

Paris-Saclay





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# **IDEX** Paris-Saclay **Trajectory University Paris-Saclay IDEX Paris-Saclay** Reaching a hard-fought, detailed, ambitious agreement

The Université Paris-Saclay



THE ENGINE AND DRIVER OF THE TRANSFORMATION



# **Drastic changes in the proposal** from preselection to selection

## Pre-selection proposal: Confederal university

- Diploma labelled by the University
- Legal structure : FCS

## New proposal : Integrated university

- Diploma delivered by the University
- Legal structure : EPCS

A turning point passed in beginning of January 2012 with the commitment of all institutions (Letters of commitment)



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**Trajectory** 

- «Grandes écoles d'Ingénieurs»
   in an «Alliance for Integrative research»
- Human ressources managed by each Institution

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- Diploma delivered by the University
- Legal structure : EPCS
- A School of **Engineering** part of a global organization
- Human ressources: a joint strategy of the university

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- «Grandes écoles d'Ingénieurs»
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- Human ressources managed by each Institution
- NROs contract with each institution
- Institutions negotiate their State budget individually

## New proposal: Integrated university

- Diploma delivered by the University
- Legal structure : EPCS
- A School of **Engineering** part of a global organization
- Human ressources: a joint strategy of the university
- NROs contract with the university
- State budget is first discussed at the university level

A turning point passed in beginning of January 2012 with the commitment of all institutions (Letters of commitment)

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Building an integrated research university

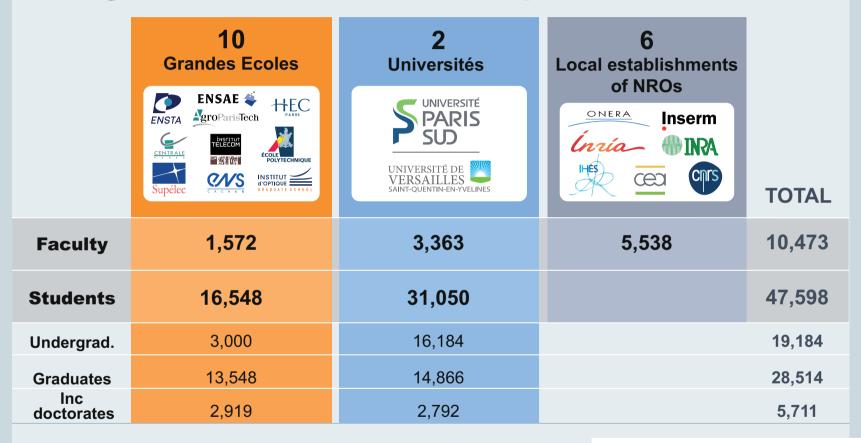
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# The starting point: a fragmented academic landscape



- Two education pathes of the same importance at the Graduate level
- When added the figures are clearly those of a Research University

Trajectory



#### A new organization scheme: the 6 Schools

Basic entities: the new university is mapped by 6 Schools, inter-establishments structures in charge of organizing research and education in a given scientific areas

**School of Basic Sciences** 

**School of Life Sciences** 

**School of Engineering** 

**School of Medicine** 

**Business School** 

**School of Economy**and Social Sciences

Researchers, Faculty, staff and laboratories are attached to a single school, irrespective of their affiliation to partners.

#### A new organization scheme: the 6 schools



Pr. B. Ramanantsoa, Dean of HEC Paris

University Paris-Saclay

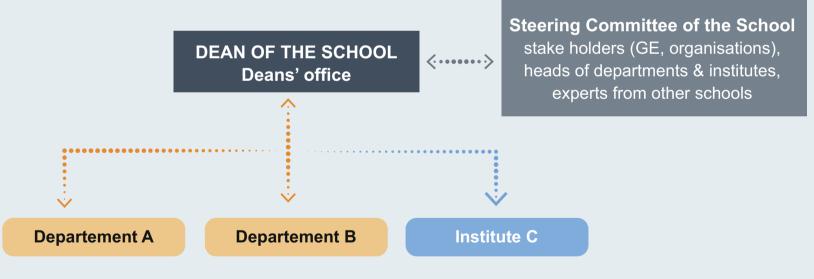
#### A new organization scheme: basic principles

