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The Cancer Toulouse Biopark and the CBS cluster

An example of public – private partnership

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The *Cancer-Bio-Health Cluster* : a unique & broad approach throughout the continuum of Cancer

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Agenda

- Toulouse and its region
- The Cancer-Bio-Health Cluster
- The Toulouse Canceropole Biopark

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- A 1 Million inhabitants urban area
- A demographic explosion: 230.000 new inhabitants in 10 years
- 400.000 jobs including + 50.000 new jobs since 1999

- Toulouse in the top 3 french urban areas in terms of job creation and in terms of metropolitan functions (with Paris and Grenoble)
- A dynamism that should not weaken: : 20.000 more inhabitants each year (INSEE)

- A major economic, research and higher education potential (100.000 high tech jobs - 110.000 students – 20.000 jobs in public and private research – 500 research units)
- An innovative region: Midi Pyrenees, 30 th in Europe and 2nd in France in the European Innovation Scoreboard for 2006

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- 3 main economic sectors linked to a rich research and higher education background
  - **Aeronautics and space**
  - **Agrofood**
  - **Pharmaceuticals**

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The french cluster policy

- **A national call for projects in september 2004**
- **Selection in July 2005**
- **68 projects selected :**

  In Toulouse:

  The Aeronautics and space cluster

  The Cancer bio health cluster

  A 3d cluster on the way : the Agrimip cluster

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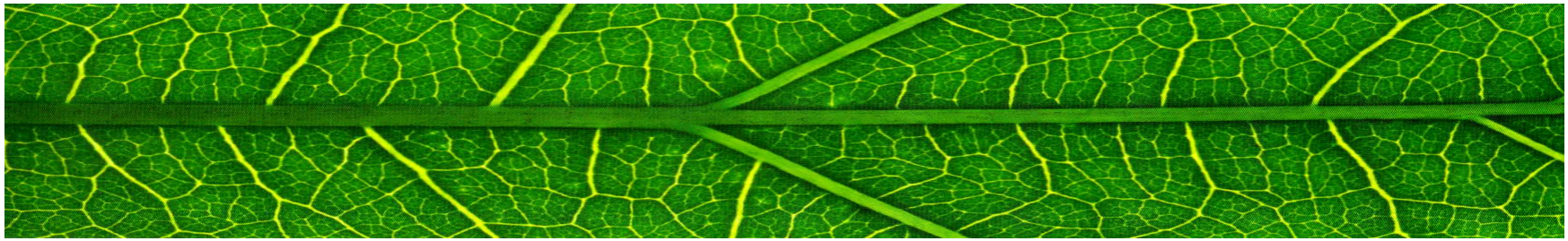
The Cancer-Bio-Health Cluster



