

Paris-Saclay



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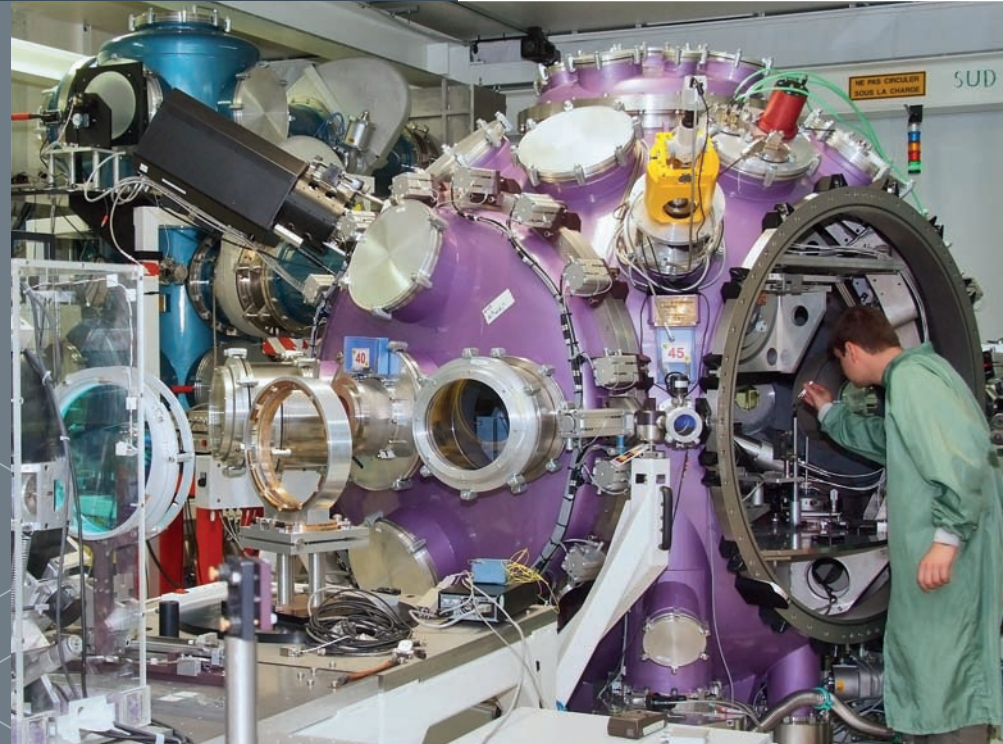
Alain Fuchs



Jean-Louis Martin



Dominique Vernay



January 30th 2012

- Trajectory
- University Paris-Saclay
- IDEX Paris-Saclay

Reaching
a hard-fought,
detailed,
ambitious
agreement

The Université Paris-Saclay

IDEX INITIATIVE D'EXCELLENCE
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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- Human resources managed
by **each Institution**

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- A School of **Engineering**
part of a global organization
- Human resources: a joint strategy
of **the university**

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- «Grandes écoles d'Ingénieurs» in an «**Alliance** for Integrative research»
- Human resources managed by **each Institution**
- NROs contract with **each institution**
- Institutions negotiate their State budget **individually**

New proposal : Integrated university

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

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Building
an integrated
research
university

The Université Paris-Saclay

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The starting point : a fragmented academic landscape

	10 Grandes Ecoles	2 Universités	6 Local establishments of NROs	TOTAL
Faculty	1,572	3,363	5,538	10,473
Students	16,548	31,050		47,598
Undergrad.	3,000	16,184		19,184
Graduates	13,548	14,866		28,514
Inc doctorates	2,919	2,792		5,711