**6 Schools**, inter-establishments structures in charge of organizing research and education in a given scientific areas

**Departments, Institutes**: sub-division of schools, in charge of organizing disciplinary research and education (Master, PhD)

#### A new governance

Trajectory



#### Transverse actions under the global governance

Research

**DEAN OF RESEARCH** 

Schools Interdisciplinary Programs (LABEX, Networks) Interdisciplinary Research Institutes Board of Research (Dean of the Schools, Head of Int. Institutes and Networks)

**Education** 

**DEAN OF THE FACULTY** 

A single Doctoral College + interdisciplinary Program

A single organization of Masters

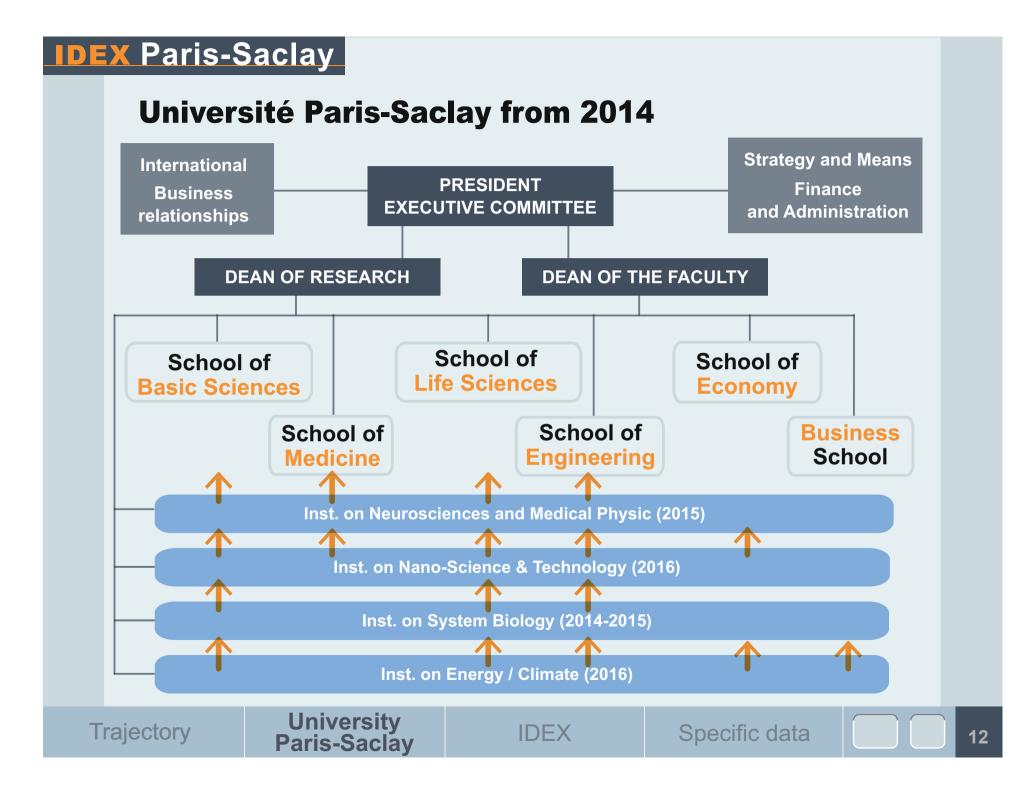
A single organization for Undergraduate studies

Dean of the Graduate Studies

Dean of the Undergraduate Studies

International affairs, Commercialization and business relationships

Single entry points in administrative offices



### 4 key examples of transformation

Shaping our future: Human Resources

**Boosting research** in the Biology / Chemistry / Health area

A major step forward: the School of Engineering

A new landscape : integrating **National Research Organizations in the university** 

#### **Human Resources: process**

**Action and Means Strategic Plan** The Faculty defines an academic position **Description sent to the Steering Committee of the School The Steering Committee** appoints the Selection Committee **The Selection Committee** organizes interviews and seminars