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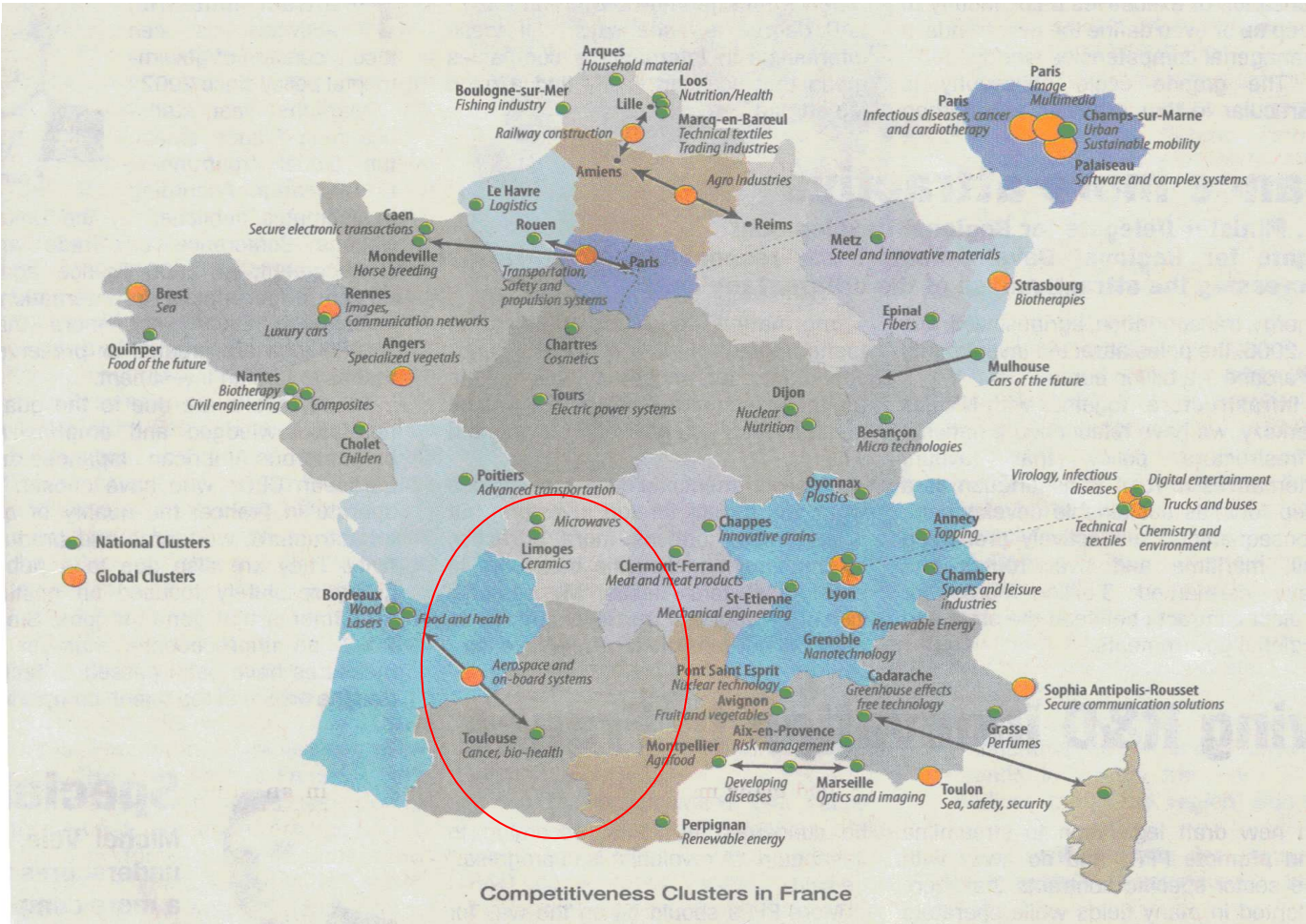

Boundaries: Toulouse, Albi, Castres, Mazamet, Limoges

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A unique and broad approach throughout the continuum of Cancer

Research • Industry • Education

Food-related risk factors

Prevention

Environment - related risk factors

Reducing the number of Cancers

Early diagnosis

Diagnostics

Molecular signature of Cancer risk

Improving patient care

Monitoring

Treatment

Telemedicine

Social reintegration

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Research and Education

CHU de Toulouse
CHU de Bordeaux
CHU de Limoges
CNRS
CRITT
EFS Pyrénées-Méditerranée
Ecole des Mines d'Albi-Carmaux
ENVT
ESAP
ESCT
Génopole Toulouse Midi-Pyrénées
INPT
INRA
INSA
INSERM

INCA
Institut Bergonié
Institut Claudius Régaud
Institut Européen de Chimie et Biologie
ISTMT
ITAV
Université de Limoges
Université Paul Sabatier
Université Toulouse I
Université Toulouse II

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Industry

Actigenics
Affichem
Alcatel Space
Avogadro
B-cell design
Beckman Coulter
Biophoton
BT Pharma
Cayla Invivogen
Communication et Système
Cyclopharma
Dyn’r
Endocube
Fonderephar
Génibio
Groupe Santé Recherche
Glaxosmithkline (Phase I)
GTP Technology
Helmodia / Newmedic

IBM
IEB
INEUM Consulting
Innopsys
Isochem/SNPE
LFB
Laboratoires Pierre Fabre
Lallemand
Lara Europe Analyses
Libragen
Magellium
Midi Biotech
Millegen
Novaleads

