

# CLUSTERIX 2.0

Interreg Europe



European Union  
European Regional  
Development Fund

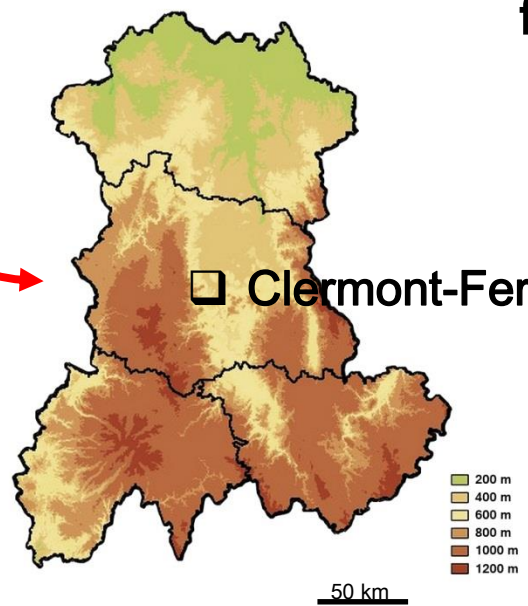
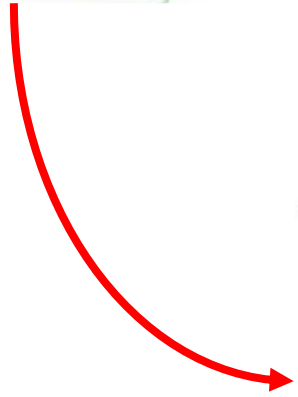
## Auvergne « Academic sourcing » Aligning RIS3 / research topics

Virginie SQUIZZATO – Charlotte LEGRAND

Brussels, February 14<sup>th</sup> 2016 | ClusteriX 2.0 4<sup>th</sup> meeting



- ✓ 26,000 km<sup>2</sup>
- ✓ 1.3 M inhabitants
- ✓ Clermont-Fd : 142,000 people (470,000 with suburbs)
- ✓ The Sancy Massif is the highest point (1,886 m)
- ✓ 30% of the territory is covered by forest



## The Auvergne territory

# Welcome to the region of hidden charms

**Top 10 regions**

Regions are different. They range from blockbusters to the unknown, but something – scenery, culture, both – marks them out as special. One thing is certain: all our choices for 2016 make a unique case for a visit.

START

WHAT'S YOUR TRAVEL DESTINY?  
TAKE THE QUIZ >

Rank	Region
#1	Transylvania
#2	West Iceland
#3	Valle de Viñales
#4	Friuli's wine regions
#5	Waiheke Island
#6	Auvergne region
#7	Hawaii
#8	Bavaria
#9	Costa Verde
#10	St Helena

**BEST IN TRAVEL 2016** Sponsored by **TURKISH AIRLINES**

TOP COUNTRIES TOP CITIES TOP REGIONS

FR 11:12 02/11/2015



# Welcome to the region of hidden charms

**BEST IN TRAVEL 2016**

#6  
France  
**Auvergne region**

*Fresh styles and flavours in France's rustic heart*

Sponsored by  
**TURKISH AIRLINES**

SEND THIS

TOP COUNTRIES TOP CITIES TOP REGIONS

WHAT'S YOUR BEST DESTINY?  
THE QUIZ >

#10  
St Helena

FR 11:12 02/11/2015

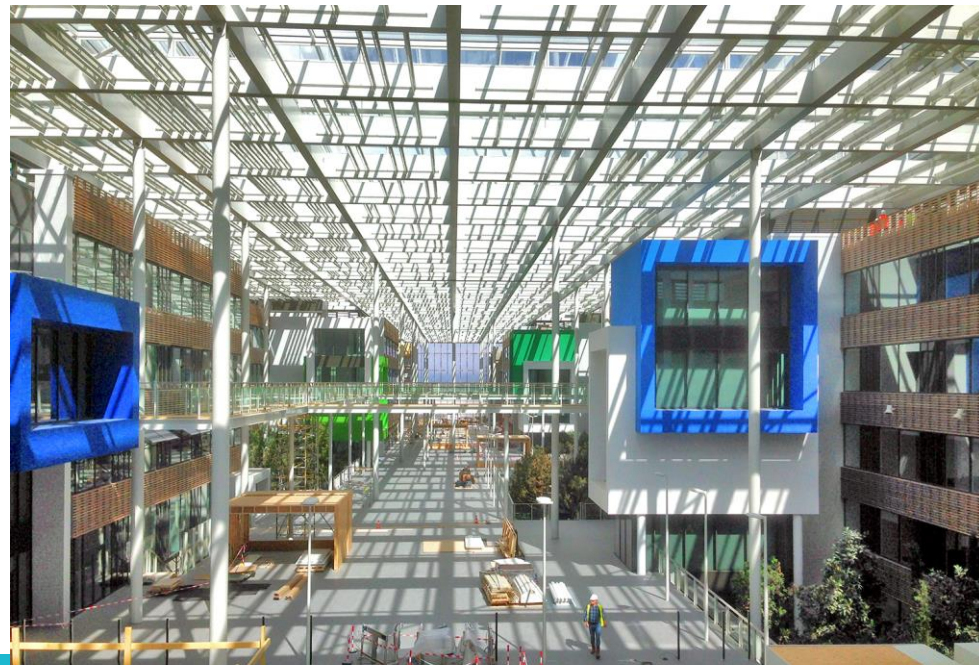
# A small territory focused on sciences

- 1 university (*merger Jan 1<sup>st</sup> 2017*)
- 5 engineering schools
- 1 business school
- 4 national research centers



**45,000 students / 11% from abroad**  
**2,800 researchers (50% public / 50% private)**  
**1,000 PhD**  
**54 public laboratories**  
**900 patents filed per year**

**5<sup>th</sup> french area for budget for R&D**  
*(R&D/GDP ratio)*  
**18<sup>th</sup> for its demography**



**The Auvergne territory belongs to the Auvergne-Rhône-Alpes regional council from January 1st 2016**





**Dominique Foray**  
Federal Polytechnic School in Lausanne



# Young Lady, Innovation Strategy for Smart specialisation?



*The kingdom of smart*





**Dominique Foray**  
Federal Polytechnic School in Lausanne



Young Lady,  
Innovation Strategy for Smart specialisation?



