervision process.

Artelia’s extensive multi-disciplinary capability is a key asset in grasping the full import of the changes sweeping our societies. This in turn allows us to respond rapidly to our clients’ needs and to manage the complexities of the thousands of projects that mobilise our people every day. In 2017 we again broadened our skills set and ability to handle large-scale projects with the arrival of Auxitec, one of the top French companies in the industrial engineering sector. This was by far the biggest external growth operation since the creation of the Group in 2010.

Reporting a turnover of €485 million in 2017, up 10.5% on the previous year and including 6% organic growth, Artelia is now the only French group to offer such a balanced blend of advanced engineering skills in building construction, infrastructure, water, industrial facilities and the environment. We now rank among the top 30 engineering companies in Europe, as we continue pursuing our ambition to become one of Europe’s benchmark engineering firms. And we are delivering on our goal of growing our turnkey services which, in 2017, for the second year running, accounted for more than 10% of our turnover.

To cater more effectively to the needs of our clients abroad, we have continued to focus our efforts on four parts of the world: Western Europe, Africa, the Middle East and South East Asia. Our strategic subsidiaries enhanced their service offering, particularly in Italy and Spain, and in Vietnam where they have progressively expanded to accommodate more and more of the Group’s business lines, while growing their regional presence as seen with the recent opening of a subsidiary in Indonesia. Our subsidiaries in Morocco and Ivory Coast also expanded their skills and capacities in 2017. The upshot of all these efforts was a healthy 15% growth in turnover outside France for the Group.

Lastly, Artelia undertook a complete overhaul of its CSR policy in 2017, with the result that it is now an even more faithful reflection of our values and our raison d’être. Our new policy is underpinned by four “pillars”: assert ourselves as an independent, ethical Group; develop our human capital; improve our environmental performance; and commit to civic and humanitarian causes. These are coupled with concrete commitments and ambitious targets for 2020, the aim being to emphasise the fact that meeting our clients’ needs and working to improve the planet and society are two indivisible facets of the essence of the work performed daily by the Group’s 4900 employees worldwide.

Benoît Clocheret
CHIEF EXECUTIVE OFFICER
Governance

Board committees: Strategic Committee - Auditing and Accounts Committee - Remuneration Committee - Ethics Committee

EXECUTIVE COMMITTEE

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Chief Executive Officer, ARTELIA

DENIS BERTEL  
General Manager, ARTELIA Ville & Transport

MARC GIROUSSENS  
General Manager, ARTELIA Eau & Environnement

TRISTAN LEGENDRE  
General Manager, ARTELIA Bâtiment & Industrie

PIERRE MICHEL  
General Manager, AUXITEC

ANTOINE PIGOT  
General Manager, ARTELIA International

FRÉDÉRIC ABBADIE  
Director, Finance & Purchasing

FRANÇOIS-XAVIER HUARD  
Director, Research & Innovation

THIERRY LASSALLE  
Director, Human Resources

PHILIPPE MAYAUD  
Deputy General Manager

OLIVIER SERTOUR  
Director, Ethics, Risks and Management System, Legal, Information Systems, Real-Estate Assets

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Jacques Gaillard  
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Benoît Clocheret  
Chief Executive Officer, ARTELIA

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Deputies Dominique Combe - Pascal Thévenet
1400

AUXITEC
General Manager Pierre Michel
Subsidiary General Managers
Jean-Elie Dandjinou - Hervé Darnand - Philippe Pourrain
900

BÂTIMENT & INDUSTRIE
General Manager Tristan Legendre
Deputies Didier Lanfranchi - François Rambour
1200

EAU & ENVIRONNEMENT
General Manager Marc Giroussens
Deputy Alain Deforche
500

VILLE & TRANSPORT
General Manager Denis Bertel
Deputies Benoît Baudry - Sébastien Pailhès
900

SUPPORT SERVICES DEPARTMENTS

ETHICS, RISKS & MS, LEGAL, IT SYSTEMS, REAL-ESTATE ASSETS
Olivier Sertour

FINANCE & PURCHASING
Frédéric Abbadie

RESEARCH & INNOVATION
François-Xavier Huard

MARKETING, COMMUNICATION & CSR
Anne-Laure Paté

HUMAN RESOURCES
Thierry Lassalle
Catherine Baldassarre - France

EXTERNAL GROWTH Régis Peltier
Delivering for our clients around the world

15% growth in turnover, bigger projects, consolidation of our strategic subsidiaries, enhanced synergies: 2017 was a busy year for Artelia in the international arena.

In 2017, we continued to focus our efforts on Western Europe, South East Asia, the Middle East and Africa. Our UK, Spain and Vietnam subsidiaries saw strong business growth while a dynamic Artelia Italia succeeded in maintaining its momentum. Our teams in the United Arab Emirates and Oman have also taken advantage of a more promising context, and our subsidiary in Ivory Coast has continued to do extremely well after getting off to a promising start.

Working together in the international arena and through an increasingly effective geographical network, we are continuing our efforts to deliver efficient services to clients all over the world.

A REMARKABLE SURGE IN MOMENTUM IN SOUTH EAST ASIA

With a workforce now in excess of 600, our network in South East Asia continued to expand in 2017. Our strategic subsidiary in Vietnam, which plays a vital role supporting our branch offices in Cambodia, Myanmar, the Philippines, Singapore and Thailand, continued to grow and is now a leading centre of expertise. Its project management specialists are backed up by an experienced team of building construction engineers working with BIM. New resources have been rolled out in the fields of renewable energy and energy efficiency. The objective for this region is to keep up this momentum with a focus on fields relating to water and infrastructure.

ARTELIA UNITED KINGDOM

Enjoying a solid reputation for its project management capability in the building construction sector, Artelia UK is typical of our international subsidiaries’ shift towards ever larger projects. In 2017 it was involved in a number of prestige real-estate projects in London as well as several large-scale multi-site programmes. It is the driving force in our ARTELIA Hospitality cluster and has also been successful in restoring some notable heritage treasures.

ARTELIA SPAIN

Our subsidiary in Spain has grown steadily over the past three years. With its core business in the fields of building construction and multi-site operations, for which it has introduced some innovative resources. Artelia Spain has expanded its portfolio by working in conjunction with other Group entities, particularly Artelia Italia, which sought its assistance on behalf of a client as part of its project to build a large holiday resort in Spain.
In France:
- 3500 branch offices
- 55 branch offices

Worldwide (outside France):
- 1400 permanent offices
- Operations in more than 30 countries
Auxitec joins the Artelia Group

Given the complementarity of the two companies, and the many points they have in common, this merger augurs well for the future. With Auxitec, the Group is now able to assert itself as a major player in the industrial engineering market.

Top-flight expertise in industrial engineering, building construction and civil engineering

Auxitec brings with it the guarantee of a high-calibre multi-disciplinary capability extending from the design stage through to commissioning. Its teams provide total project management solutions, from comprehensive design and construction supervision assignments through to turnkey contracts. To that end they put a broad range of skills to work on projects of ever growing complexity.

A unit specialising in digital services

Auxitec oversees design and construction supervision assignments and change management projects in the fields of IT, telecommunications and networks. It offers cloud computing services, designs cyber security solutions, develops custom applications and provides in-service support for integrated systems. It is also skilled in the development of software packages for industry, business computing and QSSE management.
A history of close proximity to its clients

Founded in Le Havre in 1964 to cater to the needs of a booming French oil industry, Auxitec started life as the design office at the Société Havraise des Pétroles. From the eighties it began opening branch offices close to the main French industrial installations, its mission being to help its clients improve the performance of their production facilities.

At the same time Auxitec started to diversify, expanding into the mechanical engineering, metallurgy, building construction and civil engineering sectors while growing its capability in design and construction supervision services.

Boosting synergies through complementarity

Nowadays, Auxitec provides comprehensive design and construction services and manages projects of all sizes and involving all trades. With more than 400 clients operating in all economic sectors*, it has gained a solid reputation for its experience in the industrial and building construction sectors. By joining up with Artelia, an international group, Auxitec is seizing the opportunity to develop its business outside France and to accelerate its move into turnkey projects on a larger scale.

For Artelia, the merger has allowed it to become a leading player in the industrial engineering market and to strengthen its multi-disciplinary capability through a more comprehensive and balanced service offering covering the building construction, infrastructure, water, environment and industrial sectors.

The early eighties also saw the company move into the fields of industrial and business computing and CAD software development – a diversification it accomplished successfully.

Auxitec began to gain its independence from Société Havraise des Pétroles in 1994, via the first in a series of four leveraged buyouts that saw some Auxitec employees and its management acquire a majority stake in the company. The new owners then went on to grow the company’s activities around three main business lines: industrial facilities, building construction & civil engineering, and digital services.

While sharing a strong connection in terms of their history, independence, quest for technical excellence and the importance they attach to people, the two companies are at the same time complementary in terms of their skills, their locations and their clients. And this complementarity has greatly facilitated the merger. Indeed a number of joint contracts have been won already, notably in the industrial and building construction sectors and on multi-site projects both in and outside France for clients operating in a diverse range of sectors (BASF, CEA, EDF, Eurenco, Fibre Excellence, Total Group, Naval Group, among others).

