

Consulting



#6

Once upon a time

the activity...

**Co-construct your projects
along the entire value chain
to ensure environmental
performance**



Environmental regulations at the heart of our projects

Anne RIOUX

Head of the Environment Department, Northwest France Division

“ At the beginning of 2000, a key period in the development of the French regulations, which were very focused on the analysis of health risks, the European Water Framework Directive came into force.

The aim was to define the common water policy and the parameters for the good status of the aquatic environment.

Over the years, I have witnessed a deep evolution in perceptions. Of course, it has happened step by step, but if we look at the path we have taken, we can see a shift in the way we understand the environment. From being a burden 25 years ago, the environmental criterion is now understood as a criterion in its own, indispensable in the design of the vast majority of projects.

But it has its limits.

For example, with our expertise in decision support, we quickly recognized the limitations of offsets, which are unsustainable in the long term and unsatisfactory from an environmental point of view. The use of a mitigation strategy in projects is irreversible. The challenge for our business today is to define and apply the right level of technical and economic advice so that avoidance and impact reduction are obvious to everyone.”

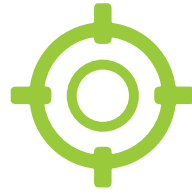


Discover Anne RIOUX's testimony



Addressing major issues

Our commitments



- **Provide services with a net positive socio-environmental impact in line with the United Nations Sustainable Development Goals (SDGs)**

Strengthen our decision-making framework with dedicated tools that take into account the contribution of projects to achieving these goals. Ensure, upstream of projects, the virtuous nature of the missions to be undertaken and their consistency with our commitments to Social and Environmental Responsibility.

- **Taking into account all environmental issues at the project design stage**

To guide decisions in the best possible way, in particular, the implementation of the "avoid, reduce, compensate, support, follow" approach.

- **Reconcile environmental performance, technical and economic requirements**

Use responsible processes: treatment without discharge into the environment, optimization of resource use, etc.

- **Provide innovative solutions to environmental problems**

Assure decision support throughout all stages of the project.



Define an environmental co-construction strategy

● ● ● for high value-added projects

Upstream



Define an environmental strategy for sustainable and responsible projects: AMO, territorial plans, operational management plans, energy-climate (ENR, carbon balance), circular economy.

During the regulatory framework



To provide regulatory expertise and long-standing know-how on all types of files, at each stage of their preparation, drafting, instruction and authorization of the project.

Design process



To ensure that the project runs smoothly by mobilizing the multidisciplinary expertise of our teams in the areas of sanitation, river hydraulics, hydrogeology, urban planning and transportation, biodiversity, etc.

Environmental management



Identify the current state and environmental issues through impact analyses and the co-design of avoidance, reduction and, if necessary, compensation measures. We ensure an overall view, both during the construction and operation phases.

Consolidation of regulatory files



Securing the project to obtain authorizations.

Alerting, advising, quality and rigor throughout the project.

