

Collège Doctoral | Université de Lille

10<sup>e</sup> édition

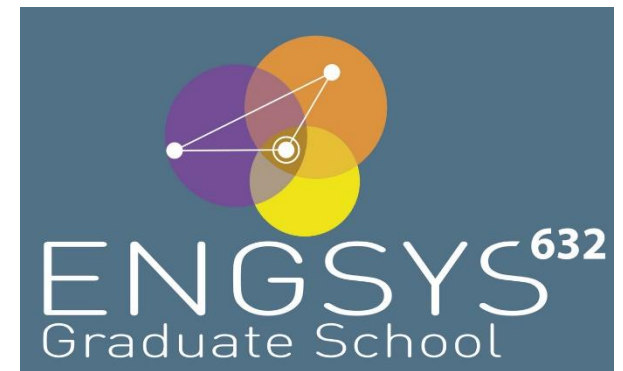
# Rentrée doctorale

Lille Grand Palais ↓

17 Décembre 2024 • 14h - 18h

- EG BSL
- EG ENGSYS
- EG MADIS
- EG SESAM
- EG SHS
- EG SJPG
- EG SMRE
- ED PHF

En partenariat avec → BNF Nord Europe, centralelille, Université Gustave Eiffel, Université Polytechnique HAUTS-DE-FRANCE, Avec le soutien de → Région Hauts-de-France



## ENGINEERING and SYSTEMS SCIENCES Sciences de l'ingénierie et des systèmes

## **You have been recruited as a PhD student**

You should be proud of yourself

### **You have acquired skills needed for PhD student**

- Communication skills (interview with your supervisor)
- You know how to manage your time
- You know how to work efficiently
- Open mind
- ...

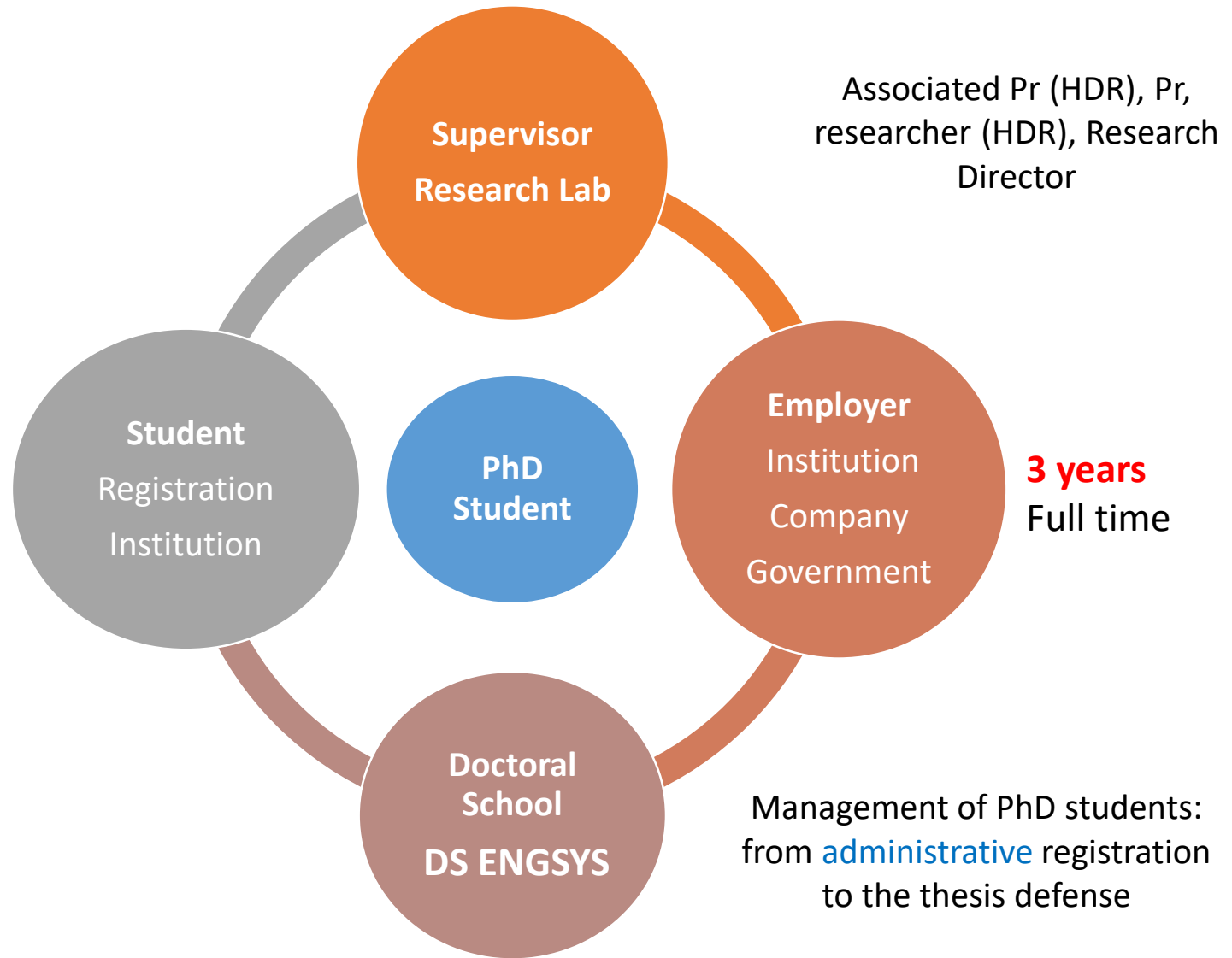
### **During your thesis**

- You will learn about your subject
- You will contribute to produce new scientific results
- You will acquire complementary skills

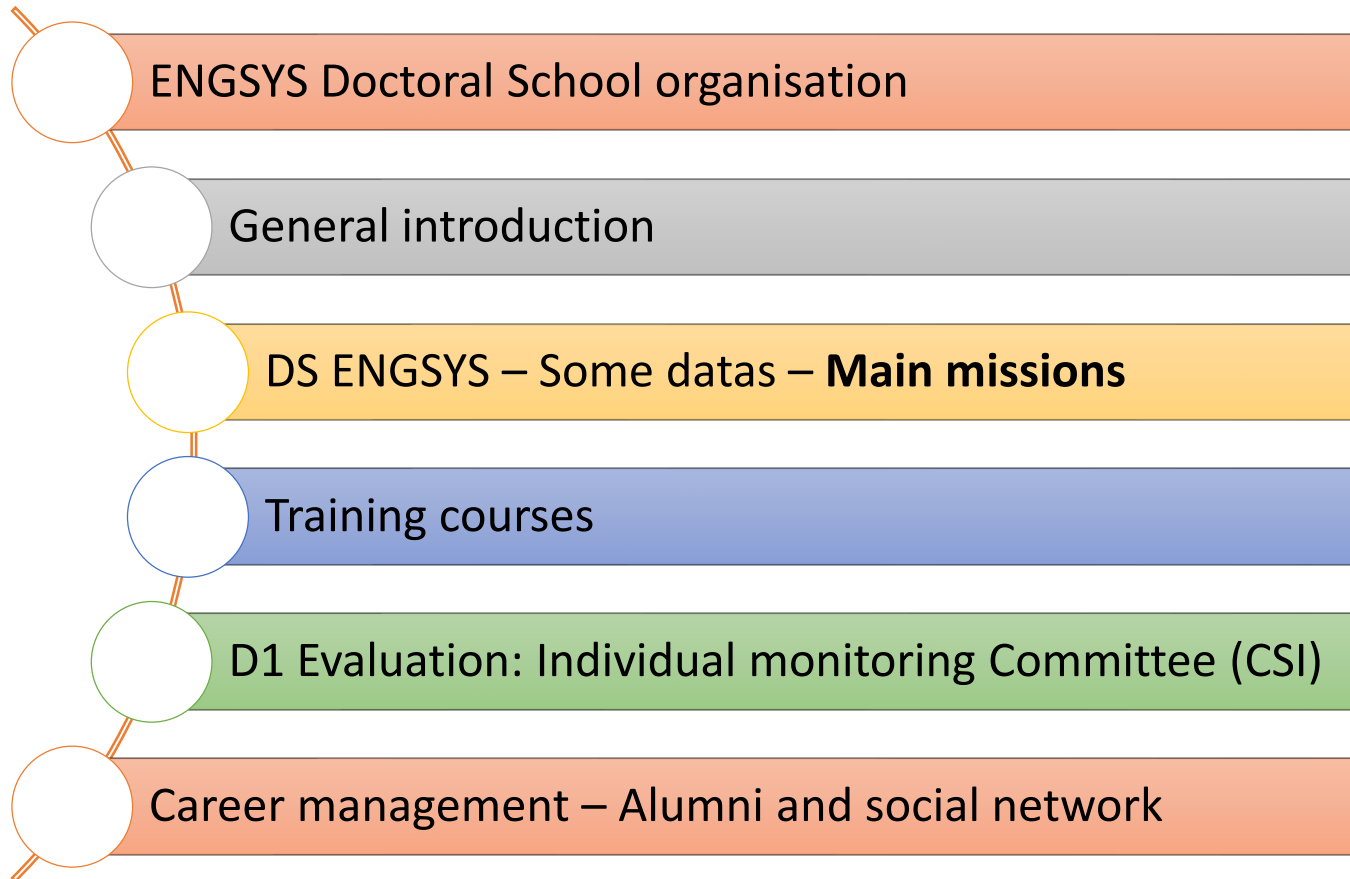
A long journey with highs and lows towards