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

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**



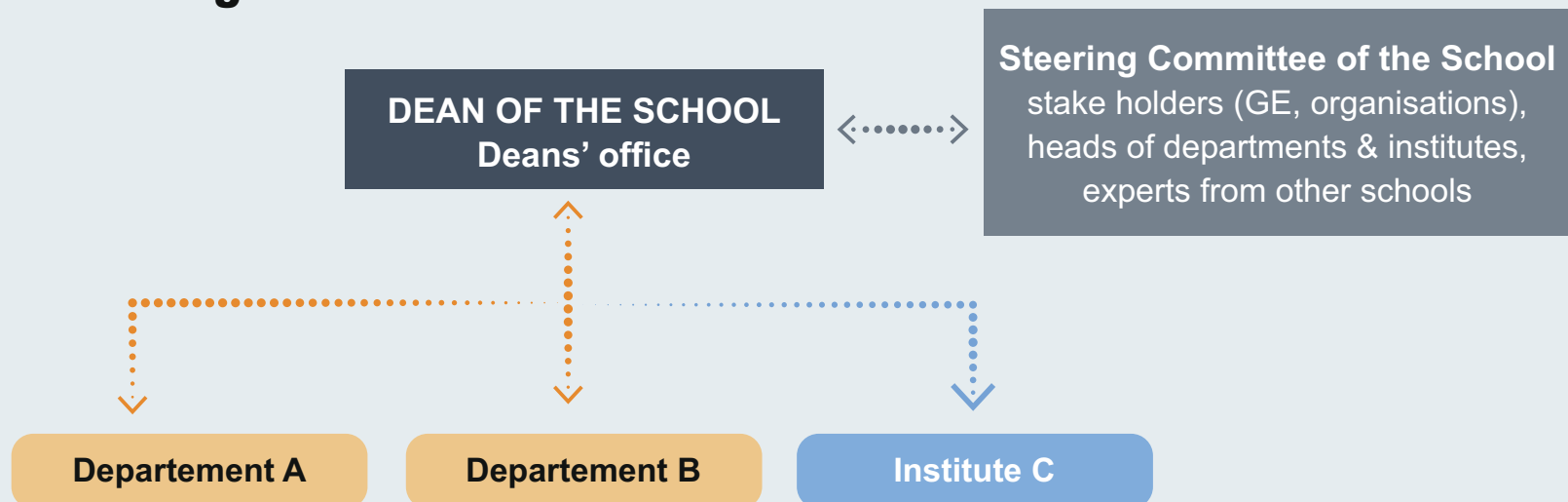
Pr. B. Ramanantsoa, Dean of HEC Paris

A new organization scheme : **basic principles**

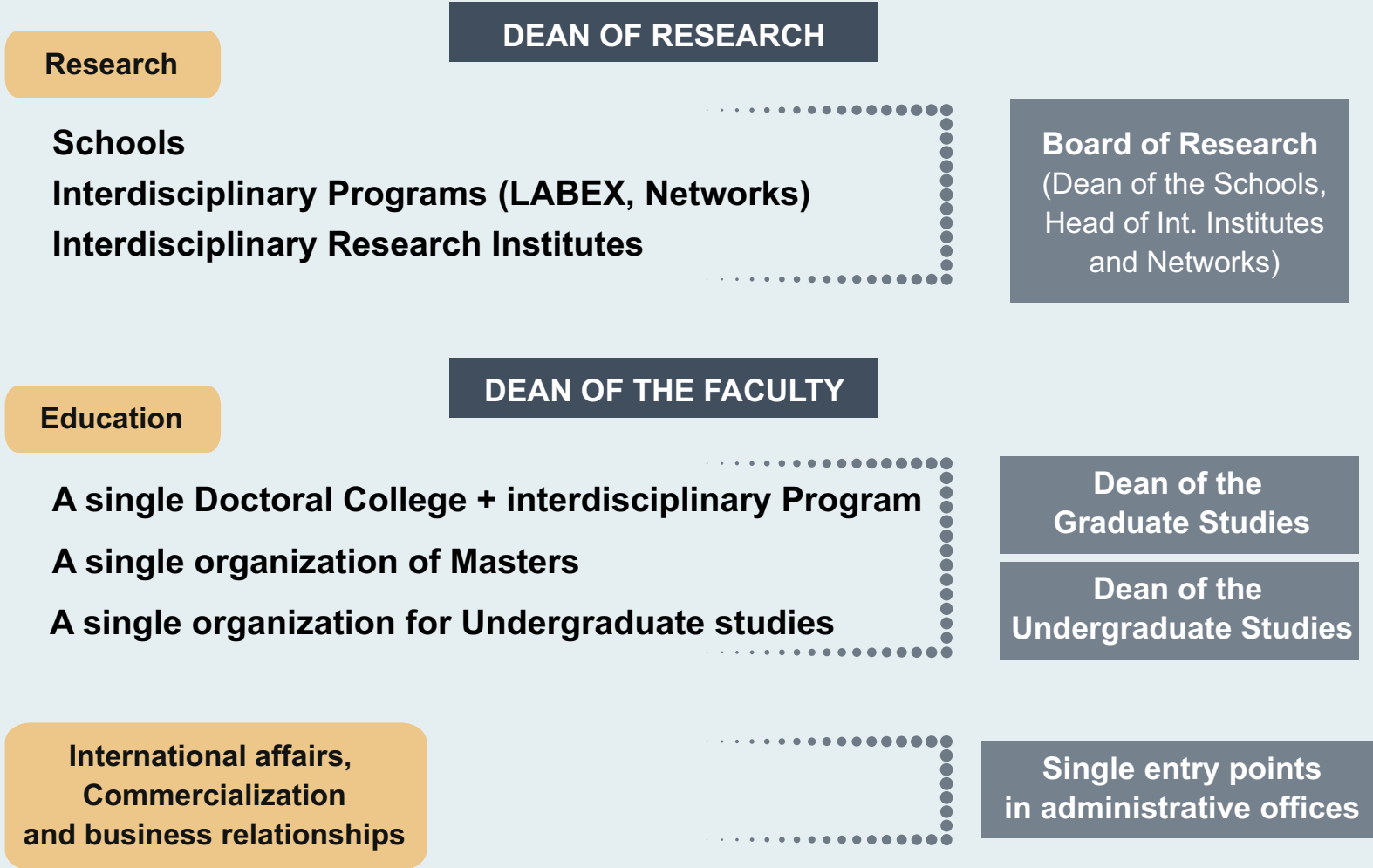
6 Schools, inter-establishments structures in charge of organizing research and education in a given scientific areas

