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Czech Presidency
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Présidence tchèque
de l'Union européenne

2009



Roger FOUCHER

Vice President - Rhône Alpes Region

Higher Education and Research

Conference Research Infrastructures and the Regional Dimension of ERA
Prague
Congress Center
24 – 25 March
2009

Outline

1. Rhône-Alpes features and Regional Policy
2. Rhône-Alpes & RIs
3. Academic and Economical impact

Rhône-Alpes

6 millions inhabitants: 2nd French Region , 6th in Europe

GDP 173 billion €: 2nd French Region , 7th in Europe

15 Clusters, of which 3 at world level

2nd French University :
 230.000 students
 600 Labs
 19.000 Research scientists

Unique ERA site for
 Large Scale Research Infrastructures (LSRIs)



Régional Policy in Higher Education & Research

SRESR : “Schéma Régional d’Enseignement Supérieur et de Recherche”
implemented in 2005

- Promote Knowledge Society
- Organize the Scientific Communities including effect of LSRI
- Support for Public – Private Research cooperation (“Clusters”)
- Support Knowledge Transfer towards Economy & Society
- Research : attractiveness and international “rayonnement”
 unique role of LSRI
- Contributions to French and EU

Rhône- Alpes and

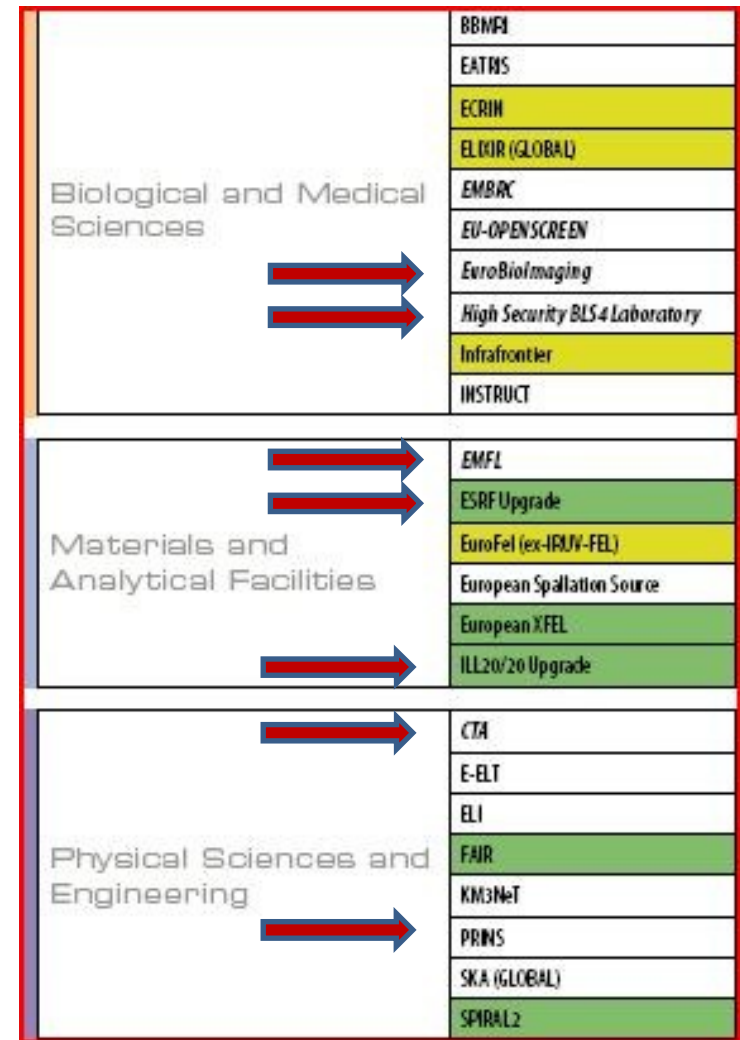


Strong implications in several
ESFRI programmes :

“Material and analytical facilities”

“Physical sciences and engineering”

“Biological and Medical Sciences”



Rhône-Alpes and ESFRI

LSRIs

ILL

: Neutron facility

ESRF

: Synchrotron X-rays facility

EMBL

: European Molecular Biology Lab

Network Contributions

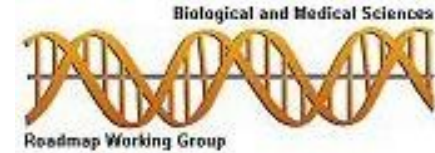
MINATEC LNCMI LSM P4 CLEA IN2P3	Micro-Nano Electronics High Magnetic Fields Underground BioSafety level 4 Environment & Analytic CERN & Astrophysics	<i>Grenoble</i> <i>Grenoble</i> <i>Modane (Savoy)</i> <i>Lyon</i> <i>Lyon</i> <i>Annecy - Lyon -</i> <i>Grenoble</i>
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Biosafety level 4 Lab

