

# Rentrée doctorale

10<sup>e</sup> édition

Lille Grand Palais



17 Décembre 2024

14h - 18h

EG  
ENG SYS

EG  
MADIS

EG  
SHS

EG  
SJPG

EG  
SESAM

EG  
SMRE

EG  
BSL

ED  
PHF



En partenariat  
avec →



Avec le  
soutien de →







**Graduate School - 104**

Sciences of Matter, Radiation  
and Environment

**Frédéric Parol, Director**  
**Véronique Riffault, Deputy-Director**  
**Christophe van Brussel, Coordinator**  
**Betty Figula, Administrator, Secretary**

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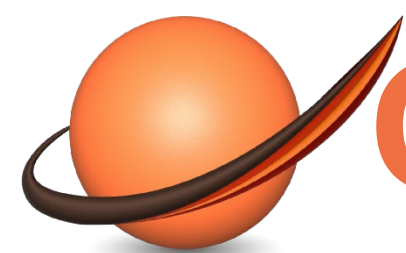
<https://edsmre.univ-lille.fr>

 [https://twitter.com/ED\\_SMRE](https://twitter.com/ED_SMRE)

 <https://www.linkedin.com/school/15138321/>

***Kick-off meeting***  
***2024-2025***

Rooms 13 & 17, Building P5  
Lille University – Faculty of Sciences and Technology  
Cité Scientifique  
59655 Villeneuve d'Ascq Cedex  
Tel: +33 3 20 43 40 62



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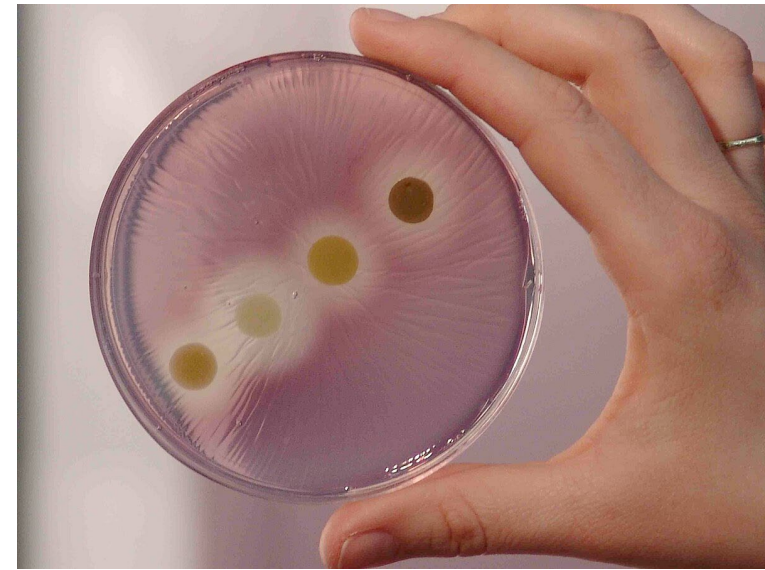
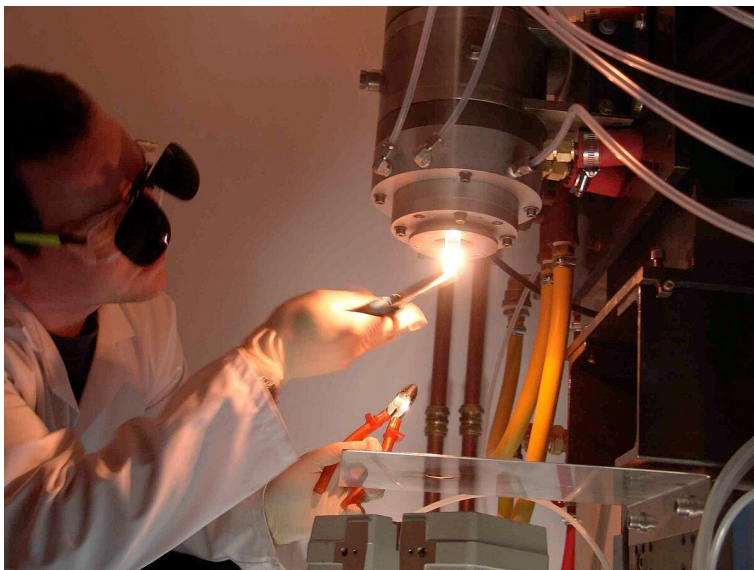
# Organisation of doctoral training in the Lille region

- 7 « Thematic » Graduate Schools (Ecoles Graduées en français) :
  - EG 73 SESAM : Sciences Economiques, Sociales, de l'Aménagement et du Management (Economic, Social, Planning and Management Sciences)
  - EG 74 SJPG : Sciences Juridiques, Politiques et de Gestion (Legal, Political and Management Sciences)
  - EG 473 SHS : Sciences de l'Homme et de la Société (Human and Social Sciences)
  - EG 631 MADIS : Mathématiques, Sciences du numérique et de leurs interactions (Mathematical and Digital Sciences)
  - EG 632 ENGSYS : Ingénierie et Systèmes (Engineering and Systems)
  - **EG 104 SMRE : Sciences de la Matière, du Rayonnement et de l'Environnement (Sciences of Matter, Radiation and Environment)**
  - EG 446 B&S : Biologie et Santé (Biology and Health)
- The « **Collège Doctoral Lille – Nord de France** », place of **mutualization** and **coordination** between the 7 GS (<https://doctorat.univ-lille.fr/college-doctoral/>)