* Refining, petrochemical and chemical, cosmetics, pharmaceuticals, gas and nuclear, mechanical, automotive, aviation, naval, rail, steel, metallurgy, offshore, renewable energy, defence, telecommunications, services sector, local authorities...
Designing sustainable buildings while fully embracing the digital transformation is a key objective for our clients. It requires a holistic approach that plays an important part in shaping the construction and rehabilitation projects entrusted to us. In more concrete terms, it demands continual improvements in performance, in terms both of the performance of the buildings themselves and of the way we deliver our consultancy, management and engineering services.

The projects selected to showcase our work in 2017 give an idea of the solutions provided by Artelia in the building construction sector. Whether the brief concerns a neighbourhood-wide scheme (as was the case of Les Lumières Pleyel) or an individual building, the issues that we have to deal with - mixed-use development, biodiversity, resource efficiency, mitigation of the impacts, energy efficiency, connectivity and people’s well-being – are the same.

At the same time we continually strive to innovate when it comes to accommodating the ongoing digital revolution. No matter what the challenge – from the Smart Building requirements that are cropping up in our more recent projects to the inclusion of Big Data analytics in our design and construction supervision tools – Artelia is always up to the task!

Tristan Legendre
General Manager
ARTELIA Bâtiment & Industrie
At the forefront of environmental standards

DUO-PARIS project, designed by Jean Nouvel, epitomises the large-scale renewal and modernisation programmes that are currently transforming the face of Paris and its surrounding urban area. It comprises two futuristic towers standing 180 m and 122 m tall, with a segmented structure corresponding to their various purposes: offices, shops, restaurants, cultural amenities, and a luxury hotel. The entire complex lies on a common base topped with a landscaped roof garden. DUO-PARIS project will also be the first project in France to be registered for WELL certification, which sets new standards for the well-being of the future users and occupants.

A key feature of the DUO-PARIS project, to which Artelia is paying particular attention, relates to the particularly ambitious environmental targets it intends to achieve: HQE Exceptional, LEED Platinium, and Effinergie+.

Assignment: coordination of studies, construction supervision, mechanical & electrical systems engineering, project environmental management, BIM management.
A project epitomising the future Greater Paris

Sogelyn Dixence, the lead firm in the multi-disciplinary consortium of 50 partners (architects, property investors and operators, cultural players, innovative start-ups, design offices and construction firms), is a winner of the “Inventing the Greater Paris Metropolis” call for projects and the brainchild behind this scheme in the Pleyel district, lying along the Nord-Europe rail corridor and on either side of the largest station on the Grand Paris Express metro.

This project, tying in with the ambition to create the “Greater Paris” metropolis, comprises a mixed-use programme of more than 176,000 m² of offices, housing, hotels, student residences, shops and cultural and sporting amenities arranged around a 14,000 m² landscaped public park, half of which will be given over to open land.

Artelia assisted Sogelyn Dixence during the competitive bidding phase, and this success illustrates the synergy that exists between the Group’s various specialist fields, its strength, and its ability to propose innovative solutions for large-scale projects. Artelia is also a partner on four other winning schemes in this same call for projects: Passerelles (Eiffage Immobilier), Ôm (Icade), Parcs en Scène (Linkcity) and La Bulle d’air (Ogic). All these projects place the focus on bold architectural designs, innovative construction methods, the circular economy, climate change adaptation, well-being for inhabitants and mixed usage. To each one we contributed our ability to innovate and to mobilise experts in the whole range of technical fields.

Artelia’s experts will be part of the technical teams working on the following assignments: project environmental management, general advice on mobility and phasing, technical design services (all trades), environmental designs, and construction supervision.

Katia Tibichte
Head of the Sustainable Buildings Department
ARTELIA Bâtiment & Industrie
U ARENA | FRANCE - NANTERRE

A prestigious multi-purpose venue

The U Arena, in the western suburbs of Paris, is dedicated to sport and entertainment and capable of seating up to 40,000 people in optimum conditions, making it one of Europe’s largest indoor adaptable venues. Designed by Artilia’s subsidiary RFR Structure et Envelope, its remarkable stratified envelope reflects the purpose performed by each of the building’s three levels. The ground-floor level is light and transparent, and the intermediate levels are cladded with glass and shells that form a striking architectural feature while also acting as efficient sun screens. The uppermost section of the building espouses the shape of the grandstands and forms its roof.

Assignment: technical design of the façades

DIGITAL CITY - EM NORMANDIE | FRANCE – LE HAVRE

A new high-tech campus

This 12,700 m² building in Le Havre will soon house the rapidly-growing Normandy business school and the Cité Numérique (Digital City), a new facility dedicated to digital projects with a fablab, an incubator and a digital services centre. Auxitec’s specialist teams oversaw construction of this complex building. The central atrium and offset levels called for large-span cantilevered structures combining concrete and steel. Additional challenges lay in integrating the networks into this complex building and completing the design phase within tight deadlines.

Assignment: engineering services for design, construction, operation and maintenance

FIRE SAFETY

Our subsidiary PCSI is overseeing this sensitive issue in the framework of the project to refurbish the Grand Palais exhibition hall in Paris. In historic buildings of this type, fire safety has to be factored in to all aspects of building services engineering.

HIGH-SPEED WIFI

Auxitec installed an innovative open-ended WiFi solution at the Neoma business schools in Rouen, Reims and Paris. More than 400 high-capacity terminals were fitted, along with a cloud-based solution and a low-cost, easy-to-use administration system.
HUMANITAS CAMPUS AND HOSPITALS | ITALY

Supporting the expansion of a private healthcare group

The Humanitas group, a leading private player in the Italian healthcare sector, has commissioned Artema to manage several development projects. In 2017 our teams completed and handed over the Humanitas University in Rozzano, near Milan, a facility with state-of-the-art teaching, technological and scientific equipment and a capacity of a thousand students. On the same site, to enable it to expand its portfolio of services, we are overseeing the works to extend the Humanitas Research Hospital, the group’s flagship establishment. We have also been appointed to build the Humanitas Center of the Mediterranean in Catania (Sicily), a new 300-bed hospital specialising in oncology. Artema Italia is drawing on BIM techniques to develop these projects.

Assignment: design studies, project management, works supervision

NEW SAINT-JEAN L’ERMITAGE CLINIC
FRANCE - MELUN

Creating a benchmark public-private healthcare complex

This new clinic is being created in line with the current strategy of modernising and consolidating healthcare establishments in France. Hitherto divided between two separate sites, the activities of Saint-Jean l’Ermitage clinic will soon be grouped together in brand-new buildings alongside Melun hospital. Together the two will form the “Santépôle de Seine-et-Marne”, the largest public-private healthcare complex in France.

The new clinic, which will have 244 beds and spaces, has been designed to provide both patients and medical staff with top-quality facilities. Artema and Sanae Architecture designed and oversaw construction of all the buildings (diagnostic and treatment areas, high-dependency and cardiac intensive care units, general services, logistics, etc.) while applying an exemplary environmental approach that complies with the 14 targets of the French HQE (green building) standard.

Assignment: complete general design services and construction supervision
Innovative construction serving the art world

This museum was designed by architectural firm Studio KO, and is intended by Pierre Bergé as a tribute to Yves Saint Laurent and the culture of Morocco that was so dear to him. This 4000 m² building includes a permanent exhibition space dedicated to the couturier’s collections alongside a temporary exhibition hall, a modular auditorium with impeccable acoustics, a library of ancient books on Morocco, a preventive and restorative conservation area, a bookshop and a café.

To meet the requirements of museography, scenography, acoustics and flow management, a large number of experts had to be mobilised and coordinated by the design company and by Artelia Morocco’s management teams. Special attention was paid to the architectural treatment of the building using original materials, some of which are specific to Moroccan culture. Energy-efficient systems were also incorporated, such as the exterior envelope featuring an air layer, and the glazing system with built-in sun screens.
HÔTEL DE CRILLON, A ROSEWOOD HOTEL | FRANCE - PARIS

Rebirth of an iconic luxury Parisian hotel

The Hôtel de Crillon, A Rosewood Hotel, reopened in July 2017 following a complex and extensive refit. Artelia oversaw this exceptional operation, during which the building was almost completely stripped. Offering more spacious accommodation, creating signature suites, developing a basement swimming pool lit by a skylight, and refurbishing numerous listed features were included on the programme for this ambitious undertaking, which required meticulous coordination of the many players involved. And the result more than lives up to expectations: the Hôtel de Crillon, A Rosewood Hotel instantly reclaimed its title as an icon of luxury à la française blending modernity and refinement, remaining faithful to the spirit of the original hotel and showcasing some talented contemporary designers.

Assignment: coordination of design studies, multi-disciplinary technical design studies, construction supervision

VILLAGES NATURE

AQUALAGOON | FRANCE - SEINE-ET-MARNE

The largest water park in Europe

This new holiday destination incorporates a large water park, for which Artelia was commissioned to provide construction supervision and water treatment services. It comprises 3500 m² of indoor aquatic leisure facilities and an outdoor lagoon which measures approximately 3000 m² and is heated by geothermal energy to more than 30°C all year round. The structure of the main pavilion, built entirely of wood from the CLT flooring to the glue-laminated beams, is inspired by the shape of an origami snail. Its highest point, rising 27 m above the ground, is a glass dome comprising an elegant viewing platform offering panoramic views over the surrounding area.