> **The Selection Committee** votes on nomination

Recommandation sent to Senate of the University

The Senate votes on nomination Convergent Convergence Committee vote? **Approved** Nomination by UPS President declined Yes To ensure that academic employees are capable of implementing the **Appointment by** university's strategy **Executive Director** to become of Human resources an international university

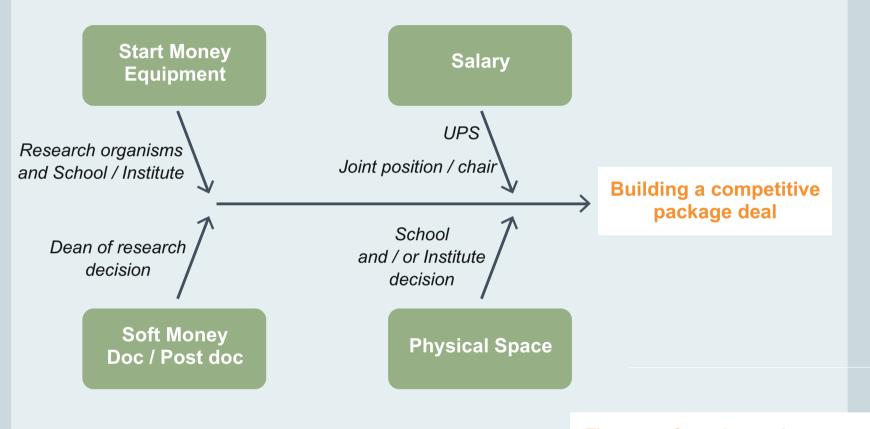
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#### **Human Resources: building a package deal**



The case of an advanced young scientist at the interface between Physics and Biology:
1.2 M€ + position + salary complement

#### The Biology / Chemistry / Health scientific field

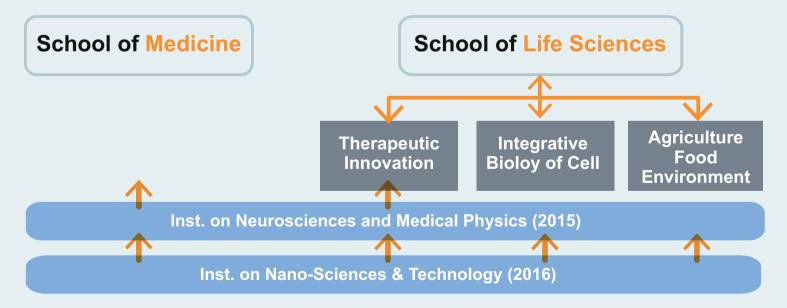
#### Implementing together an ambitious strategy:

invest strong, focused effort to meet today's requirement for

- Organisation on large coordinated projects
- Large interdisciplinary content

#### Focus coordinated teams on 3 major challenges

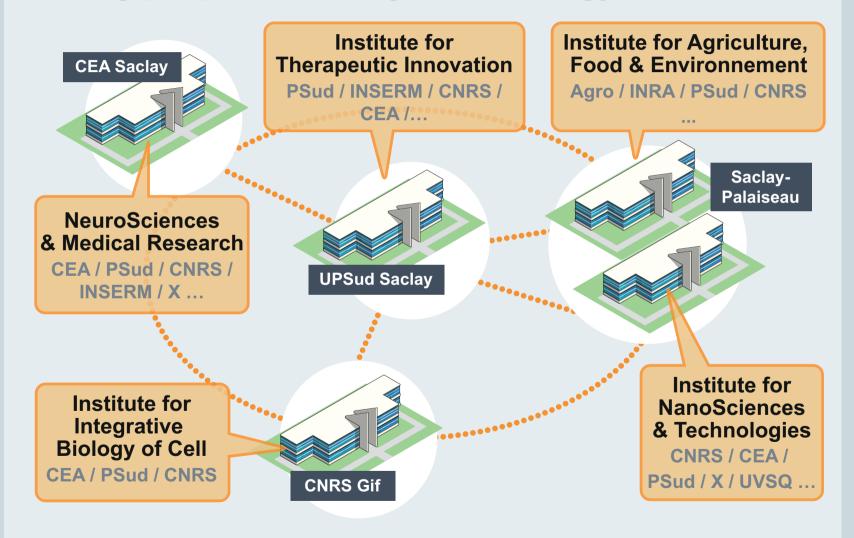
- Mutualize: "Committee for technical platform" under the governance of the School
- Bridge Biological and Medical research to Physics, Maths and Engineering:
  - in creation: Inst. on NanoSciences, Neurosciences
  - next : Institute on System Biology