*The kingdom of smart*



Not only,  
**Research** and **Innovation**  
Strategies for smart specialisation (RIS3)

# The Auvergne RIS3 : 5 visions for the territory 5 strategic innovation sectors (SIS)



**Life is motion – Mobility health prevention**



**Power of land – agriculture, livestock, bioresources**



**Enjoy Auvergne – identity & territory**



**Trust Inside – digital trust**



**Smart Auvergne – smart and efficient systems**

- *based on solid value chains from research lab to companies*



## Regional Operational Program Auvergne\* ERDF-ESF 2014-2020

### ***Axis 1: “Reinforce Research, Technological Development and Innovation”***

Investment priority 1.a - Enhancing research and innovation infrastructure and capacities to develop R&I excellence and promoting centers of competence >> *academic knowledge production*

[Policy instruments addressed > ClusteriX 2.0 application]

Investment priority 1.b - Promoting business investment in R&I, developing links and synergies between enterprises, research and development centres and the higher education sector >> *innovation*

215 M€

54 M€

27 M€

*[Only public body]*

+

27 M€

***[...The ERDF vocation to helping building the "stairway to excellence"...  
he main role of ERDF is to invest in " innovation excellence", i.e. to  
translate knowledge into value/business opportunities, including  
applied research, cooperation between enterprises, R&D centres and  
higher education, product and service development, technology  
transfer, pilot lines, early product validation actions, advanced  
manufacturing capabilities and first production, etc...]***

**Nonetheless, ERDF investments in building fundamental research infrastructures and purchasing equipment for fundamental research may be supported under the following conditions :**

- ✓ **the research fields must be in line with the smart specialization strategy (RIS3)**
- ✓ **there must be a justification on how the results of the research will be used to benefit the economic development of the region concerned.**

# Overview of the research & innovation policies of the regional council over the last 12 (10+2) years



**La Région**  
Auvergne-Rhône-Alpes





## The Future of Europe relies on its territories

“Over 60% of decisions taken at the European level have a direct impact on municipalities, provinces, and regions and **70% to 80% of public investments in Europe are made by local and regional authorities.**”

“The European Union motto **“United in diversity”** could not better reflect the wide range of municipalities, counties, provinces, regions, etc. and the different ways in which they run and develop their communities and territories.”