# What is the scientific scope of the SMRE GS ?

## ➤ A multidisciplinary school

- Chemistry
- Physics
- Earth and universe sciences, space
- Biology, medicine, health
- Agricultural and ecological sciences
- Engineering sciences



## ➤ 13 internationally recognized research labs (associated to CNRS, INRAe, ...)

- UCCS, MSAP, LASIRE, PC2A
- PhLAM, LOA, CERI EE
- EEP, LOG
- UMET, LGCgE, CERI MP
- BioEcoAgro

## ➤ 3 Research Institutes

- IRePSE
- Chevreul
- Physics

## ➤ 2 labex (network of excellence)

- CaPPA 
- CEMPI 



## ➤ **Scientific domains of MESR (French Ministry)**

- Chemistry
- Physics
- Earth and universe sciences, space
- Biology, medicine, health
- Agricultural and ecological sciences
- Engineering sciences

*The degree specialties are linked to the scientific domains of the MESR, and are close to the titles of the CNRS and CNU sections*

## ➤ **13 Doctoral thesis specialties**

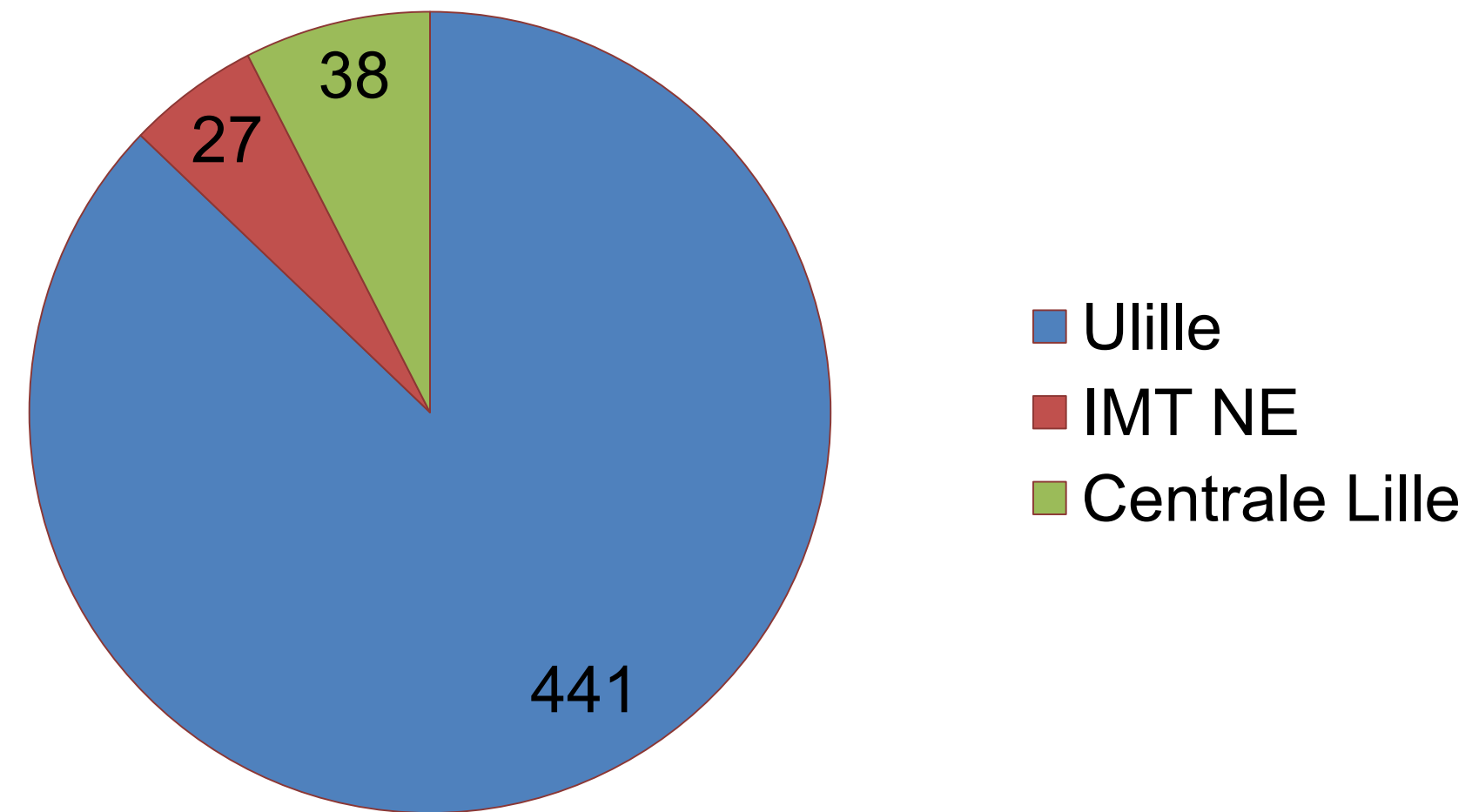
- Milieux dilués et optique fondamentale
- Milieux denses, matériaux et composants
- Sciences de la Terre et de l'univers
- Terre, enveloppes fluides
- Chimie théorique, physique, analytique
- Chimie organique, minérale, industrielle
- Chimie des matériaux
- Aspects moléculaires et cellulaires de la biologie
- Energétique, thermique, combustion
- Mécanique des solides, des matériaux, des structures et des surfaces
- Biotechnologies agroalimentaires, sciences de l'aliment, physiologie
- Sciences Agronomiques
- Biologie de l'environnement, des organismes, des populations, écologie