# Life Sciences: moving people within a global strategy

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# Life Sciences: moving people within a global strategy



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Pr. Couarraze, President of Université Paris-Sud (discussing with X. Michel, Directeur Général of Ecole Polytechnique)

#### The School of Engineering

The Engineering Grandes Ecoles merge into a single Saclay School of Engineering

#### **Members of the School**

The Institutions delivering the "Diplôme d'Ingénieur"

**ENS Cachan** 

Centrale



Institut Télécom





**ENSTA** Polytechnique Supélec

Paris-Sud









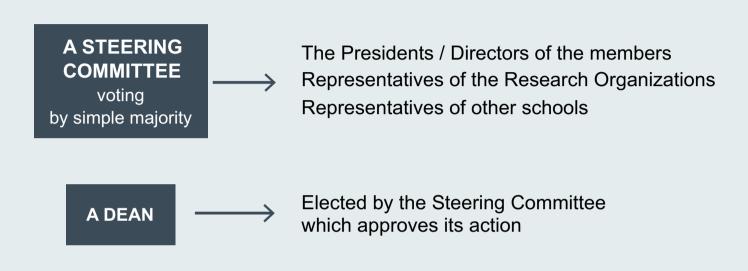
The other Saclay Grandes Ecoles are members of:

- the School of Life Sciences: AgroParisTech
- the School of Economy and Social Sciences: ENSAE

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- the Business School: HEC

#### **The School of Engineering: governance**



**A Strategic Committee** and **A Scientific Committee** 

→ With a balanced external representation in each

#### The School of Engineering: strategy

**Scientific Fields** (broadly)

**Engineering Sciences** 

**Information and Communication Science & Technology** 

**Strategy** 

**Scientific Strategy** 

To promote integrative research in the UPSa

To develop Bio-Engineering and System Science

**Development Strategy** 

To increase the number of graduate engineers, of doctoral students and of engineers going to the PhD

To increase funding from the companies

Milestone: conclusion of an agreement between partners by September 2012

### **The School of Engineering**



X. Michel, Directeur Général of Ecole Polytechnique

#### **National Research Organisations: Key members**

National Research Performing Organisations (RPO's) in Saclay

More than 50% of the university Faculty

#### The most important site for



CEA with 5000 People (2089 researchers)



CNRS with 3000 people (1970 researchers)



#### From the most advanced research to applications



Energy, Climate, I.T.



Inserm

I.T.



Basic research, multidisciplinary



Medical



Food and Agriculture

**Aerospace** and Defense

#### **National Research Organisation integrating the University**

- Open their own research sites and integrate them in the university campus
  - The CNRS site becoming the UPS « Institute for Integrative Biology of Cell » delivering reseach and training
- Change their organisation when needed to better integrate the University
  - Members of the schools and of the Institutes Moving entire labs
- Move their staff into new premises shared with other members of the University

  Common institutes
- Encourage their staff to partipate more to the training activities
- Share the common Human Resources strategy

# **National Research Organisations: Strategic commitments**

Participation to the governance at two levels

Governance of the University

Governance of the Schools and the Institutes

Concerted local and national RPOs strategies

Location of key competences
Initiatives in line with their National responsabilities

Means and funding provided by the RPO's negociated at the University level

# **IDEX** Paris-Saclay **Trajectory University Paris-Saclay IDEX Paris-Saclay** our IDEX as the engine and driver of the transformation