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

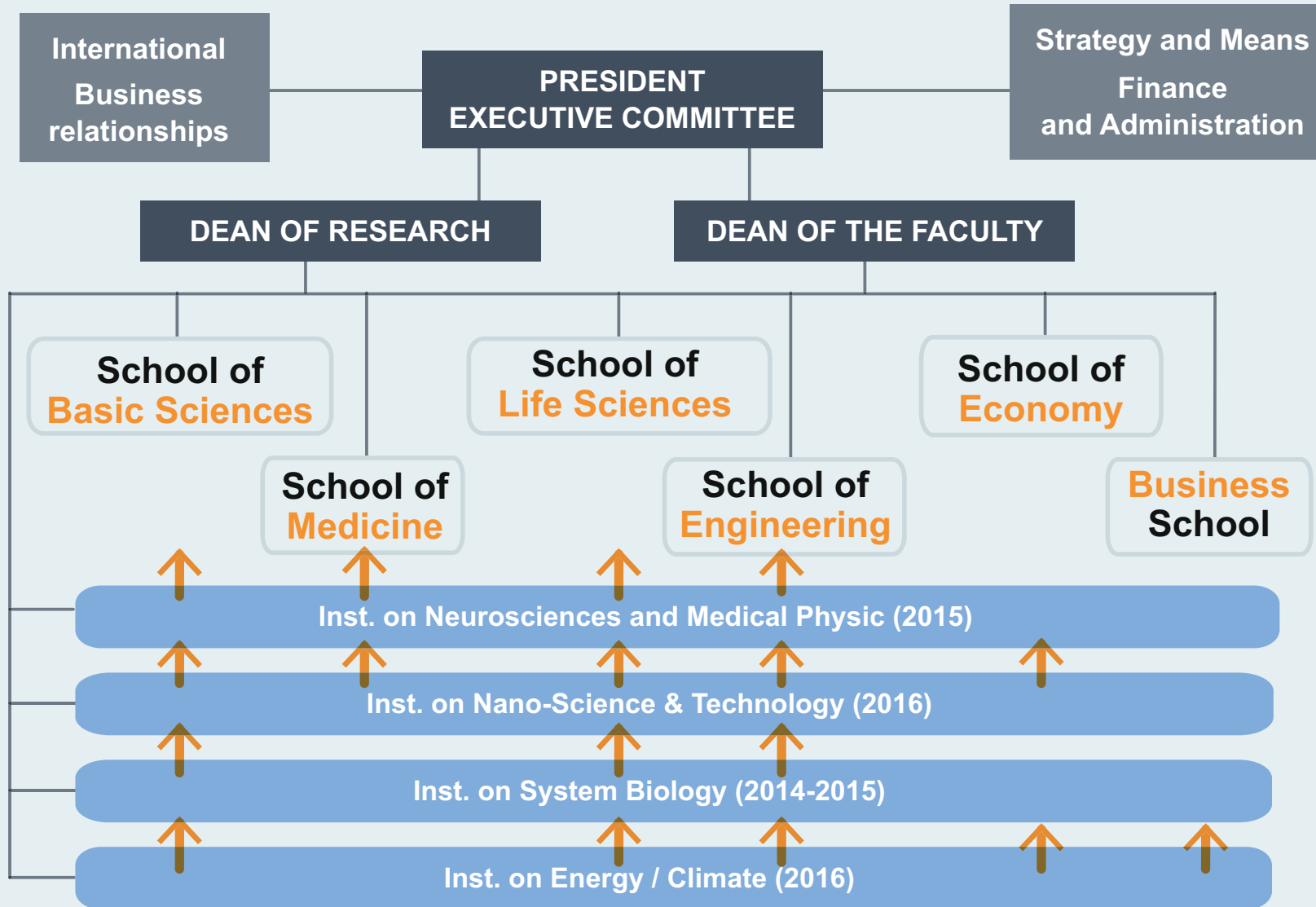
A new governance



Transverse actions under the global governance



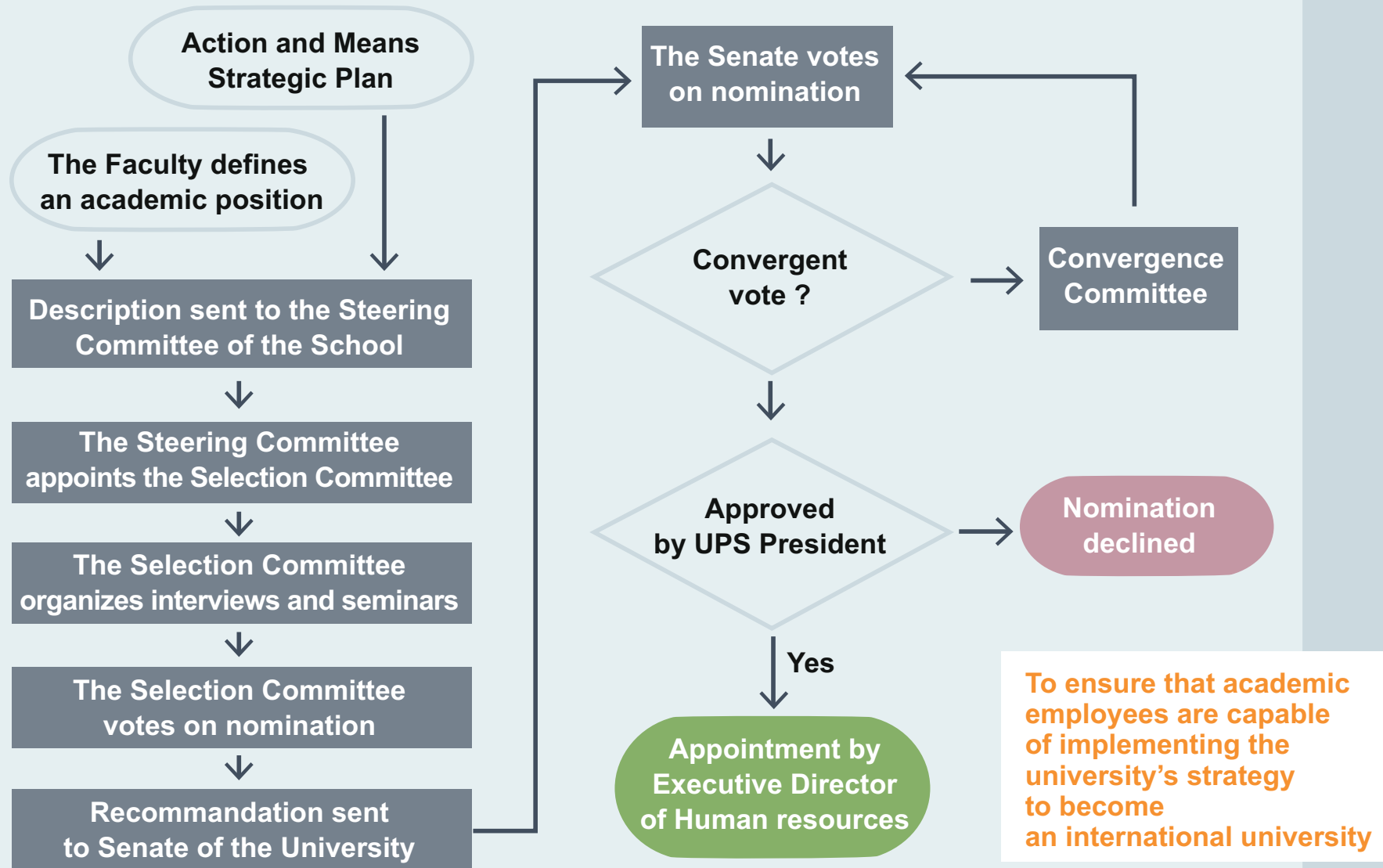
Université Paris-Saclay from 2014



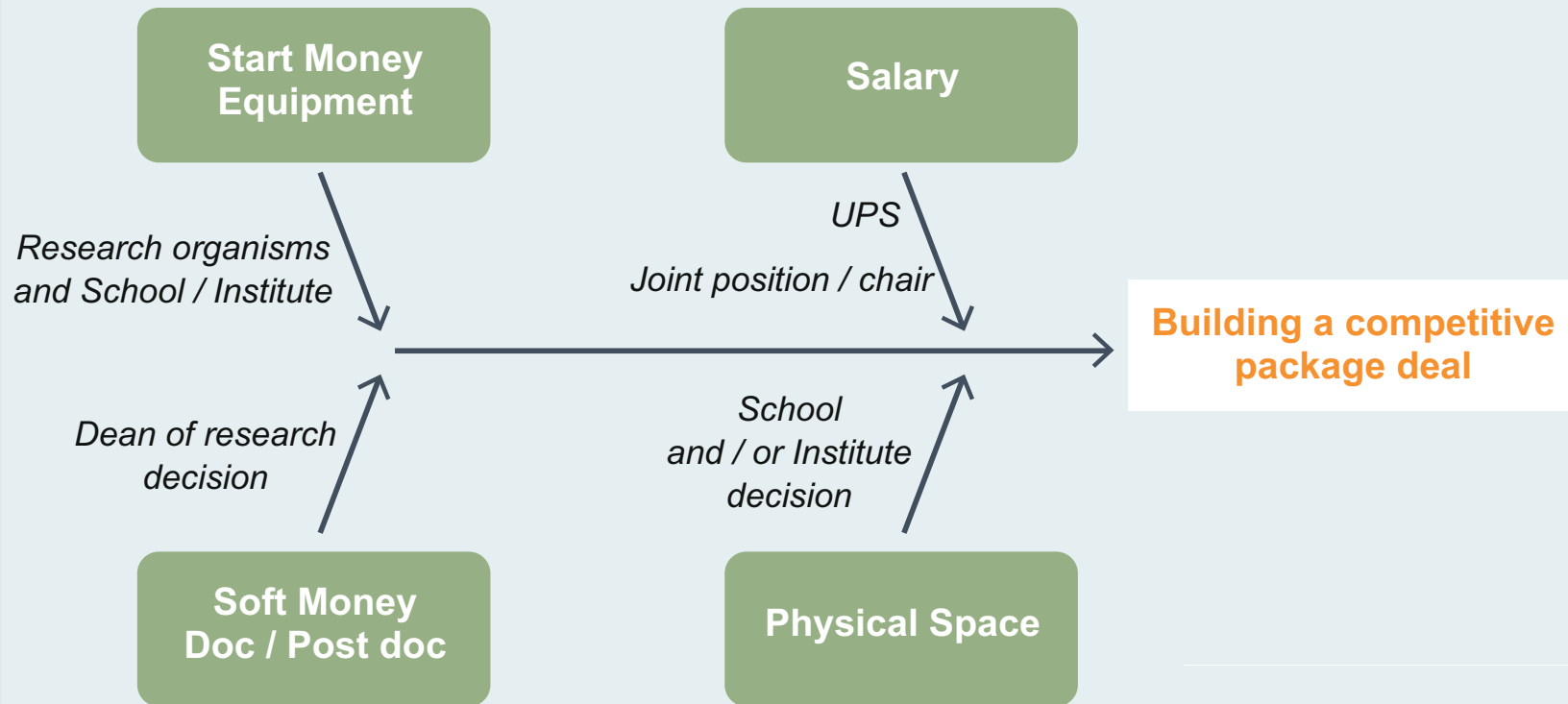
4 key examples of transformation

- 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



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

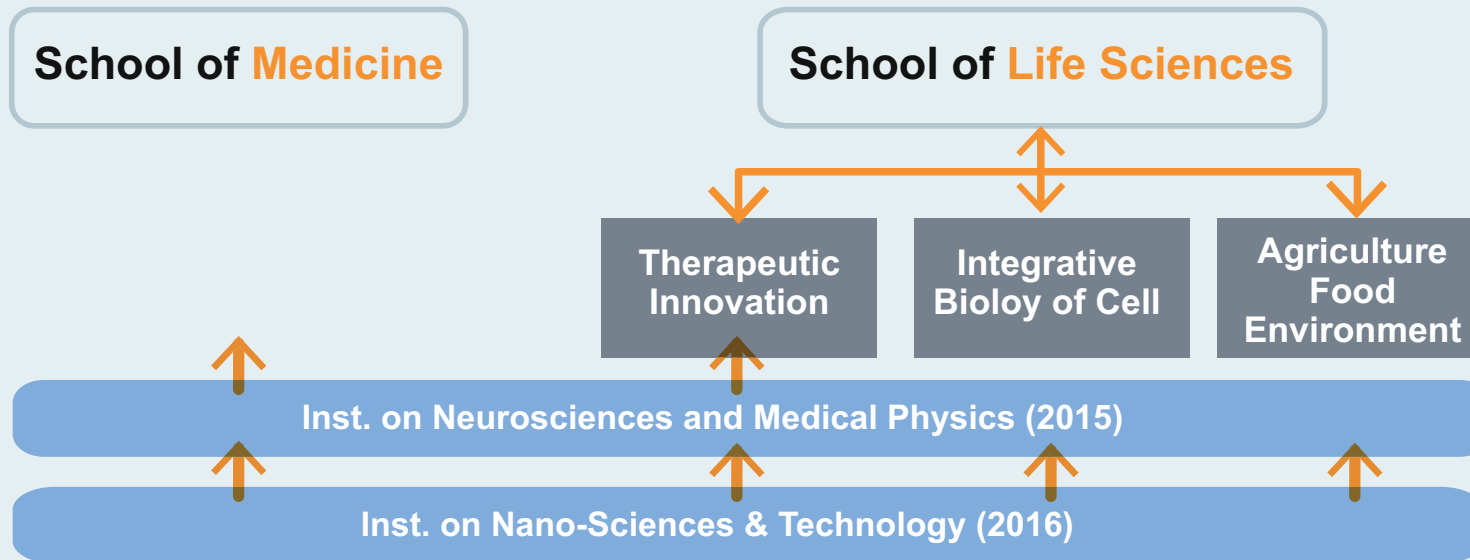
