

# O Grupo Saint-Gobain e a Inovação

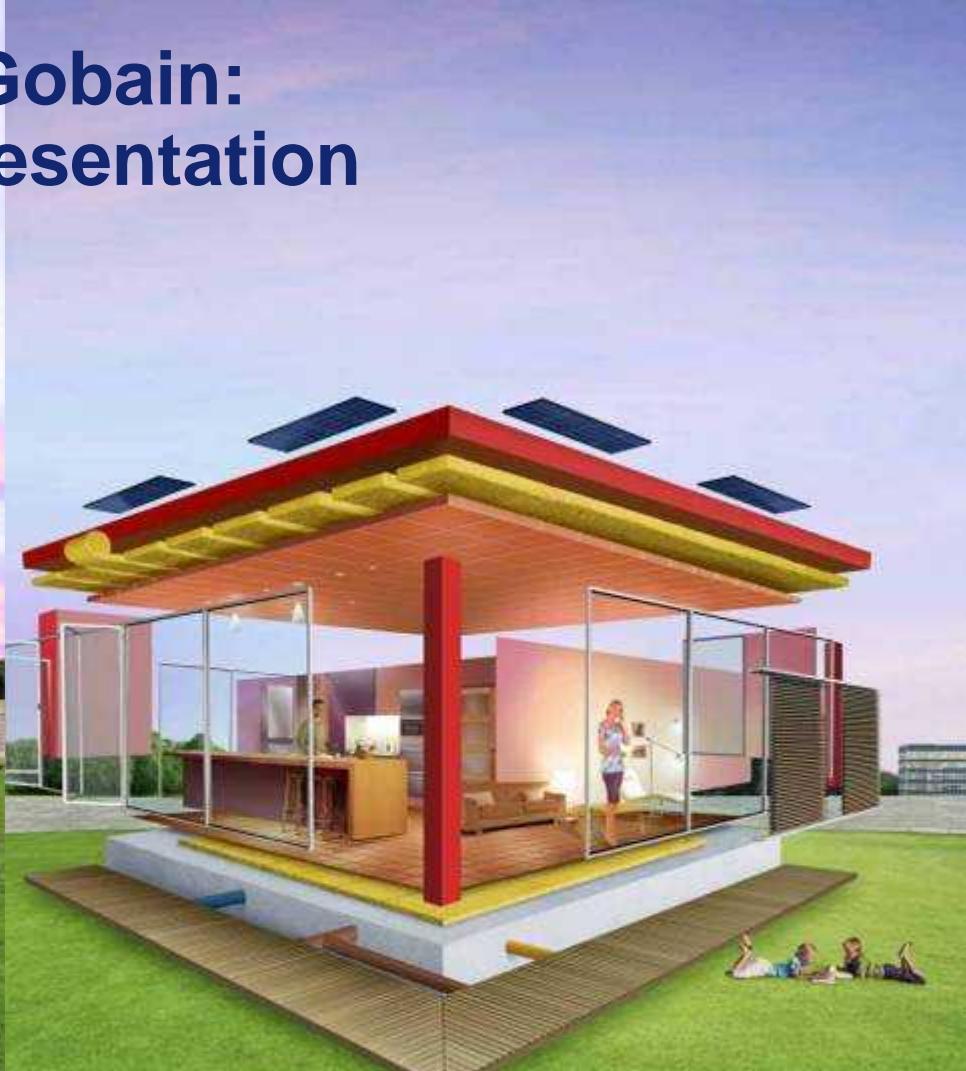
Paul Houang abril / 2010



# Apresentação Pessoal

- Brasileiro,
- Formado em Eng. Civil pela Poli – USP em 1977
- Doutorado em Eng. Química – Compiègne – França em 1985
- No Grupo Saint Gobain desde 1986 – sempre atuando em Inovação:
  - 2 anos na Saint Gobain Recherche – França – principal lab de P&D do Grupo na área de vidros
  - 10 anos na Divisão de Vidros Planos – Sekurit
  - 6 anos na Brasilit – Diretor de P&D Substituição do Amianto
  - 3 anos – Diretor de lab de P&D na França – Lab Central de P&D de Materiais de Construção
  - 4 anos – Diretor Técnico da Quartzolit