**PhD**

# General introduction



# D1 StartDoc meeting - Outline



- **Graduate program IKS**  
Pr Marc LEFRANC



**ADSL**  
Charlotte DEMULLIER



# GS ENGSYS – References (1/3)

Director

[Dir-edengsys@univ-lille.fr](mailto:Dir-edengsys@univ-lille.fr)  
[Henri.happy@univ-lille.fr](mailto:Henri.happy@univ-lille.fr)

Administration

[Sec-edengsys@univ-lille.fr](mailto:Sec-edengsys@univ-lille.fr)

Mrs Thi NGUYEN  
[Thi.Nguyen@univ-lille.fr](mailto:Thi.Nguyen@univ-lille.fr)

Mrs Céline ZAKA-SAADE  
[celine.saade@univ-lille.fr](mailto:celine.saade@univ-lille.fr)

Web site

Accessibilité Dyslexie Contraste Mode sombre Contacts Université de Lille

Ecole doctorale  
**Sciences de l'Ingénierie et des Systèmes**  
EGENGSYS

Accueil Présentation - Documents International Avant le doctorat Inscription via ADUM Pendant le doctorat Après le doctorat Direction de thèses Calendriers, annuaires et soutenances Infos pratiques Devenir des docteurs

**Bienvenue à l'Ecole Graduée ENGSYS-632** <https://edengsys.univ-lille.fr>

Créée en septembre 2021, l'Ecole doctorale (ED) ENGSYS-632, qui couvre le secteur des sciences de l'ingénierie et des systèmes, est l'une des 7 écoles graduées du Collège des Etudes Graduées de l'Université de Lille.

Actualités

Environ 300 doctorants y préparent leur doctorat dans l'un des 3 domaines suivants:

# GS ENGSYS: Organization (2/3)

## Executive Board



**Director**  
**Pr Henri HAPPY**

**Administration**  
**Thi NGUYEN**  
**Céline ZAKA-SAADE**

**MNTAT Leader (DED)**  
**Pr Vincent THOMY**

**MGCEM Leader (DED)**  
**Pr Damien SOULAT**

**GE Leader (DED)**  
**Pr Frédéric GIRAUD**

**Microelectronic,  
NanoTechnology,  
Acoustic and  
Telecoms  
(MNTAT)**

**Mechanic, Civil  
Engineering, Energy  
and Materials  
(MGCEM)**

**Electrical  
Engineering  
(GE)**

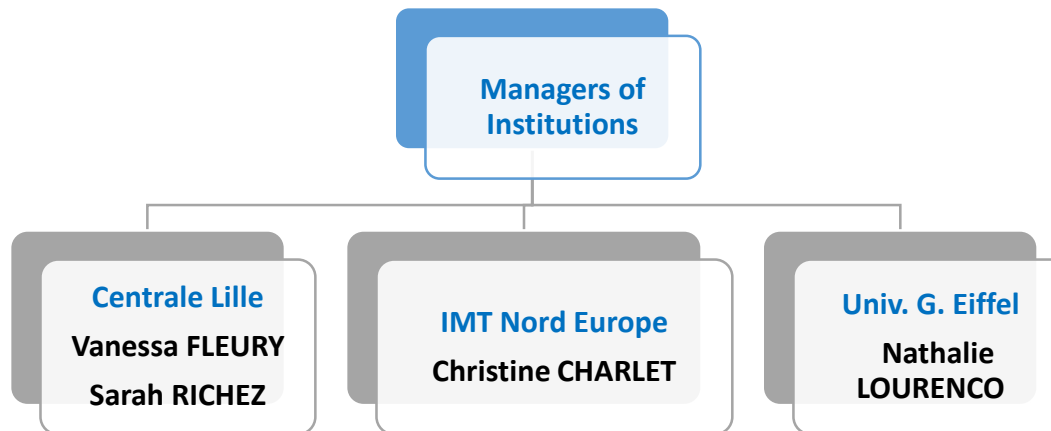
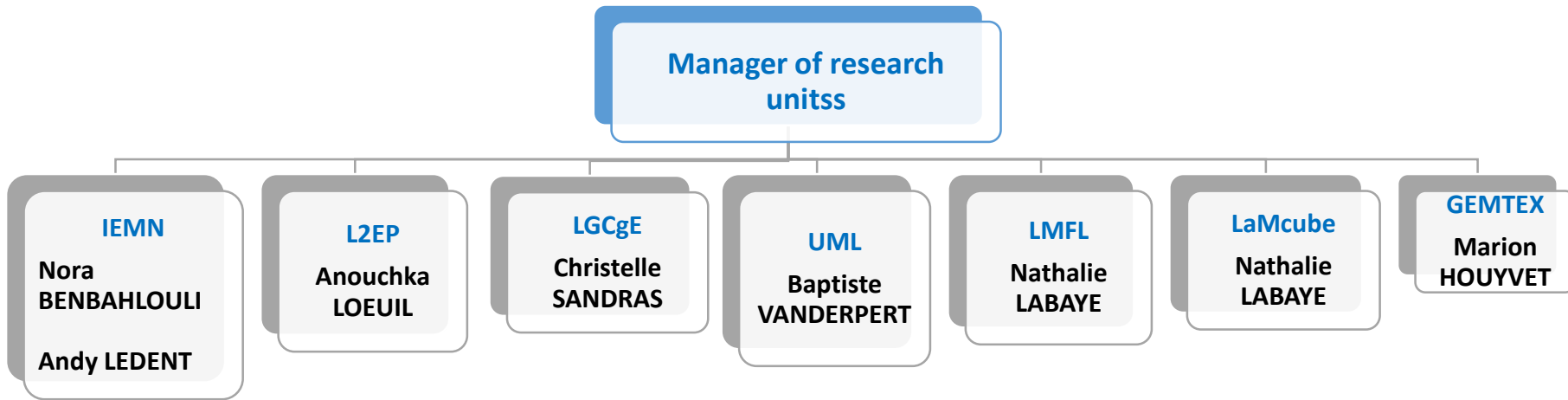
## Legislative Board