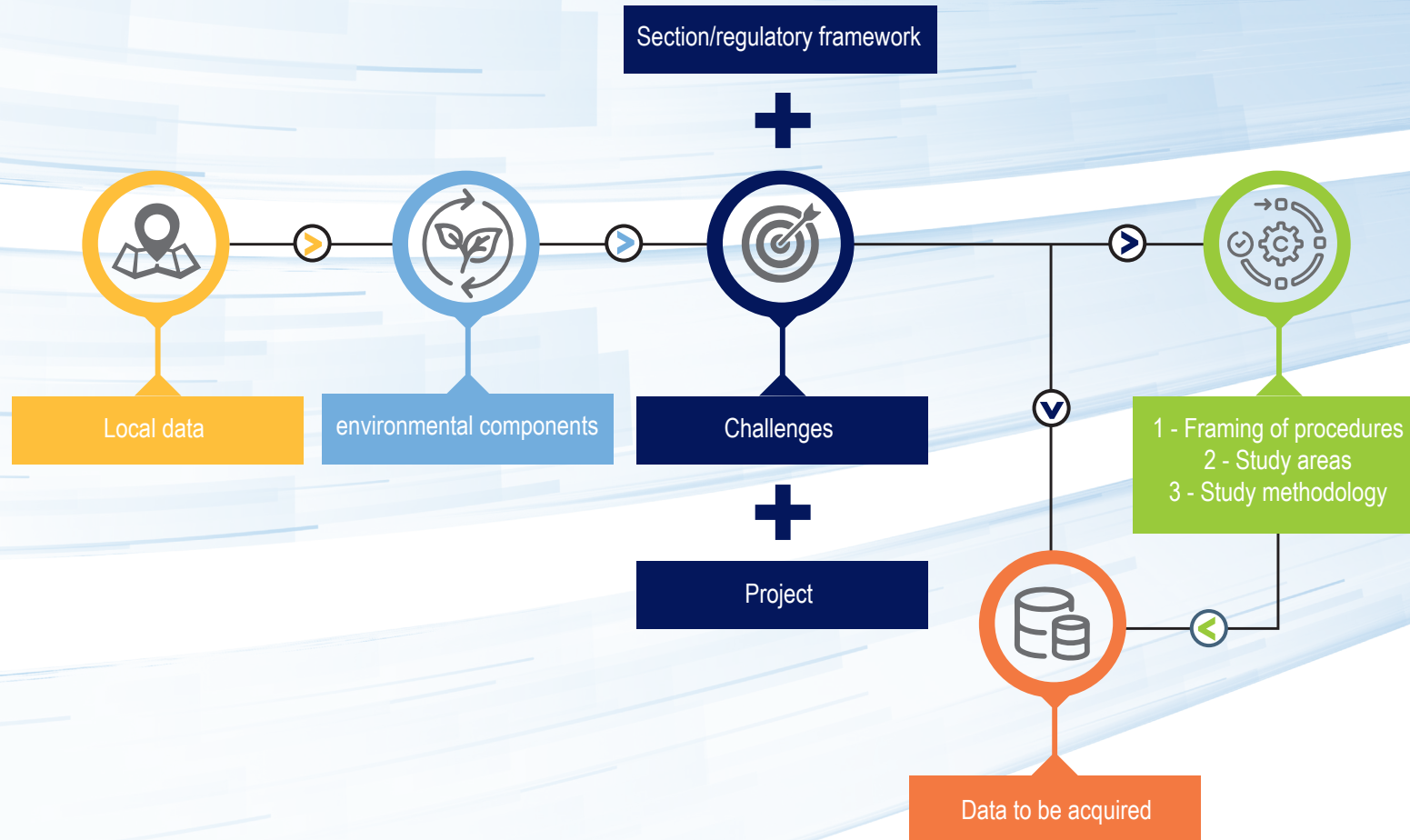
Consolidation of regulatory files



Securing the project to get authorizations.

Alertness, advice, quality and rigor throughout the project.

With our customers across the value chain



Since 2018, the Syndicat Mixte Bil Ta Garbi in Bayonne, in charge of the management of inert waste from the building and public works sector, has been facing major challenges: convincing companies to recover materials and finding regulated storage sites on the territory, which are currently insufficient.

2,500 kg/ha/year of inert waste produced on the territory

No more illegal dumping
80% material recovery

Bayonne -Pyrénées Atlantiques

Reducing and recovering inert waste in the Pyrénées-Atlantiques

In line with the ambitions of the Law on Energy Transition for Green Growth (LTECV), the Syndicate has set up a master plan for the prevention and management of inert waste and initiated the associated territorial coordination.

The SUEZ Consulting teams conducted a study to propose locations for:

- Inert waste recycling and recovery platforms
- Inert waste storage facilities

Missions

The mission was carried out in 3 stages:

- **Elimination of inappropriate map areas** according to technical and environmental evaluation criteria
- **Location of sites on available areas** and located at access times compatible with the location of inert waste production areas
- **Visits and technical pre-qualifications of the sites retained** and prioritized after a multi-criteria analysis for the final selection of eligible sites

During the summer, the quality of the water deteriorates considerably, limiting the possibilities of using this reserve, which then provides only very limited security.

**23 km of 800 mm
diameter pipeline**

21 waterways crossed

**13 500 m² of compensation
for the habitats of terrestrial
species**

**3 600 m² of compensation
for wetlands**

Nancy - Grand Est region

Supplying water to the Greater Nancy

The Greater Nancy Metropolis (MGN) is supplied by surface water and a reserve of 2.5 million m³ in case of deterioration of the raw water quality.

The SUEZ Consulting teams led the project to secure the MGN's water supply. The solution chosen, in view of the investment costs and the analysis of the advantages and disadvantages, is a surface water intake on the Meurthe, with a catchment more than 20 km from the existing treatment plant to avoid industrial discharges, particularly saline.

