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After the Master's studies: pursuing a PhD

**Inaugural Day
Graduate Programme
'Information &
Knowledge Society'**



You are

- Open-minded
- Creative
- Rigorous
- Avid reader
- Uninterested in money

This talk is for You!

PhD definition

Doctorate's diploma or PhD (Philosophiæ Doctor): the highest diploma

Master /
Engineering
(BAC+5)

PhD (BAC+8)

After PhD



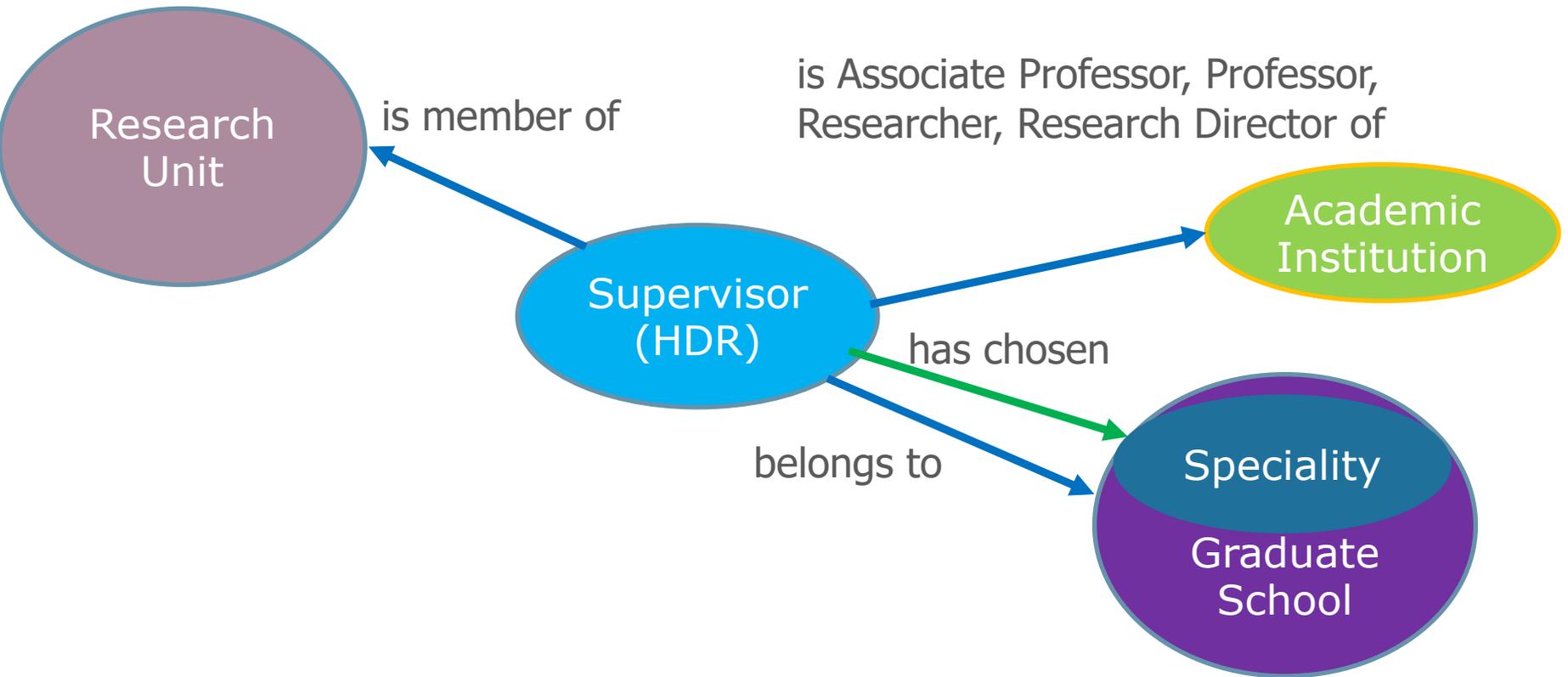
Preparing your PhD is your first job

- Conduct training-by-doing research, under the scientific and personalized direction of supervisors within 36 months
- Are young professional researchers who are integrated in research units
- Develop soft skills beyond their area of scientific expertise
- To obtain PhD, you must
 - write scientific papers and/or patents
 - participate to doctoral trainings
 - write a PhD thesis (> 100 pages and bilio references)
 - defend your thesis in front of a committee