# Saint-Gobain: a short presentation

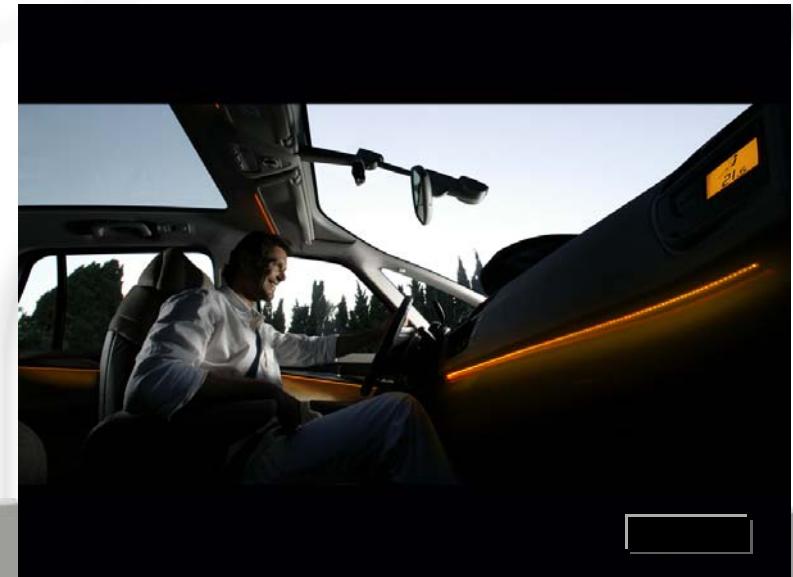


# As Atividades da SG no Brasil

## Pólo Vidro Plano



SAINT-GOBAIN  
SEKURIT



# As Atividades da SG no Brasil

## Pólo Embalagem



# As Atividades da SG no Brasil

## Pólo Distribuição de Materiais de Construção



# As Atividades da SG no Brasil

## Materiais de Alta Performance

NORTON

CARBORUNDUM

WINTER



# As Atividades da SG no Brasil

## Pólo Produtos para Construção



# Saint-Gobain: an ancient company

1665: Versailles: Louis XIV



# Saint-Gobain, one of the world's hundred leading industrial corporations

- Operations in **59 countries** worldwide,
- 208,000 employees**
- European or world **leader** in each of its competencies.



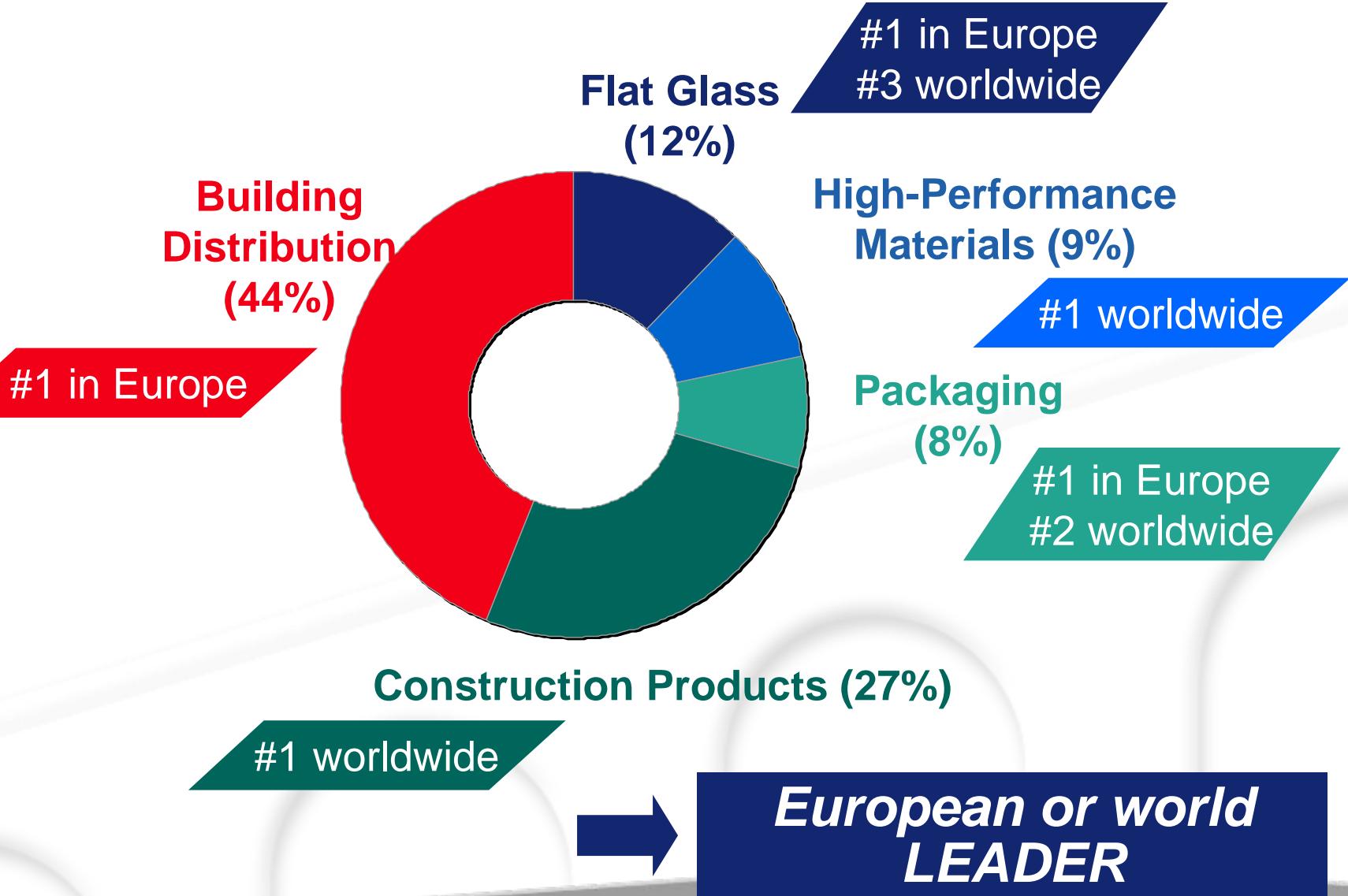
2008	€bn
Sales	43.8
Net income	1.4
Cash flow	3.5
Capital expenditure	2.2