# The SMRE GS in numbers

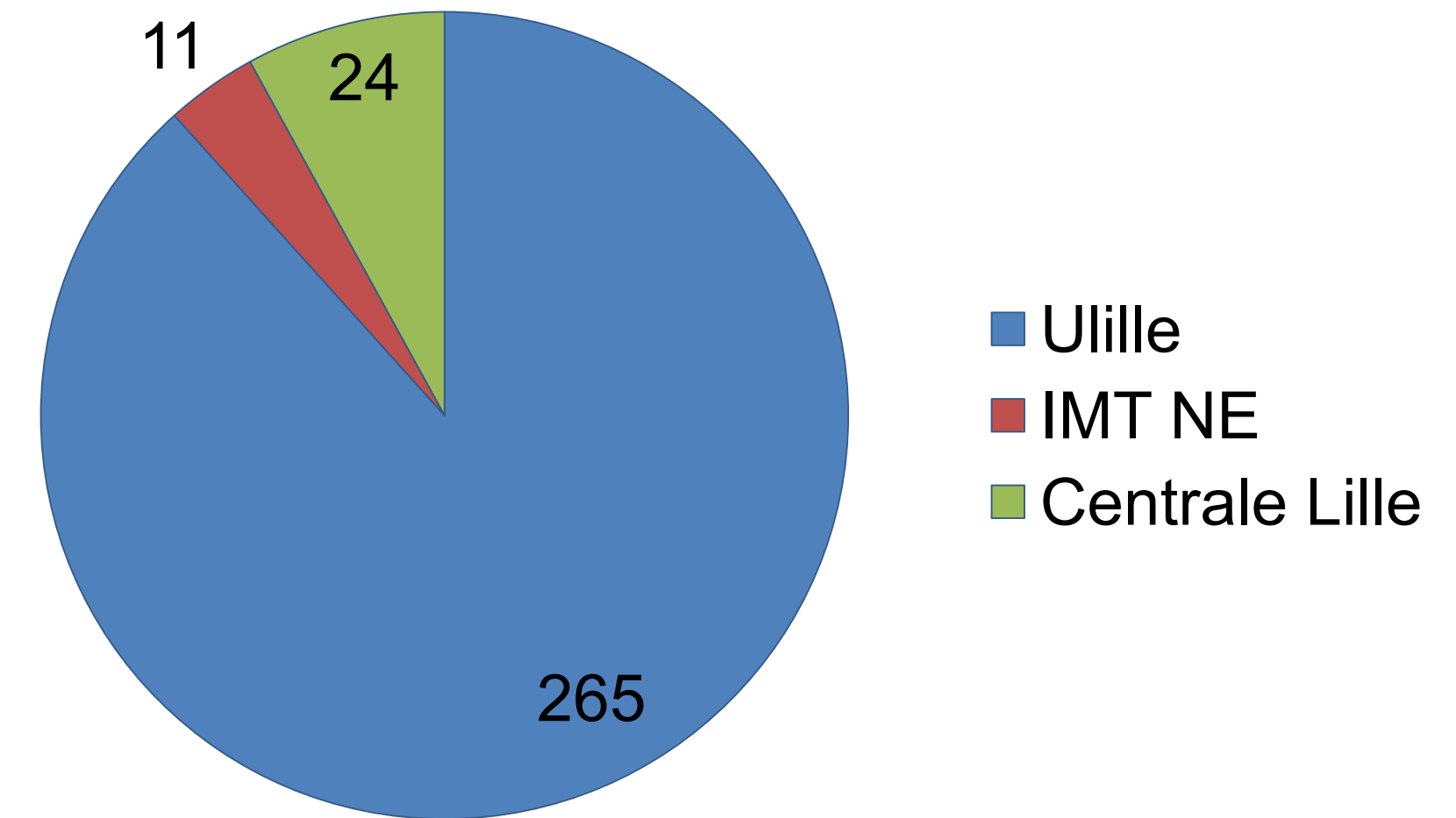
3 co-accredited institutions: Univ Lille, Centrale Lille Institut, IMT Nord Europe  
=> they award the degree of doctor

In 2024: about 500 researchers including 300 with HDR (Habilitation to Supervise Research)

Researchers per institution



HDR per institution



# Place of the SMRE GS in the Doctoral landscape of Lille (2024)

number of registrations/establishment in 2023-2024	
U Lille	274
Centrale Lille	52
IMT NE	29
<b>Total</b>	<b>355</b>

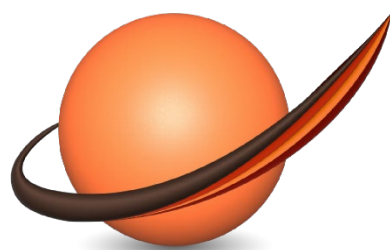
## ➤ PhD students in 2023-2024

- Total number: 355
- 15% of total registrations
- Ratio F/M: 44%/56%
- International PhD students: 57%

Defences in 2024	
U Lille	85
Centrale Lille	15
IMT LD/NE	13
<b>Total</b>	<b>113</b>