**Council of ENGSYS**

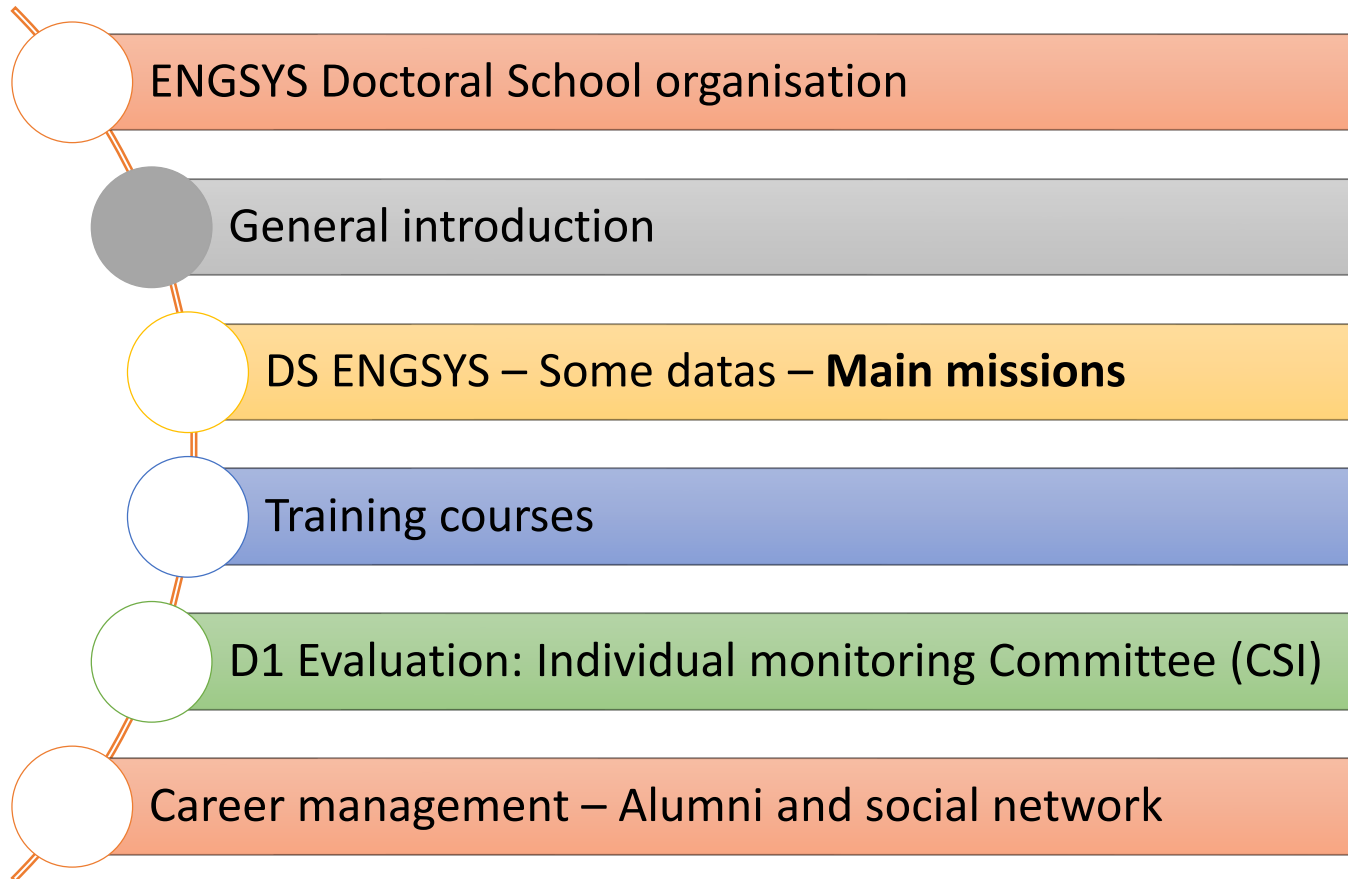
**26 members**  
(including 5 PhD  
representatives)



# GS ENGSYS: Managers of research units (3/3)



# D1 StartDoc meeting - Outline



- **Graduate program IKS**  
Pr Marc LEFRANC



**ADSL**  
Charlotte DEMULLIER





# General introduction

**PhD study in France is defined by a law**

**Arrêté du 25 mai 2016**

Replaced by

**Arrêté 26 août 2022**

Internal rules of procedure of Doctoral School derive from this law

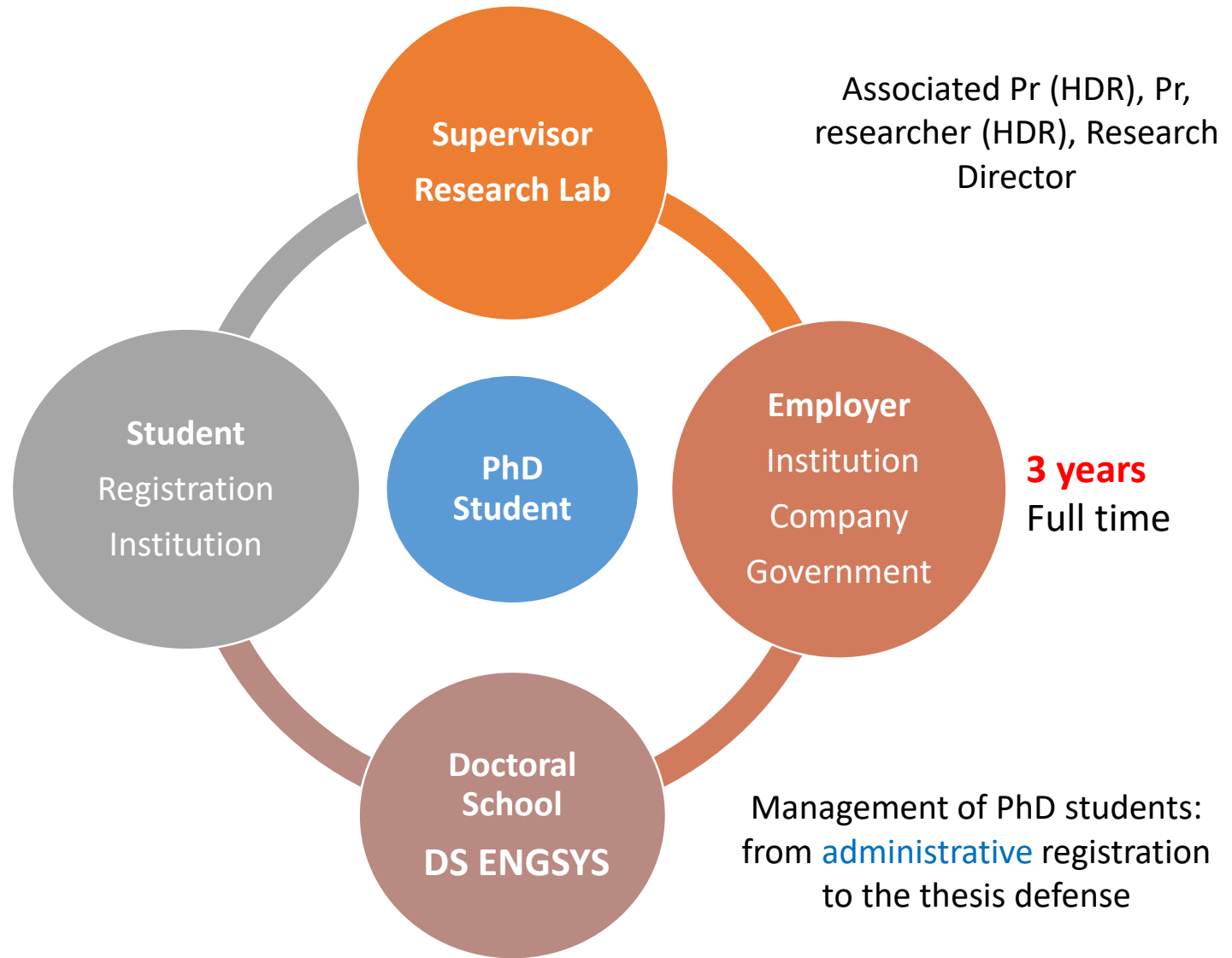
All the doctoral students must be registered in a **Doctoral School**

Policy of « University of Lille »: Development of **Graduate Programs**



**IKS – Information and Knowledge Society**

# General introduction



# General introduction

## PhD student



Carte d'étudiant



Only few Institutions could deliver the PhD diploma

## Employment contract

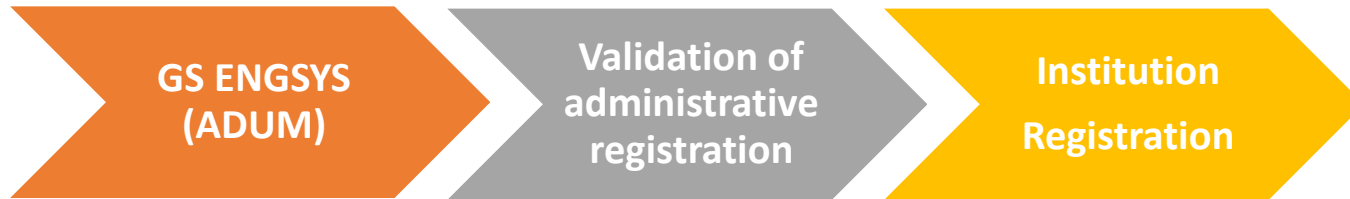
PhD thesis is a real work –  
The beginning of your professional career



Social security contributions  
Unemployment contributions

In the event of illness, sick leave certificate  
Very important in case of chronic illness

# General introduction



Institution	Contact
Université de Lille (ULille)	<a href="mailto:Celine.saade@univ-lille.fr">Celine.saade@univ-lille.fr</a>
Centrale Lille Institut (CLille)	<a href="mailto:Scolarite.phd@centralelille.fr">Scolarite.phd@centralelille.fr</a>
Institut Mines Nord Europe (IMT)	<a href="mailto:inscription@imt-douai.fr">inscription@imt-douai.fr</a> <a href="mailto:christine.charlet@imt-lille-douai.fr">christine.charlet@imt-lille-douai.fr</a>
Université Gustave Eiffel (Univ. Eiffel)	<a href="mailto:Nathalie.lourenco@univ-eiffel.fr">Nathalie.lourenco@univ-eiffel.fr</a>

