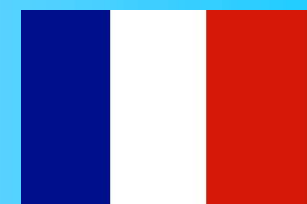




# LIFETIME ENGINEERING

## of Buildings and Civil Infrastructures



**Objectives of NATIONAL DISSEMINATION GROUPS in Thematic Network Lifetime:**  
National information, demonstration, education and training of lifetime engineering

### Demonstration project of lifetime engineering in : FRANCE



#### The project

A new Tower for the "Société Générale" Bank

- Land: 2.300 m<sup>2</sup>
- Office: 55.000 m<sup>2</sup>
- 184 m high
- 38 floors in superstructure of 1700 m<sup>2</sup> each
- 7 floors in infrastructure (3400 m<sup>2</sup> each) with 20.000 m<sup>2</sup> de parking

#### Stakeholders

- **Building Owner: GALYBET** (Subsidiary SG)
- **Building Owner assistant:**
  - **ORCADIM** (Subsidiary SG + JACOBS FRANCE)
  - **SOGEPROM** (Subsidiary SG ) (H.Q.E.)
- **Property developer :NEXITY**
- **Project superintendent (Design):**
  - **ATELIER CHRISTIAN DE PORTZAMPARC** (Architect)
  - **COTEBA IMMOBILIER SERVICES** (Engineers)
- **Project superintendent (construction):**
  - **COTEBA**
- **Developer:**
  - **EPASA**  
(Public establishment of Installation SEINE ARCHE)

#### Planning

- **Beginning of the studies: July 2000**
- **Building permit: 28 November 2003**
- **End of building site: April 2008**

#### Lifetime engineering fields covered by the project

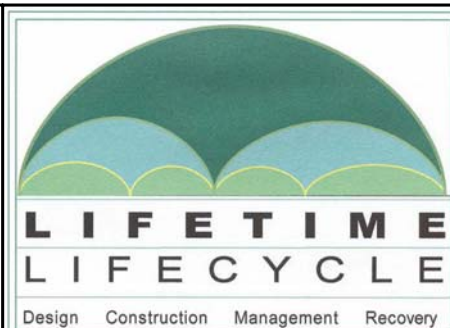
A step of High Environmental Quality (démarche H.Q.E.® (more information on <http://www.assohqe.org> ) was implemented by the "Société Générale", in accordance with the political engagement subscribed by the Directorate-General of the bank as regards sustainable development.

The project has particularly focus on the following démarche HQE® criteria:

- |                             |  |
|-----------------------------|--|
| ➤ Hygrothermic comfort      | ➤ Integrated choice of the products, systems and processes of construction |
| ➤ Indoor air Quality        | ➤ Quality of water   |
| ➤ Energy management         | ➤ Harmonious Relation of the buildings with their environment              |
| ➤ Visual Comfort            | ➤ Olfactory Comfort  |
| ➤ Quality of spaces         | ➤ Management of waste  |
| ➤ Acoustic comfort          | ➤ Building site with weak harmful effects                                  |
| ➤ Management of maintenance | ➤ Management of water  |

#### Principal contractors of Thematic Network LIFETIME:

- VTT Technical Research Centre of Finland, FI  
Coordinator Prof. Dr. Asko Sarja, asko.sarja@vtt.fi
- Taylor Woodrow Construction Ltd, UK
- CSTB Centre Scientifique et Technique du Bâtiment, FR
- Imperial College of Science Technology and Medicine, UK
- Universität Karlsruhe (TH), TMB/Facility Management, DE



#### Thematic Network LIFETIME in figures:

- Working period: 1/6/2002 - 31/5/2005
- Participation: 96 partners from 28 countries
- Plenary workshops: 2002 Norway, 2003 Finland and 2005 France
- 25 National Dissemination Groups
- Funding from 5th Framework Programme:  
Competitive And Sustainable Growth (GROWTH) Programme