

# partnership: a snapshot of activities in some European iSchools

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# iSchool-industry partnership: why?

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- Better teaching, better student experience and employment
- Better research, real-life challenges, Better funding
- Funding agency and government requirements: RCUK and H2020 requirements for industrial links
- Better research impact

# iSchools-industry partnership: Why?

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Universities that connect with businesses gain:

- access to potential private research funding
- mentors for student entrepreneurs
- a potential employer and provider of work placements and internships for their students and graduates

[https://www.gov.uk/government/uploads/system/uploads/attachment\\_data/file/32399/12-903-following-up-wilson-business-university-collaboration-next-steps.pdf](https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/32399/12-903-following-up-wilson-business-university-collaboration-next-steps.pdf)

# Industry and research: an EC Report

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Out of the 603 projects reviewed between October 2014 and January 2016, on average, nearly 2 new or substantially improved products or services were developed within each project

Commercial exploitation is planned for over 63% of these innovations; 12% are already being exploited

70% of innovations with high potential are co-developed with universities

Collaborations between universities and SMEs are particularly fruitful



# A snapshot of activities

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Improving the work experience and employment readiness of their graduates

Creating tailor-made courses for specific industries

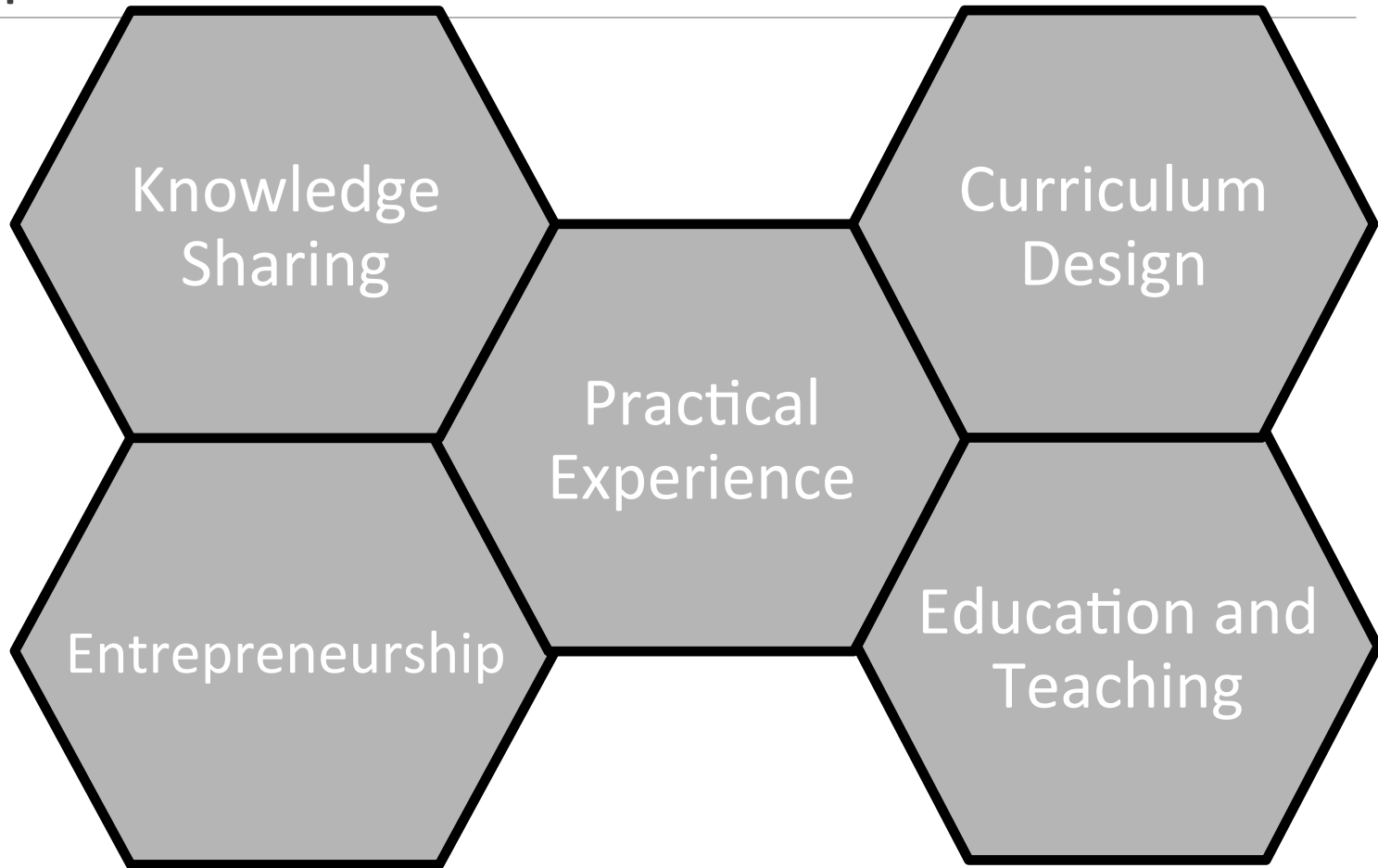
Creating industry-sponsored academic posts at universities

