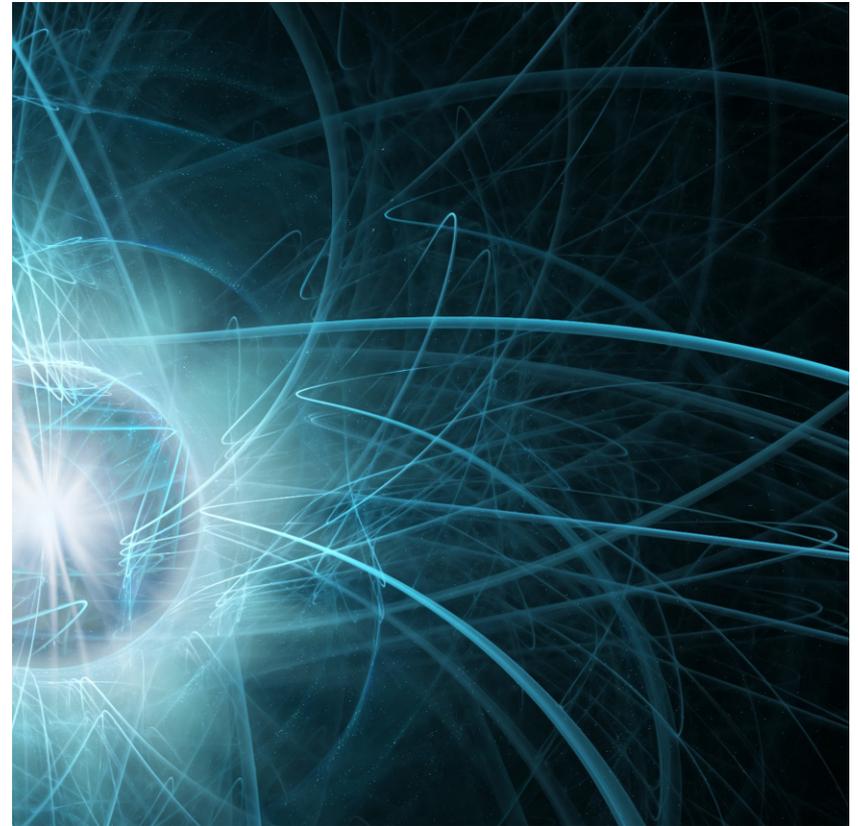


**Kick Off Meeting**

**Paris-Saclay Center for Data  
Science**

**June 30, 2014**



**Campus Paris Saclay**

FONDATION DE COOPERATION SCIENTIFIQUE

# THE PARIS-SACLAY INITIATIVE :

## A SHARED AMBITION

1. **fight fragmentation of research and higher education**
2. **bridge the innovation deficit**
3. **build an *international showcase associating Campus life with research, education, and socio-economic impact at highest international level***

**➔ Paris-Saclay University**

# Paris-Saclay Initiative : partner institutions



A strong center for research and higher education developing since the early 50<sup>es</sup>, with many major French players ...

*... attracting new top players after 2010 French Government decision*

**By 2018, 22 prestigious partner institutions will be based in Paris-Saclay perimeter :**

- **2 universities** (including top French university in Shanghai ranking : Paris-Sud)
- **1 Ecole Normale Supérieure** (training higher education professors and researchers)
- **10 Grandes Ecoles** (engineering and business, among the top ranked in France)
- **6 National Research organizations** and Research Institutes
- a world level **competitvity cluster** : Systematic (on IST)
- a **large scale synchrotron facility** : SOLEIL
- a **joint institution as leader** : the scientific cooperation foundation : FCS Campus Paris-Saclay

