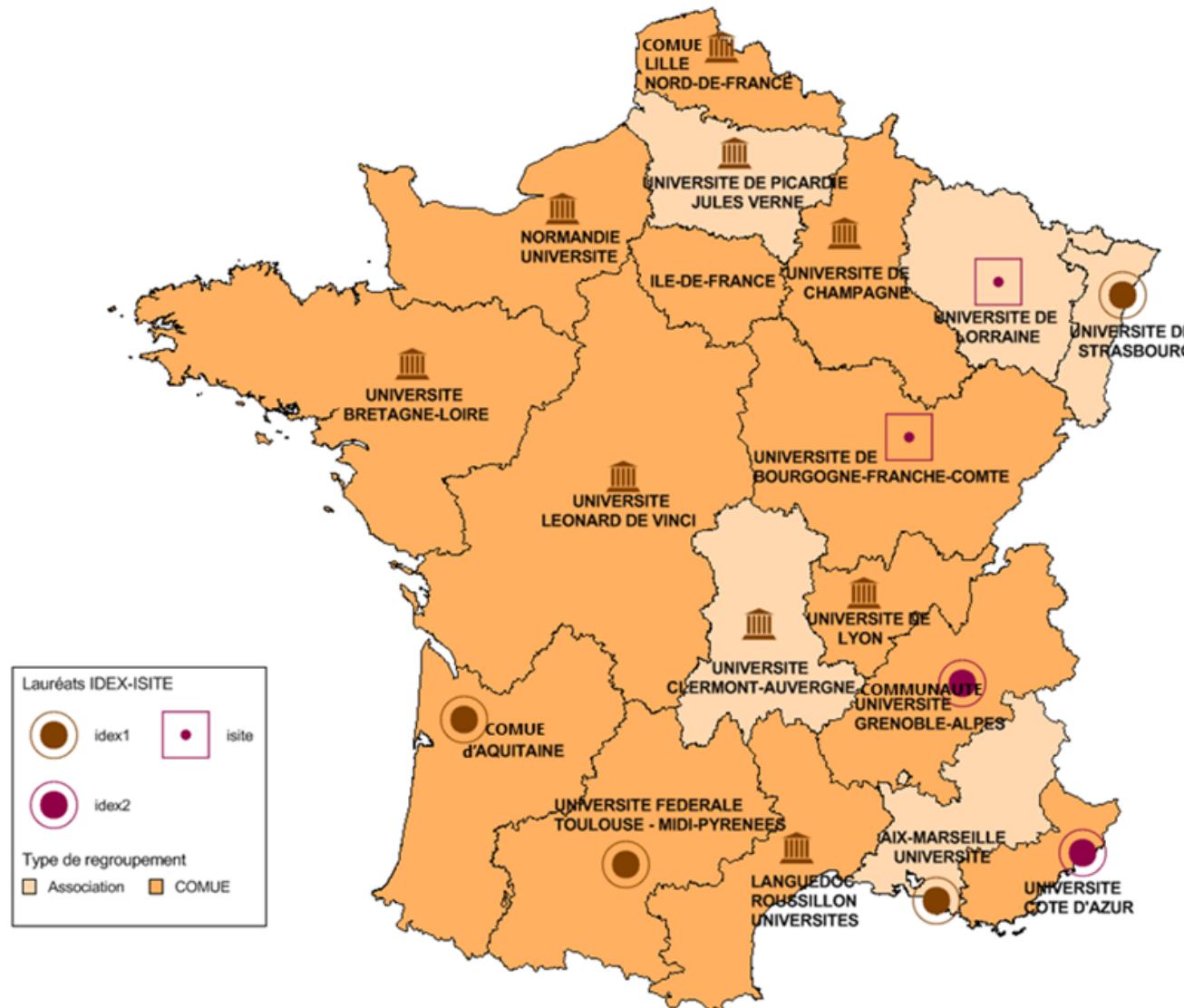


Higher education, research and innovation in France



January 2017

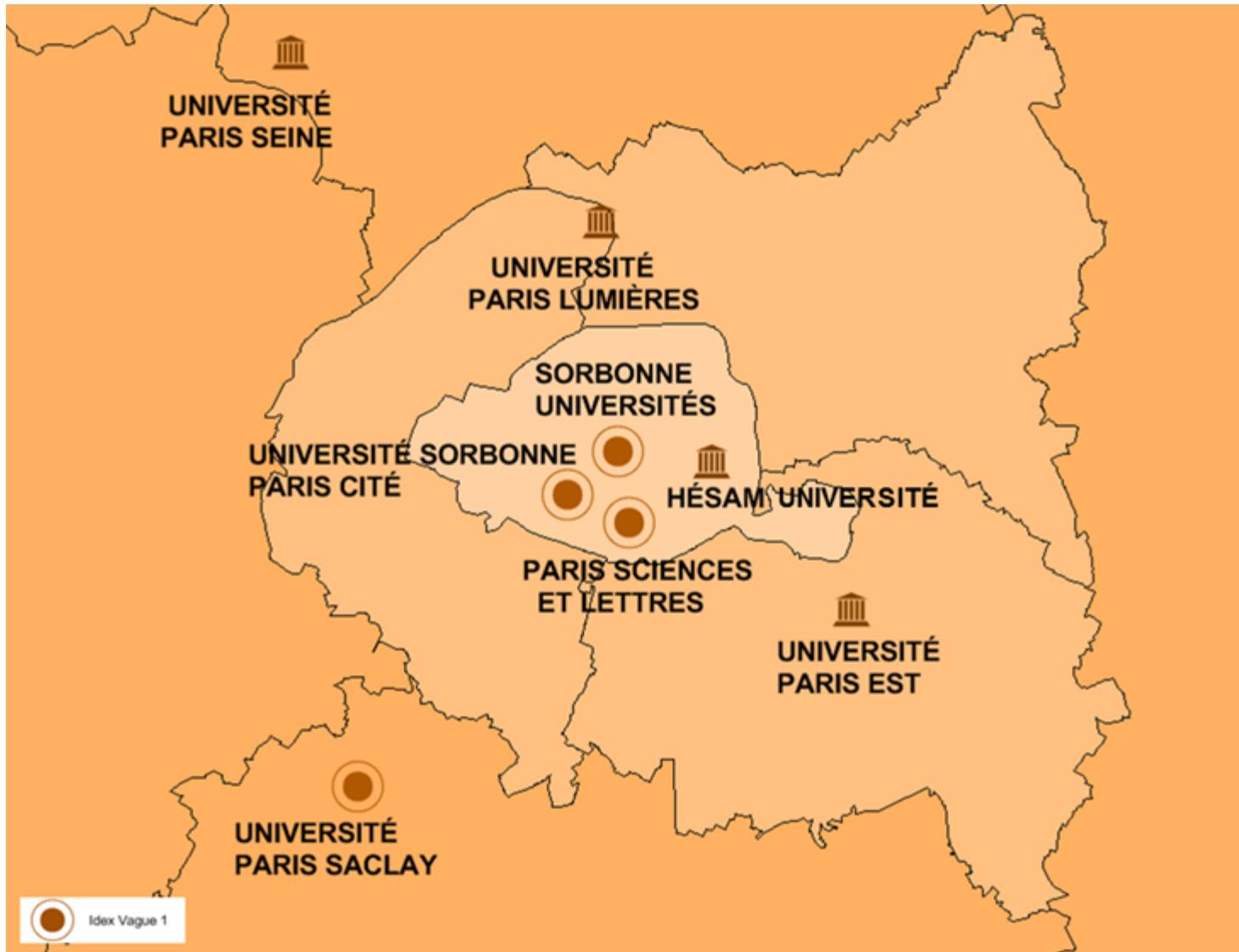
Map of French academic



COMUE : Communauté d'universités et établissements

