



PROJECTS APPROVED

110

TOTAL BUDGET (IN €M)

200

Advancity

SUSTAINABLE CITIES AND URBAN ECOTECHNOLOGIES

MAIN INTERESTS

- Town planning, development and management: urban planning, land distribution, technologies for the city, civil engineering, maintenance, environment, etc.
- Housing and construction: architecture, functionalities, comfort, quality of living, energy control and the environment, etc.
- Mobility for persons, goods and information.
- Water management, waste management, air treatment, energy efficiency in buildings and urban health.

107 MEMBERS

11 major companies: Bouygues Construction, EDF, Eiffage Institut Ville en Mouvement (PSA Peugeot Citroën), RATP, SNCF, Vinci, Véolia, etc.

including 4 foreign companies: Euro Disney Associés (USA), Arcelor (Belgium), etc.

48 SMEs: Aereco, Moviken, Oxand, Fehr Technologies, Yprema, Nomadic Solutions, etc.

23 centers of excellence: Ecole Nationale Supérieure des Mines de Paris, Ecole Nationale des Ponts et Chaussées, Ecole Centrale de Paris, HEC, Institut Géographique National, Ecole Supérieure de Génie Urbain, etc.

26 local authorities: Ile-de-France Regional Council, Paris City Hall, ACTEP, Paris Ile-de France RDA, Arene, Seine-et-Marne Regional Council, Seine-et-Marne Développement, Val-de-Marne RDA, Seine-Saint-Denis Regional Council, Seine-Saint-Denis Avenir, Yvelines Regional Council, Chambers of Commerce and Industry of Paris and of Seine-et-Marne, San Val Maubuée, San Sénart, etc.

R&D WITHIN THE CLUSTER

1,500 RESEARCHERS

60 PROJECTS FINANCED

€46 M STATE AID

€11.2 M FROM THE IF*

€24 M FROM THE NRA*

NUMBER OF PATENTS FILED IN 2007 BY APPROVED PROJECTS: ND

*IF: Interministerial Fund

*NRA: National Research Agency

EXAMPLE PROJECT

RS4E

Budget: €3 million over 3 years

Participants: Bouygues, Vinci, CSTB, CNRS (French National Center for Scientific Research), university of Versailles-Saint-Quentin en Yvelines, Fondaterra, Seine-et-Marne Regional Council.

Geothermal storage to optimize energy consumption in buildings. Contribute to the renewal of existing buildings by providing the technical and organizational resources needed to renovate school buildings (200 million m² of real estate) so that they can markedly improve their energy efficiency.

CLUSTER STRENGTHS

→ **Number of employees at cluster members: 24,000**

→ **Great importance to the Ile-de-France region of the advances made by the cluster's work:**

- 11.3 million residents and 40 million individual journeys each day
- The percentage of eco-activities in the region: 50,000 jobs, accounting for 50% of the sector's turnover in France

→ **Ecotechnologies in the Ile de France region**

- 112,000 jobs
- €17 billion in turnover (47% of ecotechnology turnover in France and 2.4% of turnover in Europe)
- Over 300 research laboratories specializing in the environment
- 170 training programs focusing on the environment

INTERNATIONAL OUTLOOK

Medium

→ **Cooperation with foreign clusters**

- None

→ **Participation in European programs**

- Urban Track – 6th EU framework program (FP6). This project aims to develop a family of innovative products, methods and standards, in order to achieve greater harmonization as well as reliable, environmentally friendly low-cost solutions.

- European Construction Technology Platform (ECTP): has defined a strategic research agenda used by the European Commission to devise its 7th Framework Program (FP7) and annual programming. The ECTP also secured the creation of the Joint Technology initiative “Energy-efficient building” (E2B) in order to introduce and manage, as a public-private partnership, a €1 billion energy renovation and sustainable development innovation and experimentation program in urban areas at community level.

→ **Involvement in international projects**

- Participation in the 2007 “Intelligent transport systems” Convention in China
- “Energy savings in buildings” conference, November 2008, China
- Promotion of “Sustainable France” in November 2008, with the Franco-Swedish Chamber of Commerce in Stockholm

PROJECTS

PROJECT	PARTICIPANTS	DESCRIPTION
BIOPTIME (2006)	Véolia Environnement	Research program on preparing waste to optimize biodegradation through the methanogenesis of household waste.
INDIGAU (2006)	Insavalor	Performance indicator on managing urban drainage network infrastructures.
COIMBA (2007)	Nobatek	Determining the environmental impact of buildings: working towards an operational, consensus assessment tool.
ATESTOC (2007)	Eseta	Aquifer Thermal Energy Storage for the design of an eco-neighborhood: experimental study at the Château-Thierry site.
SAS-VH2 (2007)	SNCF	Train-access walkways for the disabled.
ASUR (2008)	University of Cergy-Pointoise	Data visualization maps showing urban sound environments: map acceptability.
HYDEOR (2008)	Nanosense	Domestic hydrogen production using renewable energy sources.
RESILIS (2008)	Egis	Resilience and governance of urban technical systems.
RUFEX (2009)	Solétanche-Bachy	Renovating railway foundations is one of the key aspects in rail maintenance. Yet, when current reinforcement techniques (installation of overhead power lines, rails and ballasts) are used, traffic cannot be maintained. Furthermore, they are costly and resource-intensive. The Rufex project aims to develop an innovative platform reinforcement concept, as well as the tools needed to carry out the process at the same time, without disrupting traffic.
URBAN D (2009)	Renk+Partners	Urban Dynamics.

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