# Academic Buildings and infrastructures in the Saclay area



Doseo  
2014

Neuro Sciences  
2017



ENS Cachan  
Start of construction 2015



EDF Campus and R&D  
2015



Mines-Telecom ParisTech  
2018



Digiteo2  
2015



Cilex  
2015



I2BC  
2017



- On-going projects
- Existing buildings
- Grand Paris subway
- RER B
- Bus



Ecole Centrale Paris  
2017



Institut des Sciences Moléculaires  
2015  
CPMR  
2017-2018



C2N  
2017



ENSAE ParisTech  
2016

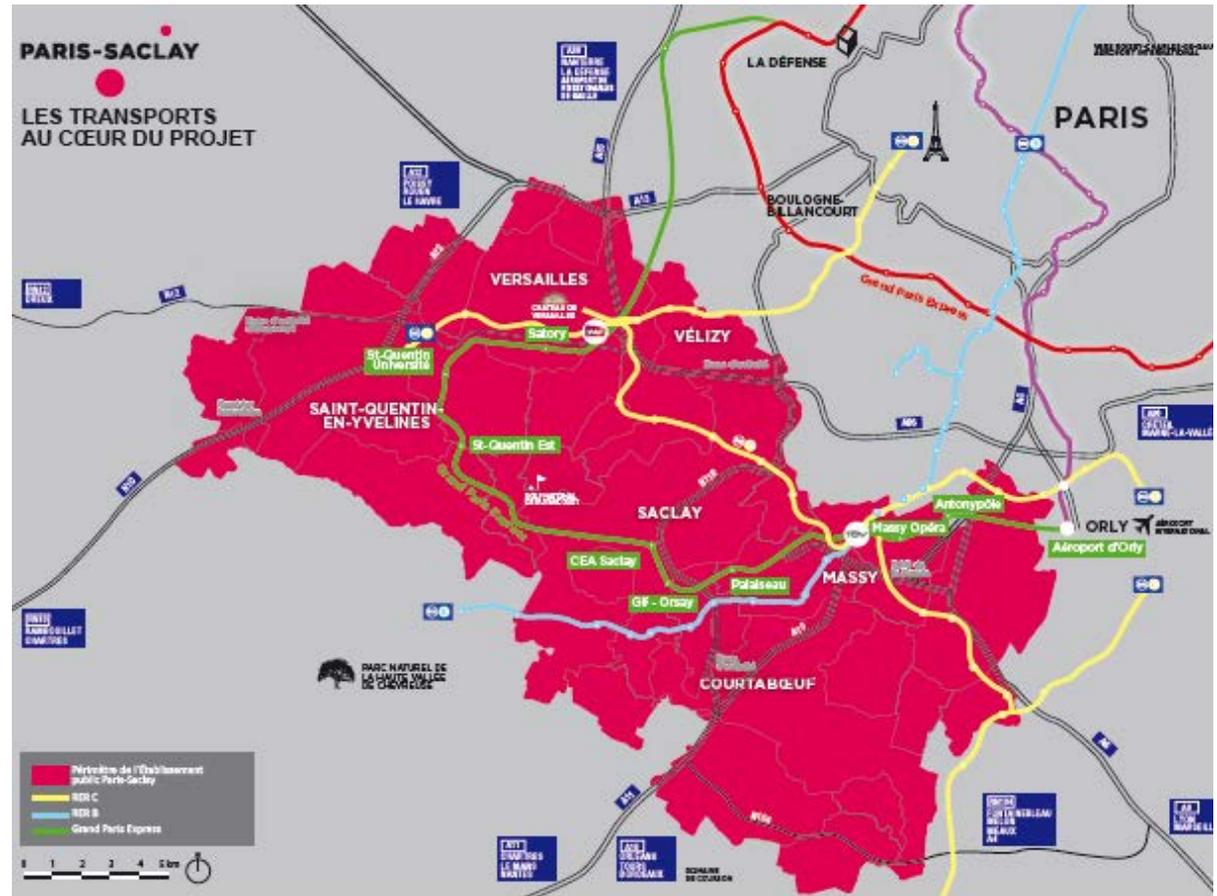


Laboratoires Polytechnique  
2015

# Paris-Saclay Cluster key success factor : fast transport to Paris and Orly airport

- ✓ **by 2015** : high flow buses from Versailles to Massy/RER-TGV
- ✓ **by 2023** : light automatic train connection from Saclay to Massy RER/TGV  
*< 10mn Saclay to Massy*  
*< 30mn cross campus*
- ✓ **by 2030** : light automatic train from Versailles to Orly and then Roissy  
*< 10 mn Versailles to Saclay*  
*30 mn Saclay to Paris*