Assignment: coordination of designs, quantity surveying, construction supervision, coordination of implementation

INTENSE INTERNATIONAL ACTIVITY

Our ARTELIA Hospitality cluster contributed to numerous hotel and holiday resort projects around the world, including complete refurbishment of the historic Hotel De La Ville in Rome and construction of the first Citadines Apart hotel in Vietnam, in Nha Trang City.
DigiSITE

Artelia has entered into a partnership with software publisher IDCapture to develop applications capable of digitally processing the data gathered during each phase of construction works. Available on a computer, tablet or smartphone, these applications help to make operations more productive and enhance the quality of the structures built. The goal is to make construction sites completely paperless by the first quarter of 2019.

DigiSCADE

DigiSCADE (the French acronym for “solutions for the automated capitalisation of environmental and energy data”) is a web tool that automatically records the huge amount of information available in standardised reports (including those on thermal regulations) in a structured database. It is accessible via a customisable web viewing mode and provides a means of consulting all the available data and using them to build ratios or approaches in the initial project stages.

USING DRONES TO ENHANCE 4D MODELLING

Artelia intends to expand its use of drones, in particular to bridge the gap between digital mock-up and work site supervision. In cases where drones can already be used to obtain a “baseline” by digitising an existing site, Artelia will record new data at regular intervals in order to track the actual progress of the works. By superimposing this monitoring data on the 4D mock-up produced during the design phase, it will be possible to illustrate developments accurately and compare them with the expected schedule.

Creativ’LAB

This is the name of the new space dedicated to creation, innovation and research that we inaugurated in 2017. It is harnessing cutting-edge digital technologies in the fields of design, visualisation and data sharing such as 1:1 scale 3D immersion, augmented reality and systems for working remotely on 3D mock-ups, with a view to applying them to our projects and R&D activities.

The Creativ’Lab is quickly becoming a meeting place and brainstorming forum enabling our employees to try out new concepts.
Whether the aim is to open or modernise branch offices or retail outlets based on a new business concept, or to improve the management and maintenance of property assets, the main purpose of our work in this area is to help our clients maximise the value of their network. Artelia has international experience in the specific field of multi-site projects - expertise that covers the entire value chain and which allows us to provide à la carte services spanning all sectors of activity and to assist our clients wherever they are in the world.

In 2017, we renewed our partnerships with some of the major oil and gas companies and helped to transform service stations into the "stations of the future". At the same time, we continued our assignments to upgrade the visual identities of car dealerships.

We won commissions from new clients in the banking, mass retail and hospitality sectors. And Basic Fit, the European market leader in the "value-for-money" fitness market, asked us to help it implement its strategic growth in France.

2017 was also a good year for maintenance management at Artelia. Our work for Certas delivered substantial performance improvements for 325 Esso service stations. Similar commissions came from Allianz and ENI, with contracts to optimise the maintenance of their sales outlets.

Antoine Pigot
General Manager
ARTELIA International
PARTNERSHIP WITH SHELL

Shell renews its confidence in Artelia

In December 2017, Shell renewed its EPCM (Engineering, Procurement and Construction Management) partnership with Artelia in the fuel distribution sector. This decision comes in recognition of our efficient management of the investments entrusted to us over the past two years, which were worth more than 400 million dollars. It rewards our commitment in France, the United Kingdom, Germany, Switzerland and Austria, countries in which we have been working for a decade, and marks success for the roll-out instigated in 2015 in Thailand, Oman and the Philippines.

In each of these countries we have developed best practices to optimise safety, procurement contracts, quality assurance and sales outlet design. We have also worked on embracing alternative fuels and extending the range of services offered at service stations.

Noteworthy operations include the development of flagship V Power facilities in Thailand and the reconstruction of the two Shell stations in Bellinzona, Switzerland, located on major European routes.

ESSO

Acting as assistant to Certas (Owner), Artelia continued its assignment to upgrade the visual identities of some 300 Esso service stations in France.

IDEMITSU

Artelia handed over the first station on the Idemitsu Q8 network, a new brand currently being rolled out in Vietnam.

ELECTRIC VEHICLES

Artelia was involved in the roll-out of recharging stations in the framework of the Bluetorino programme (Bolloré, Italy), the EVA+ programme (Enel, Italy and Austria) and the Shell EV programme (United Kingdom).
MONTE DEI PASCHI DI SIENA | ITALY

A new lease of life for the oldest bank in the world

Monte dei Paschi di Siena, founded in 1472, is considered to be the world’s oldest bank that is still operating. It is one of Italy’s leading banking groups. Although its activities focus on traditional retail and corporate banking services, they cover all the key fields in the sector and draw on a network of more than 1700 branches and 230 specialist centres located throughout Italy. Monte dei Paschi di Siena has embarked on a programme to reorganise and upgrade this network.

Assignment: design and construction supervision, HSE coordination

Our Group is highly experienced in the management of multi-site operations in the banking sector. Artelia Italia’s assignment on behalf of the MPS bank concerns the upgrading of the electrical and mechanical systems in its network of branches. We are providing feasibility studies, detailed design studies, safety coordination services and works supervision. Our teams are committed to delivering 200 refurbished branches each year. On behalf of this client we also perform one-off studies, as well as due diligence and engineering assignments for specific buildings and data centres.

Paolo Alberti
Director, Multi-Site Programs & Energy Efficiency Unit
ARTELIA Italia
Dutch group Basic Fit has set out to penetrate the French market, with a goal of opening several hundred fitness clubs under its brand. Artelia is playing an active role in this process, and our teams have the task of studying some forty potential sites. This client particularly appreciates our capacity to act quickly to assess the technical and economic feasibility of each operation prior to potentially signing a lease. Artelia is also handling all the fit-outs paying particular attention to the key issues of ventilation and air-conditioning. Two clubs have already been opened, in Sartrouville and Dreux, and several more are currently ongoing.

Assignment: general contractor

Weldom, a large French retail chain specialising in home improvement, gardening and decoration, has decided to equip its stores with a new cyber security services solution that is more efficient and better tailored to the increasing data flows related to new IT uses (IP telephony, client WiFi, mobile devices, etc.) and its future development projects to embrace digital transition. Auxitec handled the design, deployment and supervision of this solution, which is based on cloud computing technologies and has now been installed in 302 group stores, offering a range of services geared to each store (integrated, franchise or partner). A dedicated team has been set up to provide in-service support for the system as a whole.

Assignment: complete design and supervision of implementation, in-service support

COSTA COFFEE
Artezia UK has been tasked with developing a new retail concept for Costa Coffee. Now the pilot sites have been handed over, the concept is set to be rolled out at more than 500 stores across the United Kingdom.
IMMOCHAN | FRANCE

New visual identities and functional upgrades for shopping centres

Immoblan, one of Europe’s biggest real-estate companies, has appointed Artelia to help it upgrade the visual identities of its shopping centres. Collaborating closely with the firm’s designers, our teams are rolling out a new concept that will be applied to some fifty sites over the next few years. In addition to a more up-to-date look for its facilities, the upgrade includes measures to improve visitor flows, ambient noise levels, lighting, etc.

Assignment: design and construction supervision

ARTHIA

Facility Management

Birth of a cluster dedicated to managing maintenance operations

Artelia has successfully launched the facility management services for which it has been commissioned by Certas Energy in France. Our assignment, which concerns 325 sites, has significantly improved the efficiency of maintenance operations.

Since our business in this segment is growing in the international arena we have created ARTELIA Facility Management, a cluster dedicated to disseminating best practices and designing solutions to generate value in this field.
DIGITAL MANAGEMENT OF MULTI-SITE OPERATIONS

Digitising the management of multi-site projects is a topic on which Auxitec has been working for a number of years. The tool it has developed and fine-tuned, notably on operations in collaboration with Total and Intermarché, enables all project stakeholders to access pre-defined levels of information. Thanks to this collaborative platform, the Owner has a complete overview of the unfolding project and the Engineer manages the delivery of drawings, documents, schedules and financial data at each stage of the works. Contractors can also publish their works documents and estimates. This system hence handles all aspects of the project - technical, organisational and financial - for all the sites concerned, from the preliminary design stage right through to the completion of outstanding work required for final acceptance.

USING VIRTUAL REALITY TO ASSIST AUDI IN SPAIN

In the framework of its partnership with Audi, to upgrade the visual identity of the automaker’s Spanish network of dealerships, Artelia Spain used virtual reality techniques to present the designs for its refurbishment projects. Augmented reality and 360° views gave the end clients an immersive experience of the planned transformations, offering them the possibility of selecting furnishings interactively.

BUILDING THE SERVICE STATIONS OF TOMORROW

Artelia has been working alongside the leading fuel distributors for more than 25 years, adapting service stations in line with changing transport modes, construction techniques, business practices and increasingly stringent safety and sustainability requirements.

Today, through its ARTELIA Innofuel cluster, our Group is involved in defining and developing stations capable of embracing the expanding range of alternative fuels (LNG, CNG, hydrogen), the growing number of electric vehicles and the increasing share represented by sales of non-fuel goods and services. New distributor-specific store and catering concepts are emerging, offering services such as parcel drop-off and pick-up, vehicle maintenance and accommodation facilities, as a result of which the service station of tomorrow will do far more than merely selling fuel.

Reducing the carbon footprints of service stations is another key goal towards which Artelia is working, through solutions including installing solar panels to substantially reduce their electricity consumption.
Industry is a world of constant change. Bringing out ever-more efficient and competitive products, while taking on board increasingly strict environmental requirements, demands continuous improvements in R&D, production processes and logistics. As engineers and project managers we have a key role to play in that process, since our job is to help industry create cleaner, more efficient, more reliable and more resource-efficient processes and facilities.

