Industrial doctorates

Antecedents:
- CIFRE (ANRT), France. More than 32 years since first “ID”
- Industrial PhD Programme, Dinamarca. Inicio 1971.
- European Industrial Doctorates (ITN) European comisión
- Catalan ID programmes

In Europe:
- 65% of the doctors work in public sector and 35% in private companies and organizations.
International school for postgraduate studies

Framework to implement global European strategies

- Adapt to needs of the society:
  - High level specialised people
  - Experts with highly qualified knowledge
  - High qualities to innovate and **transfer knowledge to society**.

- Continuity between masters and doctoral programs
  - Systemic knowledge of field
    - But also
  - **Abilities to transfer to society**
    - Professional skills
    - Digital competence
    - Communication skills
    - Innovation

**Knowledge Transfer**
The university and the research systems should be the engine of economic growth increasing productivity and employment
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**AIMS**

- Increase innovation and internationalization in local industries
- Promote collaboration between public and private sectors
- Reinforce professional skills of the doctorate students so that they are able to successfully work in competitive I+D companies.
- Increase research internationalization by encouraging participation in European projects
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AGENTS INVOLVED

- UNIVERSIS, RESEARCH CENTER
- COMPANIES
- industrial Doctorado
- DOCTORAL CANDIDATE
- SUPERVISORS DOCTORAL PROGRAM
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Co-finance predoctoral grants

- Predoctoral contract: 75% industry, 25% university
- Work at the company, but access to all university facilities
- Access to research laboratories
- Funding for international mobility
- Specific training in entrepreneurship

Conditions
Sign specific agreement

Research and activities directed to Doctoral Thesis
The project should be approved by the academic committee
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- COLLABORATION AGREEMENT
  University – Company
  - joint selection of candidates
    - Joint supervisión
  - Shared Work load
  - Training on transferable skills
    - Internationalization
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Financing projects

✓ Funding up to 20,000 for a research Project
✓ Presented by a professor at the university and company
✓ Interest for the company but funded by the university
✓ The doctoral candidate work in the Project but payed by Company
✓ Directed toward thesis

Strategic for the company

PROJECT

Directed toward Doctoral thesis
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**For the University**
- Reinforce mechanisms for knowledge transfer
- Contribute to economic growth
- Access to *Know-how*
- Awareness of the needs of the industry
- Strengthen links between university - industry

**For the Company**
- Increase competitiveness of the Company through innovation
- Increase qualifications of their workers
- Take advantage of research facilities of the University
- Internationalization

**BENEFITS**

**Benefits for the student**
- Participate in strategic and innovative research Project
- Acquire professional skills. Open possibility to work in industrial settings
- Combination of systemic knowledge, professional skills, research skills
- Possibility for mobility & internationalization
Industrial Doctorates
University of Granada