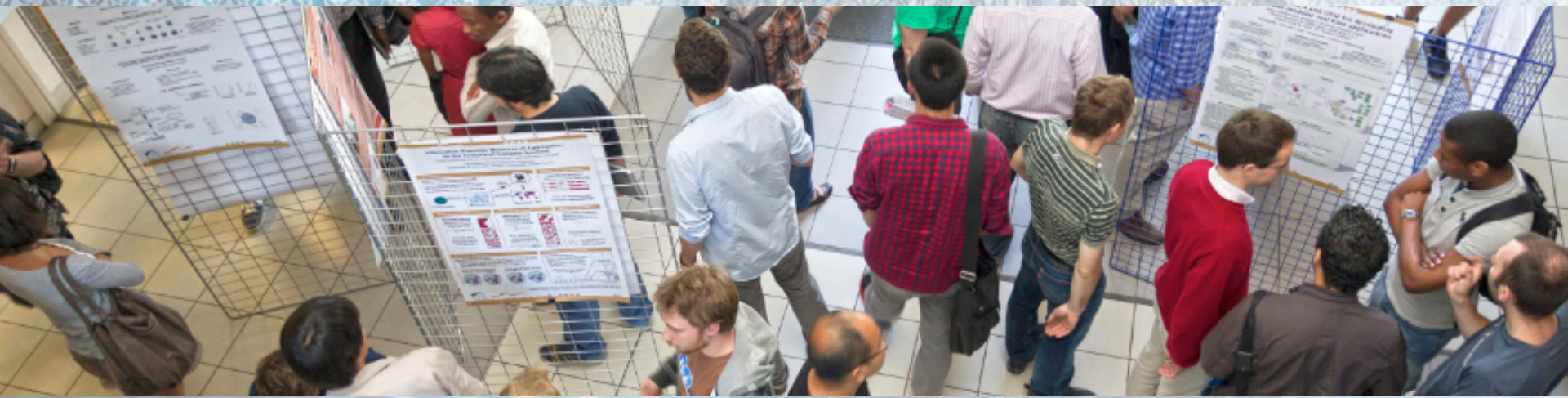




# LIG in 5'



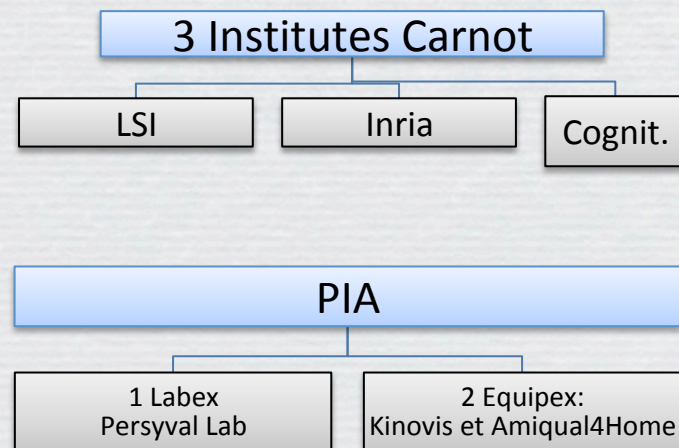
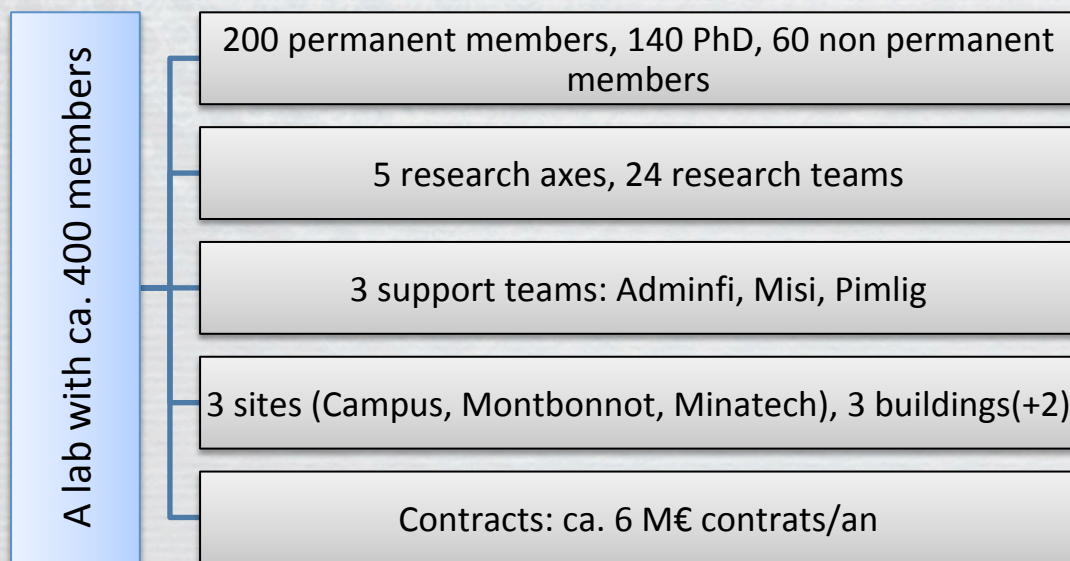