Source et réalisation : MENESR – DGESIP / DGRI A-1 Janvier 2017

Paris region academic groupings



COMUE : Communauté d'universités et établissements

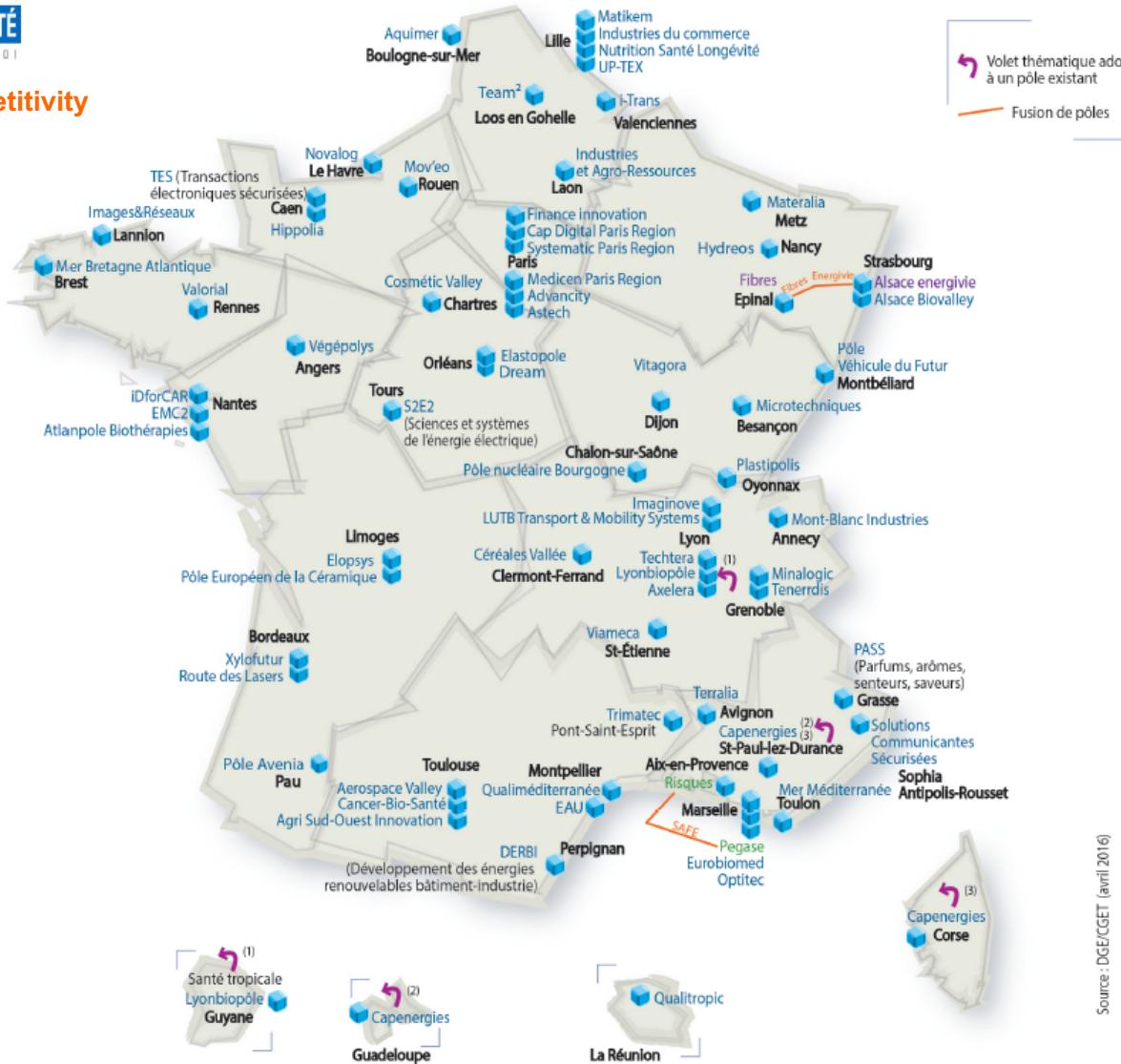
Source et réalisation : MENESR – DGESIP / DGRI A-1 Janvier 2017



LES PÔLES DE COMPÉTITIVITÉ

MOTEURS DE CROISSANCE ET D'EMPLOI

Map of the 71 French competitiveness poles



Source : DGFiPGET (avril 2016)