# COMPETENCIES OF THE FRENCH REGIONS

exclusive

shared



Economic developement



Professional training



European Funds



Culture



High school



Territorial planning



Transports

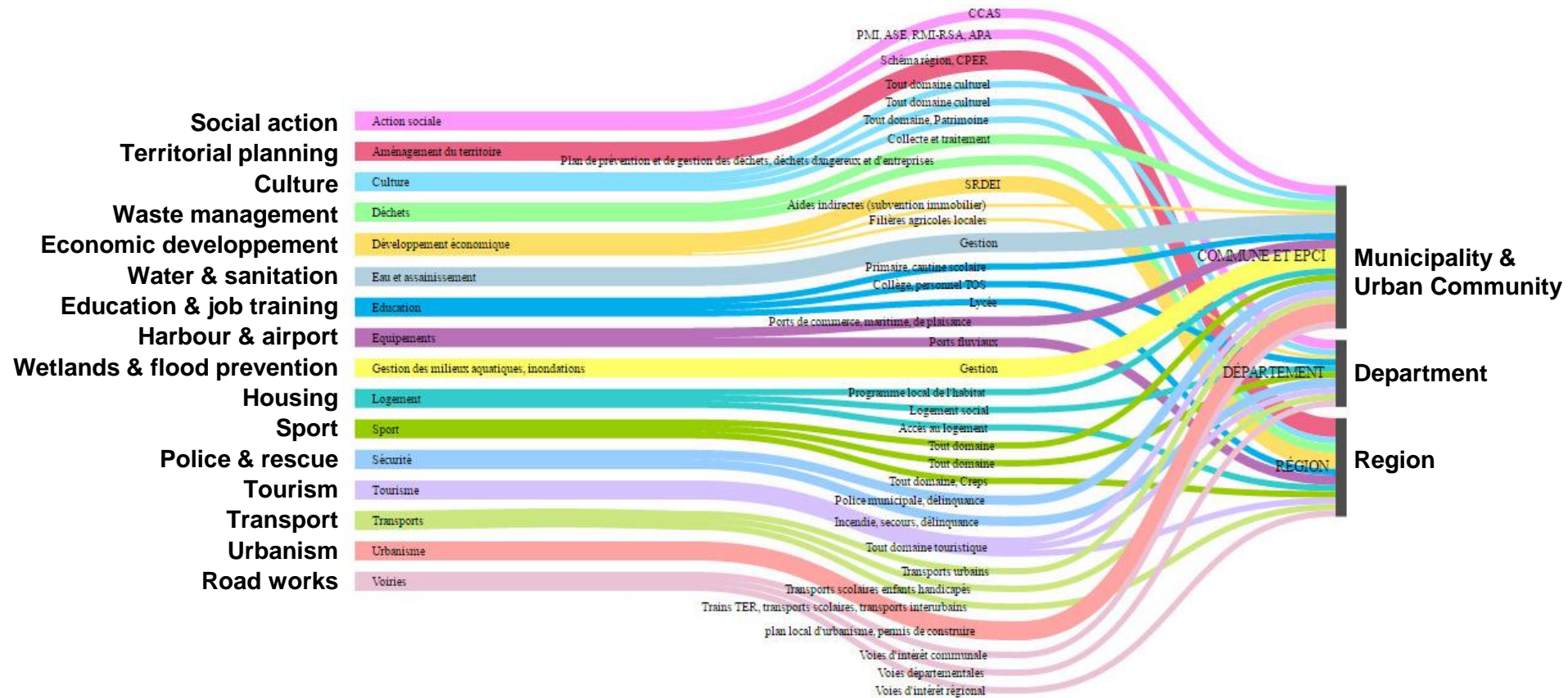


Tourism



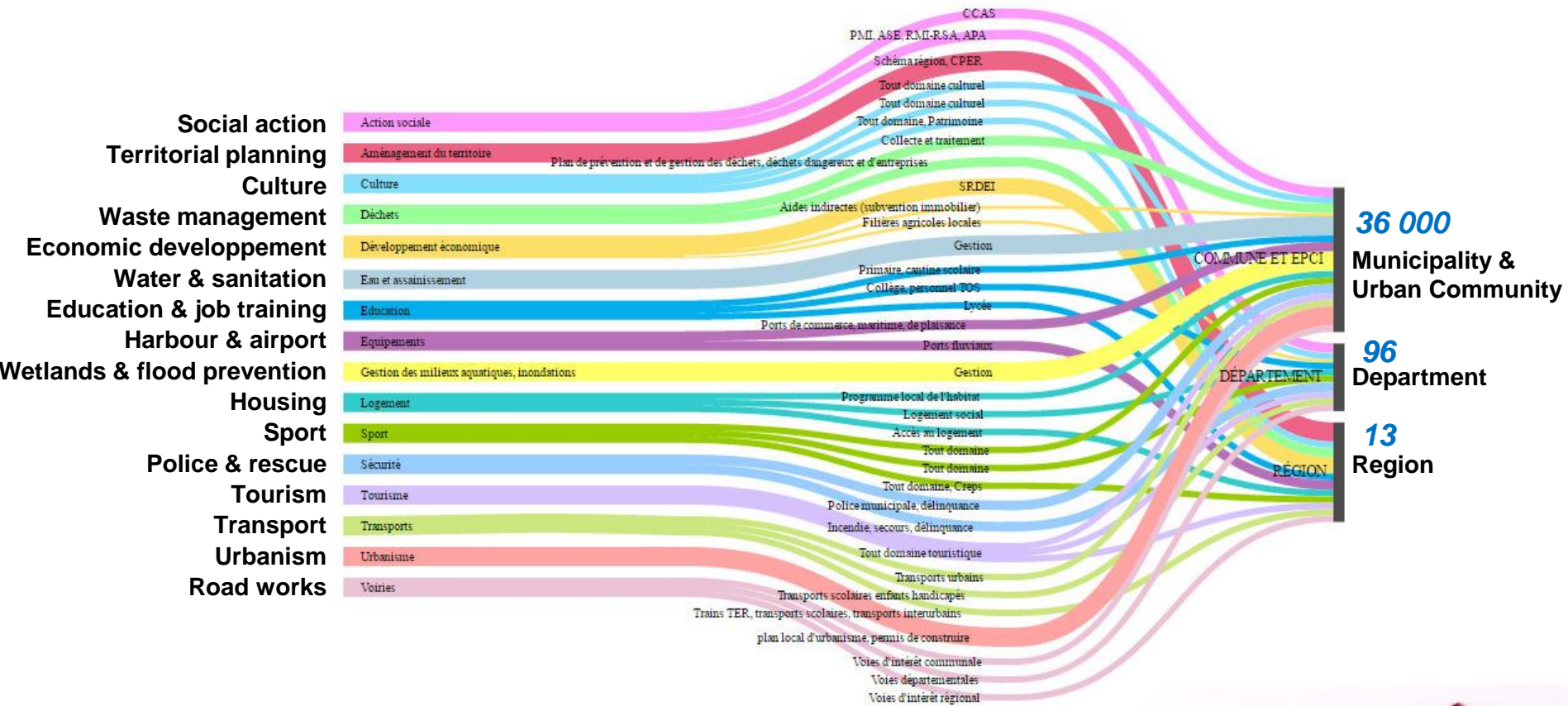
Sport

# Law NOTRe (New Territorial Organisation of the French Republic) voted on March 15<sup>th</sup> 2015



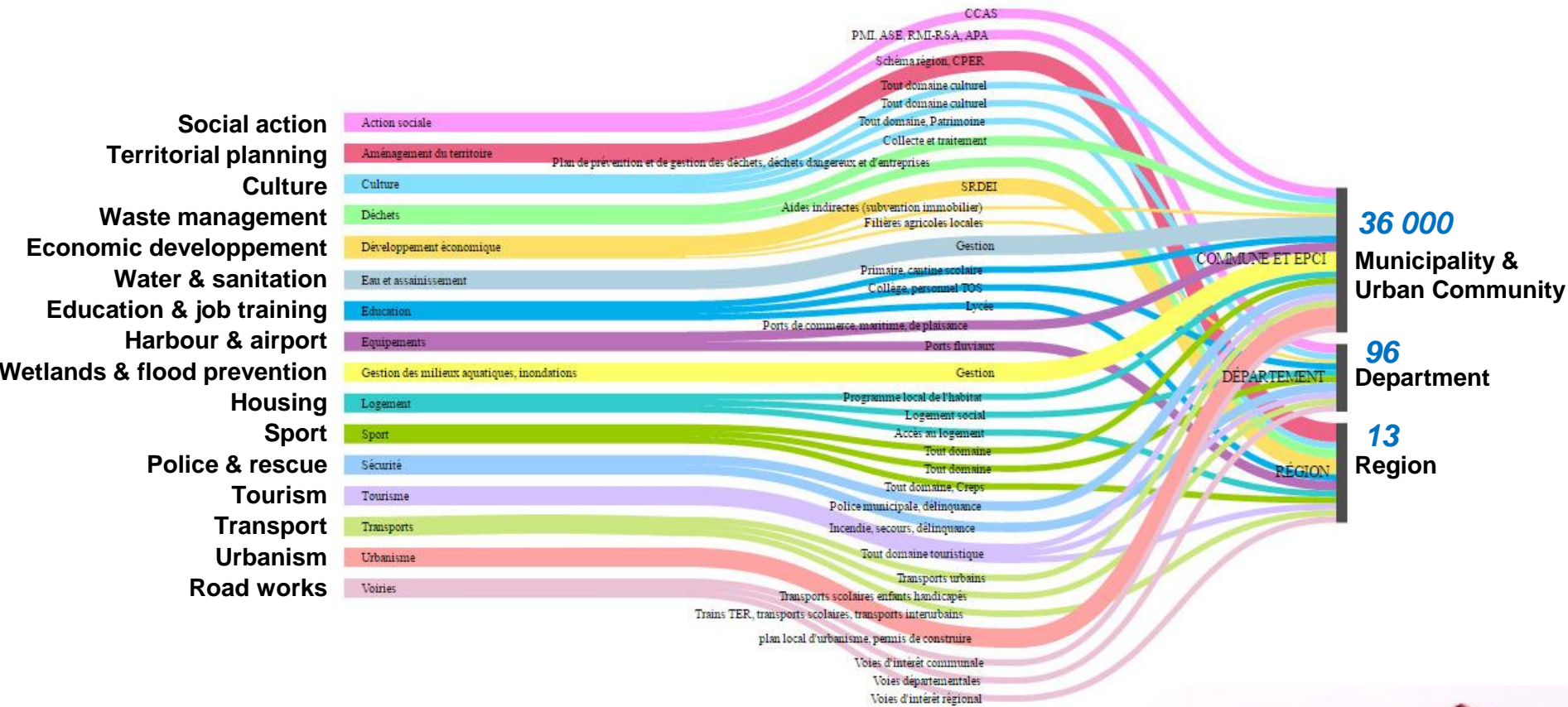


# Law NOTRe (New Territorial Organisation of the French Republic) voted on March 15<sup>th</sup> 2015



Sources : Le Monde ; Assemblée nationale ; Sénat ; Insee ; DGCL ; www.vie-publique.fr ; Courrier des maires ; Edater