In 2017, by combining its know how with that of Auxitec, the Artelia group substantially increased its ability to provide appropriate solutions to the challenges that are facing industry in all sectors. Our teams were involved in the upgrade, expansion or redeployment of facilities at major industrial sites in assignments which often drew on their experience in the design and management of complex projects.

We also excelled when it came to building state-of-the-art laboratories and facilities requiring a high level of innovation. We handed over top-flight logistics hubs for key players in the sector and worked on a variety of environmental assistance assignments. We were also involved in rolling out digital services and solutions to help our clients achieve their digital transition.

Pierre Michel
General Manager
AUXITEC
Lying on the banks of the river Seine in the town of Le Trait, between the cities of Rouen and Le Havre, the TechnipFMC Flexi France site specialises in the custom design and manufacture of flexible pipe systems for offshore oil and gas applications. It is a leading centre of expertise, and TechnipFMC decided in November 2014 to expand it.

Auxitec was appointed to oversee this programme, which involves developing new spaces (by converting a former industrial area), rehabilitating several buildings in order to install more advanced steel-wire profiling and winding machinery, and extending the storage facilities. Thanks to this investment, Flexi France will be able to produce larger reels (12 m in diameter) and hence double the pipe lengths each one can hold.

Assignment: complete design and construction supervision
Designing mechanical and electrical systems for cruise ships

The STX shipyard, founded 150 years ago and located on the Atlantic coast of France, designs and constructs the largest passenger ships sailing the seas of the world today. It regularly calls on Auxitec’s expertise to design their mechanical and electrical systems, which are particularly difficult to install in such constrained settings. One notable project on which our teams worked this year involved developing the engine rooms of a new large cruise ship. Designed entirely with collaborative CAD tools, the project consisted in integrating a network of 90 equipment items and 700 piping lines shared between 11 work packages on three vertical levels.

Assignment: calculations and design studies of M&E systems

Construction of liquid ethane conveyance, storage and processing facilities

The Total Group has completed the transformation of its facility in Antwerp, a major investment aiming to enhance the synergies between its refining and petrochemicals activities. One component of this project, entrusted to Auxitec, consisted in creating facilities for conveying, storing and processing ethane. Our teams rolled out a complex cryogenic installation for holding gas in a liquid state and managing its various transient phases. Building the installation required nearly 100 tonnes of industrial piping, a thousand valves and hundreds of control devices and instruments.

Assignment: studies, procurement management, construction management
The Total Group appointed us to perform the technical and financial study for this major undertaking. It entailed adapting the logistics, the utilities, the power network and the control systems, modifying a huge number of equipment items, and creating new ones such as a steam boiler and storage facilities. We were also involved in building the solar power plant and creating the Oléum training centre. A team of 80 people was mobilised, combining different areas of expertise from across our network of branch offices.

Franck Canuet
Major Projects Director
Auxitec Industrie

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Phoenix project: from refinery to biorefinery

To meet the increasing demand for biofuels, the Total Group has transformed a large part of its oil refining site in La Mède, near Marseille, into a biorefinery. Capable of producing 500,000 tonnes of biodiesel per year, this new plant is the first biorefinery to be built in France and one of the largest in Europe. This transformation went hand-in-hand with a number of additional operations, such as incorporating a solar photovoltaic power plant and an AdBlue production plant. One of the former production units was also converted into an Oléum training centre.

Assignment: designs and construction supervision
The only aeroacoustic wind tunnel of its kind in Europe

The new aeroacoustic wind tunnel at the ISAE (French Institute of Aeronautical and Space Engineering) was inaugurated in 2017 and will help researchers to study and design quieter aircraft. Its highly versatile experiment room gives them the possibility of combining tests of different types (aerodynamic, acoustic, PIV) in either open or closed test sections. This is currently the only facility of its kind at any European university or research centre.

Assignment: design and construction

We applied several innovative solutions to ensure that this research facility would be efficient, versatile and easy to use. The scale models, which stand 4 m above the ground, are accessed via floors that can be retracted into the walls during tests themselves. We also designed some discreet tools to record the acoustic signature of the models in 3D without creating significant interference. Some highly sophisticated control systems to oversee the tests were also designed. These innovations were awarded the Midi-Pyrénées region’s engineering prize in 2016.
Construction of two refrigerated food-storage warehouses

Artelia signed a framework agreement to provide design and construction supervision services to Semmaris, the company in charge of managing and developing the wholesale market in Rungis, one of the biggest fresh produce markets in the world. Under the terms of this agreement, our teams designed and constructed two refrigerated food-storage warehouses. These two buildings, with floor areas of 6000 and 11,000 m², must comply with extremely stringent specifications in terms of regulations (hazardous installations, food safety, etc.), functional aspects and architectural treatment. Artelia also performed four other assignments at Rungis, including a number of feasibility studies, and hopes to assist Semmaris as it builds its business on other markets in France and internationally.
Ambatovy, a nickel and cobalt mining enterprise located in Madagascar, operates one of the largest lateritic nickel mines in the world. In line with its commitment to reduce the environmental impact of its activity, it has undertaken to build seven earth dams on the site to impound the sediments from the mine and prevent them from being discharged downstream. Artelia is supervising the construction of two of these dams, including the one at Analamay South, which is 106 m long and 33.5 m high. Our teams have also been commissioned to design the gabion flood spillways. In addition, Artelia is responsible for monitoring the performance of all the dams at the Ambatovy mine.

Assignment: works supervision

PUNJAB MINERAL COMPANY
PAKISTAN

Developing the cement industry

The government-run Punjab Mineral Company has the task of developing the use of mining resources in Punjab province. It is particularly interested in expanding the cement industry within the Salt Range mountains and has appointed Artelia to help it assess the potential offered by this region. Collaborating closely with NESPAK (National Engineering Services Pakistan), our teams performed an audit to identify areas suitable for new cement works, taking water resources, raw material sources, environmental impacts and socioeconomic conditions into consideration.

Assignment: technical and environmental audit

INSTALLATION CLOSURE AND REMEDIATION

Artelia has set up a multi-disciplinary team to provide the Total Group with technical assistance and environmental consultancy services in the framework of closing and remediating about a hundred service stations in France.
The French armament procurement agency (DGA) appointed Spretec, an Artelia subsidiary, to improve the performance of the large test section of the Large Hydrodynamic Tunnel at its Val-de-Reuil centre, which specialises in hydromechanical and hydroacoustic studies of ships. Spretec called on its experts in turnkey industrial facilities to design, build and assemble the upstream divergent section and the large test section of this leading-edge testing facility. The continuity and deformation requirements are smaller than a millimetre, for operating ranges between 0.1 and 5 bars absolute.

Upstream divergent section:
- 11 m long, 40 t

Large test section:
- 10 m long, 75 t, made mainly of stainless steel
Over half of the world’s population now lives in cities and the percentage continues to increase, potentially reaching as high as 65% by 2050. Making this growth sustainable is a major challenge for all urban stakeholders and entails rethinking how cities are organised, developed and managed. Bringing these sustainable, smart and resilient cities to life is something that Artelia strives to do every day.

In 2017, we were involved in the transformation of major conurbations such as Greater Paris and Bordeaux Euratlantique, and in creating innovation-packed new districts such as Saint-Jeannet in Nice’s Eco-Vallée. We harnessed our drinking water and wastewater expertise to develop infrastructure capable of meeting the most stringent environmental standards and the huge needs of emerging countries alike. Thanks to our enhanced capability in telecommunications networks we were able to take part in an optical fibre rollout project in the French Haute-Saône region. We also designed and supervised the construction of some major engineering structures.

As a key part of urban development, mobility is an issue of growing importance in our work. Our assignments covered all transport modes and all sustainable transit issues. Partnering with SNCF, we helped to modernise the French railway network and supported the French environment and energy management agency (ADEME) in implementing its “Road of the Future” initiative.

Denis Bertel
General Manager
ARTELIA Ville & Transport
Committed to the regeneration of a capital city region

The ambition of the Greater Paris project is to shape the future of an urban area that is currently home to nearly 7 million inhabitants by significantly extending the public transport network, rolling out sweeping urban renewal programmes and reorganising governance. The central focus is placed on improving quality of life, redressing regional inequalities and building a city that is exemplary in terms of sustainability, innovation and economic vitality.

Artelia is actively accompanying this vast transformation by contributing to many of the operations being implemented. Our Group is assisting the Owner, Société du Grand Paris, with construction of the Grand Paris Express, a driverless metro system featuring 200 km of new, mainly underground lines. We are also designing and supervising the construction of line 18 and extension of line 11, while also contributing to developing tramways, creating multimodal transport interchanges and improving road traffic throughout the Greater Paris area.

We are also working for several municipal councils and public and private developers on a number of restructuring and development schemes within the Greater Paris metropolitan area (La Défense; Halle Freyssinet; mixed development zones of Clichy Batignolles, Docks de Saint-Ouen and Ivry Confluence; Paris-Saclay cluster) and participating in projects to upgrade major water and sewerage treatment facilities (Choisy-Le-Roi drinking water plant, Clichy-la-Garenne pre-treatment plant).

GRAND PARIS EXPRESS METRO

2017 was marked by a number of milestones. The engineers have now been appointed for the entire project area. In the South area the works on line 15 have begun, and tunnel-boring machines are due to enter into action in 2018. In the West area the civil engineering studies have kicked off, and in the East area the preliminary design study has been completed. The works on line 16 will be able to start in 2018 and the studies for line 17 are continuing.