# General introduction



ACCÈS DOCTORAT UNIQUE ET MUTUALISÉ

PORTAIL INTERNET D'INFORMATIONS, DE SERVICES, DE COMMUNICATION, DES DOCTORANTS ET DOCTEURS

THE ADUM MY ADUM ACCOUNT RESEARCH NEWS EMPLOYMENT DOCTORATE INFORMATION



Login to your private space

Recherchez sur ADUM

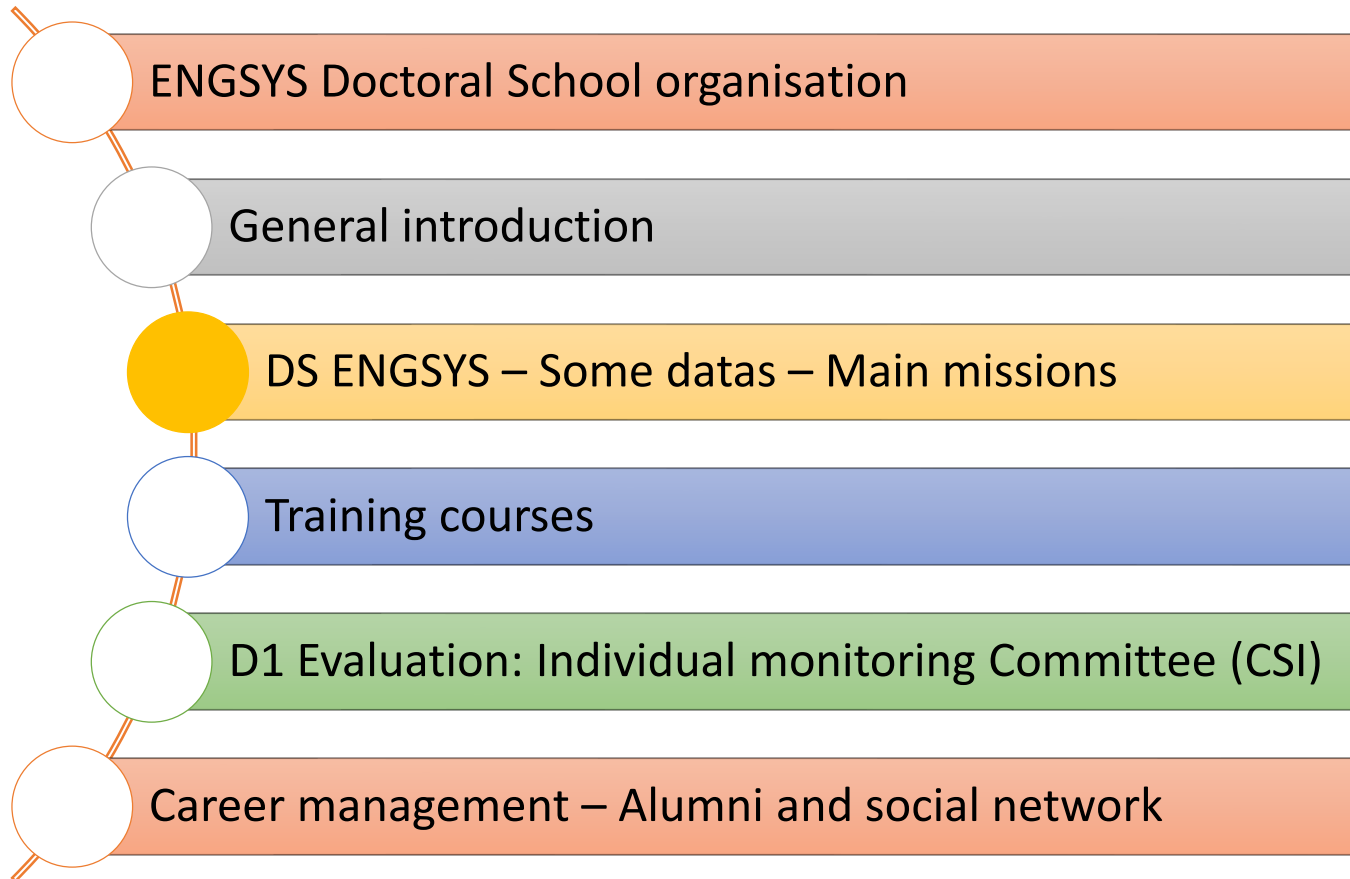


## THE ADUM NETWORK

Languedoc Roussillon	Midi Pyrénées	Marseille	Grenoble Savoie	Bourgogne Franche-Comté	Lorraine	Reims	Paris-Est	Paris	PSL	Paris-Saclay	Institut Polytechnique de Paris
Cergy-Pontoise	Nanterre	Bordeaux	Pau	Centre Val de Loire	<b>Lille</b> <b>Nord de France</b>	Amiens	La Réunion	Nice	Limoges	Clermont-Ferrand	



# D1 StartDoc meeting - Outline



- Graduate program IKS
- Pr Marc LEFRANC



ADSL



## You are not alone during your thesis

### You are working in a research unit

Open your mind (participation to scientific seminars)

Talk with other doctoral students

Take part in the activities of doctoral student associations

Create your own network



**ADSL**



# GS ENGSYS: datas (January 2023) (1/2)

## 185 HDR

Disciplinary field	Research units	
MGCEM (79) Damien SOULAT	<div style="border: 1px solid red; padding: 2px; display: inline-block;">LAMCUBE (23)</div> <div style="border: 1px solid red; padding: 2px; display: inline-block; margin-left: 10px;">LMFL (7)</div> <div style="border: 1px solid red; padding: 2px; display: inline-block; margin-left: 10px;">LGCGE (18)</div> <div style="border: 1px solid red; padding: 2px; display: inline-block; margin-left: 10px;">UML (13)</div>	<div style="border: 1px solid black; padding: 2px; display: inline-block; margin-left: 20px;">CERI EE, MP, SN (5)</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-left: 20px;">Autres (2)</div>
MNTAT (90) Vincent THOMY	<div style="border: 1px solid black; padding: 2px; display: inline-block; margin-left: 20px;">COSYS (4)</div> <div style="border: 1px solid red; padding: 2px; display: inline-block; margin-left: 20px;">IEMN (82)</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-left: 20px;">Autres (3)</div>	<div style="border: 1px solid red; padding: 2px; display: inline-block; margin-left: 20px;">GEMTEX (11) (1)</div>
GE (16) Frédéric GIRAUD	<div style="border: 1px solid red; padding: 2px; display: inline-block; margin-left: 20px;">L2EP (16)</div>	

HDR per Institutions						
	ULille	Centrale Lille	UGE	IMT	Autres	
GE	8	6			2	16
MNTAT	74	4	4	1	7	90
MGCEM	48	14		13	4	79
	<b>130</b>	<b>24</b>	<b>4</b>	<b>14</b>	<b>13</b>	<b>185</b>