## ➤ Defences

- about 100-110/year
- 25% of the total defences



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# The SMRE GS in numbers (continued)

International PhD students: **57%** (58% in 2019, 50% in 2013)

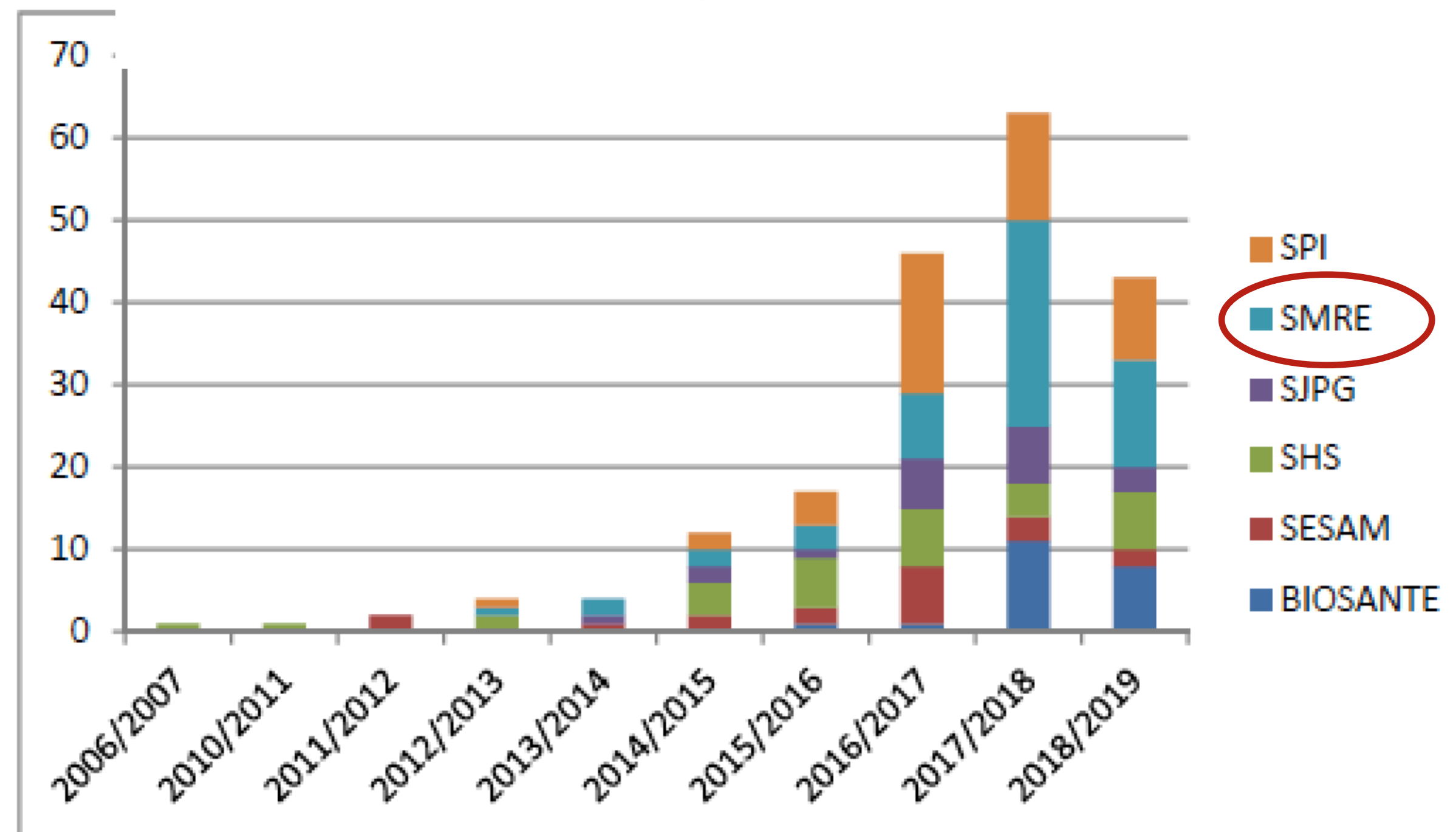
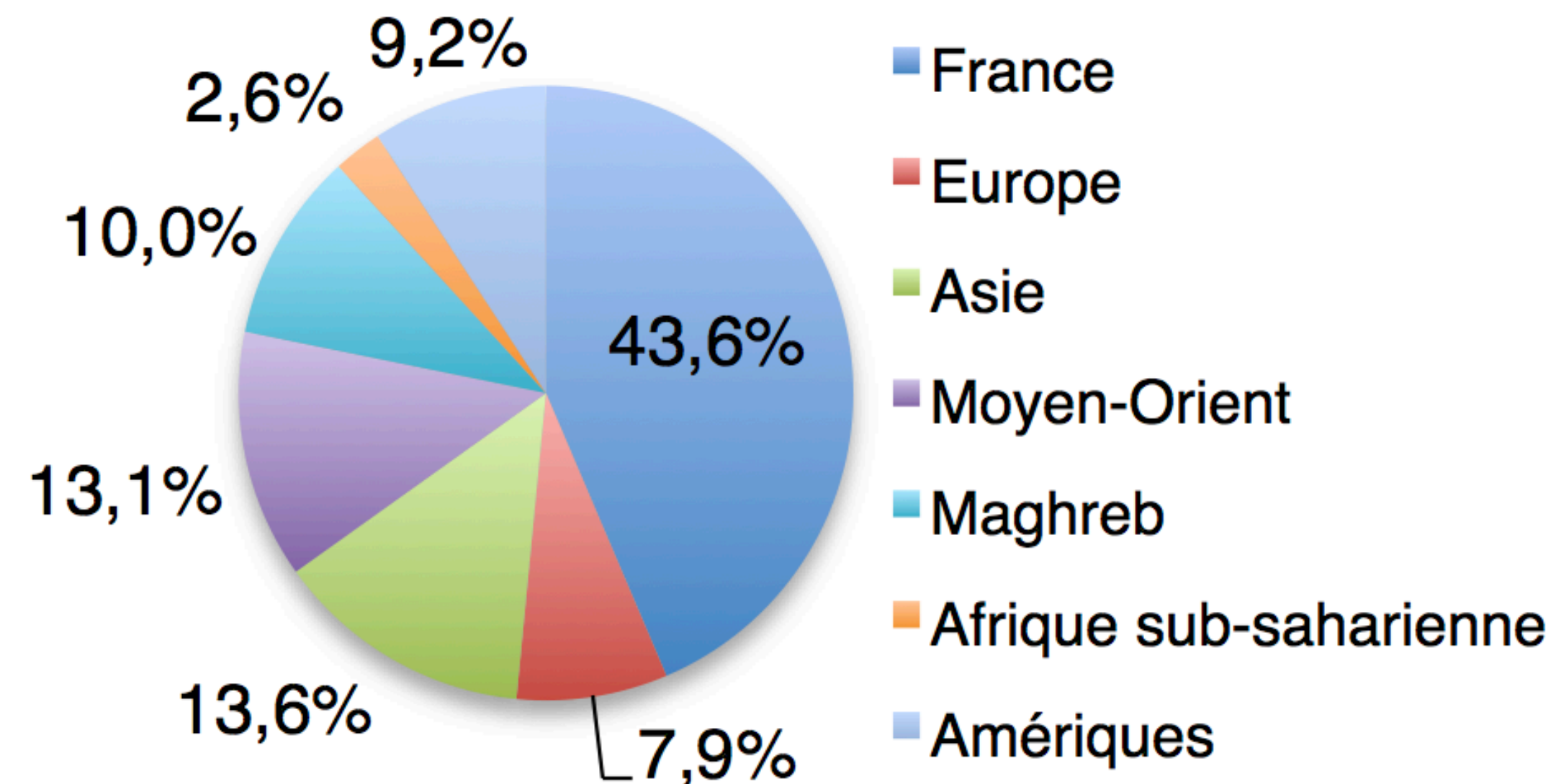
## Funding/types of contract