The Université Paris-Saclay



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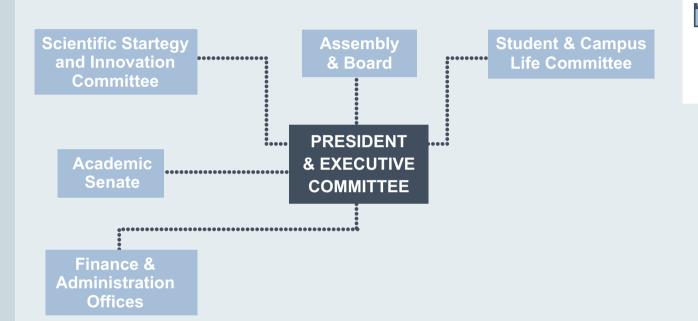
## The IDEX as the engine and driver of the transformation



	lacksquare								
	2012		20	13	20	14	20	15	
	<b>S</b> 1	<b>S2</b>	<b>S</b> 1	S2	<b>S</b> 1	S2	<b>S</b> 1	S2	
Governance and legal statues	4								
Schools and departments	3	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3							
Actions & Means Strategic Plan									
Research	4	5							
Education			<u>(</u>			7			
International / Industry	8	9)							
Campus Life			1	<u>p</u>			1		
1 IDEX governance complete and moved to	o a centr	al building							
2 Start of Université Paris-Saclay under EP	CS statu	ıte							
3a Preliminary agreements of partners	3b All	schools a	nd depart	ments set	-up				
4 All selected LABEX started 5 IDE	EX LABE	X started							
6 Masters and Doctoral plans filed to MESF	7	7 Op	eration st	arted					
Business relationships and International	Offices	9 Inc	lustry Clu	b opened					
10 Opening of first new accomodation faciliti	es	11 Le	arning Ce	nter					
	Schools and departments  Actions & Means Strategic Plan  Research  Education  International / Industry  Campus Life  1 IDEX governance complete and moved to 2 Start of Université Paris-Saclay under EP  3a Preliminary agreements of partners  4 All selected LABEX started 5 IDE 6 Masters and Doctoral plans filed to MESE 8 Business relationships and International	Governance and legal statues  Schools and departments  Actions & Means Strategic Plan  Research  Education  International / Industry  Campus Life  1 IDEX governance complete and moved to a central Start of Université Paris-Saclay under EPCS status  3 Preliminary agreements of partners  4 All selected LABEX started  5 IDEX LABE  6 Masters and Doctoral plans filed to MESR	Governance and legal statues  Schools and departments  Actions & Means Strategic Plan  Research  Education  International / Industry  Campus Life  1 IDEX governance complete and moved to a central building 2 Start of Université Paris-Saclay under EPCS statute 3a Preliminary agreements of partners 3b All schools and 4 All selected LABEX started 5 IDEX LABEX started 6 Masters and Doctoral plans filed to MESR 7 Op 8 Business relationships and International Offices 9 Indiana.	Governance and legal statues  Schools and departments  Actions & Means Strategic Plan  Research  Education  International / Industry  Campus Life  1 IDEX governance complete and moved to a central building  2 Start of Université Paris-Saclay under EPCS statute  3a Preliminary agreements of partners  4 All selected LABEX started  5 IDEX LABEX started  6 Masters and Doctoral plans filed to MESR  7 Operation st  8 Business relationships and International Offices  9 Industry Clu	Governance and legal statues  Schools and departments  Actions & Means Strategic Plan  Research  Education  International / Industry  Campus Life  1 IDEX governance complete and moved to a central building  Start of Université Paris-Saclay under EPCS statute  3a Preliminary agreements of partners  4 All selected LABEX started  5 IDEX LABEX started  6 Masters and Doctoral plans filed to MESR  7 Operation started  8 Business relationships and International Offices  9 Industry Club opened	Governance and legal statues  Schools and departments  Actions & Means Strategic Plan  Research  Education  International / Industry  Campus Life  1 IDEX governance complete and moved to a central building  2 Start of Université Paris-Saclay under EPCS statute  3a Preliminary agreements of partners  3b All schools and departments set-up  4 All selected LABEX started  5 IDEX LABEX started  6 Masters and Doctoral plans filed to MESR  7 Operation started  8 Business relationships and International Offices  9 Industry Club opened	Governance and legal statues  Schools and departments  Actions & Means Strategic Plan  Research  Education  International / Industry  Campus Life  1 IDEX governance complete and moved to a central building  2 Start of Université Paris-Saclay under EPCS statute  3a Preliminary agreements of partners  3b All schools and departments set-up  4 All selected LABEX started  5 IDEX LABEX started  6 Masters and Doctoral plans filed to MESR  7 Operation started  8 Business relationships and International Offices  9 Industry Club opened	Governance and legal statues  Schools and departments  Actions & Means Strategic Plan  Research  Education  International / Industry  Campus Life  1 IDEX governance complete and moved to a central building  2 Start of Université Paris-Saclay under EPCS statute  3a Preliminary agreements of partners  3b All schools and departments set-up  4 All selected LABEX started  5 IDEX LABEX started  6 Masters and Doctoral plans filed to MESR  7 Operation started  8 Business relationships and International Offices  9 Industry Club opened	