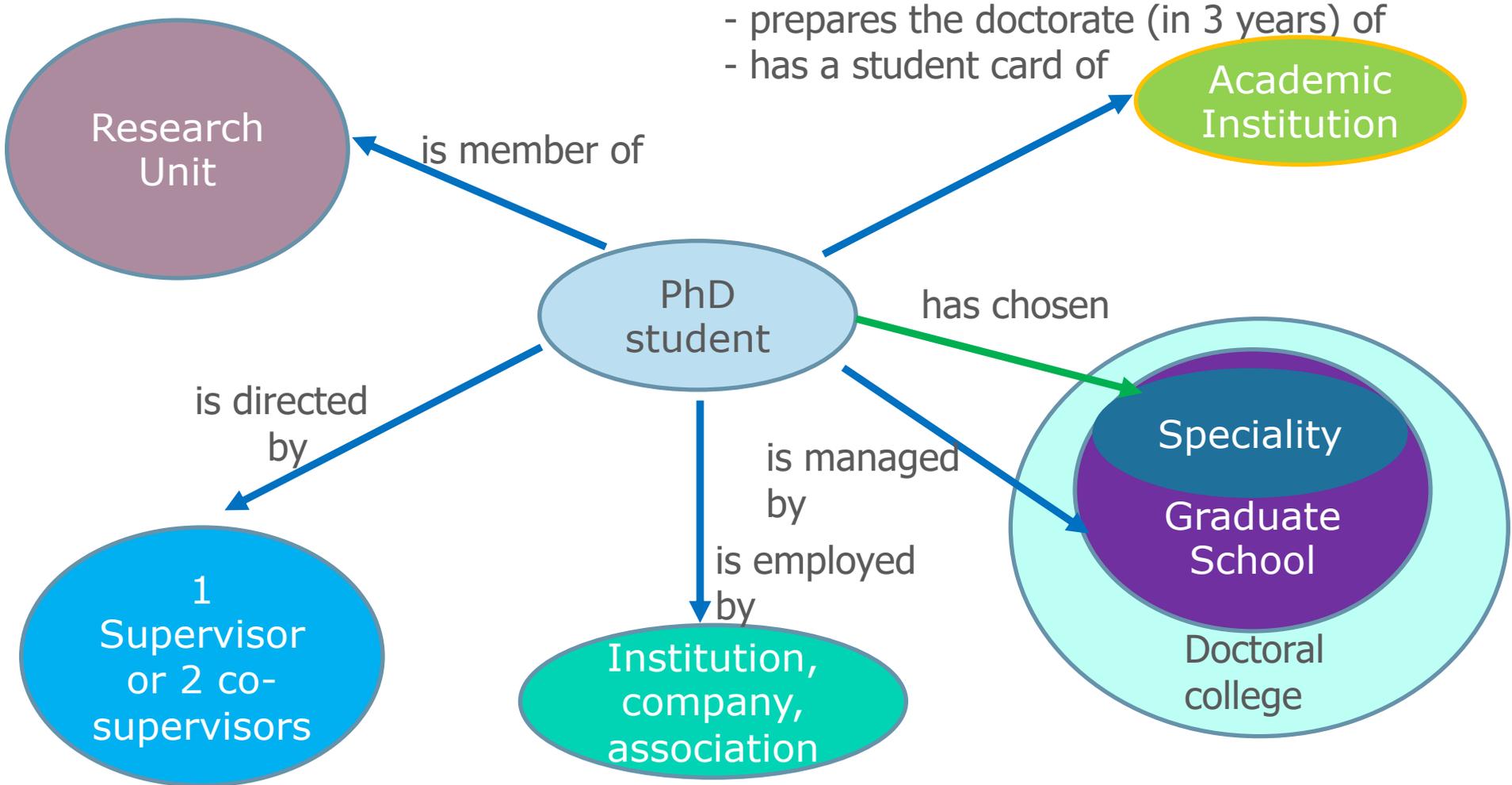
For a good PhD, you should find

- Exciting topic
 - read scientific state of the art papers about the topic
 - participate to conferences in the domain's topic
- Research supervisor team
 - read PhD theses
 - contact previous PhD students of the team
 - Exchange with the supervisor
- Funding
 - personal funding is not allowed
 - discuss about institutional funding with supervisor