Picometrics
PraXell
Sanofi Aventis
Scanelis
Siemens
Sinters
SISMIP
Spotimage
Thalès
Union des Insdustries chimiques

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Regional Government Bodies

Agate
CEEI Théogone
Communauté d'agglomération de Castres-Mazamet
Communauté d'agglomération du Grand Toulouse
Communauté d'agglomération de l'Albigeois
Conseil Economique et Social Régional
Conseil Général de la Haute-Garonne
Conseil Général du Tarn
CRCI Midi-Pyrénées
CCI Albi-Carmaux
CCI Castres-Mazamet
CCI Toulouse
DRRT Midi Pyrénées
Incubateur Régional Midi-Pyrénées
Ligue contre le Cancer

Midi Pyrénées Expansion
Ariège Expansion
Limousin Expansion
Réseau ONCOMIP
Prologue Biotech
Région Midi-Pyrénées
SICOVAL
Ville de Toulouse

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A Strong Industry Network

Health (130 companies, 9,000 employees),
Biotechnology (63 companies including 36 start-ups),
Pharmaceuticals (8,000 employees),
Health & Food (30 companies, 1,100 employees)
Information Technology (2,100 companies, 14,000 employees).

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Major Industry Stakeholders

Laboratoires Pierre Fabre	The second largest private French pharmaceuticals group. Employs 9,000 people, 3,100 of them in Midi-Pyrénées.
Sanofi-aventis	The third largest pharmaceuticals group in the world and European leader. Employs almost 100,000 people around the world, including 28,000 in France and over 1,000 in Midi-Pyrénées.
Glaxosmithkline	The second largest pharmaceuticals group in the world. Employs 100,000 people around the world and 6,000 in France.
IBM	The largest information technologies company in the world. Employs 300 people in Midi-Pyrénées.
Communication et Systèmes	The French leader for high-performance, critical, scientific and industrial applications. Employs 3,400 people.
Thalès	A leading French technology and electronics company. Employs 61,500 people around the world including 1,300 in Toulouse.
Siemens	Leader in the medical solutions market. Employs 430,000 people around the world including 11,000 in France.
Lallemand	A Canadian company which is one of the main world producers of yeast and enzymes for the agro-food industry. Employs 60 people in Toulouse.

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30 R&D collaborative projects for > 100 M €