Implementing together an ambitious strategy :

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

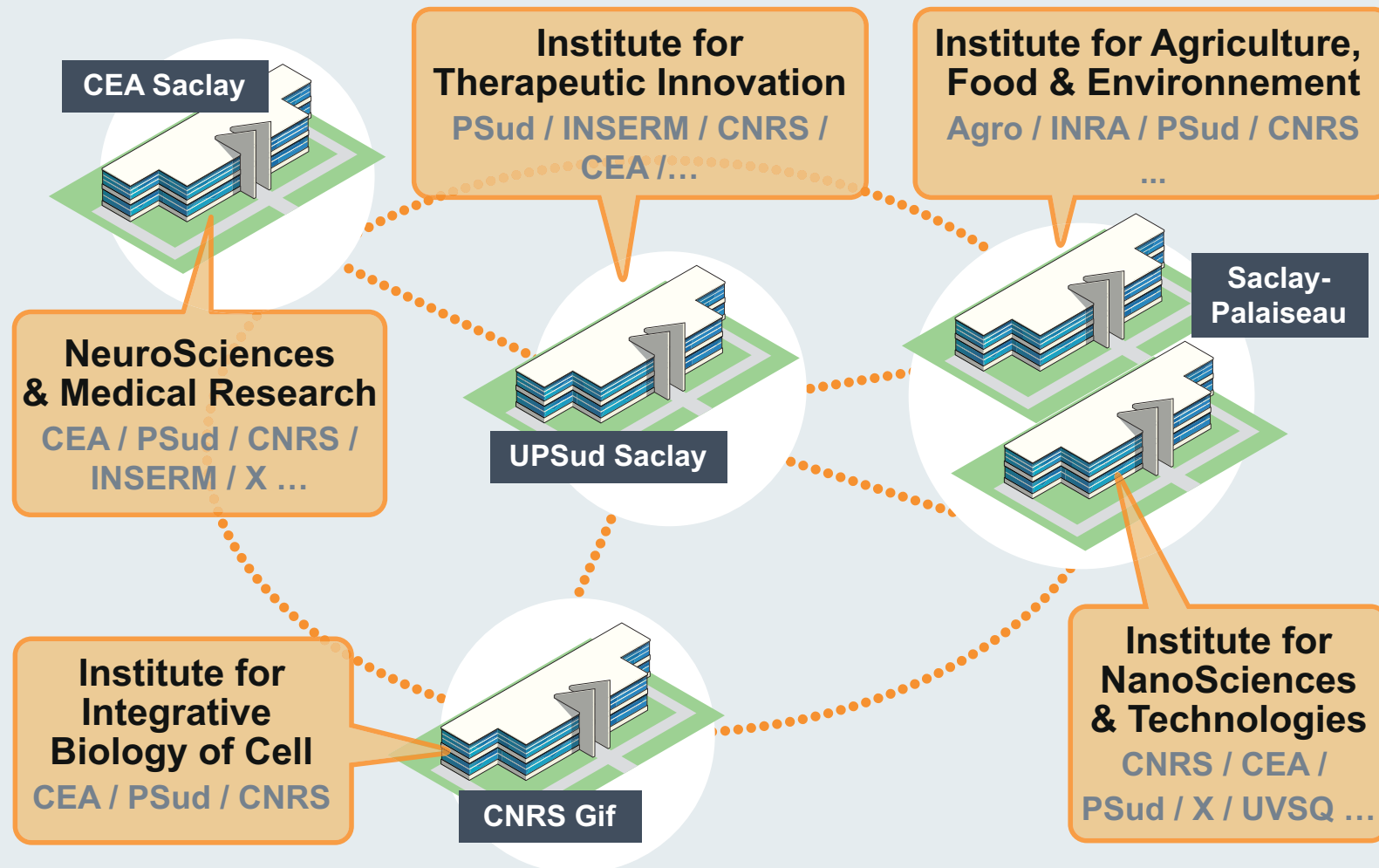
- Organisation on large coordinated projects
- Large interdisciplinary content

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



Life Sciences : moving people within a global strategy



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



IOGS



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**
- the Business School : **HEC**

The School of Engineering : **governance**

**A STEERING
COMMITTEE**
voting
by simple majority



The Presidents / Directors of the members
Representatives of the Research Organizations
Representatives of other schools

A DEAN



Elected by the Steering Committee
which approves its action

**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.

 Basic research, multidisciplinary

 Food and Agriculture

 I.T.