## PhD per Institution

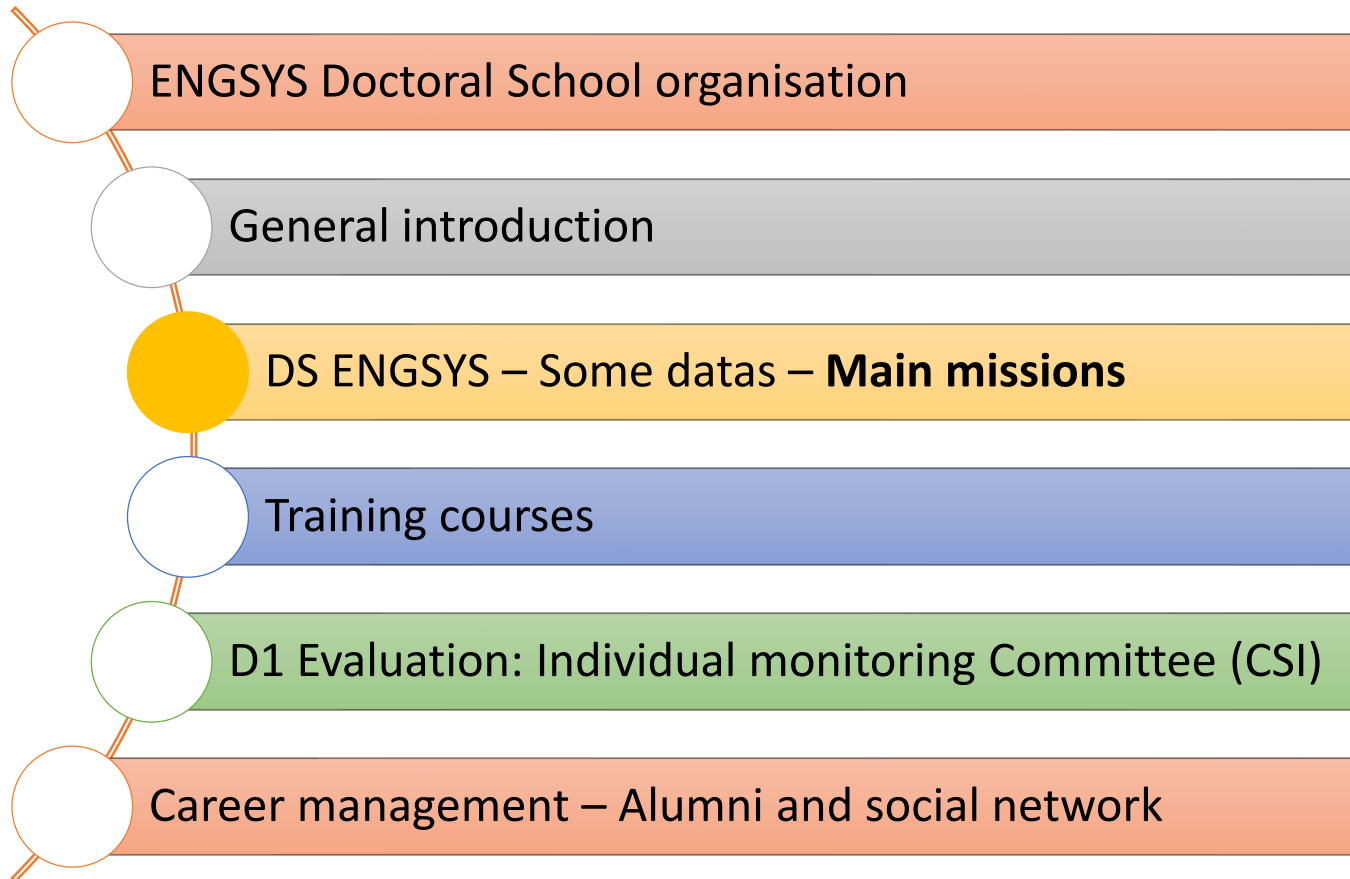
Inscrits 2022-2023 par année et par établissements						
Année de thèse/établissement	D1	D2	D3	D4	D5 et plus	
ULille	45	46	60	33	2 + 2 D6)	<b>188</b>
Centrale Lille	14	21	20	8		<b>63</b>
UGE	1	2	1			<b>4</b>
IMT	4	5	7	2		<b>18</b>
	<b>64</b>	<b>74</b>	<b>88</b>	<b>43</b>	<b>4</b>	<b>273</b>

Registration (2022-2023) by year						
Année de thèse	D1	D2	D3	D4	D5 et plus	
GE	14	7	8	8		<b>37</b>
MNTAT	21	30	38	20	1	<b>110</b>
MGCEM	29	37	42	15	3	<b>126</b>
	<b>64</b>	<b>74</b>	<b>88</b>	<b>43</b>	<b>4</b>	<b>273</b>

**Gender: W (74 - 27%) - M (199 - 73%)**

**Withdraw - 01**

# D1 StartDoc meeting - Outline



- Graduate program IKS – Pr Marc LEFRANC

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- **Agreement for PhD registration in co-accredited institution (CLille, ULille, IMT, Univ Eiffel)**
  - Documents needed for an application to doctoral studies (transcripts of records, motivation,...)
  - Funding (proof of funding for the PhD duration)
  - Supporting letter from the proposed supervisor and agreement of the laboratory director
  - **Terms and conditions of the thesis**
- **Agreement for the joint supervision and awarding of a double doctoral degree (co-tutelle)**

# ENGSYS Graduate School – Main missions (2/3)

- ➔ **Organization of Individual Monitoring Committee (CSI)** (*mandatory each year before registration according to the new doctoral rules*)

**CSI ensures that the thesis runs smoothly**

- ➔ **Doctoral trainings (in collaboration with Doctoral College)**

- ➔ **Practical information throughout your thesis**

- ➔ **Agreement for the PhD defense**

**Number of required credits**

**PhD committee and reviewers**

**Reports by reviewers before defence**

## Advice

- **Read your thesis charter**
- **Read again the terms and conditions of your thesis define in the CIF**  
**(*Convention individuelle de formation* – Individual convention agreement)**  
*– This document can/should be updated each year*

# ENGYSYS Graduate School – Not responsible for:

- PhD annual registration (fees) in your institution (CLille, ULille, IMT, Univ G. Eiffel)

Register at your **institution**

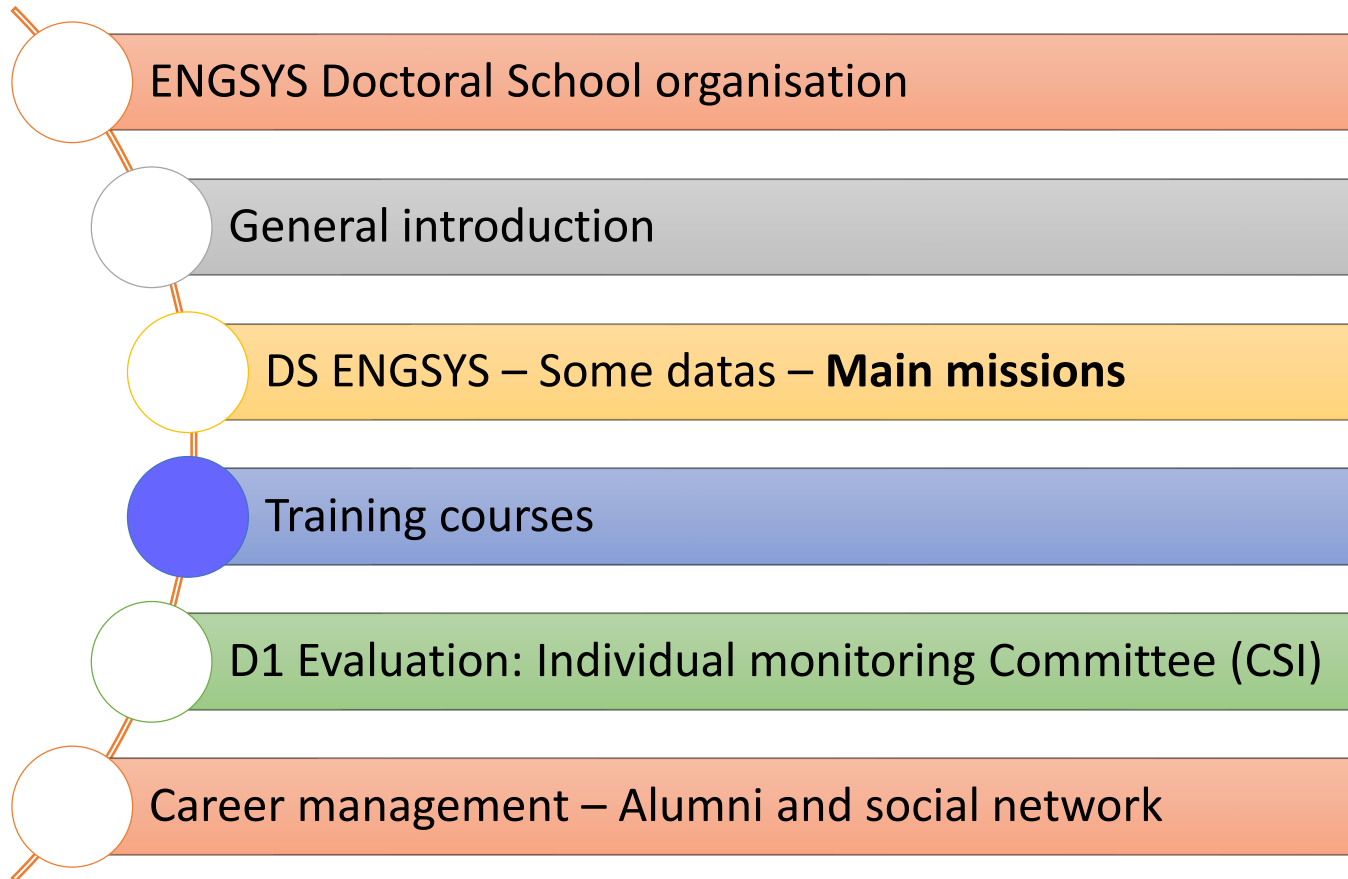
**Pay the registration fees** and obtain your student card.