Public law PhD contract: **68**

CIFRE (contract with a company): **6**  
(26 out of all PhD students in 2023)

Joint thesis with a foreign partner: **15**  
(62 out of all PhD students in 2023)

**Number of international  
joint thesis**





# Governance of the GS

## ➤ The Executive Board

- Direction + Deputy Director + Coordinator + Secretary of the GS
- Implementation of missions + improvement/evolution of GS operations

## ➤ The Educational Committee

- Members of the executive board + 8 Directors of Doctoral Studies (DED in French) + responsables for the Graduate Programs SCP and IKS
- In charge of preselecting PhD candidates, organizing training courses to develop the skills of doctoral students and to prepare their professional careers

## ➤ The Graduate School Council

# The GS Council

(Ministerial decision of May 25, 2016 on the doctorate)

- **The Council is composed of 23 members**
  - 12 laboratory and institution representatives
  - 2 representatives of the technical and administrative staff
  - 5 PhD student representatives
  - 4 external personalities from the scientific or socio-economic sectors
- **Permanent invited members**
  - representatives of co-accredited institutions (Deputy President for Research or equivalent)
  - representative of the Doctoral College + responsible of GP
  - representative of the Science and Technology Faculty
  - representative of the HdF Region

**The Council adopts the Graduate School's action programme**



# Your representatives in the GS Council

Your representatives	
Name First name	Lab/Institution
BELURIER Allane	BioEcoAgro, ULille
ALI SAID Fayida	LASIRE, ULille
LESUEUR Philippe	LOA, ULille
MOLINES Chloé	UMET, ULille
IUNG Alexis	CERI MP, IMT Nord Europe

Alternate representatives	
NAME First name	Lab/Institution
TEUFFO Florian Jildas	BioEcoAgro, ULille
SHALAK Mohamad	LASIRE, ULille
MIRI Robin	LOA, ULille
SALAUN Pauline	UMET, ULille
PASCAUD Marius	CERI EE, IMT Nord Europe