# Industrial presence worldwide



# Saint-Gobain Sectors

*Breakdown of Sales per Sector in 2008*



# Flat Glass

Base product



Building



Many products and technologies

Automotive



Specialties



## High Performance Materials

Grains & Powders

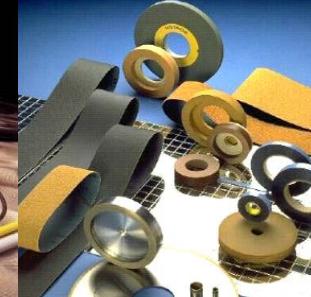
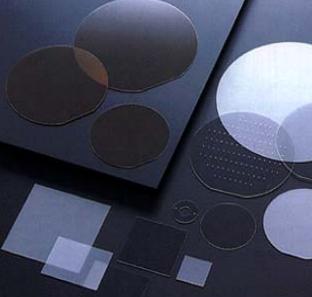
Ceramics

Crystals

Plastics

Abrasives

Glass textiles



## Building Products

Insulation



Pipes



Mortars



Exter. products



Gypsum



# Saint-Gobain's mission statement

« worldwide leadership in the **construction** market, offering **innovative solutions** to meet the challenges of our time: **growth, energy, environment.** »

*Energy-saving, innovation, environment-protecting.*

The future is made of Saint-Gobain.

Saint-Gobain designs, produces and distributes construction materials for the homes of the future. Houses with intelligent insulation. We're constantly improving our innovations and developing new ones to create more comfortable, economical and sustainable living worldwide. As a leader in all

Houses with windows that clean themselves. Houses with glass that generates solar energy.

our sectors, we're answering the urgent challenges of energy-saving and environment protection. Whatever the new demands for housing, the future is made of Saint-Gobain.

Illustration only.

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[www.saint-gobain.com](http://www.saint-gobain.com)

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Labels pointing to house components:

- Saint-Gobain's ceramic tiles\*
- Saint-Gobain's eco-friendly piping
- Saint-Gobain's ceiling panels
- Saint-Gobain's low-emissivity glass
- Saint-Gobain's self-cleaning glass
- Saint-Gobain's decking
- Saint-Gobain's wood protection
- Saint-Gobain's plasterboard
- Saint-Gobain's energy-saving insulation
- Saint-Gobain's light-emitting diodes
- Saint-Gobain's sanitation system
- Saint-Gobain's fuel cell
- Saint-Gobain's kitchen and bathroom\*
- Saint-Gobain's solar reflecting glass
- Saint-Gobain's solar panels
- Saint-Gobain's wall facing mortar