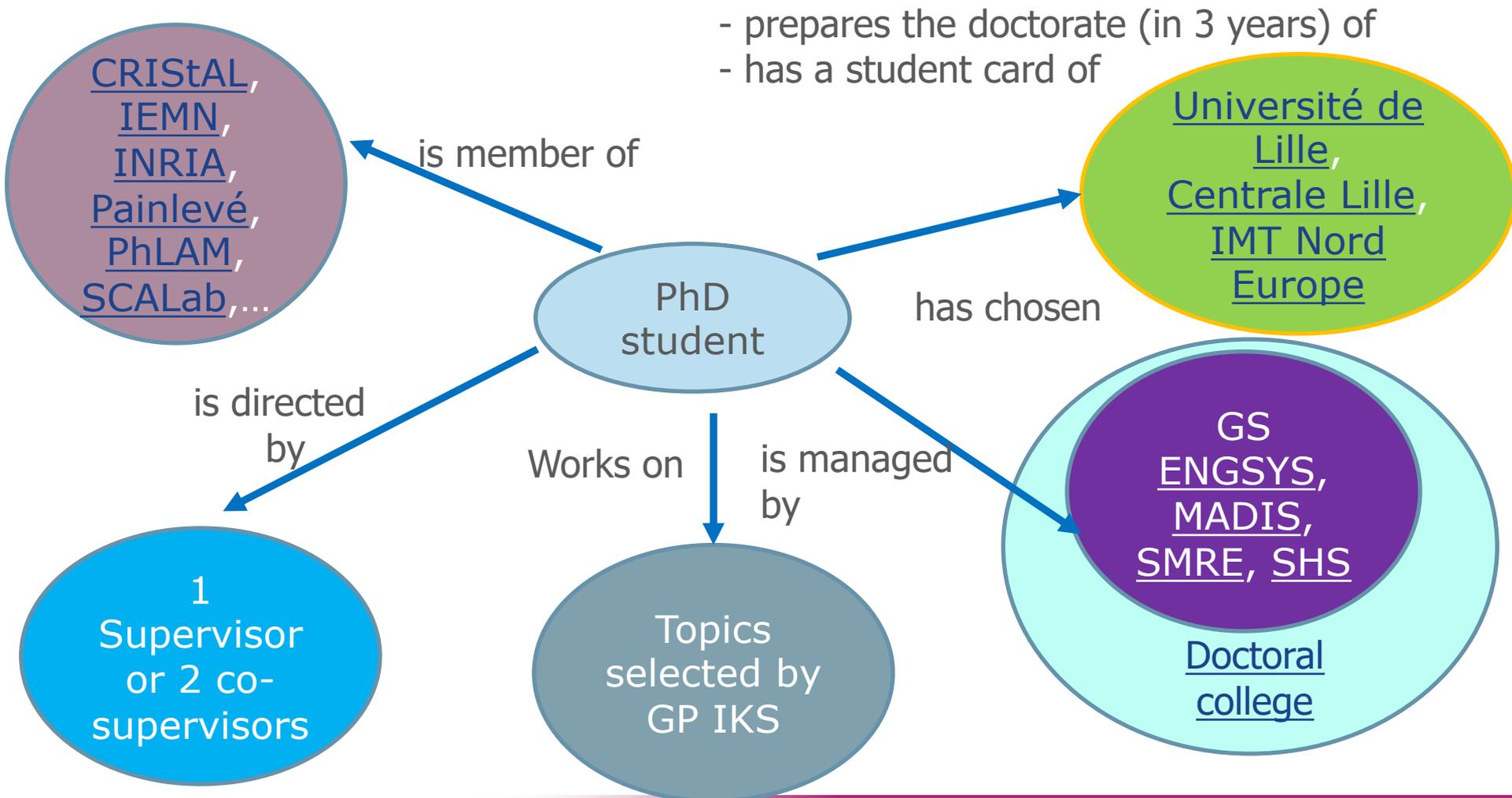
Accredited to supervise research (HDR)