# What are the missions of the GS ?

## ➤ To recruit PhD students and support them during their thesis

- Thesis funding + Recruitment of PhD students
- Support of PhD students



## ➤ Organise doctoral training and promote international mobility and outreach

- Training plan
- International or national mobility support



## ➤ Prepare the PhD student's career path

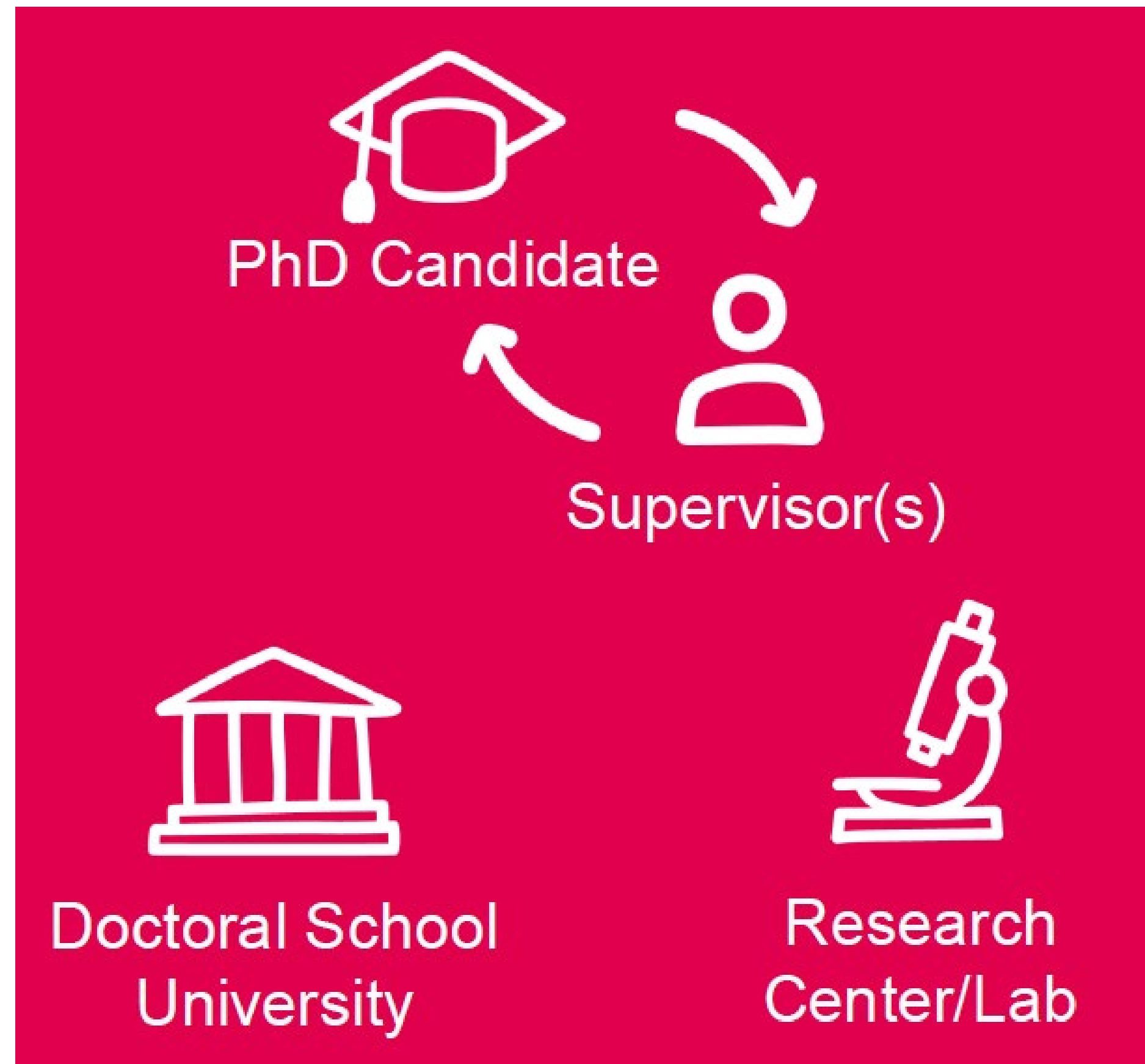
- Training courses of the Doctoral College
- Doctoriales, ChallengeDoc, DocEmploi,... (refer to « Startdoc » conference)





# What is a PhD in the SMRE GS ?

A doctoral candidate is:



- **An early career researcher**  
Doing full or part-time research in an academic research lab
- **Enrolled in a doctoral programme**  
Offered by the GS with a supervisor providing personalized mentorship, and with an annual follow-up committee
- **Average duration**  
3 (or 4) years

# PhD thesis funding

## ➤ **Mandatory funding for the entire duration of the thesis (3 or 4 years)**

- Doctoral contract (decree of 23/04/2009, fixed-term public law employment contract) :  
~ minimum 2200 € gross/month for 3 years (depending on the employer)
- Fixed-term contract (CDD) : according to the employer's salary scale
- Fellowship and/or international joint thesis : variable from one PhD student to another

## ➤ **Decided by the GS Council in 2022**

In case of fellowship/grants and/or international joint thesis

Until 2024 to regularly increase the salary to get closer to the doctoral contract amount during the periods spent in France

- 1400€ net/month minimum for PhD theses starting in 09/2024

## ➤ **When the thesis goes beyond the initial duration for a good reason**

Provide financial support to the PhD student during the additional period spent in the laboratory (1400€/month from 09/2024)



# Functioning of the Graduate school: some rules

- **Monitoring of the supervision rate:**
  - no more than 5 supervised or co-supervised theses per researcher with accreditation to supervise research (HDR in French)
  - no more than 3 new supervisions per year
- **Thesis monitoring:** Individual monitoring committee (see further)
- **Before each new registration:** individual interview with the Director of Doctoral Studies (DED) of your lab/scientific domain + annual validation of the training programme (credits) + **report of the individual monitoring committee**
- **Authorization to start the defence procedure:** final interview with the DED, closure of the training plan, proposal for reviewers and jury ⇒ **approximately 11 weeks before the defence**
- **Mediation procedure** in case of problems / if necessary