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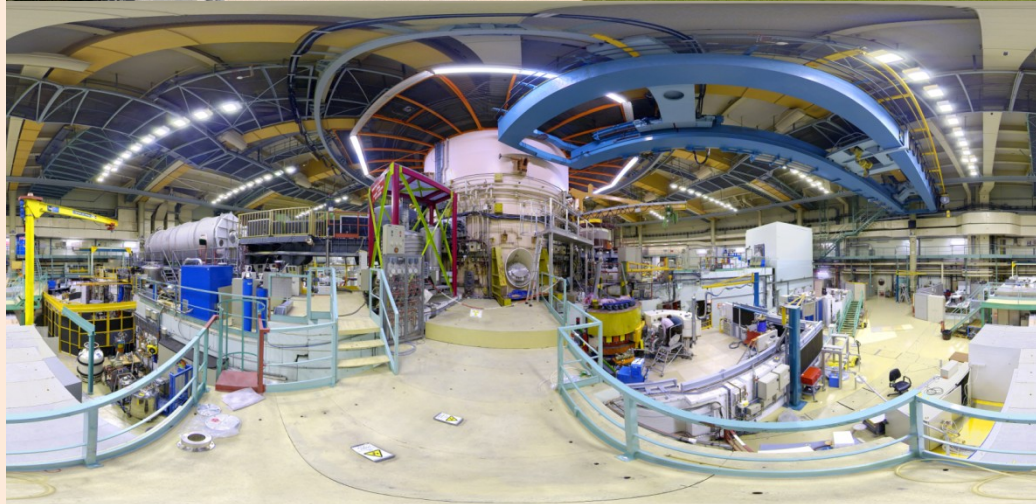


European Strategy Forum
on Research Infrastructures



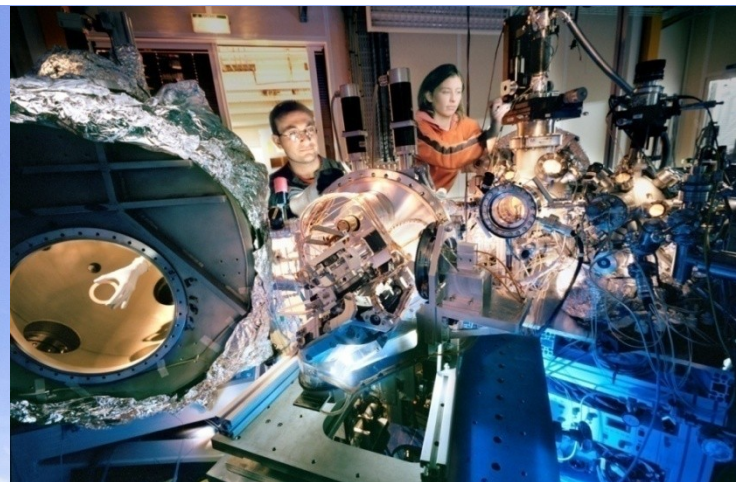
- Select and promote the development of RIs within the biological and medical sciences
- European high security BSL4 laboratories integrated in the new roadmap
- **Coordinated** by INSERM (H. Raoul)
- Objectives: To strengthen the EU capacities in the fields of diagnosis and study of highly pathogenic infectious micro-organisms

Panoramic view of
experimental ILL area



Panoramic view of ESRF

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Towards an ESRF-ILL-EMBL European campus

- These 3 RIs develop each forefront instrumentation for their specific experiments
- They develop **synergies** between them :

- ❖ **PSB** = Partnership for Structural Biology, created in 2002;
additional partners are CEA, CNRS, and University
- ❖ **FaME38** = Facilities for Material and Engineering
mechanical properties in a non-destructive way
- ❖ **PSCM** = Optimised lab for complex materials (polymer, gel, plastics)

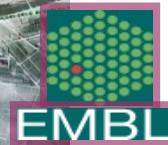
Altogether, they are very attractive : **more than 8000 User visits per year !**