**(Your responsibility)**



- **Mobility grants for participation to doctoral trainings or conferences**
- **Registration fees for MOOC**
- **Organisation of the PhD defense**
- **Delivery of the doctoral diploma.**

# D1 StartDoc meeting - Outline



- **Graduate program IKS**  
Pr Marc LEFRANC



**ADSL**  
Charlotte DEMULLIER



# ENGSYS Graduate School – Training courses

## Manage under ADUM

**You must have an ADUM account number !!**

The screenshot displays the ADUM user interface. At the top, there is a navigation bar with 'Private space' (highlighted in pink), 'My profile', 'My career', and 'Questions'. A search bar on the right contains the text 'Rechercher...'. Below the navigation bar, there is a section for 'ACTUALITÉS' (News) with three items: 'PHD WELCOME', 'STARTDOC 2019', and 'Formation pour les doctorants BSL'. A status bar below the news section shows 'Validated', 'Ongoing', and 'To be done' with corresponding icons. On the left, a sidebar menu lists various user settings: 'Contact information', 'Display management', 'Competencies and portfolio', 'Individual training contract', 'Professional situation', and 'Publications'. The main content area is divided into three sections: 'My profile', 'Trainings', and 'Procedures'. The 'Trainings' section is highlighted with a red rounded rectangle and contains a list of links: 'Training modules Catalogue', 'Statement of the undergone training modules', 'Training module', and 'External training modules'. The 'Administrative documents' section below it includes a note: 'Documents must be printed in portrait format. All documents and information required to follow the educational and administrative procedures for enrollment/re-enrollment must be downloaded below. The documents that require signatures must be signed and, when complete, they must be given to your Doctoral School, along with the additional documents required, for processing your dossier.'



# Comments on training courses – organization

Trainings are organized by

- Doctoral college (interdisciplinary – Open to all GS)  
Catalogue 2024-2025 available on ADUM
- Graduate School (ENGSYS – MADIS – SMRE) (EN)  
(disciplinary and additional interdisciplinary (EN))
- Others partners (Graduate Programs IKS, summer/winter schools, ...)
- Master's courses

# Doctoral training requirements

## Trainings courses

Doctoral  
College

Transversal trainings

20 CFD

Professional trainings

20 CFD

EG ENGSYS

Disciplinary trainings

20 CFD

Ethics and scientific integrity

**CFD // RNCP skills Blocks**

**60 CFD**

Seminars, master courses, summer/winter schools, ....

- **One course about ethics** is mandatory for all

# Training courses – RNCP qualification

**Improving your skills to meet the requirements of a function of PhD (France rule – RNCP organisation)**

RNCP: Répertoire National des Certifications Professionnelles

## In France: Difference between RNCP qualification and diploma

The diploma attests to a particular level and course of study, whether at school or university.

The **RNCP** title is mainly linked to a specific function. For example, the title of **engineer** or psychologist / **PhD**.

**Registration in the RNCP is the first guarantee of the quality and seriousness of a training course, including the doctorate.**

<https://www.youtube.com/live/BIBTU1MyiOw?si=2LB4qT85QQAyH8Y2>

# In France: PhD diploma regarding companies

## Summary Self-assessment by skill block

[← Go back to self-assessment](#)[Print the summary](#)

### Block 1: Conceiving and elaborating a research and development procedure

- *Having scientific expertise, both general and specific, within a precise field of work and research*  
*Formations suivies*
- *Assessing the status and limits of knowledge within a specific field of activity, on a local, national and international scale*  
*Formations suivies*
- *Identifying and resolving complex and new problems involving several fields, by engaging the most advanced knowledge and skills*  
*Formations suivies*
- *Identifying possibilities of conceptual breaks and conceiving innovation points within a professional sector*
- *Offering innovating contributions within high-level exchanges and in international contexts*  
*Formations suivies*
- *Constantly adapting to research and innovation constraints within a professional sector*  
*Formations suivies*

### Block 2: Setting up a research and development, study and prospects, procedure

### Block 3: Promoting and transferring the results of a R&D, study and prospects, procedure

### Block 4: Scientific and technological vigil on an international scale

### Block 5: Training and sharing scientific culture

### Block 6: Monitoring teams dedicated to R&D, studies and prospects activities

### Social skills

## Présentation de l'offre de formation



20 ou 27 Mars 2025

## Élaborer des outils de communication : CV et profil réseaux sociaux

**Objectifs** → Construire des supports de communication adaptés (CV, profil) afin d'améliorer sa visibilité auprès des recruteurs.

### Programme

Comprendre les éléments clés et les bonnes pratiques de la rédaction d'un CV et d'un profil sur les réseaux sociaux.

### Compétences visées

Savoir rédiger des outils de communication en lien avec son projet professionnel et les attendus du recruteur. Comprendre les codes, les outils de la visibilité sur les réseaux sociaux et le CV. Faire le lien entre portfolio, CV et Réseaux Sociaux.

### Compétences RNCP associées

B1.5 B4.2 B3.5 B4.4 B5.3

### Prérequis

Avoir une amorce de projet professionnel et un profil LinkedIn

### Équipe pédagogique

David Duhem  
Consultant en développement professionnel à l'Apec (Association pour l'emploi des cadres. 20 années d'expertise en ressources humaines (talent acquisition, accompagnement



<https://doctorat.univ-lille.fr/college-doctoral/formations/>

# Training courses in your ADUM account

Private space

My profile

Job offers

Useful sheets

Questions

Training courses list

Training courses list RNCP skill block

Ongoing training courses

Evaluation of the trainings done

Add an external training module

My situation

Procedure for skills self-assessment

## List of proposed training courses presented by RNCP skills block:

Block 1

Block 2

Block 3

Block 4

Block 5

Block 6

Social skills

## Setting up a research and development, study and prospects, procedure

	City	Person in charge	Offered by	Starting date	Participation	State
> Compétences pour le doctorat et la carrière d'enseignant-chercheur : questions et réponses	Villeneuve d'Ascq, campus cité scientifique	ED MADIS Graduate School	MADIS	15 octobre 2024	Classroom	Open
> Graduate Programme Information Knowledge Society (IGKS)	Université de Lille	Marc Lefranc		4 decembre 2024	Classroom	Open

Evaluation during the CSI

New

Rentrée Doctorale - ENGSYS

30

## Novelty :

Possibility to increase your disciplinary skills with some courses of masters degree (Master 2) open to the PhDs students

See open courses and modalities on the website and ADUM

If you are following a master course in your field now,

- Fill the sign-in sheet with the professor in charge of the course and submit it on ADUM as external training

# External Training courses

## Declaration of **external training course** with ADUM

- **Add an external training module**
  - Master class, MOOC, summer or thematic school, Member of organization committee of conferences...
  - Give the title- category – university and city – topic
  - Add a PDF file with attendance certificate and detailed training program, so that ENGSYS can give credits (**1 CFD/ 2 hours**) and convert it into skills
- **Not validated as external training**
  - Paper presentation at conference, workshop
  - Teaching