URBAN RENEWAL

France’s new National Urban Renewal Programme (budget: 10 billion euros) is continuing to draw on Artelia’s expertise in the Greater Paris area and throughout the country. Artelia is helping project management teams to oversee partnerships, award contracts and carry out operational and financial monitoring.
In the wake of the destruction caused by hurricane Irma, Artelia performed an expert appraisal for the restoration of the island’s drinking water production and supply infrastructure.

In order to comply with the latest regulations governing discharges into the natural environment, Chartres metropolitan area authority has built a new state-of-the-art effluent treatment plant with a capacity to cater for approximately 160,000 inhabitants. Replacing the plant in Lèves, which is now obsolete, the new plant in Mainvilliers has been designed to blend into its surroundings while being highly simple and efficient to operate. Artelia was involved in overseeing this operation, which is exemplary in terms of its architectural treatment and its technical and environmental performance (solar sludge drying, control of noise and odour nuisance, etc.). The plant was handed over at the end of 2017.

Assignment: design and construction supervision within the design-and-build consortium

GABAL EL ASFAR WASTEWATER TREATMENT PLANT | EGYPT - CAIRO

Extension of a colossal treatment complex

This project is a component of the investment programme being rolled out by the Egyptian government to protect the environment and water resources. Its aim is to increase the primary and secondary treatment capacities of one of the largest wastewater complexes in the world. With its capacity boosted to 500,000 m³/day, the Gabal El Asfar plant will soon be able to treat the effluent produced by an additional 2.5 million inhabitants. Artelia has finalised the construction of this colossal facility, which is set to enter operation in early 2018.

Assignment: preparation of tender documents, supervision of works, monitoring of operation
The goal of France’s Ultrafast Broadband Programme is to roll out, between now and 2025, an optical fibre infrastructure enabling digital services to be delivered to rural parts of the country. In this context of a public investment, Artelia is acting as subcontractor to operator Orange to design and supervise implementation of FTTH (Fibre To The Home) in the département of Haute-Saône. The design phase is nearing completion and the first works are scheduled to start in the second half of 2018.

Assignment: design, supervision of implementation, organisation, planning and coordination

PIRMIL-LES ILES MIXED DEVELOPMENT ZONE | FRANCE – NANTES

An innovative urban design in a flood-prone area

For the last few years, Artelia has been participating in the pre-operational and environmental studies for the Pirmil-Les-Iles urban development project, located in central Nantes. This work was rewarded in 2017 when the Nantes metropolitan area authority, development agency Nantes Métropole Aménagement, architecture firm Obras and Artelia were awarded the grand prix d’aménagement prize for their particularly innovative methodology for building in a flood-prone area. Collaborating closely with urban planner Frédéric Bonnet, Artelia harnessed the synergy between its river and urban hydraulics, environment and ecology teams to generate real added value during the technical feasibility study and the definition of the urban development scheme, in which nature and the river play fundamental roles.

Assignment: studies
Connecting the future districts of Armagnac and Amédée St-Germain

Pont de la Palombe bridge, a key component of the Bordeaux Euratlantique development scheme, will create a connection between the future districts of Armagnac and Amédée St-Germain and is due to be commissioned in 2020. With a length of 200 m and three access structures, it will pass over the wide railway yard on the south side of Saint-Jean station. Its 20 metre-wide deck will be divided between a segregated lane for the future Bus Rapid Transit line, a lane for cyclists and pedestrians, and another for general traffic. To minimise the impacts of the construction works for railway operations, its steel-framework deck is being assembled on-site in two sections. Each one weighs over 1000 tonnes and will be launched in two stages from a platform above the railway lines.

Assignment: design and construction supervision, organisation, planning and coordination, railway safety (SNCF operations safety/infrastructure works accreditation)

We have been performing design and construction supervision assignments for this project since 2013 in a joint venture with Marc Mimram Architecture et Ingénierie. We are also in charge of handling all interfaces with SNCF in order to programme all the operations taking place within the railway right-of-way, from the design stage onwards. On 2 December 2017 we reached a key milestone by successfully launching the first section of steel deck above the railway lines. The second launching operation for this exceptional structure is scheduled for May 2018.

Landry Jouval
Head of the Civil Engineering Structures Unit, South West France Region

Thomas Chavignier
Works Manager
ARTELIA Ville & Transport
Preparing for the Paris 2024 Olympics

The consortium associating Artemis with architecture firms Lavigne & Chéron and Philippon-Kalt has won the competition to design and supervise construction of the bridge that will connect the two sectors of the future Olympic village, lying on either side of the river Seine in the municipalities of Saint-Denis and L’Île-Saint-Denis, in the north Paris suburbs. This elegant steel and concrete structure, 130 m long and 16 m wide, will cross the Seine in a single span, without piers standing in the river. It will be dedicated to public and “soft” modes of transport, with lanes for buses and cycles and generous amounts of space - partially planted with vegetation - for pedestrians. On completion it will reduce travel times between the two localities, which themselves are undergoing a transformation.

To blend the bridge harmoniously into its surroundings, its designers imagined a low-key yet dynamic, streamlined structure, embodying the energy of Olympic athletes. They envision it free of load-bearing structures above the deck, creating an obstacle-free esplanade spanning the river Seine.

HIGH-LUMINOSITY LHC (CERN) | SWITZERLAND - GENEVA

Developing an exceptional underground facility for particle physics research

With a view to enhancing its testing capabilities, the European Organization for Nuclear Research (CERN) has decided to step up the capacity of its Large Hadron Collider (LHC), which is the largest particle accelerator in the world. Its 27-km ring and array of associated equipment, lying a hundred metres underground, make it an exceptional facility... and Arteia has been appointed to oversee its extension. The programme involves designing and constructing new access shafts, rooms and connecting tunnels, associated with various developments above ground (buildings, service galleries, roads and utilities).
Artelia designed and is supervising construction of this 9.5 km-long, mainly segregated line, and the works are nearing completion.

Construction of these two bus rapid transit (BRT) lines, which Artelia is supervising on behalf of the Artois-Gohelle public transport agency (SMTAG), is progressing at great speed. The works on line 1, between Lens and Hénin-Beaumont, are set to be completed on schedule in early summer 2018, with the first buses entering service on 1 January 2019. The works on line 2 are also progressing well and will be completed during 2019. This BRT system, totalling 68 km of lines (totally segregated, shared or non-dedicated) and 110 stations, will eventually serve no fewer than 25 towns.

**Assignment:** complete design and construction supervision

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In the context of Qatar Rail’s project to build the Doha metro, Artelia Italia has been appointed by Italiana Costruzioni to design seven stations on the Red Line and four stations on the Gold Line. On account of the exacting quality standards set by the client and the complex geometrical layout of the sites, specific construction methods must be used and the materials must be selected with great care. All this work is being carried out using BIM (Building Information Modelling), making it easier to roll out collaborative solutions during the works phase.

**Assignment:** coordination of the design studies, BIM management, preparation of working design drawings
Transforming the existing line is a real challenge. We had to define all the works that would have to be carried out on the tracks, stations, structures and operating systems at the design stage in order to adapt them to the track-based system. In 2017 we started diverting the utility networks, awarded the works contracts and took the existing system out of use. The demolition operations then began on 2 January 2018. The infrastructure works will follow, and the new tramway is scheduled to come into service in June 2019.

Christophe Verdin
Project Manager
ARTELIA Ville & Transport

Improving reliability, comfort and accessibility

At the end of 2014, the Caen la Mer urban area authority decided to instigate the transformation and extension of its tramway. The project comprises two components: replacing the initial rubber-tyred system with a more reliable, higher-capacity track-based system, and extending the network in order to serve some key public amenities and newly emerging districts. The operation involves demolishing and rebuilding 15 km of tracks and 34 stations on the existing network and creating a new 2 km line with 4 stations.

Assignment: complete design and construction supervision (lead firm)
PARAY-LE-MONIAL - LOZANNE LINE | FRANCE

Bringing a regional railway line back into service

With newly replaced rails and ballast, upgraded station platforms, several renovated civil engineering structures and reinforced rock walls, the Paray-Le-Monial - Lozanne railway line has been brought back into service as good as new. The trains used daily by large numbers of passengers, many of whom commute to Lyon, will once again be able to run on the line at their rated speed and in optimal safety conditions. This operation is typical of the steps being taken by SNCF Réseau, the French railway system operator, to refurbish and renew its assets.

Assignment: complete design and construction supervision

BRITTANY-LOIRE HSR LINE | FRANCE

Inauguration of a new high-speed line

Thanks to this newly-built, 182 km-long line that was brought into service in July 2017, the cities of Le Mans and Rennes are now connected by a high-speed railway that reduces the journey time between Paris and Rennes to less than two hours. Creating the line meant building numerous civil engineering structures (including viaducts, and an underpass in Rennes) and developing 32 km of connections to existing lines. Artema is proud to have contributed to the success of this project by providing its expertise in the fields of organisation and planning, risk assessment, and work site coordination.

Assignment: technical inspection body, assistance to the Owner, organisation, planning & coordination
HALF-INTERCHANGE ON THE A86 MOTORWAY
FRANCE - CHÂTENAY-MALABRY AND PLESSIS-ROBINSON

Facilitating access to the Greater Paris motorway network.