 Medical

 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 research 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 participate 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 responsibilities

- **Means and funding provided by the RPO's **negotiated at the University level****

- Trajectory
- University Paris-Saclay
- IDEX Paris-Saclay

our IDEX
as the engine
and driver

of the transformation

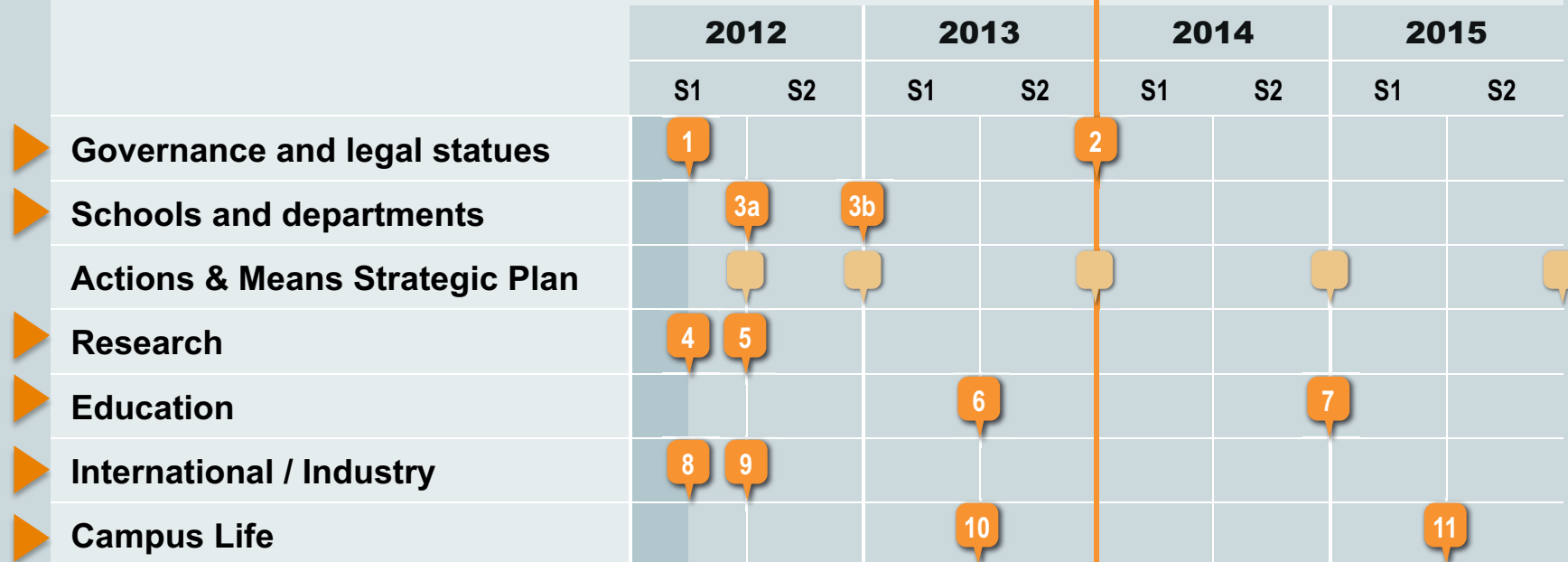
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The IDEX as the engine and driver of the transformation

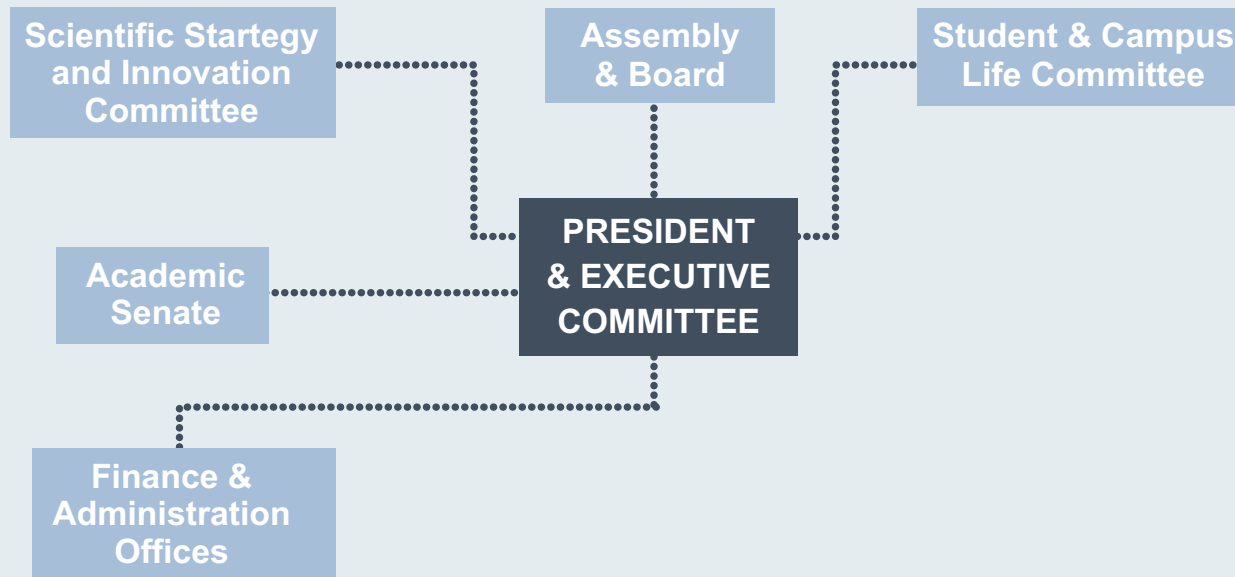


- 1 IDEX governance complete and moved to a central building
- 2 Start of Université Paris-Saclay under EPCS statute
- 3a Preliminary agreements of partners 3b All schools and departments set-up
- 4 All selected LABEX started 5 IDEX LABEX started
- 6 Masters and Doctoral plans filed to MESR 7 Operation started
- 8 Business relationships and International Offices 9 Industry Club opened
- 10 Opening of first new accomodation facilities 11 Learning Center