#### **Gouvernance: the Foundation**

IPS will be the engine and driver of the transformation, building on current FCS operational structure and prefigurating the future Université Paris-Saclay.



Janv. 2012 : FCS

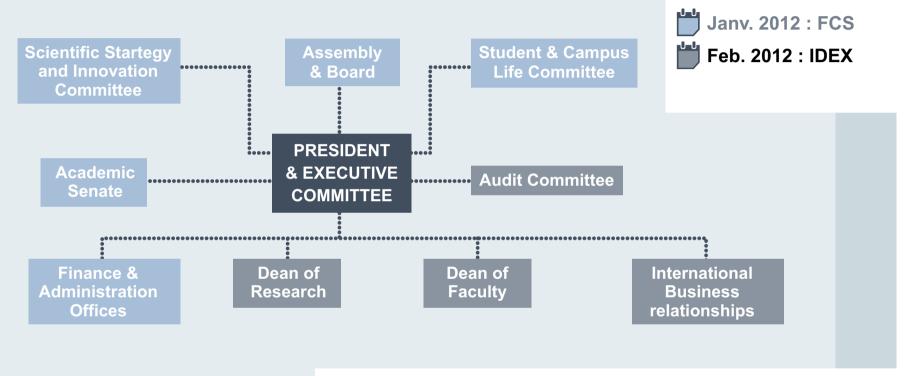
FCS Governance already operational, with circa 15 people working for the Campus development and the LABEX & RTRA management.



Trajectory

#### **Gouvernance: IDEX**

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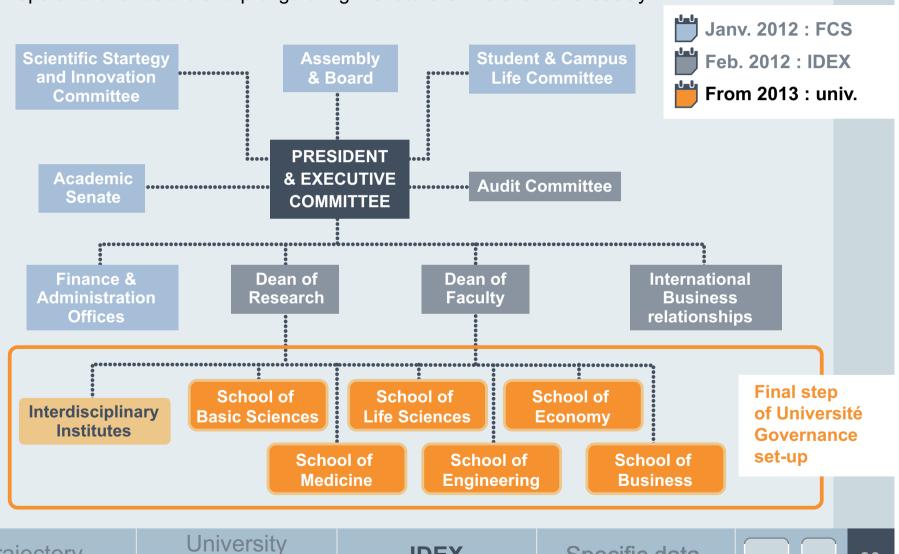
#### Key personnel to start the project