# Comments on trainings courses

When you register for a course, make sure you are available

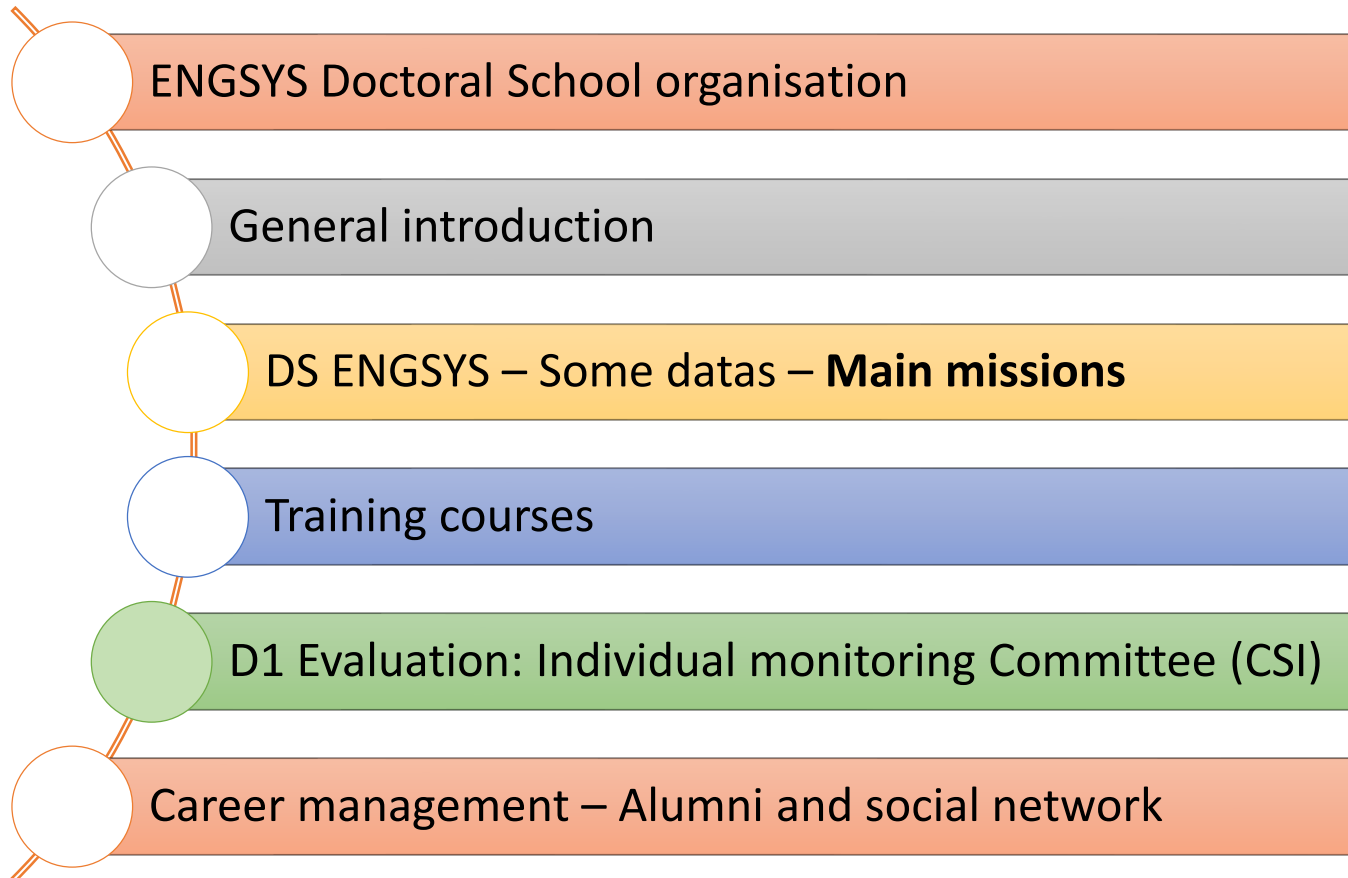
GS ENGSYS does not partially validate training credits – No negotiation

**Credits are allocated only after evaluation of the training by each PhD student**

**Training programs are costly**

Trainers come from far away – it would be a shame if they didn't have anyone in front of them.

# D1 StartDoc meeting - Outline



- Graduate program IKS – Pr Marc LEFRANC

ADSL



# D1 Individual monitoring Committee: Review meeting

## CSI review meeting includes :

- **Presentation in 20 mn + questions.**
- **Meeting between members of CSI and the supervisor (and co-supervisors).**
- **Discussion between members of CSI (without the PhD supervision) and the PhD student.**
- **At the end of the meeting, a report will be written under the authority of the CSI chairman. This report is sent to the DED by email. It is posted in your ADUM account.**

# D1 Individual monitoring Committee: Manuscript

- The PhD student provides a manuscript on its work, two weeks before the meeting to all members of the CSI.
  - **This manuscript will include a minimum of 7 pages :**
    - Brief description of the thesis subject and its goals (min 1/2 page);
    - Main bibliographical references - state of the art (min 1 page);
    - Progress work in accordance with goals and key results (min 3 pages). A statement of policy regarding results dissemination in terms of publications and software production;
    - Roadmap for the next two years with the expected contributions and a schedule, (min 2 pages);
    - Doctoral Training modules achieved;
    - Professional project.
- <https://edengsys.univ-lille.fr/pendant-le-doctorat/comite-de-suivi-individuel-csi>

# D1 Individual monitoring Committee: Evaluation

## Membres du Comité de Suivi Individuel:

Prénom, Nom, Titre	Mail	Unité de Recherche, Affiliation	A	B	C

**A:** Membre spécialiste, **B:** Membre non spécialiste, **C:** Membre extérieur

## Evaluation des formations et compétences

Nombre de Crédits de Formations Doctorales (CFD) validés dans ADUM:

Le ou la doctorant(e) a-t-il(elle) suivi:	oui	Non
Une formation obligatoire à l'éthique de la recherche et à l'intégrité scientifique		
Une formation aux enjeux de la science ouverte et à la médiation scientifique		
Une formation aux enjeux du développement durable		
Une sensibilisation au portfolio de compétences est-elle entamée? (Préparation du projet professionnel – voir onglet "Compétence et portfolio" dans le compte ADUM)		
<b>Commentaire du/de la doctorant(e) sur la formation doctorale:</b>		

[https://edengsys.univ-lille.fr/fileadmin/user\\_upload/edengsys/Proposition\\_rapport\\_CSI\\_ENGSYS\\_D1\\_2023\\_V2.pdf](https://edengsys.univ-lille.fr/fileadmin/user_upload/edengsys/Proposition_rapport_CSI_ENGSYS_D1_2023_V2.pdf)



- Follow the rules of your institution
- Follow the rule of your Lab



## Fiches pratiques

Textes de référence

La thèse

Formations

Financement

Science ouverte

RNCP

Emploi

### Science ouverte

› ***Le Passeport pour la science ouverte - Guide pratique à l'usage des doctorantes et des doctorants***

Un guide à destination des doctorants, coordonné par le CoSo (Comité pour la Science Ouverte) et l'Université de Lille, sous la direction du MESRI. Existe aussi en anglais : <https://www.ouvrirelascience.fr/passport-for-open-science-a-practical-guide-for-phd-students/>.

› ***Former à la science ouverte tout au long de la thèse***

Un guide à destination des écoles doctorales, pour construire une offre de formation promouvant la science ouverte, également coordonné par le CoSo, sous la direction du MESRI.

› ***"Coup de toner sur la science ouverte"***

Une mini-série à destination des doctorants et des chercheurs (jeunes ou moins jeunes) produite par le SCD de l'Université Toulouse-Capitole et le Consortium Couperin, en partenariat avec l'Urfist Occitanie.

› Parution, en juillet 2021, du ***2<sup>e</sup> Plan national pour la Science Ouverte 2021-2024***.

› ***Adoption, par l'Unesco, en novembre 2021, d'une Recommandation sur la Science Ouverte***

› Le MESRI a publié sa ***Feuille de route 2021-2024 sur la politique des données, des algorithmes et des codes sources***, qui évoque notamment la gestion des données de la recherche.

# Sustainable development - How useful is/having a PhD ?

It's useful now as it's ever been

Needs of young women and men with high skills to get out of the current issues



Communication on the relation between your thesis topic and sustainable development

# How useful having a PhD today?

It is more necessary than ever to train young people

On a absolument besoin que beaucoup de jeunes fassent de la science.

On ne se sortira pas des problèmes actuels si on n'a pas des jeunes gens et jeunes filles qui s'engagent dans cette voie



**Alain Aspect** – *Nobel prize of Physics 2022*

*We definitely need a lot of young people doing science.*



*We will not get out of the current problems if we do not have young men and women who are committed to this path*



# D1 Individual monitoring Committee: Evaluation

## Evaluation du CSI

	A	B	C	D	Commentaires
Maîtrise sujet de thèse					
Etat d'avancement des travaux					
Politique de valorisation des résultats					
Identification des pistes de recherche					
Suivi de la formation doctorale					
Construction du projet professionnel					
Qualité rapport écrit et présentation orale					

### *Avis et recommandations du comité de suivi individuel*

A : Très satisfaisant B : Satisfaisant C : A améliorer D : A conforter

<b>Bref avis sur l'avancement des travaux de thèse</b>	-
<b>Bref avis sur les conditions du déroulement de la thèse:</b>	-
<b>Point forts:</b>	-
<b>Points d'amélioration</b>	-
<b>Recommandations pour la suite du doctorat</b>	
<b>Le comité de suivi signale des points de vigilance particuliers</b>	
<b>Avis du comité de suivi sur la réinscription en doctorat</b>	<input type="radio"/> Favorable <input type="radio"/> Réservé <input type="radio"/> Défavorable

# D1 Individual monitoring Committee: Important dates

## Planning 2025

- **CSI planning before June 15 th, 2025.**
- **CSI manuscript has to be sent 15 days before the meeting.**
- **CSI meeting before September 15th, 2025.**

For the majority of CSI, everything is going very well

Take this opportunity to mention any problems before they become critical  
(DEDs – Doctoral School) – (During the face-to-face meeting with the jury)