# R&D in Saint-Gobain

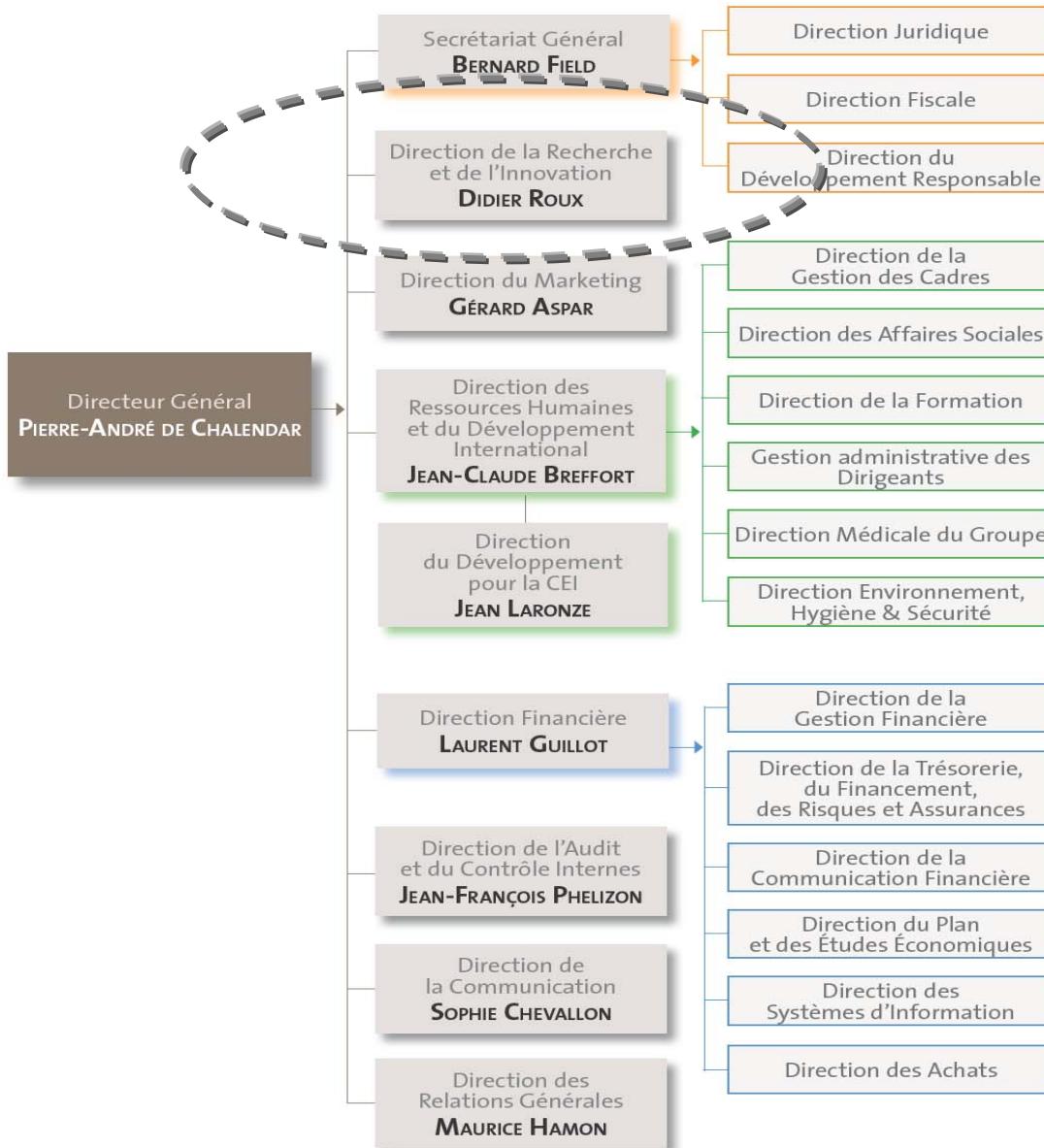


Joseph Louis GAY – LUSSAC – 1778 - 1850

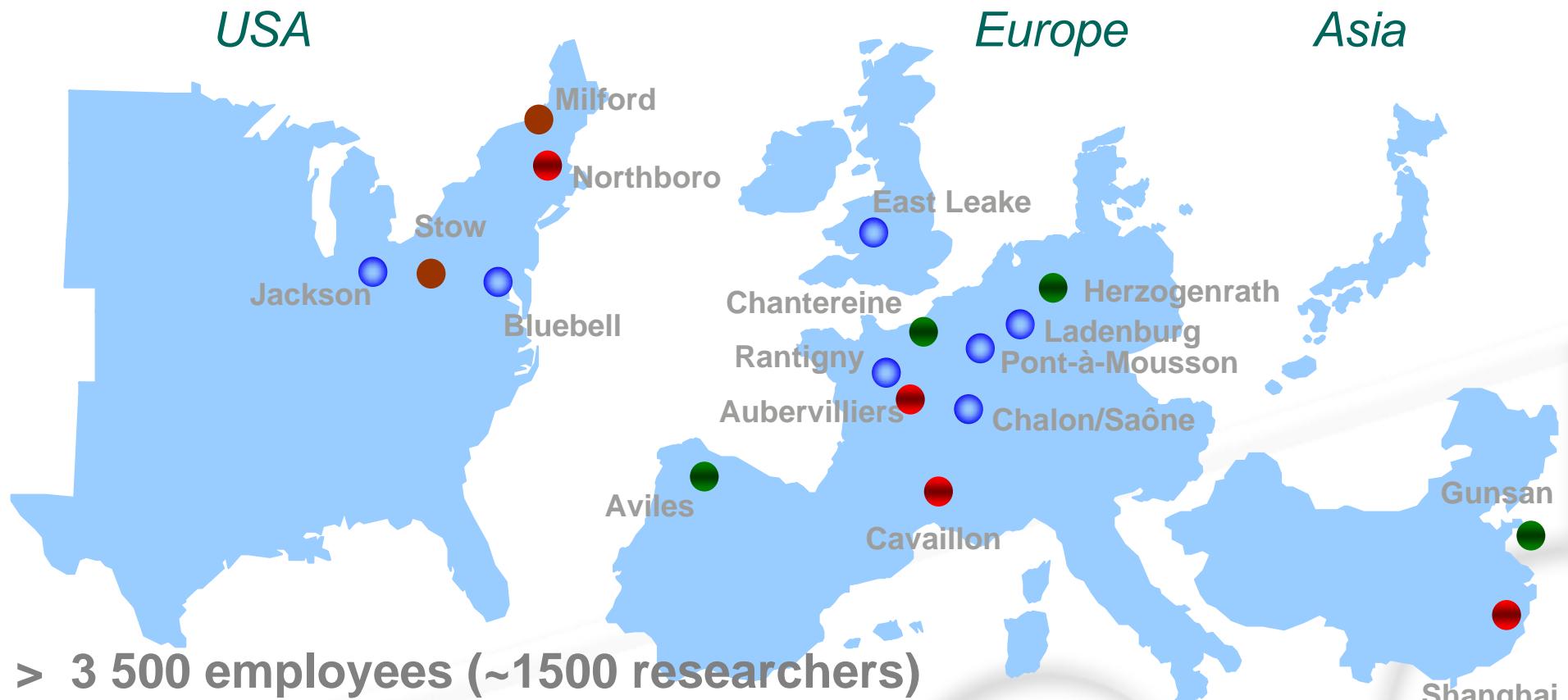
1844 – 1850 President of Saint – Gobain  
Business + Science

# ORGANIGRAMME DE LA COMPAGNIE DE SAINT-GOBAIN

Septembre - octobre 2009



# R&D : figures



- 3 500 employees (~1500 researchers)
- 390 millions euros in 2007 (growing)
- 15 research centers + 101 development teams
- More than 300 new patents filed each year

# Development teams in Brazil



NORTON



# Strategic Programs

each SP = portfolio of (sub)programs, R&D projects, actions

## ■ Defined by the market that is targeted

- In line with the strategy of the group
- Either of (or both)
  - ▶ High cost/risk
  - ▶ Across existing Businesses

## ■ A specific label for:

- Scrutiny by the Comité de Direction Générale
- Special emphasis in communication
  - ▶ Externally
  - ▶ Internally

# List of Strategic Programs as of Sep 2009

- 1. Solar**
- 2. Lighting**
- 3. Fuel cell: SOFC**
- 4. Active glazings**
- 5. High Performance Insulation Systems**
- 6. Materials from Green Chemistry**
- 7. External Insulation Systems**
- 8. Energy efficient and environment friendly processes**

# **Saint Gobain is increasing its opening toward outside world**

- 1. Collaboration with suppliers and customers**
  - Together Marketing and R&D
- 2. A Market and technological team devoted to emerging markets**
  - TMT Techno Marketing Team
- 3. A Special organization to deal with start-ups**
  - NOVA External Venturing
- 4. An international Academic Network**
  - SUN : Saint-Gobain University Network

## 2- A Techno-Marketing Team

20 dedicated persons: Europe, US, Asia, mix of marketing and engineers

- Identify new applications for existing technologies
- Assess emerging markets and technologies
- Propose new approaches for new/existing markets



### 3- An External Venturing initiative



Started 22 months ago by establishment of a **dedicated team** in Europe, US and Asia

Combine ideas stemming from **Innovative start ups** with the **industrial strength and assets** of Saint-Gobain

**Variety of working methods:** licenses, partnerships, equity investments and joint ventures

**~400 companies reviewed, 4 partnerships agreed and 20 under active due diligences or discussion**

**Focused area:** Construction Products, Energy and Environment

Input: from Venture Capital funds + internal (marketing, R&D)

Output: transfer to Businesses (sponsors identified early on)

Can lead to acquisitions providing access to new markets, to codevelopment partnerships, or simply stimulates our R&D !