# Law NOTRe (New Territorial Organisation of the French Republic) voted on March 15<sup>th</sup> 2015

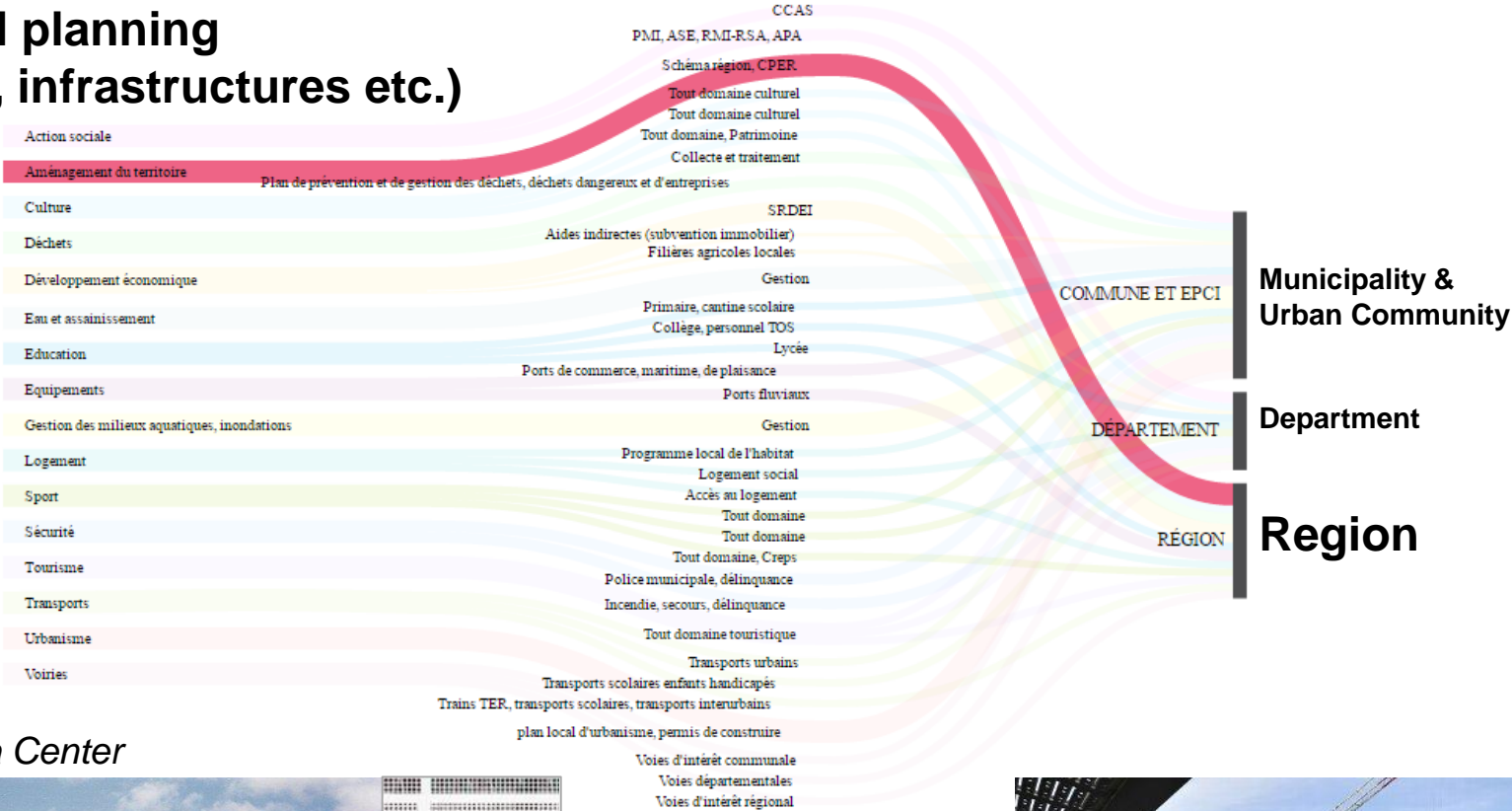


Research?