Undertaking industry-sponsored research or collaborative activities.



# Curriculum design, work experience etc. at Northumbria

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# Examples of partnership in Curriculum design at Northumbria

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BSc Hons. in ITMB (Information Technology Management for Business)

As per the education framework of a national level body – Tech Partnership— a network of employers in UK

The curriculum is reviewed regularly with

- input from an industrial advisory board
- feedback from alumni
- feedback from students after their placement visits

# Examples of partnership in Education at Northumbria

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Core employability skills:

- ‘Skills for Information Science Professionals’ in the first year
- ‘Personal and Professional Development’ in the second year
- a ‘Final Year project’ that aims to address one or more specific industry-related problems.



# Examples of partnership in industry experience at Northumbria

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## Practical industry experience:

- an industrial placement to a range of companies including Apple, IBM, Disney, Sky News, Wimbledon Tennis, etc.
- work with consultancy client as part of a second year module
- provision for study abroad and a practical research project

# Examples of partnership in entrepreneurship at Northumbria

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## Entrepreneurship

- 'Entrepreneurship and creativity' module in the second year;
- 'Graduate enterprise' module in the final year
- a placement in the 'Hatchery' and participation at regional and national enterprise fair

# Examples of partnership in knowledge sharing at Northumbria

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## Knowledge sharing

- guest speakers from a range of local companies,
- industry (or 'Guru') lectures through Tech Partnership
- alumni visits and lectures, and
- student participation at various network events and conferences

# Examples of partnership in employment at IMT

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## Recruitment through

- internships and apprenticeships in a range of industries
- collaborative doctoral projects with industries
- through Forum Telecom Bretagne

# Examples of partnership in industry experience at IMT

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Training through:

- internships and lifelong learning certificates
- industry visits and lectures
- industry supervisors for doctoral students
- innovation and enterprise activities

# Examples of partnership in professional development at IMT

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Development through:

- student projects
- industrial chairs
- start up incubators
- shared labs
- events, clubs and privileges

# Examples of partnership in designing tailor-made courses at RGU


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Graduate Certificate in Petroleum Data Management for the petroleum industry

Offers four modules:

- (1) Managing subsurface explorations and production data,
- (2) The data management lifecycle,
- (3) Providing data management services, and
- (4) Data quality and governance.

Funded, and also partly supported for teaching, by the petroleum industry



# Examples of partnership in creating industry-sponsored posts

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## Industrial chairs at IMT, France

Associate lecturer post created by the petroleum industry to support the Graduate Certificate course at RGU

## Business chairs at the iSchool of the Polytechnic University of Valencia, Spain including

- the Chair in BigML – Machine learning; and a business chair created with the regional government for the promotion of transparency in governments and development of mechanisms for making public data accessible

## Mutual benefits

- iSchools provide the infrastructure and a knowledge sharing platform, and
- the industry provides funds to create the academic/research positions





# Examples of iSchools' research collaborations with industries

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Research sponsored by Elsevier at the iSchool of Berlin

the start-up incubators, shared labs, events, clubs and privileges as in case of the iSchool at IMT

KTP projects and higher education innovation funding (HEIF) schemes at Northumbria iSchool

Commercial organizations and private foundations were two of the five key funding sources for European iSchools' research.

Key benefits:

- For academics these benefits may include opportunities to tackle real world challenges through research, and see their impact while gaining new skills, data, equipment, labs, etc.;
- For businesses it can improve performance through developments of new techniques and technologies, and extend the expertise and capabilities; and
- For the country it can drive growth and productivity.

# Lessons learnt

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Some excellent activities are taking place in some iSchools

iSchools should engage to share knowledge and experience

iSchools should actively engage with pertinent industries to:

- Design and update curricula
- Providing employability skills
- Undertake real-life research challenges

# .... And Now

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Thanks for your attention 😊

Questions