# Start-ups currently under study

- At last meeting we had 25 active projects, and since

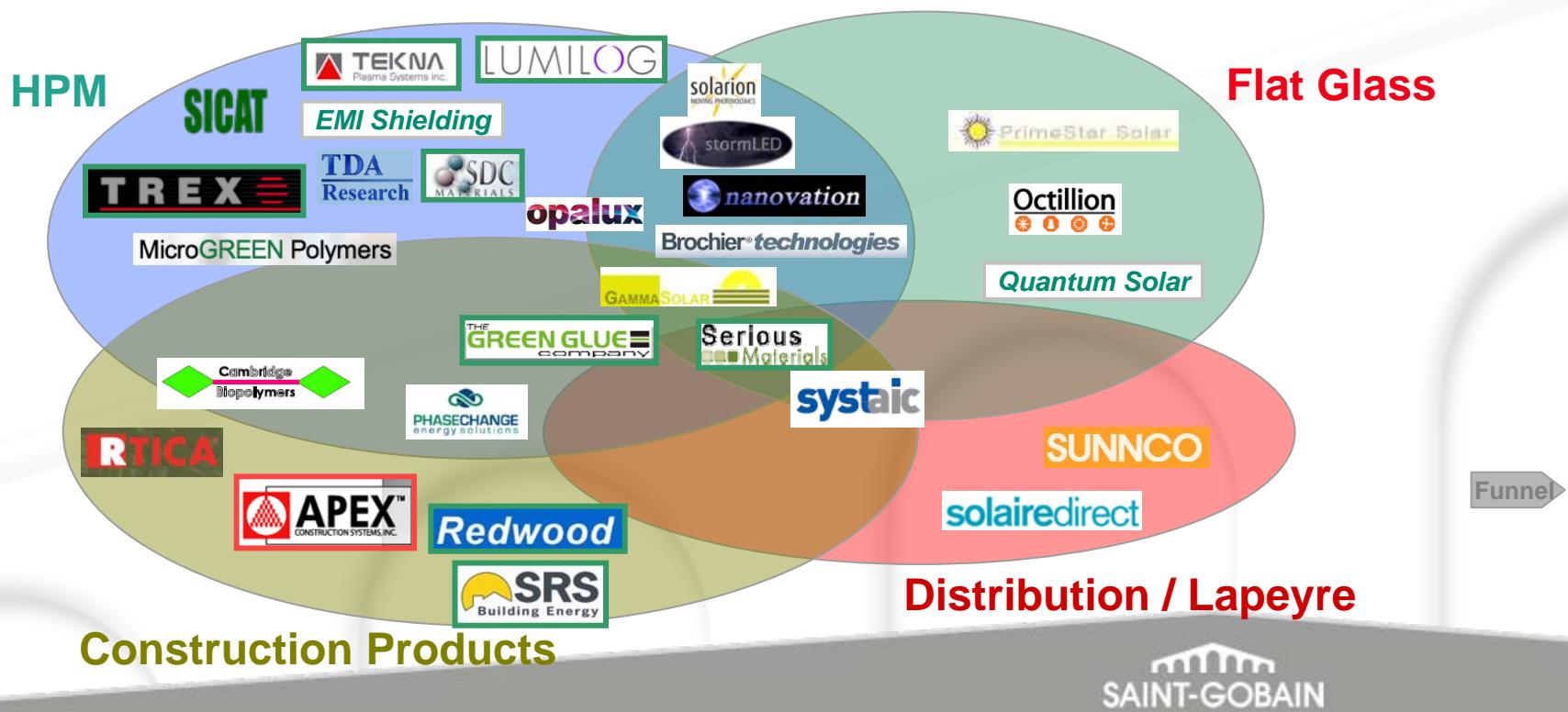
► 8 new active start-ups :



► 4 stopped projects :