# Laboratoire d'Informatique de Grenoble (UMR 5217)



◆ Direction:

- ▶ **E. Gaussier**, G. Calvary, N. de Palma ; P. Poulet





# Our positioning

## *Human Digital Ecosystems*

The science of **languages/models/algorithms** & the science of **data/information/knowledge**

From uncertain, multiform, large and numerous data sources

- ▶ Capture multiple points of view, models, methods
- ▶ Acquire, communicate, represent, process, reconstitute
- ▶ Understand and deal with complex systems

LIG objectives: (1) **Fundamental science**, (2) **Scientific evolution** widely opened to **other disciplines**, (3) Emerging new **services**, **interactions** and **usages**

Joint international “labs”: JRC Data Science (Australia), LIA LICIA (Brazil), UMI LAFMIA (Mexico), IPAL (Singapore)

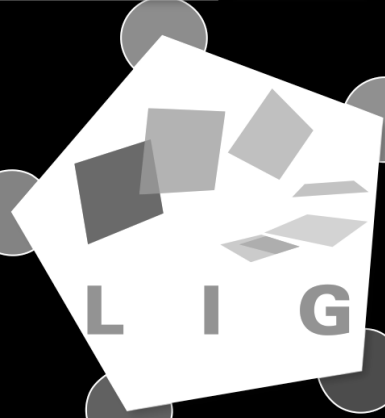


# 5 research axes

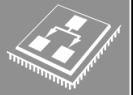
Data and Knowledge Processing  
at Large Scale



Software and Information  
System Engineering



Formal Methods, Models,  
and Languages



Interactive and  
Cognitive Systems



Distributed Systems, Parallel  
Computing, and Networks





# Experimental platforms

## ◆ FABLAB MSTIC:

- ▶ Created in May 2013
- ▶ Above 100k€ investment (LIG, CNRS, Amiqua4Home, Persyval)
- ▶ Above 110 prototypes: IoT, CHI, robotics, ...
- ▶ Users: laboratories (10), engineering schools and UFR (4), startups (3)



Sonde rosetta +  
impression 3D comète  
(IPAG CNRS-UJF)



SmartCampus +  
trophée objets  
connectés (POLYTECH)



Support dispositif  
médical (TIMC)

## ◆ DOMUS platform

- ▶ Experimental platform with « in vivo » experiments
- ▶ Short to medium term experiments (long term @ AMIQUAL4HOME)
- ▶ Living Lab



Supports expérimentaux IHM

## ◆ Equipex AMIQUAL4HOME

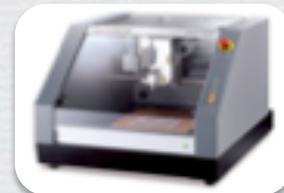
- ▶ Experimental apartment & fablab
- ▶ Related to FabMSTIC & DOMUS
- ▶ Strong focus on industries



Imprimante 3D



Découpe Laser



Micro Fraiseuse



**Thank you for your attention....**  
**More on [www.liglab.en](http://www.liglab.en)**