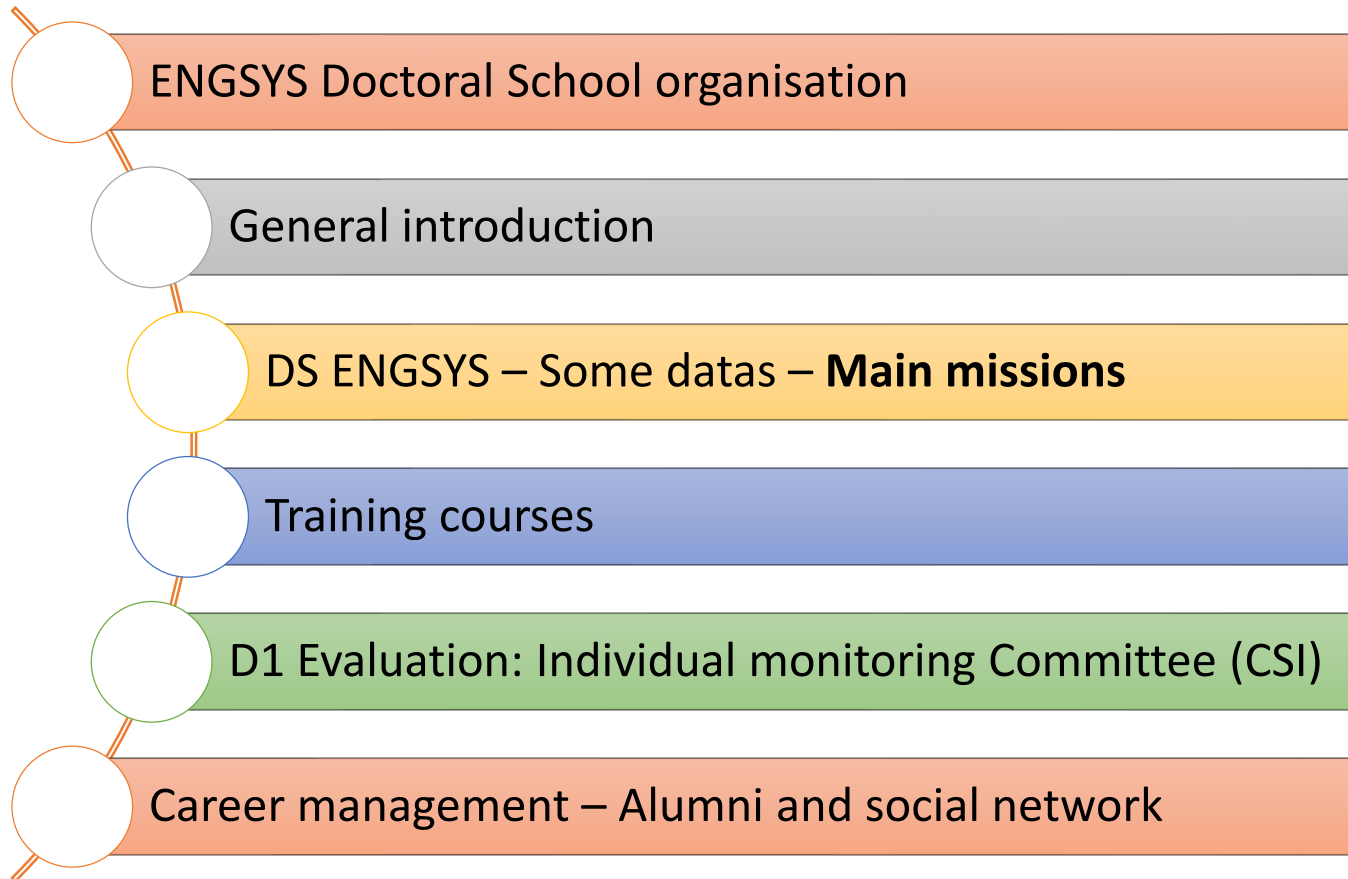
Some confidential information are transmitted only to the director of doctoral school

Our mission in mediation is to protect you (your rights).

**Confidential contact if needed:**

<https://edengsys.univ-lille.fr/news/maison-de-la-mediation-a-luniversite-de-lille>

# D1 StartDoc meeting - Outline



- **Graduate program IKS** – Pr Marc LEFRANC

**ADSL**



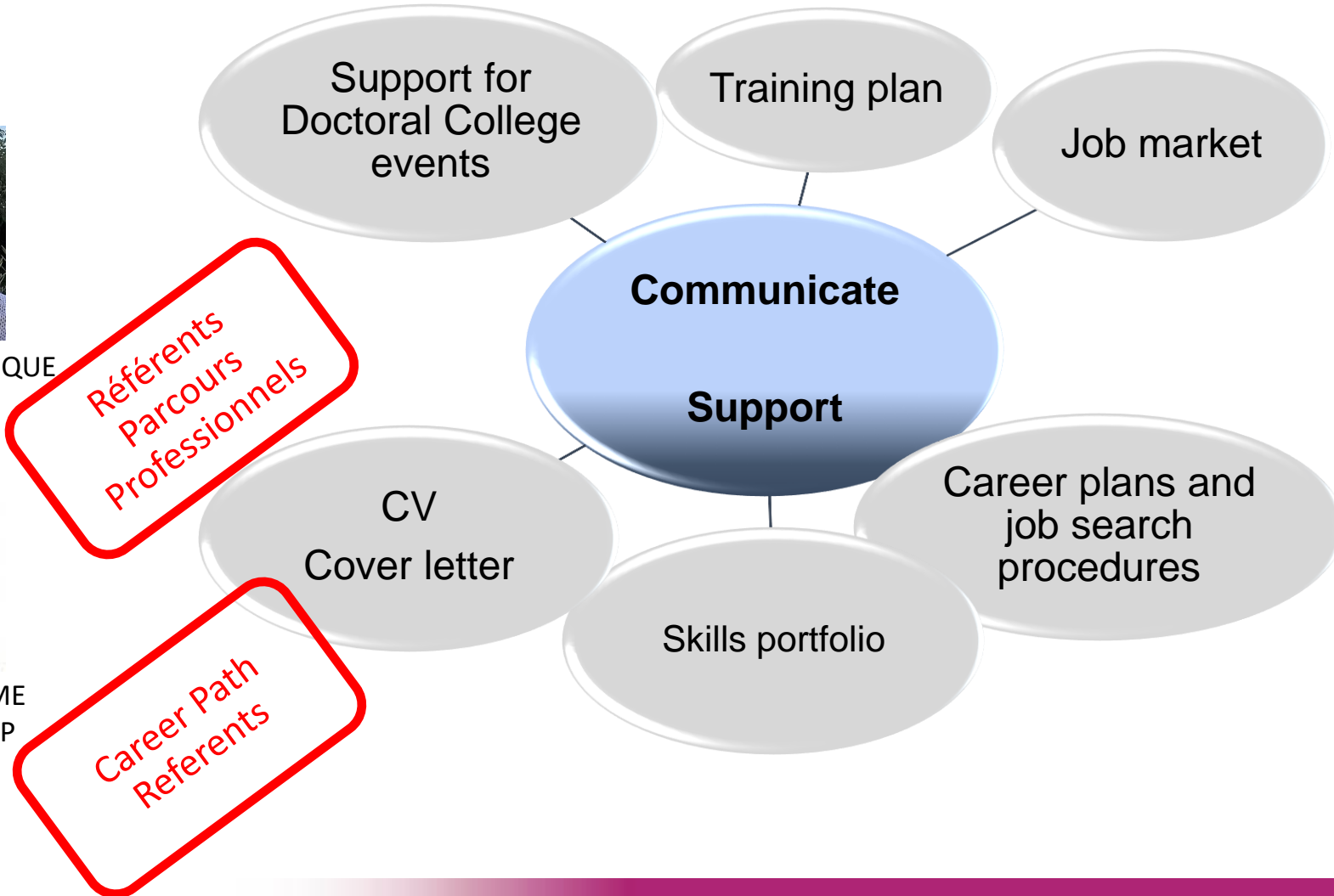
# What to do after the thesis ?



Ludovic DESPLANQUE  
MCF, IEMN



Walter LHOMME  
MCF HdR, L2EP



# ENGSYS PhD professional careers - Alumni

Today, we have a good feedback on the position of the ENGSYS PhD in companies

This is possible only if they have an updated LinkedIn account

REDOC SPI analysis

We will stay in contact with you during your professional career

# ENGYSYS PhD professional careers - Alumni

## Create your LinkedIn account



You can mention

- your doctoral school
- Your institution
- Your Lab

Portfolio

Skills

**Optional:** Funding (Regional support, CIFRE, doctoral contract, ...)

## Become a member of

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# ENJOY YOUR PHD