## Breakdown of the 29 Active start-ups today ( "HOT", "BU Lead", "Cold" )



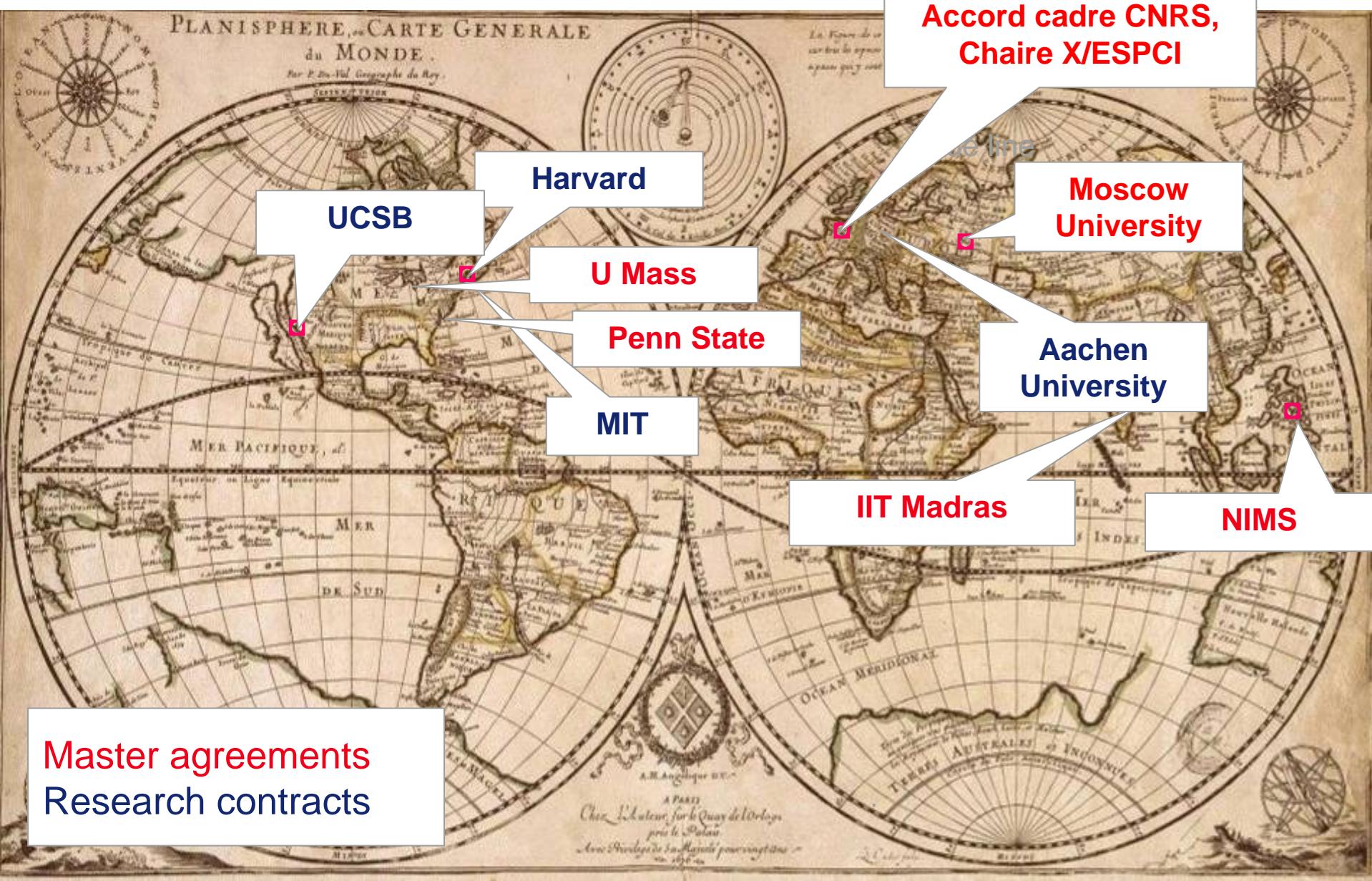
## 4- An academic network

Saint-Gobain University Network:  
**SUN**



- **To develop long-term interactions with the best research teams in our domains**
- **To keep an eye on technological developments**
- **To hire of students from top universities in countries of strategic importance for Saint-Gobain by making our technologies better known**

# SUN contracts end of 2009





- Projetos de Desenvolvimento de Produtos e de Métodos de Análise – Iniciação Científica, Mestrado, Doutorado
- Avaliação e Análise de Materiais,
- Treinamentos Específicos
- Transferência de Tecnologia