GIANT project partners

Academic partners



Large scale instruments



Research organisations

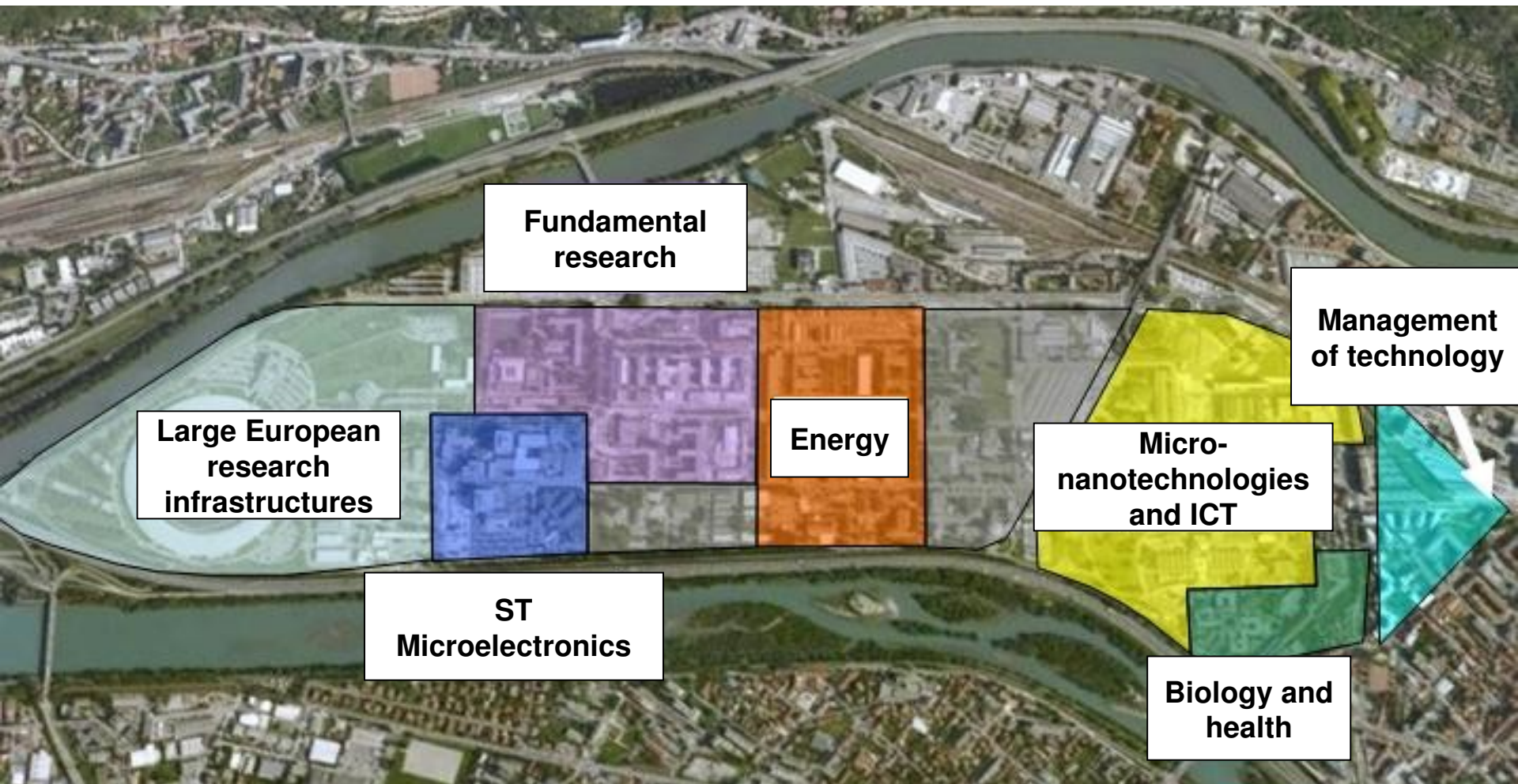


Rhône-Alpes



EMBL are with MINATEC at the heart of the “GIANT”

GIANT (*Grenoble Innovation Alps NanoTechnologies*) to structure the peninsula site around strong excellence centers : Academic Research, Higher Education and Enterprises



These major Academic involvements in the Rhône-Alpes Region

do have an economic impact
Some figures on ESRF-ILL-EMBL

- ❖ Annual budget : 160 ME
- ❖ Total investments on site, from early '70s : over 4 BE
- ❖ Salaries : 85 ME (1200 persons), *40% reinvested in RA*
- ❖ Induced employment: 2500 persons
- ❖ Purchases : 75 ME *of which 57% in Rhône-Alpes*

Local high-tech industries benefit from ESRF- ILL-EMBL

Technical fields include :

- Precision mechanical engineering
- Electronics
- Ultra high vacuum manufacturing
- Optical systems (mirrors, monochromators, coatings)
- Software development

Cité Lyonnaise de l'Environnement et de l'Analyse

(Lyon Environment and Analysis City)

LYON CITÉ CAMPUS

Lyon Tech

physics
nanotech

chemistry

informatics

engineering

biology

CLEA

-  Maison de l'innovation et de la compétitivité
-  Réserves foncières
-  Les accès du Campus
-  Tramway
-  Projet : zone privilégiée pour l'accueil d'entreprises dans le campus
-  Foncier mutable à moyen/long terme pour accueil bât. ESR



1.5 ha, 7000 m² ISA, 550 m² CLYM

TLULUHU
BGDKKEEFIR
ILPLPLTATRO

Acknowledgments

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Thank you for your attention !