PhD student



Graduate Program IKS PhD student



Before PhD

Admission rules to graduate school

- Topic is defined by the supervisors and research unit
- Accredited supervisors (HDR) manage a limited number of doctoral students (4 supervised or 8 co-supervised students at ENGSYS or MADIS)
- Employment contract of 36 months for doctoral study is required
- Candidates are selected by Graduate School through a well defined process and according to demanding academic criteria :
 - All M1 and M2 modules obtained in first session
 - Good marks
 - Internship in academic or private research unit
 - Support letters
- Agreement for the joint supervision and awarding of a double doctoral degree (cotutelle)

Employment Contract

- At least 36 months and dedicated to PhD
- Public doctoral contract
 - given by an academic institution
 - 2045 euros gross monthly
 - Possible amendment for teaching (64h/year max) or consulting
- Private doctoral contract
 - given by a private institution or company
- CIFRE contract : [ANRT](#)
 - Employed by a company thanks to a fixed term contract
 - minimum of 1957 euros gross monthly

How to apply at a public doctoral contract?

- **February** : Topics are available at websites of
 - Research units : [IEMN](#),...
 - Graduate schools : [MADIS](#),...
 - National research groups (GdR) : [ISIS](#), [MACS](#),...
 - Institutions : [ADUM](#),[ABG](#),...
- **February – April** : Exchange with accredited supervisors (HDR) of selected topics
- **May** : Application deadline
- **June** : Selection by Graduate School council
- **October** : Start PhD

How to apply at CIFRE contract (main steps)?

www.anrt.asso.fr

- Step 1 : CONSULT THE OFFERS OF POTENTIAL PARTNERS
 - <https://offres-et-candidatures-cifre.anrt.asso.fr>
 - www.abg.asso.fr
 - <https://1000doctorants.hesam.eu/>
 - Research units of IKS
- Step 2 : SUBMIT A CIFRE PROJECT at doctoral school, then at ANRT
 - Research unit
 - Company
 - Candidate
- Step 3 : WHEN ACCEPTED, BEGIN your CIFRE PhD

During PhD

Main missions of Graduate School

- Doctoral trainings (with Doctoral College)
- Individual Monitoring Committee (CSI) (end of D1 and D2)
- International mobility grants for PhD students (with Doctoral College and Graduate Program IKS)
- Agreement for the PhD defence
 - Number of required doctoral training credits
 - PhD committee and reviewers
 - Reports by reviewers before defence

3 types of training courses

- Thematic and scientific training (summer schools, master classes, training courses organized by the research unit or graduate school, technical courses)
- Training related to language, research methodology or tools (organized by Graduate school or Doctoral College)
- Professional training (organized by Doctoral College) to improve your soft skills

Training courses

- The number of credits (CFD) to be collected depends on the PhD type:
 - **60 CFD** including at least 20 CFD on professional training for a **full time** PhD student
 - **30 CFD** in three training areas for a PhD student with a joint supervision between two institutions of different countries (**co-agreement or cotutelle**)
 - **40 CFD** distributed in the area of thematic training and research methodology for **CIFRE** PhD Student
- **One course about ethics** must be followed
- At MADIS : 20 CFD can be obtained by **MOOC**
- At MADIS : 2 hours -> at least 1 CFD.

D1-D2 Individual Monitoring Committee (CSI)

- For all D2 and D3 registrations, an Individual Monitoring Committee is set up
- At minimum the committee includes
 - A HDR member who is conducting research activities in the domain of the thesis but who is external to Lille
 - A member of the Graduate School who will be the chairman of the CSI meeting
- At the end of the meeting, a collective report will be written and posted in ADUM

D1-D2 CSI paper

- The PhD student provides a paper on its work, two weeks before the meeting to all members of the CSI.
- This paper will include a minimum of 7 pages :
 - Brief description of the thesis subject and its goals (min 1/2 page);
 - Main 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 years with the expected contributions and a schedule, (min 2 pages);
 - Doctoral training modules achieved;
 - Professional project.

To perform international research
and development,
prepare your PhD
at GP IKS!