Research in French academic sites

Regroupements	Résultats PIA1 et 2			IUF nominations 2012-2016	Docteurs 2014	ERC nominations 2009-2016	CNRS Médailles Or et Argent 2001- 2016	Effectifs d'enseignants- chercheurs et chercheurs en 2014
	Idex	Labex	Equipex et autres projets de rech.*					
Aix-Marseille Université	A*Midex	23	40	34	683	44	13	4 607
Clermont Université	-	7	24	5	198	4	1	1 518
Comue d'Aquitaine	IdEx Bordeaux	12	32	21	609	23	9	3 902
Languedoc-Roussillon Universités	-	25	32	20	724	25	13	5 954
Lille Nord de France	-	7	28	24	532	11	1	3 601
Normandie Université	-	5	13	12	338	2	4	2 382
Picardie Universités	-	3	11	6	146	-	-	1 073
Université Bourgogne- Franche-Comté	I-SITE UBFC	3	19	11	381	7	4	2 000
Université Bretagne Loire	-	15	50	32	1 070	25	5	7 291
Université de Champagne	-	1	4	3	137	-	-	1 521
Université Côte d'Azur	Idex Jedi	8	19	11	301	25	5	1 802
Université fédérale Toulouse Midi-Pyrénées		22	43	36	825	34	15	6 810
Université Grenoble Alpes	Idex Université de l'innovation	21	41	38	750	59	27	3 937
Université Léonard de Vinci	-	9	19	15	575	5	5	3 864
Université de Lorraine	I-SITE LUE ISTEX**	6	12	6	421	7	3	2 641
Université de Lyon	-	20	37	56	999	53	22	4 599
Université de Strasbourg	UNISTRA	18	23	25	487	32	14	3 029
Hésam		13	4		537	7	7	1 905
Hésam (hors Paris I)		9	3		128	-	-	555
Paris Sciences et Lettres	PSL	46	25	17	519	130	47	2 649
Sorbonne Paris Cité		33	25	78	1 018	72	17	5 297
Sorbonne Universités	Super	34	37	56	1 196	74	22	4 649
Université Paris Est	-	17	21	15	243	6	2	1 575
Université Paris Lumière	-	7	2	22	368	-	1	1 735
Université Paris Seine	-	7	4	2	91	2	1	626
Université Paris-Saclay	Paris Saclay	40	84	42	1 234	144	56	10 658

*Sont pris en compte les Equipex, IHU, IHU B, Phuc, RHU, les actions Bioinformatiques, Biotechnologies-Bioressources, Démonstrateurs, Cohortes, Infrastructures, Nanobiotechnologies, Carnot, ITE, IRT, Instituts convergence.

**Initiative d'excellence de l'information scientifique et technique

Université
de BORDEAUX



Our history

Creation of
**the university
of Bordeaux**

« Opération
campus »:
Successful
application for the
project « **towards a
new model of
university** »

Merger
process
launched to
create **a new
university in
Bordeaux**

Excellence
initiative:
Successful
application for
the **IDEX
Bordeaux
project**

Birth of the **university
of Bordeaux**
Merger of universities
Bordeaux 1, Bordeaux
Segalen and Bordeaux
IV

1441

2009

2010

2011

2014



Ambitions

- > Transdisciplinary, innovative and high visibility **research**
- > A wide, coherent and attractive **training offer**, focused on the success of every students
- > Dynamic **campuses**, integrated to their local environment
- > A university deeply rooted in its **territory** with a strong **international** outreach

A quality environment

- Bordeaux, capital of south western France, a Unesco world heritage
- Aquitaine, a region under ongoing mutation, demographic and economic growth
- 1st region in France in terms of money invested in R&D
- Innovative sectors: aeronautics, chemistry, agro-industry, pharmacy-health, electronics, optics, forestry-wood-paper



Key facts and figures (1)

+50 000 students, incl.

1 845 PhD students
and 6 000 international students

2 924 academic staff ,

980 researchers ,

2 711 administrative staff

40 international study programmes

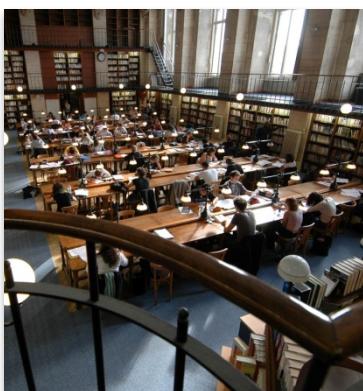
More than **80** research centers,

8 doctoral schools

Annual budget: 550 000 000 €



Key facts and figures (2)



ARWU 2013 (Shanghai ranking)	France
# 208	# 9
Eng/Computer Sc.	51-75
Life & Agric. Sc.	# 1
Clinical Med.	151-200
	# 5

Recent achievements



- “Opération Campus”: Create a limited number of campuses of excellence by allocating money to large real estate operations (2008)
- “Investments for the Future”: Government funded calls for proposal to reward high-profile and cross-disciplinary research (since 2010)

Opération Campus

(10 laureates)