## Territorial planning (building, infrastructures etc.)



The new Data Center

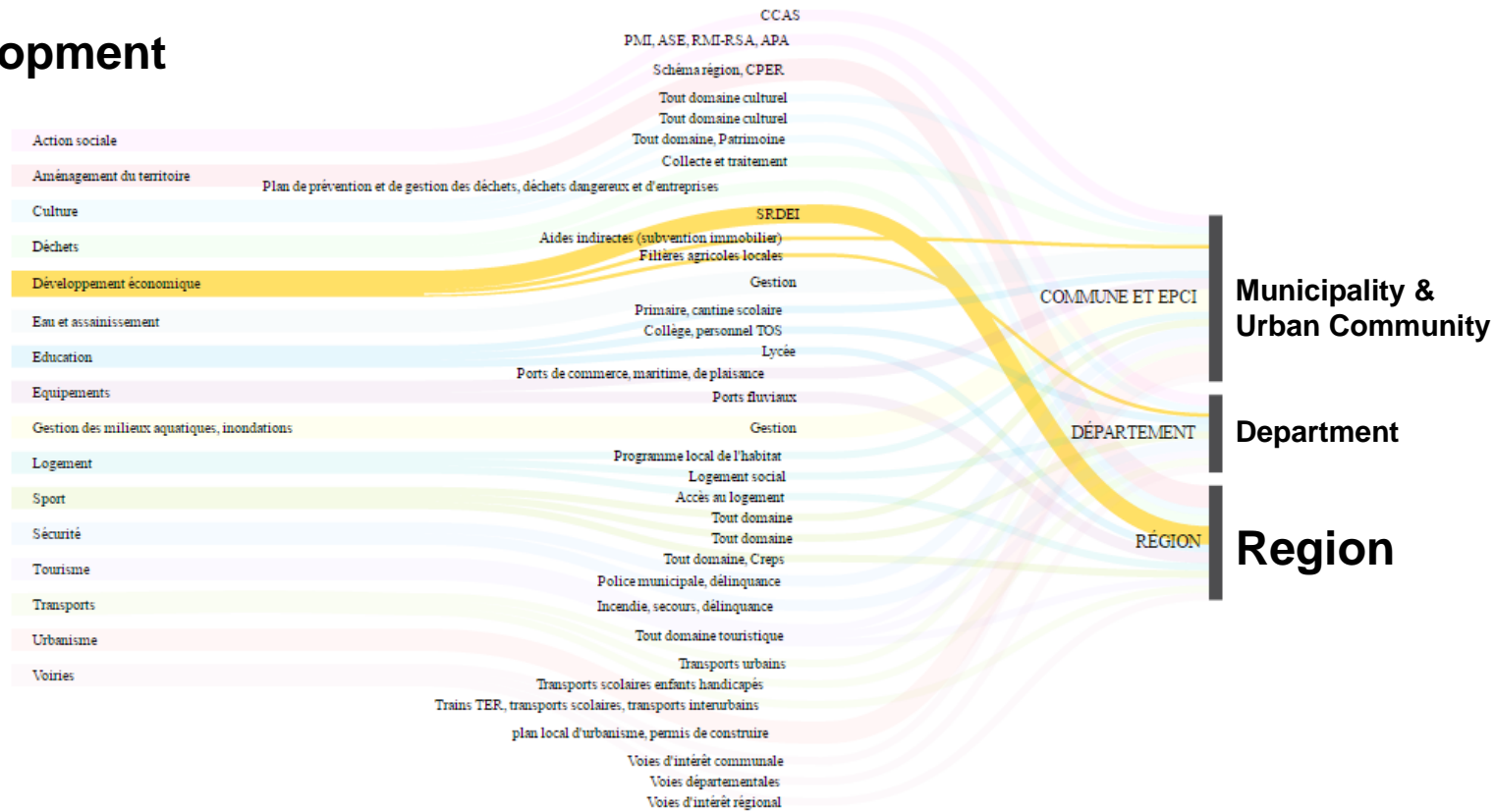


The new Faculty of Odontology





# Economic development



**Research # Higher Education # Innovation >>> Economic Dev. Department**  
*[from 2008]*

# Structuring of Auvergne research & innovation policies

2005

2015



# Structuring of Auvergne research & innovation policies

2005 : national labelling for competitiveness clusters





2005 : national labelling for competitiveness clusters



Cofunding for public/private collaborative projets (National+ERDF)



2005 : national labelling for competitiveness clusters



Cofunding for public/private collaborative projets (National+ERDF)

Entrepreneur  
Grants

2005 : national labelling for competitiveness clusters



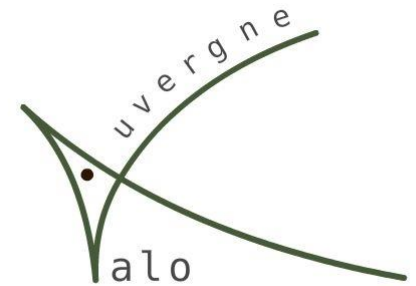
Entrepreneur Grants

7.5, 15 or 25 k€/project > few innovative projects and very low number coming from academics

2005 : national labelling for competitiveness clusters

2006 : joint Tech Transfer Office for all academics

# labs campaign : increase in awareness of innovation,  
commercialization and entrepreneurship  
# screening : 60 projects at « dormant state »



Cofunding for public/private collaborative projects (National+ERDF)

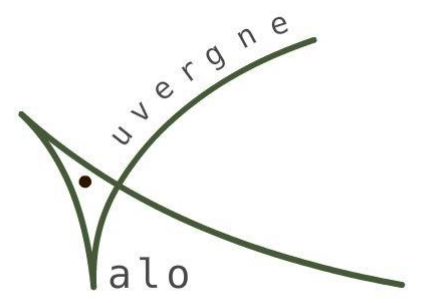
Entrepreneur  
Grants



2005 : national labelling for competitiveness clusters

2006 : joint Tech Transfer Office for all academics

# labs campaign : increase in awareness of innovation, commercialization and entrepreneurship  
# screening : 60 projects at « dormant state »



# post-doc, engineer, technician (6/12/18 months contract) or PhD  
# partnerships/licensing contract with SMEs  
# entrepreneurs coached by incubator

2005 : national labelling for competitiveness clusters

2006 : joint Tech Transfer Office

2007 : Innovergne Committee



maison  
Innovergne  
activateur d'innovation



Cofunding for public/private collaborative projets (National+ERDF)

Entrepreneur  
Grants

Innovation Grants (entrepreneurs, tech transfer)

2005 : national labelling for competitiveness clusters

2006 : joint Tech Transfer Office

2007 : Innovergne Committee



maison  
Innovergne  
activateur d'innovation



Cofunding for public/private collaborative projets (National+ERDF)

Entrepreneur  
Grants

Innovation Grants (entrepreneurs, tech transfer)

Research  
Grants for sectors

- # PhD, post-doc
- # basic or applied research
- # Involvement of 3 SMEs

2005 : national labelling for competitiveness clusters

2006 : joint Tech Transfer Office

2007 : Innovergne Committee



maison  
Innovergne  
activateur d'innovation



Cofunding for public/private collaborative projets (National+ERDF)

Entrepreneur  
Grants

Innovation Grants (entrepreneurs, tech transfer)



Research  
Grants for sectors

- # PhD, post-doc
- # basic or applied research
- # Involvement of 3 SMEs





**2005 : national labelling for competitiveness clusters**

**2006 : joint Tech Transfer Office**

**2007 : Innovergne Committee**

**2009 : regional labelling for excellence clusters**



2005 : national labelling for competitiveness clusters

2006 : joint Tech Transfer Office

2007 : Innovergne Committee

2009 : regional labelling for excellence clusters



Analgésia Partnership



innova therm  
région thermale innovation



pharmabiotic  
research institute



e-cluster.fr  
Auvergne efficience industrielle

Numélink  
the creative IT cluster

JCE Plasturgie  
"Dans chaque innovation, la plasturgie est présente"

Cofunding for public/private collaborative projets (National+ERDF)

Entrepreneur  
Grants

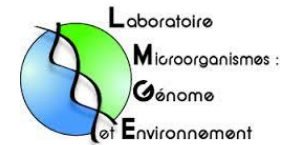
Innovation Grants (entrepreneurs, tech transfer)

Research  
Grants for sectors

**Analgesia**  
Partnership



**CLUSTERIX 2.0**  
Interreg Europe



ENTREPRISES  
POUR  
L'ENVIRONNEMENT  
ET L'INNOVATION  
EN AUVERGNE



2005 : national labelling for competitiveness clusters

2006 : joint Tech Transfer Office

2007 : Innovergne Committee

2009 : regional labelling for excellence clusters



Cofunding for public/private collaborative projets (National+ERDF)