SMEs, Industry

Research, Hospitals, Education

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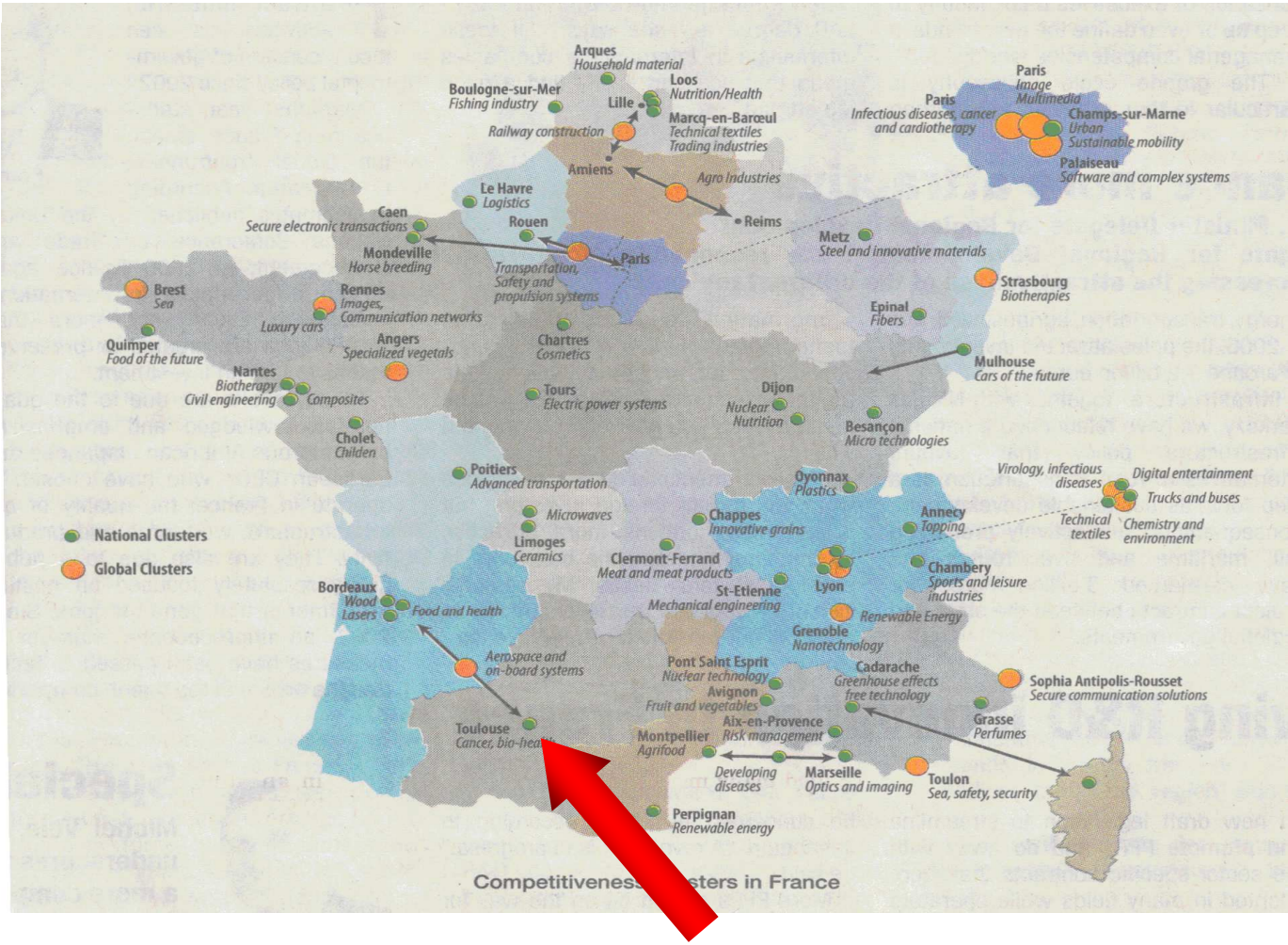

Toulouse Canceropole Biopark

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Toulouse