



Egis keeps its policy of environmental responsibility.

In keeping with its policy of environmental responsibility, Egis has grouped three of its Toulouse-based offices together under one roof in a new High Environmental Quality (HEQ®) building that meets all the highest quality standards in terms of energy consumption, landscaping and quality of services (proximity to both the ring-road and the metro, solar panels, energy-saving lighting, etc.).

In 2009, Egis invested heavily in preparatory work for the voluntary commitment agreement signed by the engineering profession representative Syntec-Ingénierie and the French Ministry of Ecology, Energy, Sustainable Development and the Sea on February 12<sup>th</sup> 2010. It has anticipated transformations in its tools and methods so it can rapidly apply the commitments it has made within the framework of this agreement.

Sustainable development is also at the heart of the alliance with Iosis. By combining Iosis' cutting edge skills in construction and Egis' in infrastructures and mobility, together the two groups can offer a new range of global engineering services adapted to suit the challenges of sustainable construction.



Some of the major R&D projects we have won or carried out:

- RESILIS, a research project chosen by the ANR (French National Research Agency) as part of the 2009 Sustainable Cities research program, which studies the development of urban resilience thanks to enhanced aids for the governance of urban systems.
- RIMAROCC, development of a method common to 11 Road Administrations concerning analysis and management of the risks related to climate change.
- An assessment of the services rendered by nature and ecosystems.
- Experimental soil treatment using new types of binders with a lower carbon content.
- etc.



Egis - Sustainable Development Department

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## ▶▶ Sustainable Development

### 2009 References



## Contribute to a sustainable future

A Sustainable Development and Performance Department, which reports directly to the group's senior management, was created to accelerate the integration of sustainable development issues in Egis' operational projects.



For Egis, sustainable development is a way of creating value for both its clients and the regions the projects are located in. Egis now has the capacity to offer around 40 high value-added operational sustainable development solutions that cater notably for issues concerning climate change, preserving biodiversity, sustainable mobility and urban transformations.

In 2009, Egis organised the fourth edition of its in-house innovation competition. Some of the most significant innovations included:

- eco-reefs: underwater structures designed to preserve and increase marine biodiversity;
- ENERMER: a decision-aid tool to help identify the best locations for marine renewable energy schemes;
- OPTRA: an optimization and eco-comparison tool designed to minimize disturbance and pollution caused by road works;

2009 also saw significant progress in the development of methods to monitor the sustainable development performance of urban development and infrastructure schemes.

For example, Tandem Empreinte® tracks the « sustainable development footprint » of an operation and serves as a monitoring and decision-aid tool for the project manager so that all the sustainable development targets can be met throughout a project's life cycle.

# Egis provides sustainable development solutions for you everywhere



## Sustainable City

- 1** **Redevelopment of the Thur River Embankment (Haut-Rhin, France).**  
Complete redevelopment of the riverbanks to secure them against flooding and inject new life into the estate through the creation of a leisure area. This project obtained 4 awards: 1st prize at the Trophies for Local Public Enterprises (EPL), Victoire d'Argent at the Victoires du Paysage, the Marianne d'Or prize and the Urban Development Prize awarded by weekly industry magazine 'Le Moniteur des TP'.
- 2** **Making natural infiltration a top priority in the eco-district of « La Clémentière » in Granville, Manche, France.**  
Winner of the French Ministry of the Ecology's National Eco-District Award in the Water category.
- 3** **The « Les Prés la Côte » eco-district in Lure, Haute-Saône, France.**  
The Tendem Empreinte® method was applied to promote the inclusion of sustainable development criteria through discussion of the issues, the targets and the indicators.
- 4** **Soil depollution (polychlorobiphenyl - PCB and asbestos).**  
Site development for the construction of housing on the Beuque industrial wasteland in Roubaix, North France.