Hauts-de-Seine departmental council is acting as Owner for the project to develop a half-interchange on the A86 motorway connecting the western half of Châtenay-Malabry and the centre of Plessis-Robinson in the southwest suburbs of Paris. This new structure will provide a more direct access to the Greater Paris motorway network for the towns’ inhabitants while easing local congestion and bolstering economic and urban development in the area (La Boursidière business centre and Novéos industrial area). In the framework of this project, Artelia is overseeing the development of new slip roads and crossings, creation of a roundabout and conversion of the existing bridge to two-way traffic. The transformation work on this bridge was completed in the summer of 2017.

Assignment: design and construction supervision

EUROPORT LORRAINE | FRANCE - MOSELLE

Creating a trimodal industrial area

Lying on the right bank of the Moselle canal between Uckange and Thionville, this future industrial area lies in with the scheme to develop the Thionville-Illange port and industrial facilities. The aim of this project is to create a modern, environmentally-friendly multimodal (waterway, road, rail) hub. To limit impacts on the natural environment, most of this new 200 ha site is being built on reclaimed industrial wasteland. Artelia is managing the entire scheme comprising a waterway terminal with 425 m of quays, a high-capacity railway terminal, new road infrastructure including the creation of two bridges, remediation works, and provision of access roads and main services.

Assignment: complete design and construction supervision

FLOOD PROTECTION FOR THE LINEA AMARILLA IN LIMA (PERU)

On behalf of Vinci, Artelia studied the erosion phenomena related to floods on the river Rimac in Lima and the solutions proposed to protect the structures of the Linea Amarilla highway that span it.
LES COTEAX DU VAR ECO-DISTRICT
FRANCE – SAINT-JEANNET

High quality of life and environmental efficiency

By 2025, 400 homes will have been built on a 10 hectare site in Saint-Jeannet, within the area of the Nice Eco-Vallée. For the public development authority, EPA Eco-vallée Plaine du Var, the challenge lies in building a sustainable district that preserves the landscape, protects the environment and upholds quality of life for its inhabitants while meeting the growing demand for housing in the region. Its innovative design meets exemplary standards in terms of mobility, energy consumption and water management.

Marion Picquet
Director, Nice branch office
ARTELIA Ville & Transport

"Working in partnership with landscape designer Alfred Peter, we have designed a district adhering to high environmental standards. We took advantage of the sloping site to design homes on terraces surrounded by vegetation, each of them with unobstructed views across the valley. They are accessed via funiculars and footpaths, enabling cars to be left on the edges of the site. We have also incorporated a solar PV power plant and district-level energy storage. The hydraulic system has been thought out to facilitate natural water infiltration by means of wildlife corridors, and to protect the areas downstream of the site by limiting discharges during heavy rainfall."
ARTELIA PUBLISHES A WHITE BOOK ON SMART CITIES

Through this collective work spanning various group activity sectors, Artelia shares its references, its expertise and the experience it has gained on the theme of smart cities and sets outs the range of services it proposes for project developers. It can be found at www.artelia.com.

USING DRONES TO INSPECT STRUCTURES

Our Quadric subsidiary, which specialises in civil engineering structures, has joined forces with our ARTEDRONES department to develop new inspection methods based on the use of these remote-controlled aerial vehicles. Equipped with a high-definition camera, drones can be used to draw up an accurate, comprehensive map of a structure and detect any weaknesses. Here, a photogrammetric survey is being performed on the Nantua viaduct.

PROMOTING THE “ROAD OF THE FUTURE” ALONGSIDE ADEME

The French Environment and Energy Management Agency (ADEME) has appointed Artelia to help it implement its call for projects regarding the “Road of the Future”. Artelia is in close contact with ground-breaking innovators since it is tasked with analysing the bids from the technical and economic standpoints, interviewing the bidders and preparing the contracts for the winning projects. The stimulating topics on the agenda will include eco-construction, developing new functions, optimising operations and managing traffic.

VI@BILITY

A COMPREHENSIVE ROAD ASSET MANAGEMENT SOLUTION

Vi@bility, which was developed by Artelia, records and processes a broad spectrum of information relating to roads, such as images gathered by an on-board camera, within a user-friendly database offering an array of functions: damage surveys, needs assessments, maintenance strategies, multi-year works programmes, maintenance and repair work optimisation, and communication between elected officials, technical departments and users.
Water is one of the elements that is most sensitive to climate change. The prospect of worsening water stress, river and coastal flooding and disputes over uses of this vital resource is cause for concern and alarm in many parts of the world. These trends and their consequences are now being addressed by policy makers – public and private alike – through the implementation of appropriate development strategies and programmes.

Artelia has continued to work side by side with them as a world-class expert on these challenges and issues. Our ability to adopt an integrated and holistic approach, encompassing both the scientific and technical aspects and the socioeconomic issues, was again much in demand in 2017.

Indeed, water is at the heart of local life and one of the keys to successful regional development. Which is why we have helped numerous local and national decision makers implement projects to secure their resources and manage them sustainably. Take for example our know-how in desalination processes to help tackle water scarcity, and in action plans to improve local resilience to natural hazards – just two types of expertise that are in great demand. Our teams are also working on major international infrastructure projects to improve maritime and inland navigation, notably in places where water courses provide a backbone for trade and human interaction.

Our R&D efforts are constantly being stepped up in these areas with the development of increasingly effective methodologies, analytical processes and modelling tools. Indeed, the growing recognition of our expertise that we are seeing is largely down to our ability to innovate.

Marc Giroussens
General Manager
ARTELIA Eau & Environnement
Developing irrigation in the Ararat valley

VEDI STORAGE DAM | ARMENIA

This 90 m-high, 500 m-long fill dam will create a water reserve of 30 million m³ and ease water stress in Ararat province. The reservoir is supplied by the rivers Vedi and Khosrov, and will provide the resources required to irrigate some 2600 hectares of land via a gravity system.

The dam is equipped with a flood spillway (200 m³/s), an 11 km supply line and two water intakes for transferring water. Dam construction began in 2017 under Artelia’s supervision, and the works are expected to take four years.

Assignment: design, approval of working designs, works supervision

MELAH AND DOUIMIS DAMS IN TUNISIA

Artelia is involved in the construction of two storage dams in northeast Tunisia that will be used to transfer water to drier areas of the country for irrigation and drinking purposes.

MELAH
Height: 50 m
Crest length: 260 m
Reservoir volume: 41 million m³

DOUIMIS
Height: 50 m
Crest length: 487 m
Reservoir volume: 46 million m³
At the heart of water sharing issues

At 1800 metres long and 145 metres high, Grand Renaissance dam, which spans the Blue Nile and is currently nearing completion, will be the biggest dam in Africa. It will create a 246 km-long artificial lake and constitute a huge reserve of water (67 billion m³). The two countries located downstream, Sudan and Egypt, have expressed deep concerns about the filling of the reservoir, since they are alarmed about the potential impacts of such a large structure on Nile flows and fear that their own water resources will be depleted.

GRAND RENAISSANCE DAM | ETHIOPIA

“Artelia is acting on behalf of BRL Ingénierie, which has been commissioned by the Tripartite National Committee (TNC, composed of members from Ethiopia, Egypt and Sudan) to perform an impact assessment on Grand Renaissance Dam, named the “Water Resources/ Hydropower system simulation model, and Transboundary Environmental and Socioeconomic Impact Assessment”. Artelia is participating in the hydraulic modelling studies of flows along the Nile (evaluating water levels during flooding and low-water periods), water quality (particularly in existing reservoirs such as those at Roseires Dam and Aswan High Dam) and sediment transport (morphodynamic changes to the river bed). We are also involved in assessing the consequences for aquatic biodiversity and the socioeconomic impacts for agriculture and fishing.”

Carole Cornille
Director, Water Resources & Natural Hazards ARTELIA Eau & Environnement
Introducing the best possible practices

Back in 2012 our subsidiary SHER drew up a National Water Resources Master Plan covering nine major river basins in Rwanda, taking various growth and climate change scenarios into consideration. SHER is now working on its implementation in the framework of the IWRM (Integrated Water Resources Management Programme Rwanda). This process is taking place on four pilot basins representing a third of the country’s territory, and will focus on concrete measures to roll out best practices while setting up an institutional framework and management tools, from district level up to government level.

**Assignment: technical assistance**

LES MAMELLES DESALINATION PLANT

SENEGAL - DAKAR

An alternative to using groundwater

Artelia is a member of the consortium appointed to design and construct Les Mamelles reverse osmosis seawater desalination plant, the first of its kind in Senegal. With a production capacity of 50,000 m³/day (extendable to 100,000 m³/day) it will be a strategic water production facility for the city of Dakar, which is concerned with the risks of climate change-aggravated water shortages. The plant will constitute an alternative supply source and enable the city to avoid being overly dependent on groundwater and water transfers.

**Assignment: studies, design and construction supervision**

AL-KHAFJI DESALINATION PLANT (SAUDI ARABIA)

Artelia and its subsidiary Artelia Gulf are involved in the construction of this new plant, which has a capacity of 60,000 m³/day and is based on the reverse osmosis process.
Erosion of the Biscarrosse Coastal Strip | France

Defining a local management strategy

The hydrosedimentary dynamics along the Aquitaine coast of southwest France are highly active and resulting in significant coastline retreat in some places. In Biscarrosse, this is happening at an average rate of 1.5 to 4 m per year, and even much more during violent storms. These changes are now threatening homes along the shoreline, and have convinced the local authorities of the need to draw up a real management strategy. Drawing on an accurate situational assessment (hydrosedimentary phenomena, environmental and socioeconomic issues), Artelia defined several scenarios and action programmes involving protection, reinforcement and/or population displacement in order to assist the authorities with decision-making.