Canceropole Biopark
a landscaped campus dedicated to Cancer

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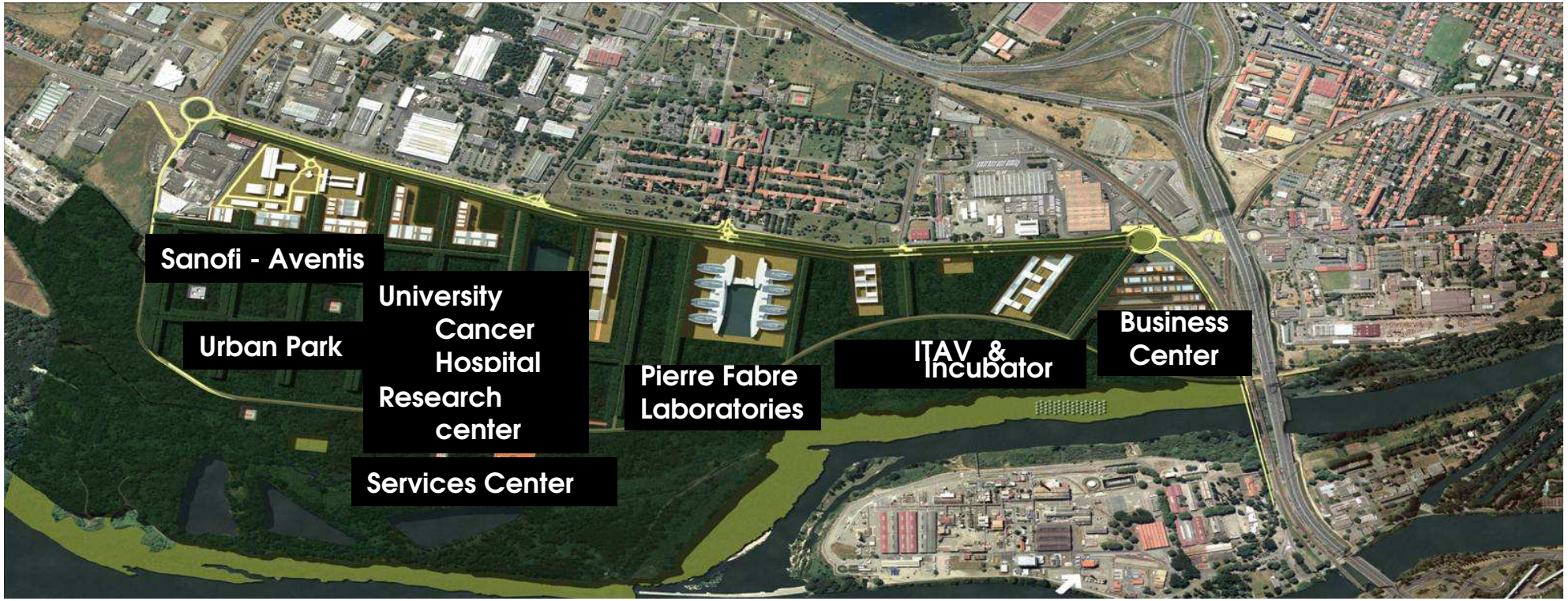
An integrated Biopark dedicated to Cancer