# The Individual Monitoring Committee

- **Two meetings at the minimum (mandatory)**
  - 📅 End of each academic year (September to August)
  - 📅 Two reminders from the GS secretary, in May and early September
  
- **Co-organised by the doctoral student and his/her supervisor**
  - 📅 Two committee members from outside the institution/lab and the doctoral project
  - 📅 Same committee members during the 3 years of the thesis (ideally)
  - 📅 Template of the committee report available on the GS website
  
- **Provide the report of the Committee to the GS secretary before each new registration**

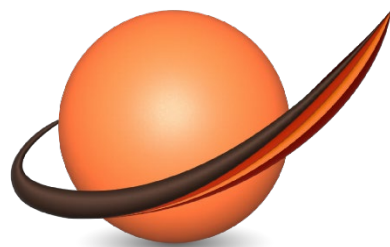


# Mission and activities of Directors of Doctoral Studies (DED)

**Ensure the link between the Executive Board and the research domains (laboratories)**

**Ensure close follow-up of PhD students**

- **Welcome/information to the PhD student on arrival in the laboratory**
- **Annual individual interview with PhD student before each new registration:**
  - discussion about his/her training plan
  - validation of training courses (credits)
  - progress of the thesis / possible difficulties
  - valorisation of the thesis (publication(s), oral communications, posters, etc.)
- **Final interview 12 weeks before the defence**
  - review of training and work
  - control of the composition of the jury



# Who is your Director of Doctoral Studies (DED)?

Name of DED / Laboratory	Vincent Phalip	Xavier Vekemans	Nicolas Tribovillard	Justine Crique	Frédéric Parol	Céline Toubin	Ingrid Proriot-Serre	Maude Jimenez	Jean-François Paul	Sylvie Daviero
UCCS										
UMET										
MSAP										
CERI MP										
LASIRE										
PhLAM										
LOA										
PC2A										
CERI EE										
LOG										
EcoEvoPaleo										
LGCgE										
BioEcoAgro										



# The training programme

The PhD student builds his/her own program



## ➤ 3 domains of training

- Scientific (doctoral and master lectures, summer school, etc.)
- Transversal skills (languages, scientific writing, *scientific ethics\**, *open sciences\**, etc.)
- Professionalization (lectures by external speakers, Doctoriales, PhD Job Days, etc.)

## ➤ Obtain a minimum of 60 GS credits spread over the 3 years of the thesis

- About 120h total of training
- Reduced to 30 GS credits (60h) in case of international joint doctorate
- On average: 5 credits/day and 1 credit/2 hours of in-person classes,  
1 credit/4 hours of on-line course

## ➤ Specific training programme offered by the Graduate Programmes

\* Mandatory : 10 credits in total

# The Graduate Programmes

**The research activities of the SMRE laboratories are mainly related to the SCP and the IKS GP**

<http://www.isite-ulne.fr/index.php/en/graduate-programme-science-for-a-changing-planet/>

<http://www.isite-ulne.fr/index.php/en/graduate-programme-information-knowledge-society/>

## Science for a Changing Planet (SCP) Graduate Programme



Coordinators:  
Pr. Sophie Duquesne  
Pr. Céline Toubin

## Information and knowledge Society (IKS) Graduate Programme



Coordinator:  
Pr. Marc Lefranc

## Thematic and enhanced (Master + PhD) training:

- a dedicated training plan
- a summer school conference
- some specific events, etc.

**Since 2021 some PhD students are included in the Graduate Programmes**

**For additional information see the presentation by Pr. M. Lefranc, C. Toubin and S. Duquesne**



# The defence procedure



## ➤ **How to obtain the PhD degree:** Conditions fixed by the SMRE GS

- 1 scientific publication (minimum)
  - Oral(s) in international workshop(s)
  - Training program (about 120h total)
- Checked by the DED during the final interview
- A peer review thesis dissertation  $\Rightarrow$  2 favourable reports required
  - An oral defence

## ➤ **After the defence, the doctoral student takes an oath**

« In the presence of my peers. With the completion of my doctorate in [research field], in my quest for knowledge, I have carried out demanding research, demonstrated intellectual rigour, ethical reflection, and respect for the principles of research integrity. As I pursue my professional career, whatever my chosen field, I pledge, to the greatest of my ability, to continue to maintain integrity in my relationship to knowledge, in my methods and in my results. »

# Professional integration of SMRE PhD 2020 after 3 years (in December 2023)

	ED SMRE	Ensemble des docteurs 2020 de l'I-SITE ULNE
Taux d'emploi <sup>1</sup>	86%	88%
Taux d'insertion <sup>2</sup>	90%	91%
Part d'emplois de niveau cadre et professions libérales <sup>3</sup>	100%	98%
Part d'emplois à durée indéterminée <sup>3</sup>	85%	72%
Part d'emplois à temps plein <sup>3</sup>	100%	97%
Part d'emplois localisés dans les Hauts de France <sup>3</sup>	21%	32%
Part d'emplois dans le monde académique <sup>3 et 4</sup>	29%	34%
Part de postdoc ou CDD scientifique	8%	15%
Salaire/revenu net mensuel médian avant imposition (primes comprises) des emplois à temps plein situés en France	2 759 €	2 700 €

1 (diplômés en emploi / diplômés) x 100.