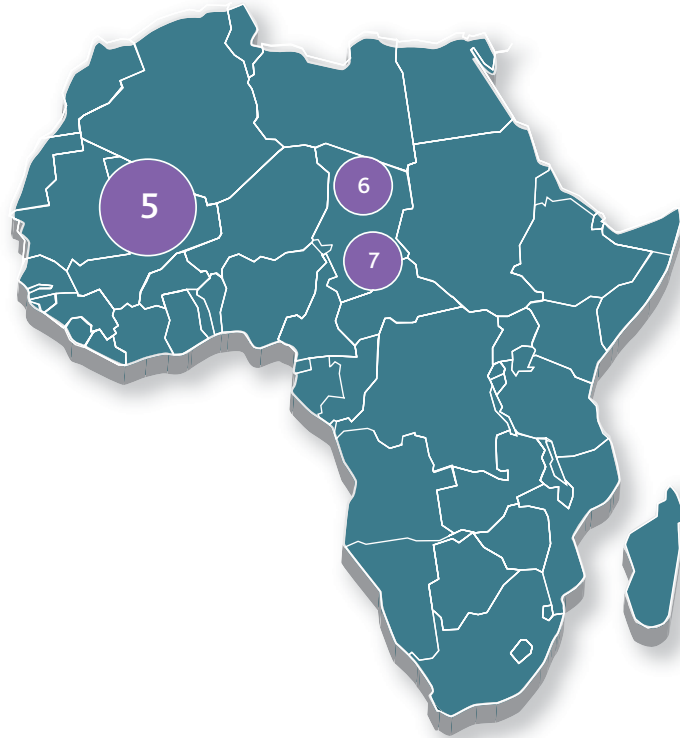


## Sustainable Development Governance

- 5** **Training in sustainable development issues.**  
1,550 managers from developing countries trained by the Institut Forhom.
- 6** **The Strategic Plan for the improvement of energy management and governance in Chad.**
- 7** **Contributing to Chad's national poverty reduction strategy.**  
Helping improve access to basic infrastructures: water, health and education.

## Preserving Biodiversity

- 8** **The A304 motorway extension from Charleville-Mézières to Belgium.**  
Environmental assessment (flora and wild animal inventories), landscape design, monitoring of the project's sustainable development performance.
- 9** **Eco-design of solar farms.**  
Landscape and environmental study, remediation of damaged sites in France: Thenon (Dordogne), and Aguessac (Aveyron).
- 10** **Central Europe Atlantic Road: prolonging the preserved ecological corridors / Trame Verte (green infrastructure).**  
500 km² study area. Using the OPTIFLUX geographic information system (tool for measuring fauna movements).
- 11** **A European first: the installation of underwater eco-habitats that enhance marine biodiversity just off the coast at Grau d'Agde, Hérault, South France.**  
Use of eco-friendly materials (sea-shell concrete), support for the development of coastal fishing grounds.
- 12** **Environmental component of the Schéma Départemental de la Mer et du Littoral du Var (Var department's sea and coast plan, France).**  
Decision-aid and mapping tool placed at the disposal of the project.



## Transport and Mobility

- 13** **High Quality Bus Service in La Rochelle, France.**  
Defining itineraries, working principles, insertion in urban network. Road traffic impact assessment.
- 14** **Montpellier LRT, France.**  
600m extension of LRT line to create a terminal inside the shopping centre.
- 15** **The metro goes under the Rhône River in Lyon, France.**  
Cutting traffic on the roads by 1,500 vehicles/day, and saving 1.23 million tons of CO<sub>2</sub> a year.
- 16** **Railway lines upgraded in Provence-Alpes-Côte d'Azur, France.**  
Modal shift, reducing traffic congestion at city entry points, intermodal connections with the other urban transport modes.
- 17** **A "green path" on the Aquitaine coastline, France.**  
Promoting the use of so-called "voies vertes" or green paths for non-motorized vehicles at both a local and European level.
- 18** **The free-flow tolling system on the Golden Ears Bridge in Vancouver, Canada.**  
Reduces traffic congestion, fuel consumption, greenhouse gas emissions, noise and footprints.
- 19** **« Moselle intelligente », France.**  
Equipment and information systems to optimise operations on large scale water-ways (traffic, hydraulics, civil engineering structures) on the Moselle River, France.
- 20** **Dynamic management on the Saint-Nazaire Bridge, France.**  
Optimising traffic circulation.
- 21** **Dedicated bus, cycle and pedestrian lanes.**  
Multimodal link in South-East Toulouse.
- 22** **« Low profile » road works in heavily congested areas.**  
Reducing disturbance to users with Optra, the exclusive traffic forecast and impact software.

## Adapting to Climate Change

- 23** **Managing exceptional weather-related events.**  
A large-scale anti-flooding device on the Bassée area along the Seine River, France.
- 24** **Adapting to climate change and preparing for natural catastrophes in North African coastal cities (Alexandria, Tunis, Rabat, Casablanca).**  
Vulnerability assessment up to 2030 and action plan.
- 25** **An innovative pylon strengthening technique through soil treatment to cater for extreme weather-related events.**  
Patented solution.
- 26** **Greenhouse gas (GHG) emission assessment and reduction device.**  
GHGs generated by road construction and upgrading activities in East Asia.
- 27** **Solar sludge drying facility with heated floor, reduced energy consumption and greenhouse gas (GHG) emissions.**  
Marine wastewater treatment plant, Martinique. Patent pending.
- 28** **Carbon assessment for transport scheme variants concerning itineraries and regions.**  
Lyon-Turin high speed railway line, Poitiers-Limoges high speed railway line, Castres-Toulouse motorway, etc.
- 29** **Reducing the impact of air traffic on the environment.**  
MINT Project (Minimum CO<sub>2</sub> in Terminal Manoeuvring Area) / First test flight applying green approach to landing in Stockholm: optimising of approach routes, continuous descent, etc.
- 30** **Installation of windmills on the Ashegoga wind farm in Ethiopia.**