540 acres, involving 4,000 employees and gathering resources from Public & Private, Scientific, Clinical, Teaching and Industry to prevent and fight cancer.

A total of 1.1 Billion € invested on the campus

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State of the Art Facilities

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The University Cancer Hospital

A comprehensive cancer research consortium

for patient care and validation of new products and technologies

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ITAV (Advanced Institute for Life Science Technologies)

A multidisciplinary life sciences research institute

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Business Center

Incubator and Business Center facilities

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Sanofi-Aventis

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- Sanofi Aventis

sanofi aventis

More than
1 000 individuals
300 M€ investment
95,680 sq yards

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Research Institute Pierre Fabre

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Toulouse Canceropole Biopark

- Research & Application
- Clinic & Clinical trials
- Product & Technology validation
- Incubator & Industry
- Education

In all segments of the Cancer Care Continuum

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The canceropole Toulouse biopark : a story

- **A catastrophe: sept 21, 2001 a chemical plant exploded.**
- **A place: what to do with a 220 hectares site on the Garonne river**
- **Men : the politician and the entrepreneur**
- **Time : first announcement on march 30 2004 , and 3 years later, the site is decontaminated, and new buildings are under way : Sanofi, Pierre Fabre, the ITASV and the incubator**

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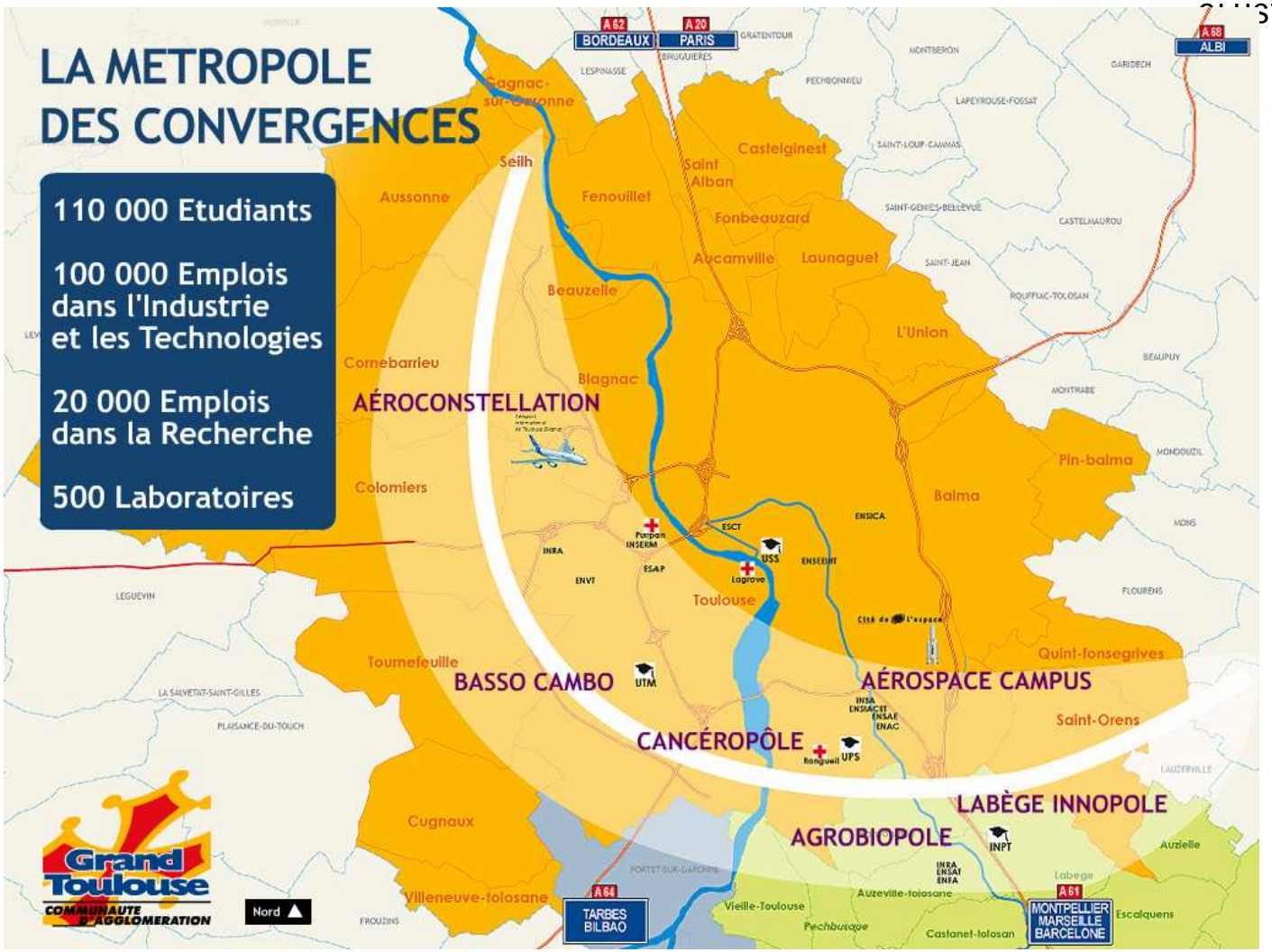
- **A Site**



A company

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- A pharmaceutical company of worldwide reputation which was founded in the Midi-Pyrénées region, Laboratoires Pierre Fabre, the second largest independent pharmaceutical company in France, employs around 9000 people and achieved sales of nearly €1.5 billion in 2005, 43% of them in other countries. With more than 1100 researchers, Pierre Fabre Médicament devotes a **quarter** of its annual income to research and development in five therapeutic areas of major importance to public health.
- Characteristics;
  - **Half in pharmaceuticals : cancer = ½ the R and D budget**
  - **A number of public private partnerships in R and D**
  - **Half the turnover in dermo-cosmetics**
  - **A number of partnerships with big pharmas on specific products**

The canceropole: a challenge for the company

And then !

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- With political will and political union over the project ,and the drive of industry , the research and medical community has followed :
  - **A physical investment : brand new labs and the proximity of the university cancer hospital**
  - **A coordination and animation structure that has benefited from a national label: « réseau thématique de recherche et de soins » (thematic network for research and care)allowing it to benefit from public and private funds : this structure aims to promote translational research on cancer , and to facilitate pluridisciplinarity especially with chemistry, nanobiotechnology, information technologies.**

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- The private sector has followed too:

  - **by putting money in :**

    A foundation: Innabiosanté foundation (with Pierre Fabre, GSK, Siemens, Amgen and Total) that will finance research projects (a first call for ideas has been launched a few days ago)

  - **With the creation of start ups**

  - **With the increase of collaborations between toulouse research units and big pharmas (ex GSK, LFB..)**

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The canceropole Toulouse Biopark : a reality

- research team working together in the RTRS

- industry and public research collaborating

- doctors from the public and the private sector working together for the benefit of the patients

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Thank You

www.canceropole-toulouse.com