Gouvernance : the Foundation

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

 Janv. 2012 : FCS

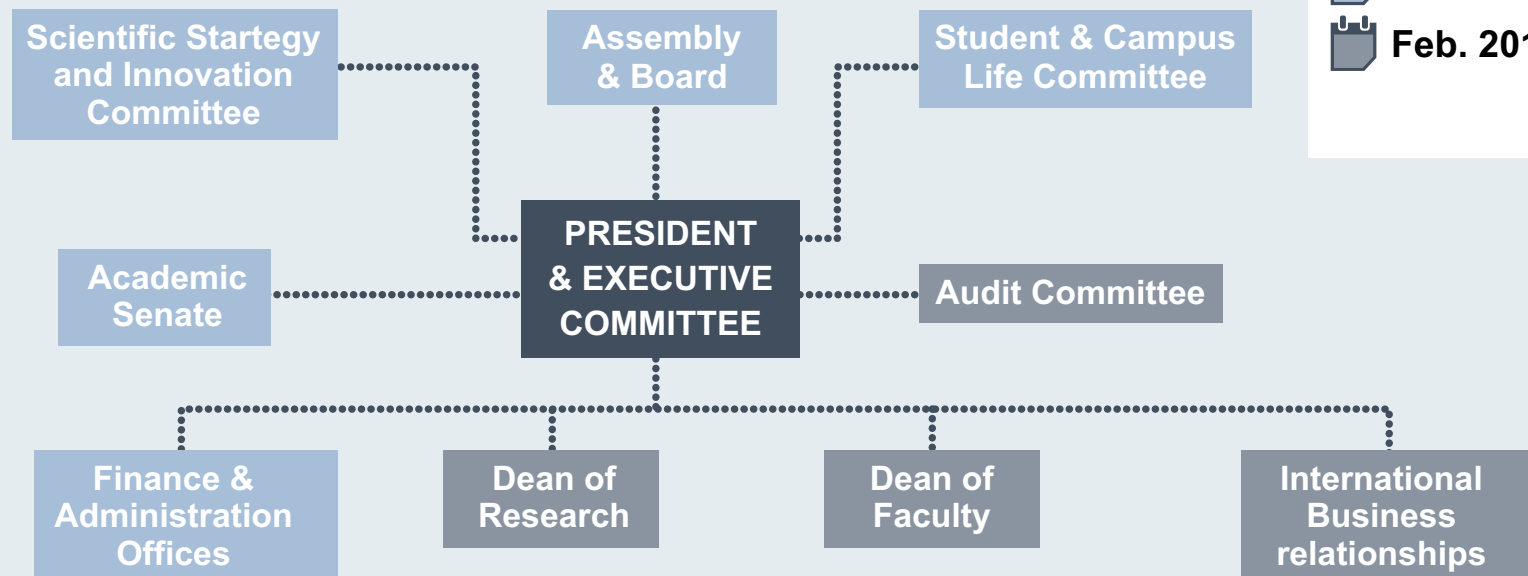


FCS Governance

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

Gouvernance : IDEX

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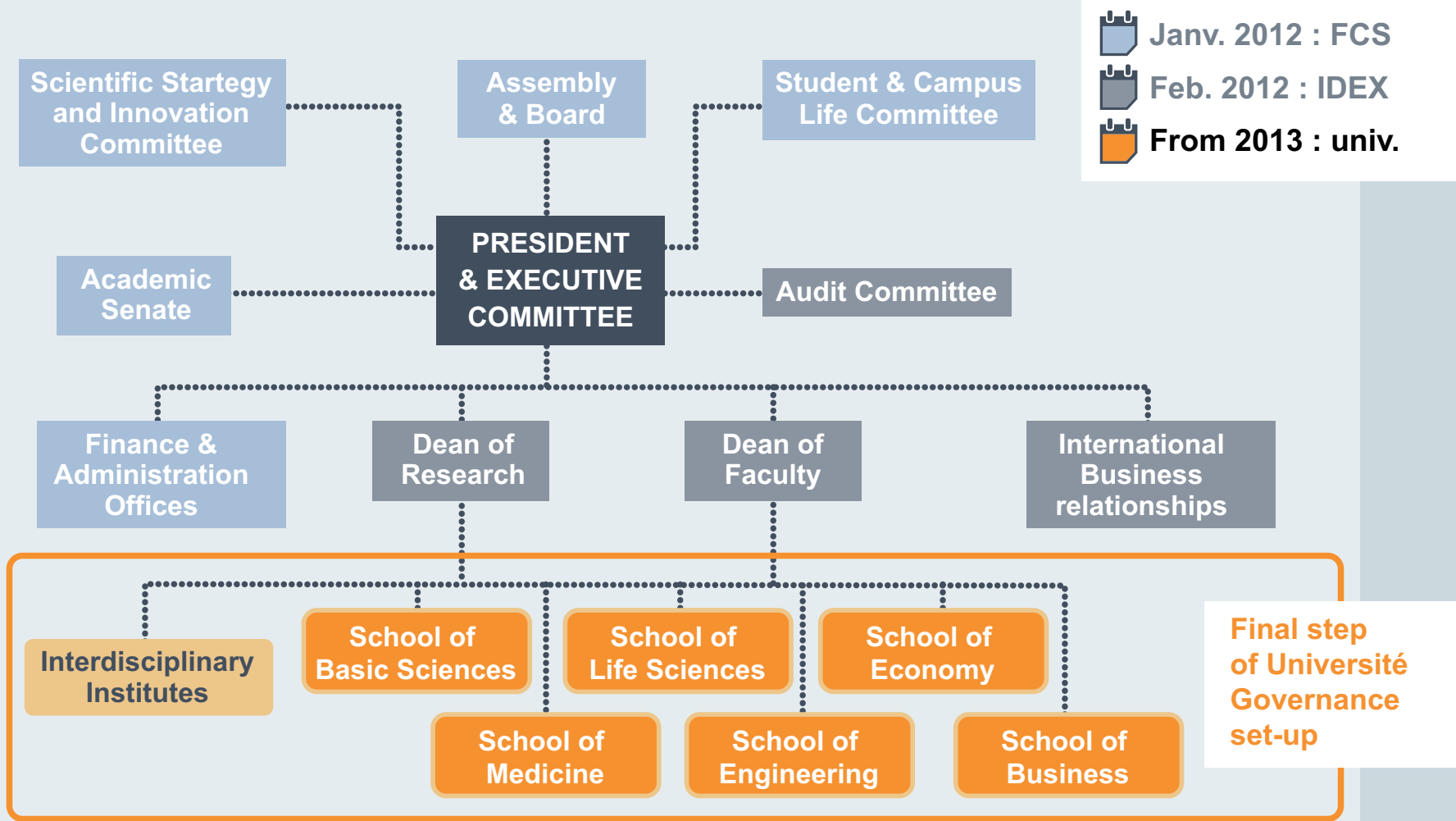
Janv. 2012 : FCS
Feb. 2012 : IDEX