Entrepreneur Grants

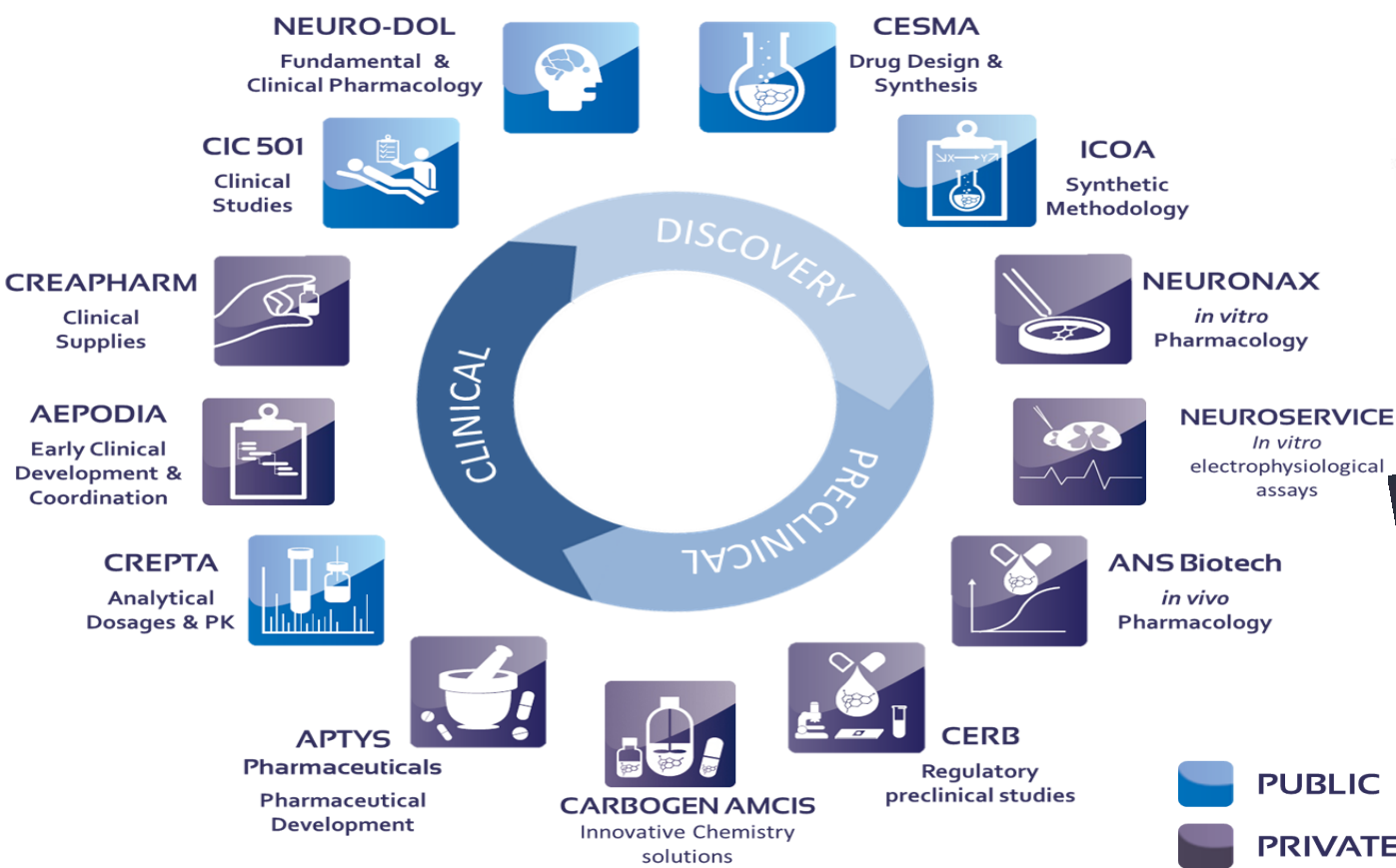
Innovation Grants (entrepreneurs, tech transfer)

Research Grants for sectors

Research Grants for clusters

# PhD  
# Post-doc  
# 27 grants





- 🔬 Highly specialized cluster: **only Pain!** Unique in Europe
- 🔬 Mutual enrichment of Public-Private partnership
- 🔬 At the forefront of Innovation thanks to **Internal R&D**
- 🔬 Comprehensive & complementary expertise

1. New drug : morphine substitute
2. Repositionning of drugs

**2005 : national labelling for competitiveness clusters**

**2006 : joined Tech Transfer Office**

**2007 : Innovergne Comitee**

**2009 : regional labelling for excellence clusters**

**2013 : RIS3 + ERDF Operational program**



**Entrepreneur Grants**

**Innovation Grants (entrepreneurs, tech transfer)**

**Research Grants for sectors**

**Research Grants for clusters**

**2005 : national labelling for competitiveness clusters**

**2006 : joined Tech Transfer Office**

**2007 : Innovergne Comitee**

**2009 : regional labelling for excellence clusters**

**2014 : Research, Higher Education & Innovation plan**



**2013 : RIS3 + ERDF Operational program**



**Entrepreneur Grants**

**Innovation Grants (entrepreneurs, tech transfer)**

**Research Grants for sectors**

**Research Grants for clusters**

**2005 : national labelling for competitiveness clusters**

**2006 : joined Tech Transfer Office**

**2007 : Innovergne Comitee**

**2009 : regional labelling for excellence clusters**

**2014 : Research, Higher Education & Innovation plan**



**2013 : RIS3 + ERDF Operational program**



**Entrepreneur Grants**

**Innovation Grants (entrepreneurs, tech transfer)**

**Research Grants for sectors**

**Research Grants for clusters**

**RIS3 sourcing**



# RIS3 Academic sourcing

- ✓ **Future-oriented** : new technological and scientific knowledge
- ✓ Related to the industrial collective strategy of the SIS
- ✓ Strategic **investment** in the regional laboratories
- ✓ **Collaboration** : application submitted by the technical committee of the SIS
- ✓ **Leadership** & excellence : external scientific peer-review
- ✓ **Commitment** : long-term partnership agreement signed by the stakeholders



**Cofunding**  
**60% ERDF**  
**40% Region**

## One project per SIS per year

3 grants (3 y PhD / 2 y post-doc)  
+ Equipment (50 k€)  
+ Functioning (30 k€)

---

**Total = 320 to 350 k€ / project**

LEADER**S**HIP

COM**M**ITMENT

COLL**A**BORATION

FUTURE-O**R**IENTED

INVES**T**MENT

2005 : national labelling for competitiveness clusters

2006 : joined Tech Transfer Office

2007 : Innovergne Comitee

2009 : regional labelling for excellence clusters

2014 : Research, Higher Education & Innovation plan



2013 : RIS3 + ERDF Operational program



Entrepreneur Grants

Innovation Grants (entrepreneurs, tech transfer)









Research Grants for sectors  
4-5

Research Grants for clusters  
8

RIS3 sourcing  
15



# RIS3 Academic sourcing : 8 projects

-  ➤ **Multidisciplinary research for better management of inflammatory rheumatism. Towards new therapeutic and nutritional approaches [330,000 €]**
-  ➤ **Longitudinal study of the influence of diet and physical activity on muscle and bone health [330,000 €]**
-  ➤ **Innovative biomarkers for the quality of meat products [340,000 €]**
-  ➤ **Mobilizing and bio-refining of the wood resource for the production of second-generation ethanol and the creation of molecules with high added value [350,000 €]**
-  ➤ **Digital trust, contactless technology, authentication and identification, traceability of uses, acceptability [335,000 €]**
-  ➤ **Automatic classification and annotation of scanned documents [340,000 €]**
-  ➤ **Connected factory of the future [350,000 €]**
-  ➤ **Robotics and reliable industrial transit [350,000 €]**