Assignment: hydrodynamic, socioeconomic and legal studies

Vulnerability of the Grenoble Urban Area | France

Managing flood risk

The Grenoble Alpes metropolitan authority has opted for a proactive approach to flood risk, and appointed Artelia to assess vulnerability levels across the area and help it pinpoint the resilience improvement measures to be implemented as a priority. The assessment covers the entire “Grenoble Y”, an area of some 53,000 ha lying between and along the Y-shaped valleys of the rivers Isère and Drac, within which most of the conurbation’s 447,700 inhabitants live. Sediment inflows during torrential rainfall, runoff phenomena and floods on the Drac and Isère, combined with the risk of a breach along the system of protective embankments, expose large swaths of the urban area to a real risk of flooding. The aim of the study is to obtain as complete a picture as possible of vulnerability levels across the area and to help the municipal councils concerned optimise their crisis management procedures and update their disaster contingency plans.

Assignment: flood vulnerability assessment, crisis management
Creating a waterway of this size is a really captivating project. Our assignment consists in studying all the project parameters in order to determine the characteristics of the canal: wind and wave propagation, current patterns, hydrosedimentary dynamics, navigation conditions, traffic forecasts and the many structures to be built. Doing so involves mobilising all our expertise and our complex numerical modelling tools. We are also in charge of drawing up the construction schedule and preparing the tender documents.

Marie Coutos-Thévenot
Engineer and Project Manager
ARTELIA Eau & Environnement
**PANGALANES CANAL | MADAGASCAR**

Rehabilitating a strategic waterway

The Pangalanes canal stretches for nearly 700 km along the east coast of Madagascar and is the longest inland waterway in the country. It plays a key role in opening up access for remote communities and transporting agricultural products, but navigation conditions have deteriorated significantly due to a lack of maintenance. In the framework of a rehabilitation project, Artelia performed a technical and socioeconomic study of operations on the canal section between Toamasina and Vohipeno. Our teams formulated an assessment and preliminary designs of works to be performed in order to restore the canal and improve navigability.

Assignment: feasibility study, preliminary and detailed design studies of priority works, environmental and social impact assessment

**LNG PROJECT | IVORY COAST - ABIJAN**

Creating and safeguarding a floating regasification facility

The CI-GNL (Ivory Coast LNG) consortium led by Total is building a liquefied natural gas (LNG) facility in Vridi, near Abidjan, comprising floating reception, storage and regasification installations, land-side gas management units, and a pipeline connected to the local gas transmission network. With support from its subsidiary in Ivory Coast and its network of partners, Artelia is performing the preliminary maritime studies for the FSRU (Floating Storage and Regasification Unit) as well as the environmental, industrial hazard and social acceptability assessments.

Assignment: port engineering, industrial hazard assessment, environmental and social impact assessment, lagoon traffic study, emergency response plan and social responsibility management plan
CHARACTERISING EXTREME METOCEAN EVENTS

The PhD thesis researched and written at Artilia by Franck Mazas aims to improve the accuracy of the methods used to estimate extreme metocean values by considering them as events (storms, floods, etc.). It hence makes a significant contribution to our business lines. Engineers use this framework on a daily basis to design structures and assess natural hazards, which becomes a complex task when combinations of variables have to be integrated in order to study how the structures respond. This framework can be transposed directly to hydrology and other fields in which Artilia specialises.

DEVELOPING A COST-BENEFIT ANALYSIS TOOL

Hydraulic engineers and economists from Artilia are working together to develop OUACBO, the French acronym for “operational cost-benefit analysis tool for flood prevention projects”. This tool is designed to assist decision-making on the basis of standardised socioeconomic criteria and will also factor in climate change uncertainties in order to make decisions that do not place an excessive burden on future generations. It is hence making a valuable contribution in the field of robust decision making.

HYDRODYNAMICS OF FLOATING STRUCTURES

Artilia has developed a physical scale model of a moored ship at its hydraulics laboratory, to complement its numerical modelling resources. This new model enables our specialists to set about tackling the technical barriers that are inherent to the purely numerical approach and to propose innovative solutions in the framework of project assignments. Specific instrumentation for measuring movements and tensions in mooring lines and fenders was developed and tested.
Energy
A profound and irreversible revolution

Driven by new opportunities and increasingly pressing challenges, the energy world has set its own revolution in motion. The development of renewable energy is a challenge for both the new “pure players” and the more traditional companies. Indeed the use of renewable energy is growing world-wide as a share of total energy usage, even as developers are thinking increasingly in terms of hybrid energy solutions, energy mix and the integration of these intermittent energy sources into interconnected grids.

For Artelia, these issues are part of the company’s routine business. In the ENR surveys of international engineering firms, our group ranks 18th for hydropower and 13th for dam engineering. In 2017, we were involved in several major dam and power plant projects, many of them in Africa and Asia. We participated in the construction of numerous PSPs (pumped storage power plants), a type of hydroelectric power plant that offers storage and load balancing possibilities of inestimable value in these challenging times. And our innovative approach to the dynamic and thermal analysis of dams has been discussed in several papers applauded by the international community.

We are also continuing our efforts to foster the use of ambitious energy mixes. This can be seen with the growth of our operations in the area of solar photovoltaics and our work to deploy large-scale solar power plants in Latin America and Asia. In 2017 we continued to contribute to the growth of marine renewable energy, notably through our engineering work on bottom-fixed and floating wind turbines and the grid connection of offshore wind farms – two areas in which we have innovative solutions to offer.

Alain Deforche
Deputy General Manager
ARTELIA Eau & Environnement
Combining power and flexibility

The pumped-storage power plant (PSP) plant currently being constructed on Attaqa Mountain in Egypt will supply peak power and help to balance the national grid while providing a storage capacity that will be invaluable in the framework of the government’s plans to diversify energy sources in the country. With a capacity of 2400 MW it will be one of the largest power plants of its type in the world.

Artelia is assisting the Hydro Power Plant Executive Authority (HPPEA) with implementation of this huge project, which involves constructing two storage dams, four parallel hydraulic circuits and an underground power house equipped with eight 300 MW reversible Francis turbine units.

Assignment: assistance to the Owner
These two projects are among the biggest hydropower schemes currently being constructed anywhere in the world. To ensure their success, we called on a team of senior experts in civil engineering, electromechanical engineering, geotechnics and the environment. In the context of our contracts to provide assistance to the Owner (Nam Ngum 3) and technique expertise (Nam Ngum 4), we are revising and approving the designs, supervising the works and transferring technical know-how to Électricité du Laos.
SOLAR PHOTOVOLTAIC POWER PLANTS | SOUTH AMERICA

Following on from our assignment in El Salvador, concerning construction of the 100 MW Providencia Solar PV power plant, French renewable energy group Neoen has asked us to assist it with several more projects of the same type. Artelia is hence now involved in the construction of a second plant in El Salvador with a similar capacity, and of two more in Argentina.

Assignment: assistance to the Owner

PHUOC HUU SOLAR FARM | VIETNAM

Harnessing enormous potential for renewal energy

Vietnam’s coastal province of Ninh Thuan has tremendous potential for solar and wind energy, which it intends to harness in order to become a centre of excellence in the field of renewable energy. In Phuoc Huu municipality, Artelia Vietnam is assisting the Nha Trang Bay Investment group with construction of a 65 MW solar photovoltaic power plant. Our teams are in charge of optimising the design, managing the project and supervising construction.

Assignment: design optimisation, construction supervision
AMADER, the Malian Agency for the Development of Domestic Energy and Rural Electrification, has begun using solar power to hybridise the generation of electricity, which is largely dependent on oil and thus highly exposed to global price variations. In the context of the programme defined by SHER, some fifty hybrid (photovoltaic and diesel-fired) power plants are thus going to be built. The project also includes extending distribution networks. AMADER has appointed Artelia to optimise the designs of the facilities and ensure that they are constructed on time, within budget, to a high technical quality and in accordance with environmental standards.

Assignment: assistance to the Owner

ENERGY MIX IN ISLAND REGIONS
FRENCH OVERSEAS TERRITORIES

A goal of 100% renewable energy

Is it possible to achieve energy mixes composed almost entirely of renewables in non-interconnected island regions? This is the challenge Artelia has taken up in partnership with the French Environment and Energy Management Agency (ADEME). The Group is carrying out a study to assess the technical and socioeconomic feasibility and identify the regulatory and environmental implications of developments of this type, drawing on concrete examples from French overseas territories (Guadeloupe, Reunion Island, Martinique, Mayotte, French Guiana) and Corsica. Indeed, the French Energy Transition Act sets these territories a goal of achieving energy self-sufficiency by the year 2030.

Assignment: feasibility studies
LARGE DAMS: ARTELIA IN THE SPOTLIGHT

Artelia won plaudits at the ICOLD Benchmark Workshop 2017, which took place in Stockholm last September. During a workshop discussing the computational aspects of dam dynamic and thermal analysis, our experts submitted the case of Janneh dam in Lebanon to the ten or so design offices, universities and research organisations that had gathered to compare their methods with those used by other international experts. The care with which the work was prepared, the discussions of technical aspects held with participants beforehand, and the analysis and summary of the results, won unanimous applause. Our approaches to analysis were also praised on account of their innovative nature and will no doubt contribute to the state of the art in this field.