- 5 high profile people, to head the main actions of the project under the direction of the present FCS governance,
- expand FCS support staff to assist the IDEX (10 to 35 people)

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#### **Setting up the governance**



	2012		2013		2014		20	15
	<b>S</b> 1	S2	S1	S2	<b>S</b> 1	S2	<b>S</b> 1	<b>S2</b>
Recruiting of key personnel	1							
Writing EPCS statute and rules			2					
Recruiting a President				5				
Schools and Departments								
Education								

- IDEX governance complete and moved to a central building
- EPCS statute and rules filed for approval by French State
- Search committee established
- List of laureates set up by the search committee
- President recruited
- Preliminary agreement signed by the members
- The global governance of the university is complete and moved in a central building

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#### **Creating an identity**

**Headquarters** for the governance

**Graphic Chart: January 2013** 

Mid-April, 2012

Moving to the 1rst University

Paris-Saclay headquarters

Signature of publications within the perimeter of excellence : immediately

for all: January 2014

Single student card : Septembre 2014



#### **Financial Matters: funding the transformation**

**Capital grant requested** € 1 230 millions ( € 42 millions/year)

> **Focus IDEX funds** on critical initiatives

**LABEX:** immediate projections of the university research strategies at best international level, within schools or interdisciplinary

Actions transverse to establishments, disciplines:

Develop attractivity for international students at M1 level (grants)

**Foster Innovation** 

Recruit scientific leaders to support the university global strategy

Set up an efficient university and schools governance

Recruiting a few outstanding leaders

Mutualizing services around the best of our partners

**Mutualize partners** funds to support global strategy

Trajectory

**National Research Organization contract at university level** Ultimately, State will contract at university level



Academic Senate dec. 6th, 2011

« The scientific community wishes to recall collectively and strongly the importance it attaches to the project of Université Paris-Saclay and to its full completion. The project will decisively contribute to the international recognition of the Campus, and to its organization at the highest level. In this prospect, the scientific community is very happy to see the dynamics already engaged...»



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Specific data



#### Research



- Dean of Research recruited and central governance set up
- 2 Start of Université Paris-Saclay under EPCS statute
- 3 Preliminary agreement signed by the members to organize the schools
- 4 The Research Board ready to operate under above agreement
- 5 All selected LABEX started &

- 6 all IDEX-LABEX launched
- Institute for Neurosciences and Medical Physics, &
- 8 Nanosciences

System Biology network launched,

- 9b to become an Institute
- 10 Innovative Materials and Bio-Technologies (with Univ. Evry) networks launched

#### **Education**



	2012		2013		2014		2015	
	<b>S</b> 1	S2	S1	S2	S1	S2	<b>S</b> 1	S2
Setting up a governance	4		3					
Elaboration the academic proposition		4		5) (				
Official dates								

- 1 Deans of the Faculty, Graduate School and Undergraduate Studies recruited
- 2 Preliminary agreement signed by the members on the participation to schools
- 3 Mapping of the School in departments agreed
- 4 First proposition of M and D organization, &
- 5 final proposition filed with the State

- 6 Academic book of the university
- 7 Official start of the university
- 8 Official start of the university university academic programs

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# The School of Life Sciences: process and agenda



	20	2012		2013		2014		15
	S1	<b>S2</b>	<b>S</b> 1	S2	S1	S2	<b>S</b> 1	S2
Governance					2			
Research : global	3	4						
Research : technical platforms	<u>5a</u>	5	þ			5	Ç	
Education				6 7				
RH	9	a						9b