**2 years**

**➤ 2.735 M€**

**2005 : national labelling for competitiveness clusters**

**2006 : joined Tech Transfer Office**

**2007 : Innovergne Comitee**

**2009 : regional labelling for excellence clusters**

**2013 : RIS3 + ERDF Operational program**

**2014: Research, Higher Education & Innovation plan**

**2015 : CODEPPA**



**Entrepreneur Grants**

**Innovation Grants (entrepreneurs, tech transfer)**

**Research Grants for sectors**

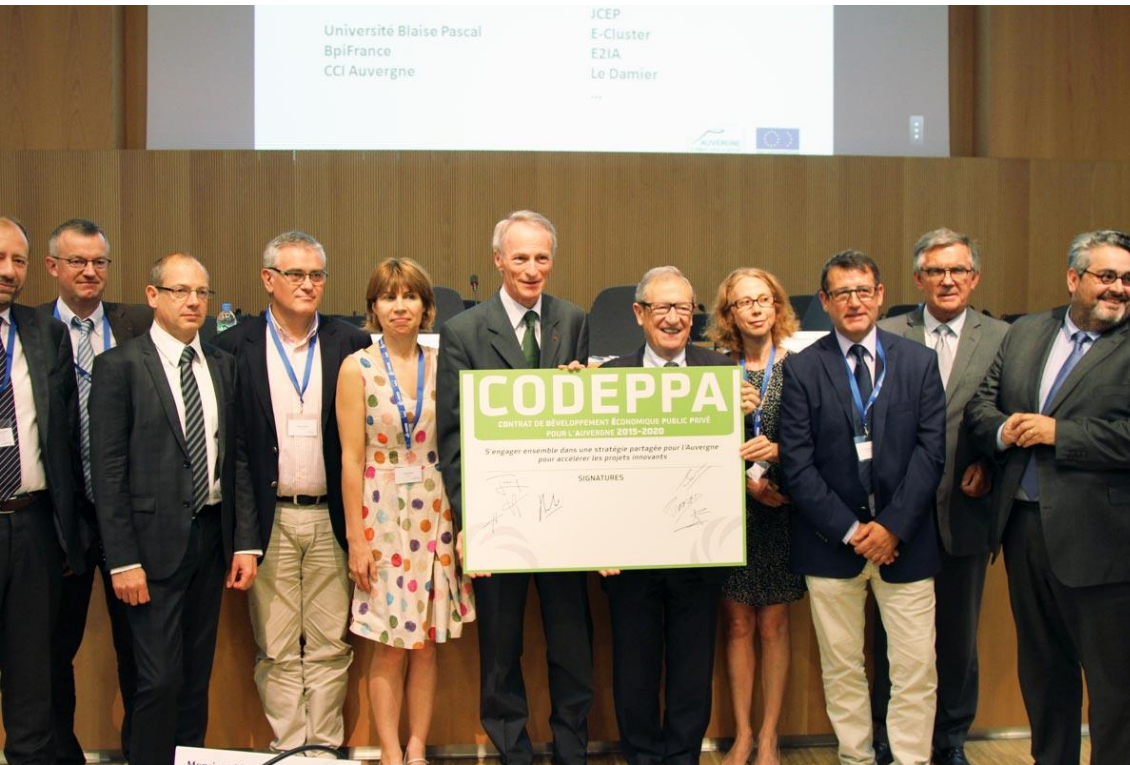
**Research Grants for clusters**

**RIS3 sourcing**





# Governance of the RIS3



## ✓ **CODEPPA**

(contrat de développement économique public/privé)

= public/private agreement for economic development

Signed July 9<sup>th</sup> 2015

✓ **Public stakeholders**: Regional Council, Universities, Economic Chamber, BPI (national public bank for investment), Business school

✓ **Private stakeholders**: Michelin, Limagrain, Almerys + the 11 clusters

# Governance of the RIS3

## ✓ Steering committee of the RIS3:

Composition : members of the CODEPPA

President(s) : Regional Council President + Michelin President

Role : global strategy + global project monitoring

## ✓ Technical committee of each SIS :

Composition : clusters, industrial, academics and institutional

Role : detection, selection and coordination of projects

# Governance of the RIS3

## ✓ Steering committee of the RIS3:

Composition : members of the CODEPPA

President(s) : Regional Council President + Michelin President

Role : global strategy + global project monitoring

## ✓ Technical committee of each SIS :

Composition : clusters, industrial, academics and institutional

Role : detection, selection and coordination of projects



**New knowledge production**



?