### USP - Poli – Depto de Eng Civil

- Depto Eng de Minas
- Instituto de Química
- FAU

### UFSCAR – DEMA

- Depto de Química
- Depto Eng Química e Materiais

### UNICAMP – Polímeros

### USP – São Carlos – Eng Produção

### UFRJ – Eng. Mecânica

### UFMG – Lab de Eng de Estruturas

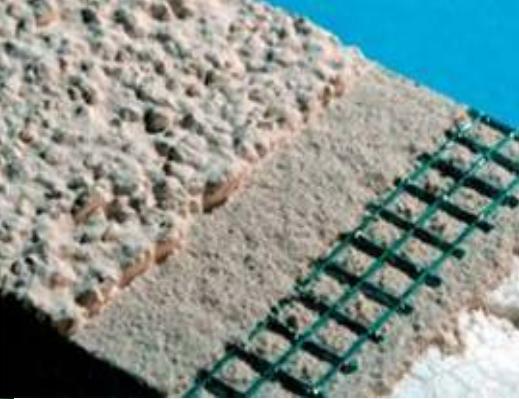
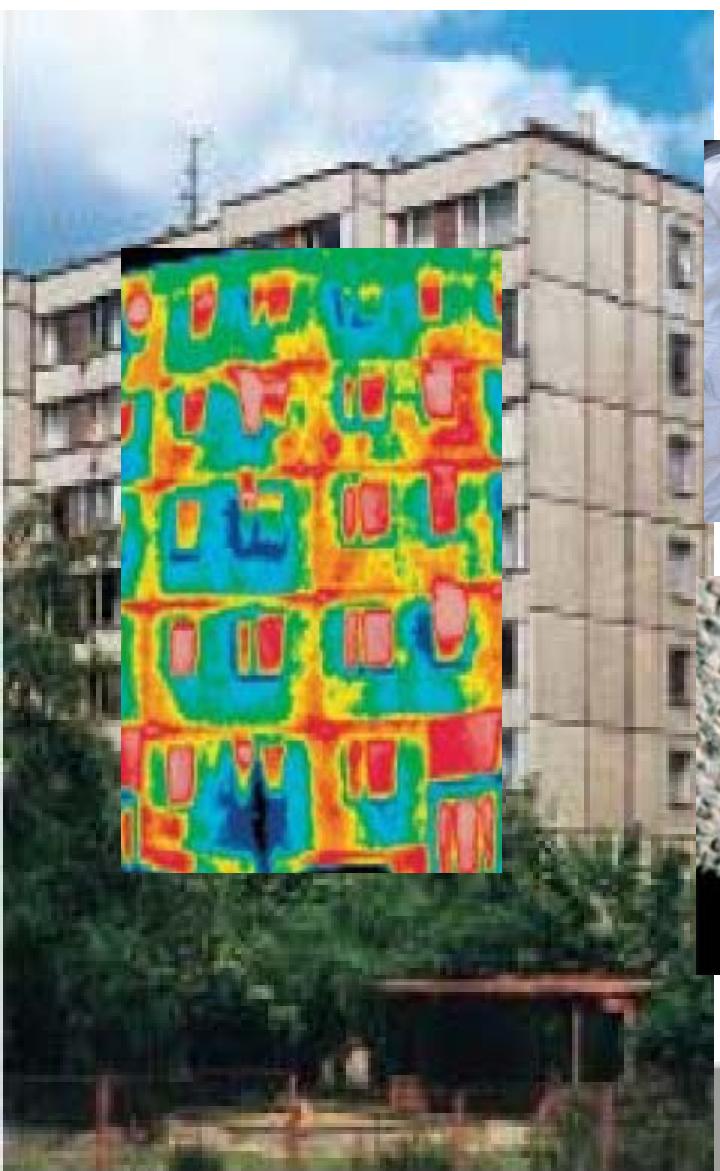
### UFSC – Lab de Eficiência Energética

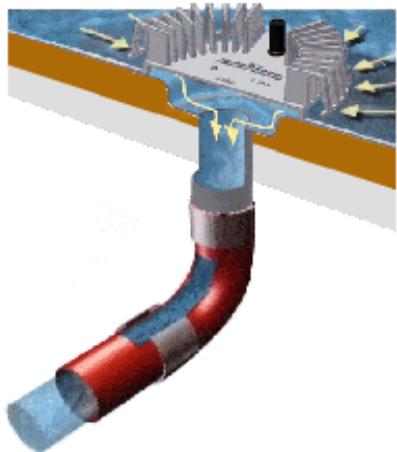
# Alguns Exemplos de Produtos Inovadores

# Bioclean : um vidro auto - limpante



# Soluções para o isolamento térmico pelo exterior







**SAIN-T-GOBAIN**

# Obrigado pela Atenção !

[paul.houang@saint-gobain.com](mailto:paul.houang@saint-gobain.com)