- 1 Preliminary agreement signed by the members, Dean elected
- 2 Official foundation of the School and its departments
- 3 Strategy of the School finalized &

- mapping of the School departments agreed
- 5a Committee for technical platforms created
- 5b 1rst report, final action
- 5c

- 6 Academic book of the university
- Mapping of the Doctoral Schools and Master's Program
- 8 Harmonization of the engineering area of concentration
- Definition of the search and recruitment process, &
- 5c at least 4 leaders recruited

# **School of Engineering: Process and Agenda**



	2012		2013		2014		20	15
	<b>S</b> 1	S2	<b>S</b> 1	S2	S1	S2	<b>S</b> 1	<b>S2</b>
Governance								
Research		) (	4					
Education				6				
RH								

- 1 Preliminary agreement signed by the members
- 2 Official foundation of the School and its departments
- 3 Strategy of the School finalized
- 4 Mapping of the School departments concluded
- 5 Academic book of the School
- 6 Mapping of the Doctoral Schools and Master's Program
- 7 Harmonization of the engineering areas of concentration
- 8 Common search and recruitment process

#### **International**



	2012		2013		2014		20	15
	S1	S2	<b>S</b> 1	S2	S1	S2	<b>S</b> 1	S2
Governance								
Students			2					
Faculty								
Companies								
Partner Universities						[		

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- International teams and networks integration
- Launching of grant policy
- Mapping of the first UPSa international courses offer
- Non institutional student recruitment program
- Definition of the search and recruitment process
- New accommodation capacities
- Companies partnership and implantation program
- First global partnership agreements

#### Innovation and businesss relationships action

Key objectives
Double the Impact
in the economy
in ten years

Provide to the economical world the right experts and leaders

Double the creation of new technological companies

Double the tranfer of research results towards technology based SMEs

Key levers

Built on the strenghes

of the members.

Extend the good practices

to all and share

Intensity of the relationship of Grandes Ecoles with industry in the field of training needs and fund raising

Intensity of the relationship of the RPOs with the economical world

PEEPS: the Student entrepreneurship initiative shared by some of the members

Setting up of the SATT, the IRT / IEED

Key programmes

Organise the innovation ecosystem of the site

Develop innovation / entrepreneurship spirit of student, teachers and researchers

Strengthen business relationships

# **Doubling the economical impact** in ten years



	:	2012		2013		14	20	15
	<b>S</b> 1	S2	<b>S1</b>	S2	<b>S</b> 1	S2	<b>S</b> 1	<b>S2</b>
Organizing the innovation ecosystem	4		2					
Developing innov / ent.ships students-researchers-teachers	3	6	7					<b>)</b>
Strengthening business relationships	10	<b>U</b>	12 1	3	(	3	(	3

- 1 FCS recruit the innovation and business relation team
- 2 The global offer is ready, agreement on the role of all the units involved
- The PEEPS Student Entrepreneurship initiative confirmed (3) assessed (4) and extended (5)
- 6 9 Definition of the Fund for Innovation and entrepreneurship (6) ,lauch of the calls (7)(8)(9)
- 10 Organise the business gateway for entreprises (10) ready to operate for SMEs (11)
- Relationships with large companies agreements on research, business partner club
- 13 Relationship with International companies organised and international yearly convention

Trajectory

#### **Campus and Student Life**



	2012		2013		2014		20	15
	<b>S</b> 1	S2	<b>S</b> 1	<b>S2</b>	<b>S1</b>	<b>S2</b>	<b>S</b> 1	<b>S2</b>
Digital infrastructure project		1						
Learning Center		3					4	
E-learning		5		<u>5a</u>	5	b	5	c
Accomodation capacities	6					6a	6	þ
Student associations								

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- Digital network specifications defined
- Digital network opening of the operational service
- Learning center definition of the needs and concept definition
- Learning center official opening
- Definition of the E-Learning strategy and projects a, b, c,deliveries

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- Opening of new accommodation capacities (1000 people per module)
- Opening of a two new gymnasium and stadium (Palaiseau and Moulon)