**Infrastructure investments**



*territorial planning*

**Governance simplification**



**Smart specialisation**



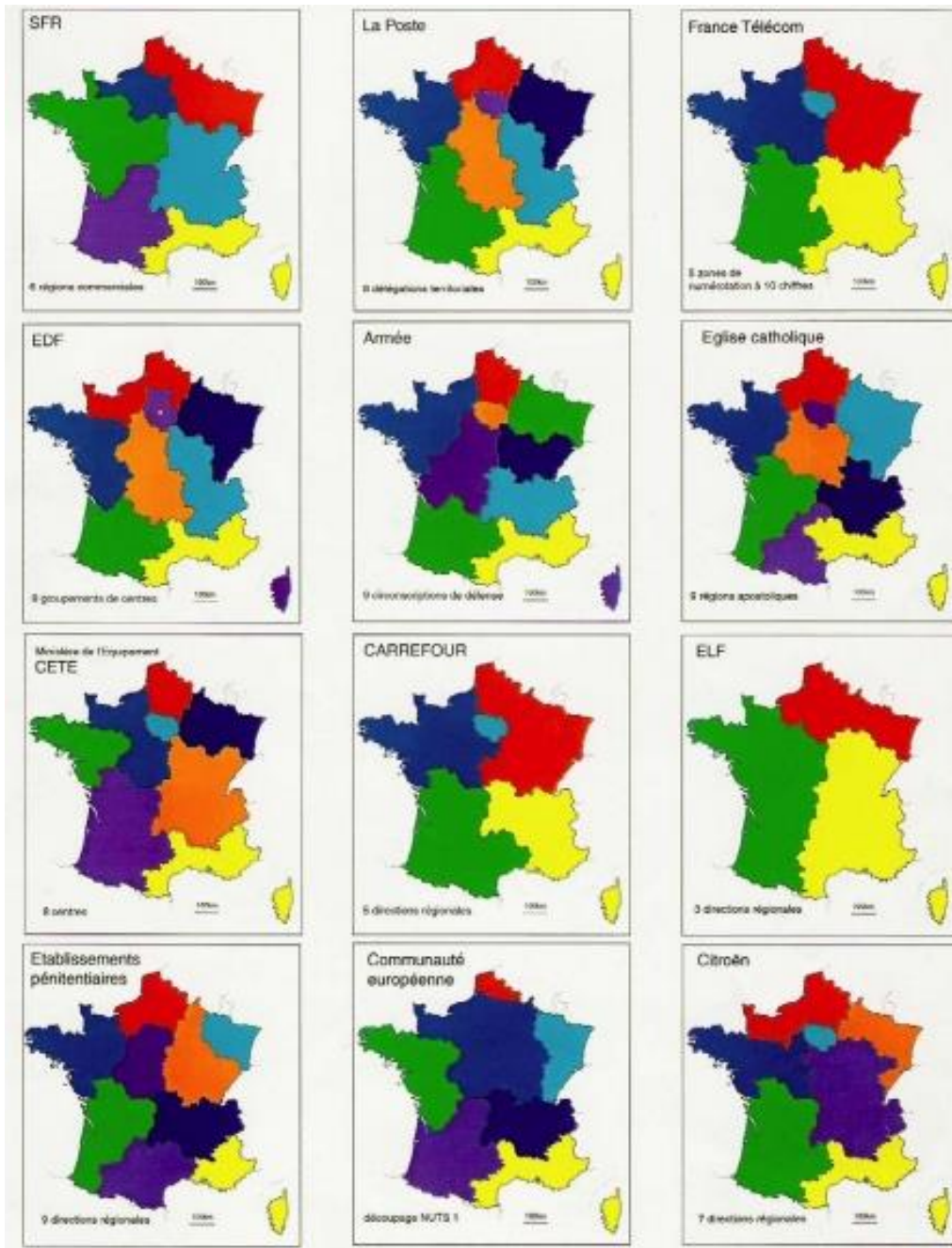
*8 hubs of excellence*

**Clusters scope and influence**



?

**MERGER MERGER MERGER MERGER MERGER**



French creativity?

there are so many different territorial organizations...

Innovation must go on!



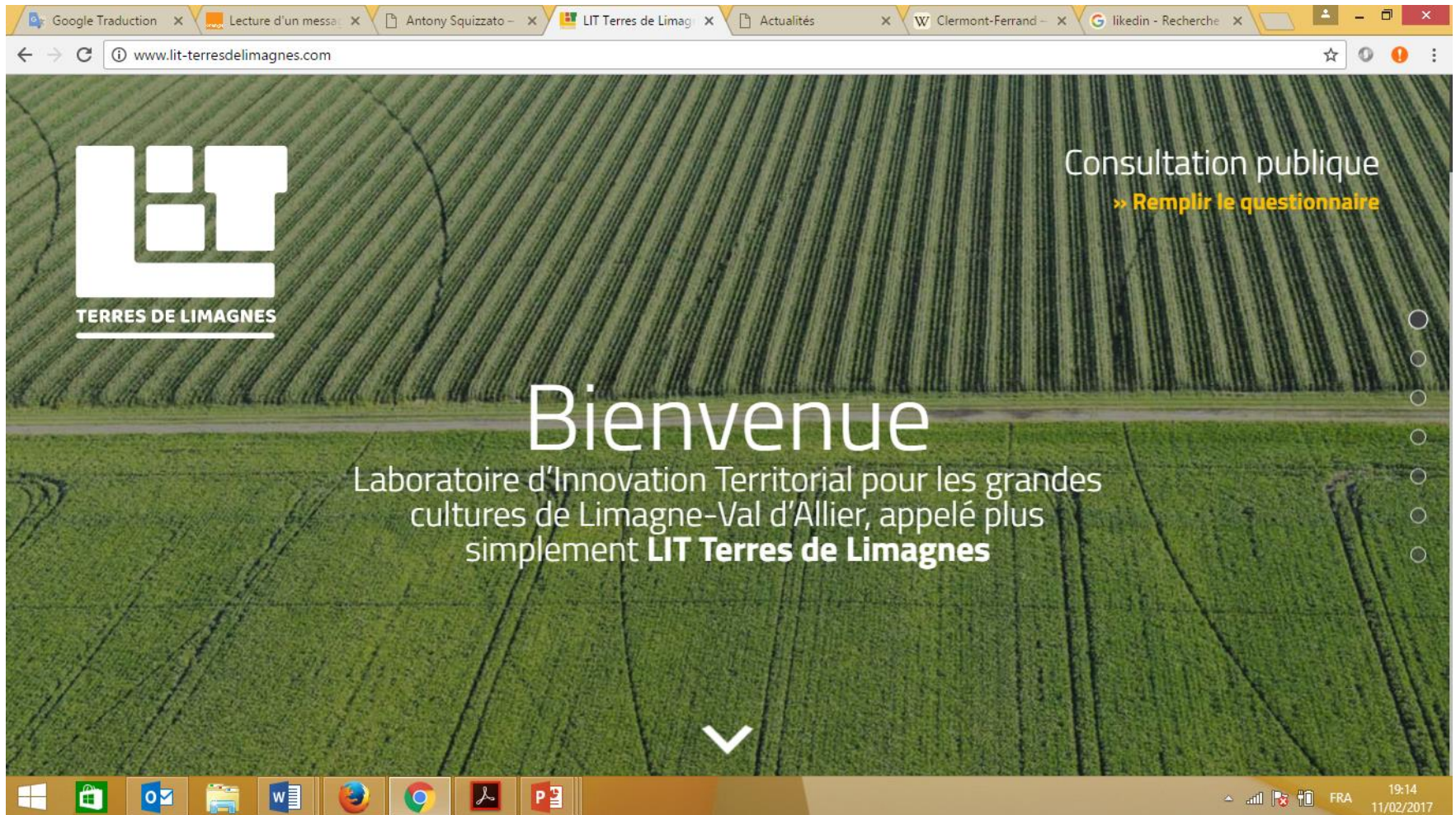
# New Models for Innovation ! February 11<sup>th</sup> 2017 : FACTOLAB [joint lab Michelin]





# New Models for Innovation !

## March 2016 : Living lab for cereals



The screenshot shows a web browser window with the URL [www.lit-terresdelimagnes.com](http://www.lit-terresdelimagnes.com). The page features a large background image of a green agricultural field. In the top left corner, there is a logo for "TERRES DE LIMAGNES" consisting of a stylized white 'L' shape. In the top right corner, the text "Consultation publique" is displayed in white, with a yellow link below it that says "» Remplir le questionnaire". In the center of the page, the word "Bienvenue" is written in a large white font, followed by the text "Laboratoire d'Innovation Territorial pour les grandes cultures de Limagne-Val d'Allier, appelé plus simplement LIT Terres de Limagnes" in a smaller white font. A white downward-pointing arrow is located at the bottom center of the page. The browser's taskbar at the bottom shows various application icons and the system tray with the date "11/02/2017" and time "19:14".











# CLUSTERIX 2.0

Interreg Europe



European Union  
European Regional  
Development Fund

Virginie SQUIZZATO – Charlotte LEGRAND

Brussels, February 14<sup>th</sup> 2016 | ClusteriX 2.0 4<sup>th</sup> meeting