*several B€ of State funding*



# What Paris-Saclay is doing to encourage interdisciplinarity

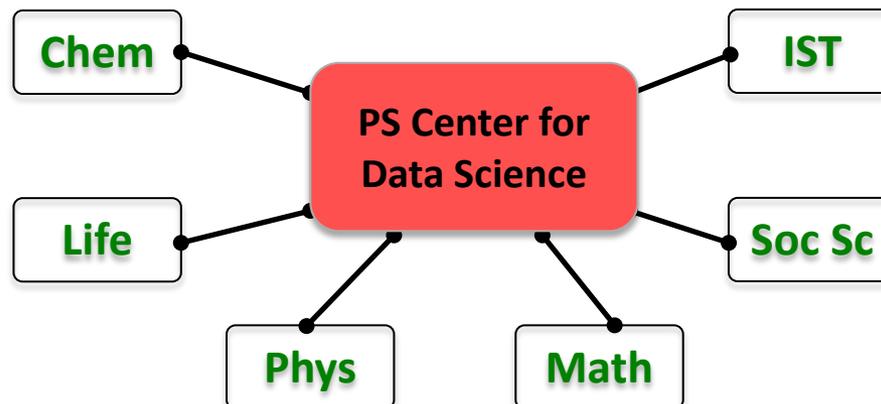
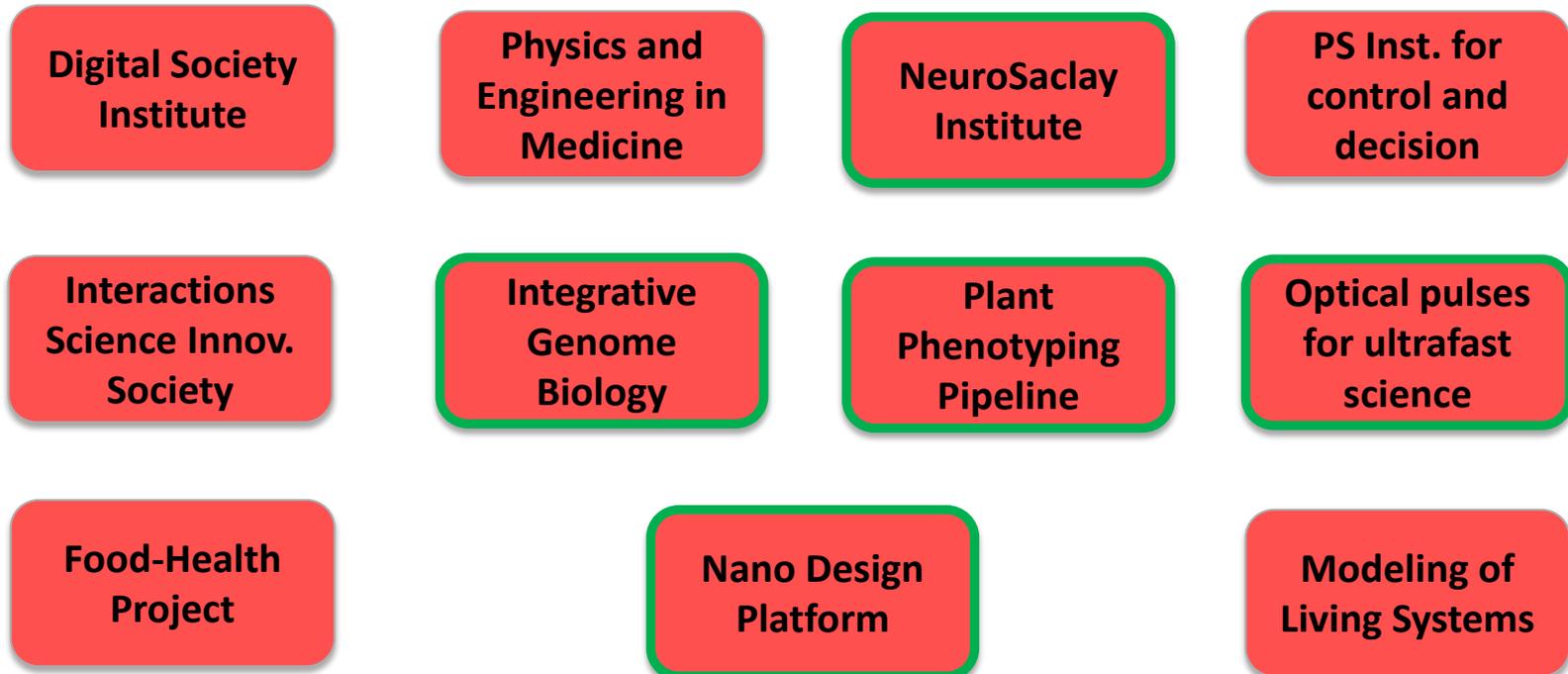
In training:

- broader masters, interdisciplinary masters, fellowships for foreign students
- 30 Ph.D. fellowships per year for interdisciplinary work
- Interdisciplinary doctoral school
- *Upcoming*: interdisciplinary summer schools

In research:

- seed funding for interdisciplinary collaborations
- networking of projects across at least 2 disciplines
- inter-department coordination of emerging themes

# The twelve IDEX projects (2013-2014)



# At least two different motivations behind CDS:

- Response to the data deluge and data challenge, in all different disciplines (this conference, Paris-Saclay project as a whole)
  - Biology, bioinformatics
  - Health sciences
  - Modelling
  - Post-processing and visualization tools
  - Planetary science
  - Cosmology
  - Search
  - Marketing, engineering sciences
  - Music information retrieval
  - particle physics,...
  
- Need to bring a Paris-Saclay global and coherent approach (efficiency, attractivity)

# « Big Data » and « Data science » :

an exemple of a major asset that needs a global and coherent approach :

- ✓ In the Paris-Saclay perimeter:
  - 2 Equipex : CASD, Digiscope
  - 2 Labex : ECODEC, DigiCosme
  - 2 Lidex : Data Science et ISN
  - 1 IRT : SystemX
  - Many initiatives by Paris-Saclay members (chairs)
  - A center to promote the efficient use of HPC : Maison de la simulation
  - Two unique national supercomputing ceters : Idris, CEA
- ✓ A new and ambitious master offer

## Key issues :

- Which common approach, which strategy and goals (research, teaching technological transfer)
- Global coherence and optimisation of the local plan
- Which future plan
- Which infrastructures and which evolution (DataCenter, HPC, Visualization etc. )



**Thank you for your attention**

**Hope you'll enjoy the meeting**

**Good luck and long life to CDS**