Missions

The teams carried out the regulatory files of Environmental Authorization under the Public Health Code for the distribution of drinking water:

- **Design a pipeline route** to avoid and minimize environmental impacts
- **Define compensation measures** for impacted species habitats and wetlands
- **Study the impact of the water intake** on future uses of the river in a global warming scenario
- **Validate the possibility of water treatment** by the current plant

Enhancing the alluvial landscape of the Arve with a design using nature-based solutions.

580 m³/s the 100-year flood of the Arve

700 m of widened and restored bed

3 km of dikes reinforced

Arve - Haute-Savoie

Restoring the arve river to prevent flooding

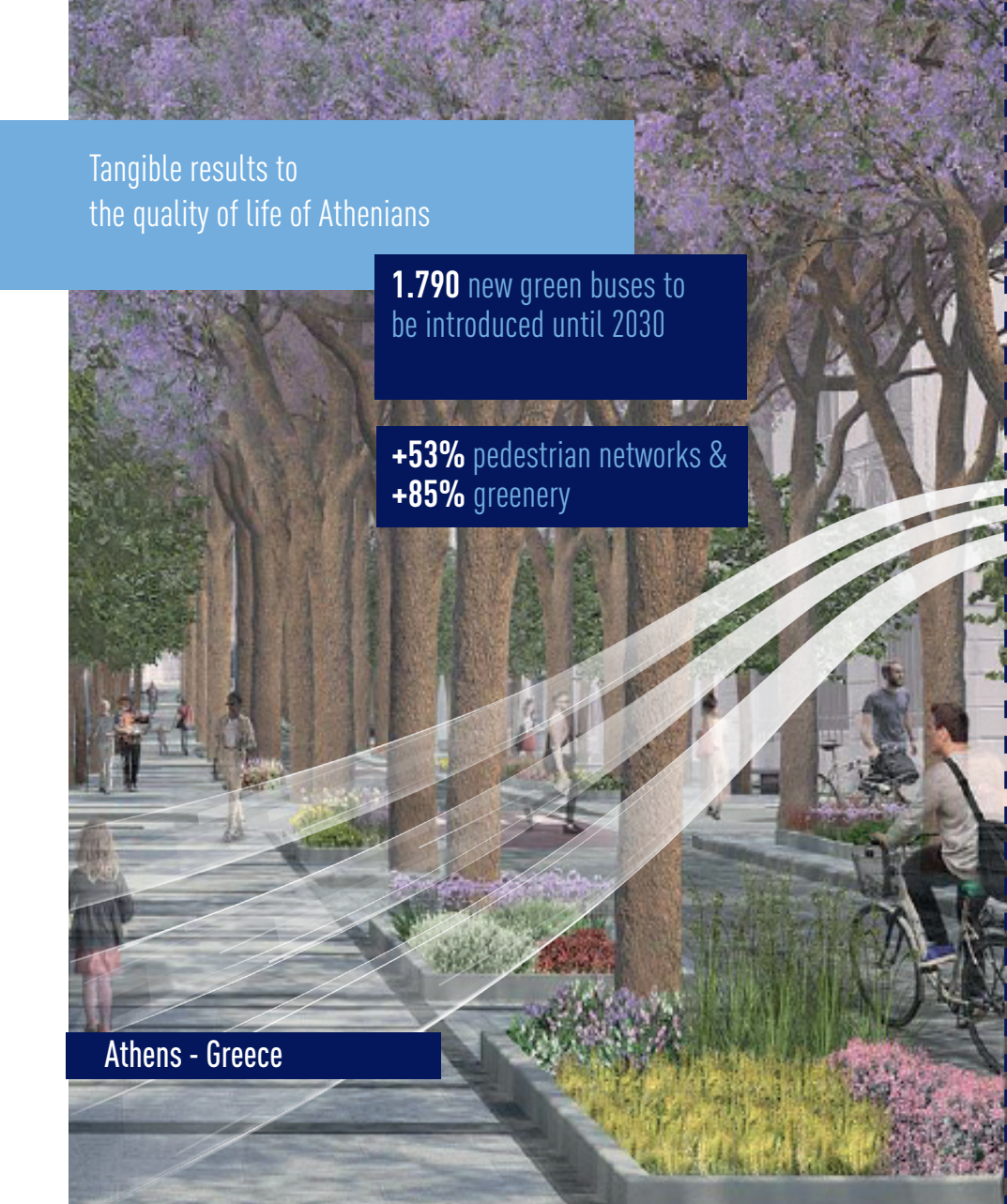
The SUEZ Consulting teams conducted a study to:

- Give freedom to the Arve wherever enlargement is possible
- Reduce the need for civil engineering by using nature
- Enhancing the alluvial landscape of the Arve with a design using nature-based solutions

Missions

A variety of missions aimed at:

- **Protect** Magland from the 100-year flood of the Arve
- **Integrate** environmental and landscape dimensions in the design of the works
- **Go beyond** the initial project by proposing a widening of the arve river which allows to restore it in an ambitious way and to lower the height of the structures
- **Work** on the circular economy of the project by optimizing the cut and fill, and thus limiting the pollution and carbon generated by the construction site



Tangible results to
the quality of life of Athenians

1.790 new green buses to
be introduced until 2030

+53% pedestrian networks &
+85% greenery

Athens - Greece

Strengthening Athens' natural assets and resilience

The Athens 2030 resilience strategy is structured around four pillars: open, green, proactive and dynamic city.

The Natural Capital Financing Facility, a financial instrument set up by the European Investment Bank and the European Commission, will support the "green pillar" of the strategy.

The aim is to develop nature-based solutions for climate change adaptation.

Within a framework agreement, SUEZ Consulting teams have assisted the EIB in redesigning emblematic neighborhoods as part of the "Athens Resilient City and Natural Capital" program to:

- Improve the **city's overall resilience** to climate change
- Improve **quality of life**: traffic calming measures, substantial increase in green spaces and biodiversity
- Create more **user-friendly public spaces**

Missions

Reimagining 4 landmark neighborhoods, by redesigning the public space, including the introduction of traffic calming measures as well as substantial increase of green spaces and biodiversity.

Commissioned in June 2017, the Tours-Bordeaux high-speed line must be assessed

10 themes

824 wildlife crossings

600 hydraulic works

3 800 ha of compensation

Tours/Bordeaux - France

Environmental impact assessment of the Tours-Bordeaux high-speed line

The Tours-Bordeaux high-speed line, which entered service in June 2017, must undergo a social, economic and environmental assessment one year and then five years after its commissioning. These assessments are intended to comply with the French Law on the Orientation of Internal Transport (LOTI) and the circular on the management of major infrastructure projects (BIANCO).

Missions

- **Creation of dedicated summaries** for each theme: materials, surface and groundwater, fauna and flora, development and urban planning, agriculture and forestry, acoustics and vibrations, adaptation to climate change, landscape, cultural and tourist heritage
- **Elaboration** of the BIANCO assessment
- **Preparation of a support** for the animation of the committees of presentation of the assessments by department
- **Analysis of the good realization** of the ERC measures in 5 years
- **Analysis of the effects of the measures** on the environment, with regard to the expected effects



In order to respond to the high number of tourists during the summer period, the commune of Porto-Vecchio is doubling the capacity of its marina.

380 to 803 new sites

Mooring area multiplied
by **6**

Porto Vecchio - Corsica

An environmental follow-up and a Green Building site approach to accompany the extension of the marina of Porto Vecchio

The extension works, integrated in a **complete reorganization of the port**, will take into account **the multiple environmental stakes and the preservation of the environment...**

- Protected species sensitive to water turbidity: Posidonia meadows, Cymodocea meadows
- Marine mammals present in the Pelagos sanctuary, which could be disturbed by the noise
- Water quality and quality of life of local residents, which may be impacted by the work equipment

Missions

The SUEZ Consulting teams were commissioned by the Città di Portivechju to carry out an environmental monitoring and a certified Green Building approach including:

- **Drafting of the Environmental Management Plan**
- **Supporting the stakeholders** and validating the environmental monitoring protocols
- **Regular control audits** to ensure compliance with the regulations

DID YOU KNOW



EVERY **10** YEARS, FRANCE LOSES THE EQUIVALENT OF A DEPARTMENT OF AGRICULTURAL LAND AND NATURAL AREAS

Source: rapport FranceStratégie



2 OUT OF **5** SMALL STREAMS WERE DRY BETWEEN MAY AND SEPTEMBER 2022

Source: www.ofb.gouv.fr



1 MILLION ANIMAL AND PLANT SPECIES AND PLANTS ARE THREATENED OF EXTINCTION OUT OF THE 8 MILLION LIVING ON THE PLANET

Source: IPBES



10 MILLION TONS OF MACRO-WASTE DISCHARGED EACH YEAR INTO THE MARINE ENVIRONMENT OF WHICH **80%** COMES FROM LAND AND **20%** FROM MARITIME ACTIVITIES

Source: www.notre-environnement.gouv.fr



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