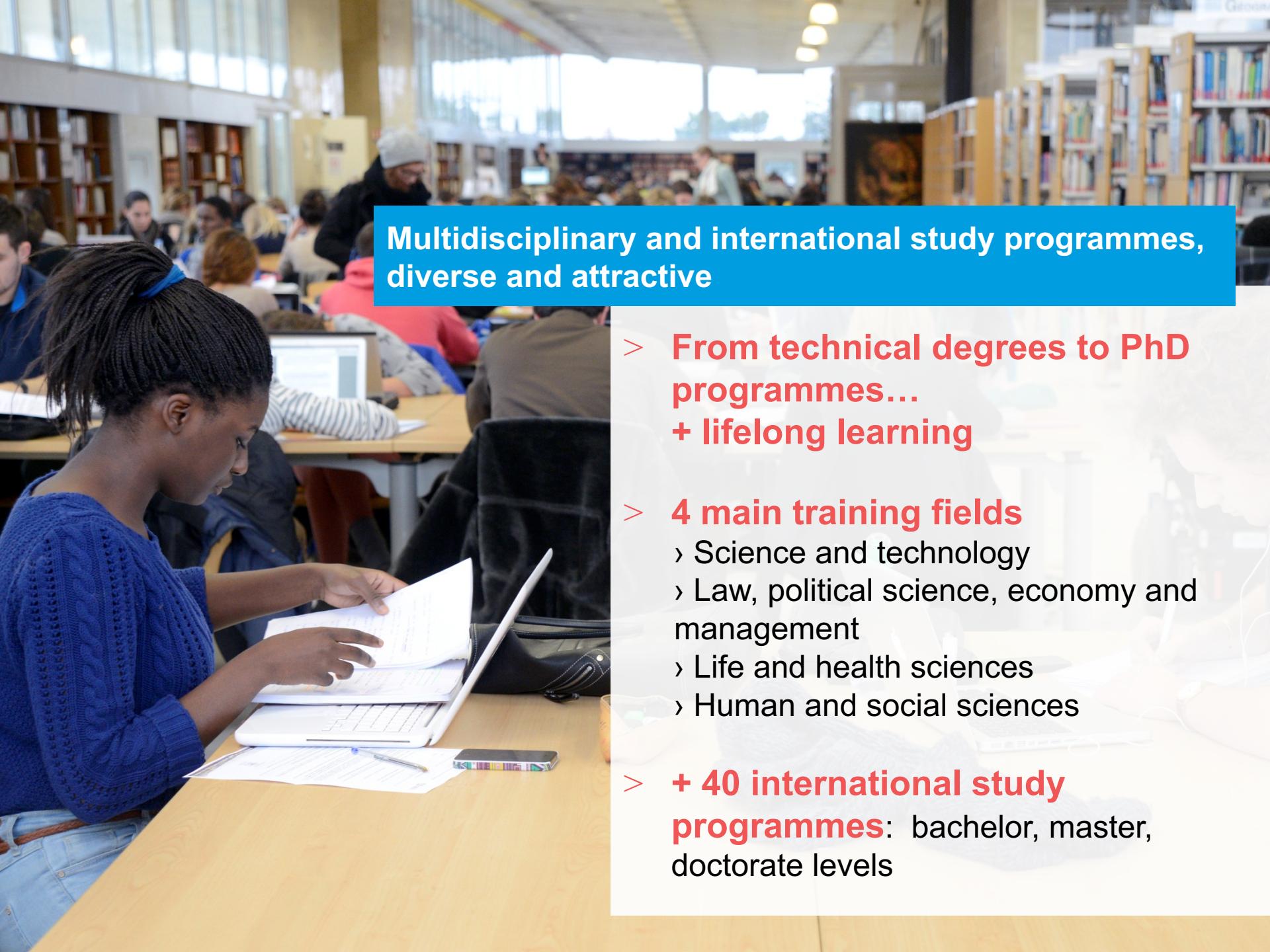
- 538M€ total budget
- 10 years
- 4 campus sites

Research Clusters of Excellence

- 5 Laboratories of Excellence
- 5 Equipments of Excellence
- 1 University-Hospital Institute (heart modelling)

Excellence Initiative – IdEx Bordeaux (8 laureates)

- Internationally competitive campus w/ high-level of integration
- 106M€ for 4 years
- Comprehensive project (research, training, TT, HR policy, etc.)