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)

Gouvernance : Université Paris-Saclay

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



Setting up the governance



	2012		2013		2014		2015	
	S1	S2	S1	S2	S1	S2	S1	S2
Recruiting of key personnel	1							
Writing EPCS statute and rules			2					
Recruiting a President		3	4	5				
Schools and Departments		6						
Education					7			

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



Creating an **identity**

Headquarters for the governance

Graphic Chart : January 2013

Signature of publications within the perimeter of excellence : immediately
for all : January 2014

Single student card : Septembre 2014



Mid-April, 2012
Moving to the 1st University
Paris-Saclay headquarters



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

National Research Organization contract at university level

Ultimately, State will contract at university level



« We know
**where we
are heading to**
and we are
all committed ! »

FCS Board 2011

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



The Université Paris-Saclay

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Research



	2012		2013		2014		2015	
	S1	S2	S1	S2	S1	S2	S1	S2
Governance	1				2			
Schools and departments		3 4						
LABEX	5 6							
Interdisciplinary Institute open						7		8
Interdisciplinary actions started		9 10					9b	

- 1 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
- 7 Institute for Neurosciences and Medical Physics, &
- 8 Nanosciences
- 9 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	
	S1	S2	S1	S2	S1	S2	S1	S2
Setting up a governance	1	2	3					
Elaboration the academic proposition			4	5	6			
Official dates					7		8	

- 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



The School of Life Sciences : process and agenda



	2012		2013		2014		2015	
	S1	S2	S1	S2	S1	S2	S1	S2
Governance		1			2			
Research : global	3		4					
Research : technical platforms	5a		5b				5c	
Education				6	7	8		
RH		9a						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 & 4 mapping of the School departments agreed
- 5a Committee for technical platforms created 5b 1st report, final action 5c
- 6 Academic book of the university
- 7 Mapping of the Doctoral Schools and Master's Program
- 8 Harmonization of the engineering area of concentration
- 9 Definition of the search and recruitment process, & 5c at least 4 leaders recruited



School of Engineering : Process and Agenda



	2012		2013		2014		2015	
	S1	S2	S1	S2	S1	S2	S1	S2
Governance		1			2			
Research		3	4					
Education				5	6	7		
RH		8						

- 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		2015	
	S1	S2	S1	S2	S1	S2	S1	S2
Governance			1					
Students			2		3	4		
Faculty		5						6
Companies			7					
Partner Universities							8	

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



Innovation and business 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 transfer of research results towards technology based SMEs

Key levers
Built on the strengthes
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		2014		2015	
	S1	S2	S1	S2	S1	S2	S1	S2
Organizing the innovation ecosystem	1	2						
Developing innov / ent.ships students-researchers-teachers	3	6	7	4	5	8		9
Strengthening business relationships	10	11	12	13		13		13

- 1 FCS recruit the innovation and business relation team
- 2 The global offer is ready , agreement on the role of all the units involved
- 3 5 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 11 Organise the business gateway for enterprises (10) ready to operate for SMEs (11)
- 12 Relationships with large companies agreements on research , business partner club
- 13 Relationship with International companies organised and international yearly convention



Campus and Student Life



	2012		2013		2014		2015	
	S1	S2	S1	S2	S1	S2	S1	S2
Digital infrastructure project		1					2	
Learning Center		3						4
E-learning		5		5a		5b		5c
Accommodation capacities	6					6a		6b
Student associations								7

- 1 Digital network specifications defined
- 2 Digital network opening of the operational service
- 3 Learning center definition of the needs and concept definition
- 4 Learning center official opening
- 5 Definition of the E-Learning strategy and projects a, b, c, deliveries
- 6 Opening of new accommodation capacities (1000 people per module)
- 7 Opening of a two new gymnasium and stadium (Palaiseau and Moulon)