OFFSHORE WIND POWER: THE EMERGENCE OF FLOATING WIND FARMS

Artelia is also performing metocean studies to assist with the marine engineering aspects of the Groix offshore floating wind farm being developed by Eolfi and the Naval Group. Floating solutions are a means of dispensing with depth-related restrictions. They also offer the dual advantage of harnessing onshore winds, which are stronger and constant, and of limiting the environmental impacts associated with conventional offshore schemes.

Acting as Owner’s representative, Artelia assisted start-up Ideol and the École Centrale de Nantes with implementation of their prototype floating wind turbine (Floatgen) at the SEM-REV testing site off the coast of Le Croisic (western France). This prototype will be used to assess the validity of a new means of generating offshore wind power. Rather than resting the wind turbine mast on the sea bed - the conventional procedure - the Floatgen concept involves installing the turbine on a floating platform anchored securely to the bed.
Mindful of the transformations that our society is undergoing today, Artelia has drawn up a new corporate social responsibility policy intended to reaffirm and spread the values that have long underpinned its development. The policy, owned by the executive management and rolled out across the company, is built on four pillars which are coupled with targets to be achieved by 2020.

Assert ourselves as an independent, ethical Group; develop our human capital; improve the environmental performance of our clients and our activities; and commit to civic and humanitarian causes: these are the four pillars we have adopted to fully embrace our role as a socially responsible company.

In preparation for the new regulatory requirements introduced in France under the decree of 9 August 2017, in addition to our annual report we have decided to publish a yearly non-financial performance report highlighting the initiatives and concrete actions we have implemented to promote sustainable development. This new proactive CSR policy is a vehicle we intend to use to consolidate our social, societal and environmental commitments in the continuous pursuit of progress.
Strengthening ethics and resilience

One of the ambitions of the Sapin 2 Act, passed at the end of 2016, is to align French laws with the best European and international anti-corruption standards. In this way the government hopes to give an extra boost to the image of French companies and to improve their resilience in this area. Artelia has made this one of its own ambitions in recent years by rolling out a package of measures that the company continued to hone in 2017.

ENHANCING OUR GOVERNANCE TOOLS

A Code of Ethics, an Ethics Committee, a Business Conduct Guide, a risk assessment map and a compliance programme... since 2011 Artelia has rolled out multiple initiatives to provide tools that are commensurate with its ambition: to be a benchmark for ethical conduct.

In 2017, our efforts focused on improving our audit trail and monitoring systems to ensure the effective implementation of our compliance programme. More robust internal audit programmes were set up to assess our practices more regularly and allow our Ethics Committee to better identify the improvements needed. And Ethics Committee members now include someone from outside the Group so as to ensure its independence from the Management Committee.

MOBILISING ALL OUR EMPLOYEES

Our Ethics policy can only be effective if all our employees are duly informed of it and accept to abide by it.

To promote the best possible standards of conduct at all times, our Code of Ethics, Business Conduct Guide and risk assessment map are regularly updated. And to ensure that all our employees are fully aware of the rules and have agreed to abide by them, we make certain that each one receives training and signs an agreement to uphold the Code of Ethics.

With a view to comparing experience and sharing best practice, we have also launched a consultation among managers coordinated by an outside specialist firm.
Developing our human capital

Promoting diversity and gender equality, nurturing creativity in the workplace, developing talent, encouraging constructive social dialogue, sharing added value equitably: these are just some of the key issues addressed in our human resources policy. In 2017, our commitments in these areas were set down in an agreement which sets out a clear framework for professional development within the company.

PROMOTING DIVERSITY IN ALL ITS FORMS WITHIN THE GROUP

Our efforts in the area of gender equality and diversity took various forms. We prepared a new three-year plan of concrete actions to provide support in the workplace for people with disabilities. At the same time various networks and career management workshops were on offer to allow our female employees to continue exploring how to drive performance in our services by leveraging their difference with their male counterparts.

We have also opened up our Young Employees’ Committee to allow the under-30s at all levels of the company to come forward with their suggestions on skills- or process-related topics, some of which are already being implemented.

ADDRESSING CHRONIC ILLNESS IN THE WORKPLACE

The third edition of our Commitment Days focused on chronic illness in the workplace. Diverse perspectives on this topic were shared during a one-day event which saw employees talk about their experiences, hold a round table on the subject and put on a play to raise awareness about the issues involved.
THE ARTELIA WAY: ATTRACTING AND CULTIVATING THE BEST TALENTS

The Artelia Way is the name given to the process that the Group is using to assert itself as a place of personal and professional development that motivates its employees to engage, take initiatives and be creative. Skills management is approached from the perspective of specialist career paths, an initiative under which the company is a partner to its employees in the career development process.

In 2017, we examined how skills needs had changed in each of our sectors with a view to adjusting our training programme accordingly. This led to the introduction of a new BIM (Building Information Modelling) career path, among others. By encouraging career mobility we have enabled nearly 500 employees to change job, switch sector of activity or move to another geographical area, thereby giving a new stimulus to their career within the Group.

PROVIDING GREATER VISIBILITY ON PAY

The in-depth discussions about sharing the added value generated by Artelia culminated in 2017 with the signing of a new three-year agreement on pay. The agreement allows employees to see what their pay prospects are likely to be depending on the career path they have chosen and in doing so reflects the strength of the Group’s commitment and its confidence in the future.

This new initiative is consistent with the Artelia brand as an employee-owned company that offers each employee the possibility of having a stake in the Group’s success.
Continuing our efforts to improve health, safety and security

These issues are a constant preoccupation for Artelia and the company continually strives to do more in this area. Each meeting of the Executive Committee starts with a health and safety round-up to take stock of the situation and take corrective action if necessary. Our two major annual events in this area are also focused on sharing experience and improving practices.

SAFETY DAY

In our annual event devoted to the issue of safety, employees took part in workshops held at Artelia’s 90 offices around the world. It was an opportunity to look at a whole raft of issues, including road safety for cyclists, personal security during business travel abroad, the safety of workers from outside the company and the latest AIPR (authorisation to work near utility networks) developments.

THE SAFETY CONFERENCE

On 29 March 2017 public and private stakeholders from various sectors (construction, oil industry, aviation, urban engineering, etc.) came together to share experience and best practices in the area of safety. It was the third round-table event of its kind organised by Artelia in as many years.

On the programme: how to improve safety in work performed by subcontractors (notably by specifying the rights and obligations of the client, consultant and sub-contractors).

It was a topic that sparked some fruitful discussions, such is the huge variety of situations that can found around the world.
Enhancing our eco-responsible approach

Delivering sustainability for clients in a broad range of sectors is at the heart of what we do at Artelia. The fact that this is a routine part of the company’s business means that we are particularly mindful of our own environmental responsibilities as a company. We accordingly attach great importance to adopting an eco-responsible approach to our activities.

MANAGING OUR FACILITIES AND PURCHASES SUSTAINABLY

We have continued our efforts to reduce water and electricity usage across all of our 50 or so sites in France. We have rolled out a best-practice poster campaign to remind employees that saving water and electricity requires the active participation of everyone.

We have also achieved energy efficiencies by upgrading our IT facilities and replacing our old computers with Energy-Star certified products.

PROMOTING SUSTAINABLE TRAVEL

Employee travel is one of the main culprits when it comes to the company’s environmental impact.

Artelia has therefore introduced the twin objectives of fewer journeys and cleaner travel. The rollout of video conferencing and Skype on a massive scale has led to substantial reductions in business travel, yet these trips nevertheless remain frequent.

We have therefore developed a new travel policy designed to reduce such journeys to a bare minimum, while at the same time encouraging car sharing and the use of cleaner forms of transport.

We have also embarked on a process of upgrading our vehicle fleet by switching to electric and low-emission vehicles.
The Artelia Foundation is a philanthropic organisation founded in 2006 to help the most vulnerable people in society. Through the mechanism of skills-based voluntary work, it is an opportunity for Artelia employees and retirees to get involved in hands-on humanitarian work of a technical or social nature, on assignments conducted both in France and abroad. These assignments are planned in partnership with local associations and NGOs whose work involves projects in many different countries.
MENTORING AND SPONSORSHIP

Our sponsorship programme has expanded considerably in France, where around 40 employees are currently helping young people from disadvantaged backgrounds to overcome challenges at school or in the workplace. The courses we are delivering in partnership with Enfants du Mékong in Cambodia have also been successful.

TECHNICAL ASSIGNMENTS

Highlights of the year included a high-profile project in Nepal - the Foundation’s biggest undertaking to date. Working in partnership with the association Architecture & Développement, 34 Artelia employees helped villagers in earthquake-struck regions Mainapokhari and Sindhupalchowk to assess the damage caused by the quake and then go on to rebuild their devastated homes.

Also of note is the water supply study we carried out in the village of Targa in Morocco as part of a project run by the French NGO Hamap Humanitaire.

THE ARTELIA SPORTS CHALLENGE

In 2017, more than 200 employees from all Artelia countries ran to raise funds for their chosen associations in the context of various official events.

Each year, the Foundation earmarks an overall amount for this initiative. Each employee running in such an event then picks an association which will receive a donation based on the number of kilometres they clock up.
To find out more about Artelia’s CSR policy...

Please refer to our non-financial performance report, available at www.arteliagroup.com