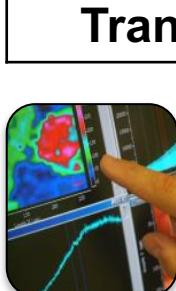
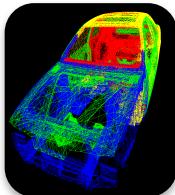
Multidisciplinary and international study programmes,
diverse and attractive

- > **From technical degrees to PhD programmes...
+ lifelong learning**
- > **4 main training fields**
 - › Science and technology
 - › Law, political science, economy and management
 - › Life and health sciences
 - › Human and social sciences
- > **+ 40 international study programmes:** bachelor, master, doctorate levels



10 research fields of excellence

- Awarded with significant funds (+ 25 M€/y.) to develop research and training that meet international standards of excellence



Advanced Materials

Laser

Modeling and Systems

Neurosciences

Translational Imaging

Cardiology

Archeology

Environment

Sustainable Construction

Society & Health



An international campus: current trends

- › Internationalization of study programmes and research activities
- › Participation in thematic networks
- › Global alliances « international campuses »
- › Support to international mobility
- › Francophone cooperation
- › Priorities 2014 2015 : Japon, Canada, USA (Californie)



+ Transversal activities:

Participation in professional networks and international projects on best practice exchange

Internationalization of study programmes

- 40 international study programmes at the bachelor, master and doctorate levels in the following fields:
 - Science and Technology
 - Health and life sciences
 - Political Sciences
 - Law and Management
- Including 11 EU-labeled programmes (1st university in France for the Erasmus Mundus Programme)



**Strong involvement
in the building
of the European
Higher Education
Area:**

- Implementation of the 3-cycle scheme (B-M-D)
- Use of the ECTS system
- EU-labeled programs

★ *Financial support (travels, mobility grants, scholarships), monitoring of calls for proposal, project writing, project management, promotion activities*

Internationalization of research activities

- **15 joint international research laboratories**
(with CNRS, INSERM, INRA) – with Japan, the US, China, Morocco
- **Participation in numerous international/European projects, incl. over 80 FP7 collaborative research projects**
(several European Research Council Grants)
- **Large research infrastructures**
 - incl. PETAL+ (inertial fusion), ELORPRINTEC (printed electronic organics), XYLOFOREST (wood transformation), Bordeaux Imaging Center (photonic, electronic, MRI), MIGA (gravitational waves), OPTOPATH (platform for experimental psychopathology), PHENOVIRT (virtual reality)

★ *Financial support (travels, mobility grants, scholarships), monitoring of calls for proposal, project writing, project management, promotion activities*

An active consortium policy

- Support to the development of structured networks of universities in different fields in training and research, in particular in Europe (ie neuroscience, oenology, psychology, public health, chemistry, mathematics, materials science)
- Participation in disciplinary networks on the international level

Ex: European Neuroscience Campus
(ENC Network)

→ Amsterdam – Bordeaux – Zürich –
Göttingen – Coimbra – Berlin – Quebec
– Tel Aviv



★ *Financial and HR support for travels & project meetings,
project writing, networking, organization of meetings, etc*

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Ex: EMMI Institute (materials science)

→ Bordeaux – Aveiro – Lisbon –
Darmstadt – Augsburg – Grenoble –
Liège – Louvain – Saint Andrew –
Liverpool – Fraunhofer Gesellschaft
– Lyon – Waterloo



★ *Financial and HR support for travels & project meetings,
project writing, networking, organization of meetings, etc*

Targeted partnerships – Global alliances

- A few selected geographic and university targets at the institutional level:
 - Japan (University of Tsukuba, University of Kyoto, University of Kyushu)
 - USA (University of California)
 - Canada (Université Laval, University of Montreal)
 - University of the Basque Country (campus of excellence)

★ *Financial and HR support for travels & project meetings, project writing, networking, organization of meetings, etc*

Support to international mobility (student & staff)

- Participation in numerous exchange programmes for students with dedicated welcome services to foreign students who come to Bordeaux
- Financial support from the European, national and local levels, incl. strong support from IdEx with dedicated funds to encourage mobility of staff & students at all levels (incoming & outgoing)
- Welcome center to provide administrative support to incoming researchers (visa, housing, language, social security, family-related services, social life, etc.)