2 (diplômés en emploi / (diplômés en emploi + diplômés en recherche d'emploi)) x 100.

3 calculée par rapport aux diplômés en emploi.

4 monde académique = université ou établissement d'enseignement supérieur public ou privé, EPIC, EPST.



# Employer's business sector

	ED SMRE	Ensemble des docteurs 2020 de l'I-SITE ULNE
Privé	60%	47%
Public	34%	47%
Associatif	6%	6%
	<b>100%</b>	<b>100%</b>

	ED SMRE	Ensemble des docteurs 2020 de l'I-SITE ULNE
Enseignants-chercheurs titulaires	10%	9%
Enseignants chercheurs contractuels (dont ATER)	2%	1%
Chercheurs titulaires et assimilés	-	2%
Post-doctorants	8%	14%
Chercheurs contractuels (hors postdoc)	3%	3%
Autres enseignants (supérieur, secondaire, primaire)	7%	14%
Cadres de la fonction publique	3%	8%
Ingénieurs et cadres techniques	60%	36%
Autres cadres (hors FP)	5%	7%
Professions intermédiaires	-	2%
Autres : chefs d'entreprise, profession libérale	2%	4%
	<b>100%</b>	<b>100%</b>

# Communication tools

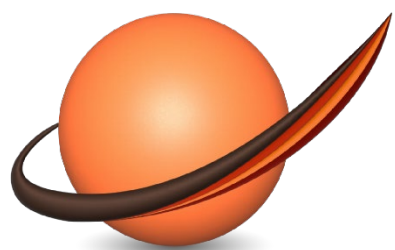
L'EG SMRE communique et valorise les travaux des doctorantes et doctorants via les réseaux sociaux, actuellement via :

The SMRE Graduate School communicates and promotes PhD students' work, currently through:

**LinkedIn** ⇒ <https://www.linkedin.com/school/ed-smre/>

**X/Twitter** ⇒ [https://x.com/ED\\_SMRE](https://x.com/ED_SMRE)





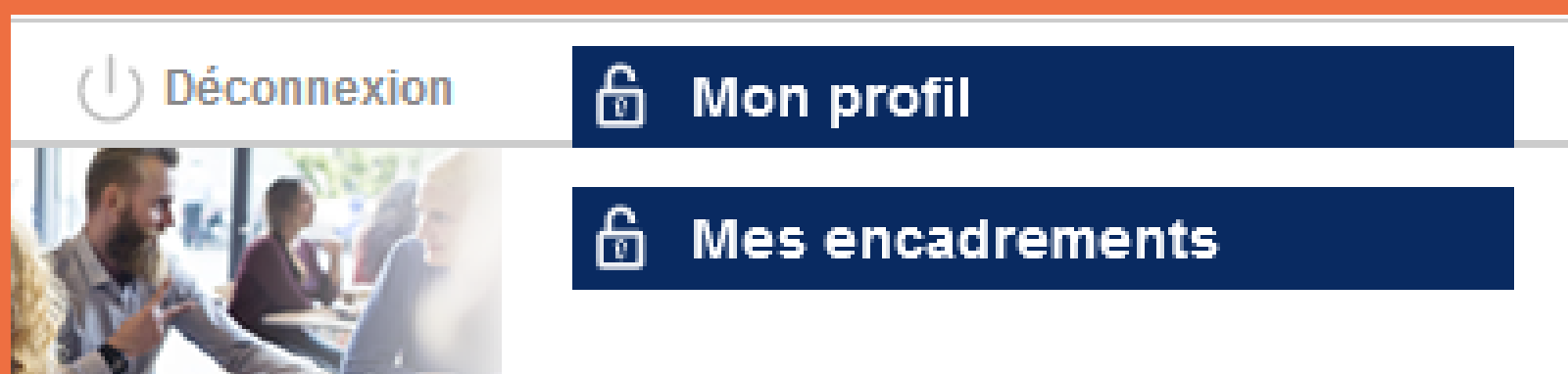
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# Communication tools

Vous pouvez nous aider en : | You can help by:

- vous abonnent à nos pages | subscribing to our pages
- nous identifiant sur vos messages sur ces réseaux | tagging us if you post on these networks
- nous informant de vos comptes via ADUM si vous en avez | inform us of your accounts through ADUM if you have any

En haut à droite de votre page ADUM  
*Top right of your ADUM page*



## Mon Profil - Mme Véronique RIFFAULT n° [REDACTED]

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- **Laboratoire** : CERI EE Centre d'Enseignement de Recherche et d'Innovation Energie Environnement
- **Etablissement** : IMT Nord Europe
- **Ecole Doctorale** : Sciences de la Matière du Rayonnement et de l'Environnement n°104
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- **identifiant IdHAL** : <https://cv.archives-ouvertes.fr/veronique-riffault>
- **Compte LinkedIn** : <https://www.linkedin.com/in/vriffault/>
- **Compte Twitter** : <https://twitter.com/VRiffault>
- **Compte ResearchGate** : [https://www.researchgate.net/profile/Veronique\\_Riffault](https://www.researchgate.net/profile/Veronique_Riffault)
- **Compte Clarivate** : <https://publons.com/researcher/2762549/veronique-riffault/>



*Thank you for your attention*

*Any questions?*



**Graduate School - 104**

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