Key figures

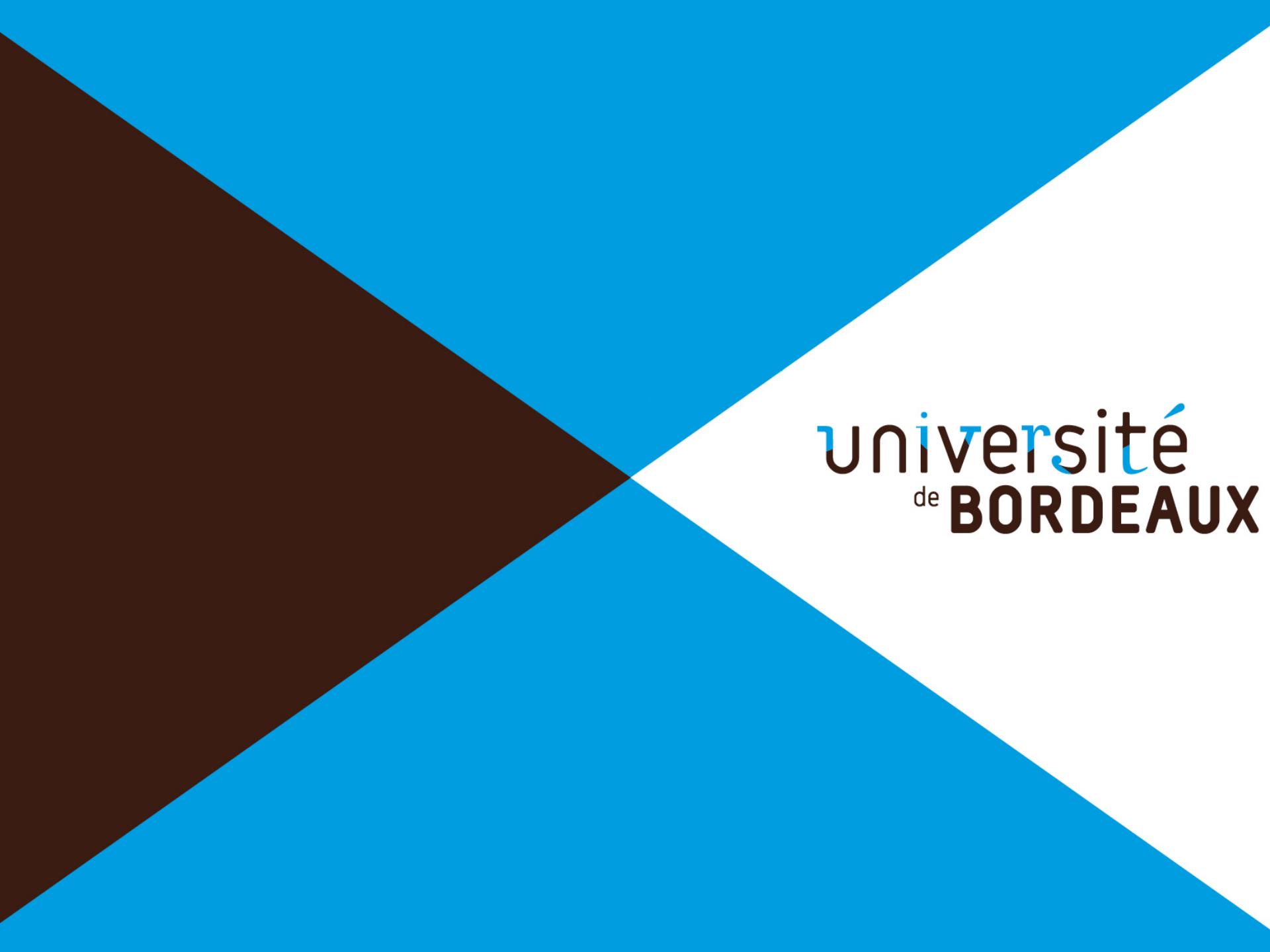
Student exchange mobility (incoming / outgoing) per year:
2 200

• Incoming
researchers (outside Europe) per year: 600



A cooperation policy with the Southern Hemisphere

- A long history of relationships with the Southern Hemisphere through capacity building activities in training and research:
 - The EuroMed area (esp. Morocco, Egypt and Lebanon) in several scientific fields (incl. neuroscience and imaging, materials science, engineering, law)
 - The Indian Ocean (Maurice Island, Madagascar, Mozambique) and Southeast Asia (Vietnam, Cambodia, Laos) in health sciences
 - French-speaking countries in Africa in several scientific fields

The background features a large, stylized 'X' shape composed of four diagonal bands. The top-left band is brown, the top-right and bottom-left bands are light blue, and the bottom-right band is white.

Université
de BORDEAUX