

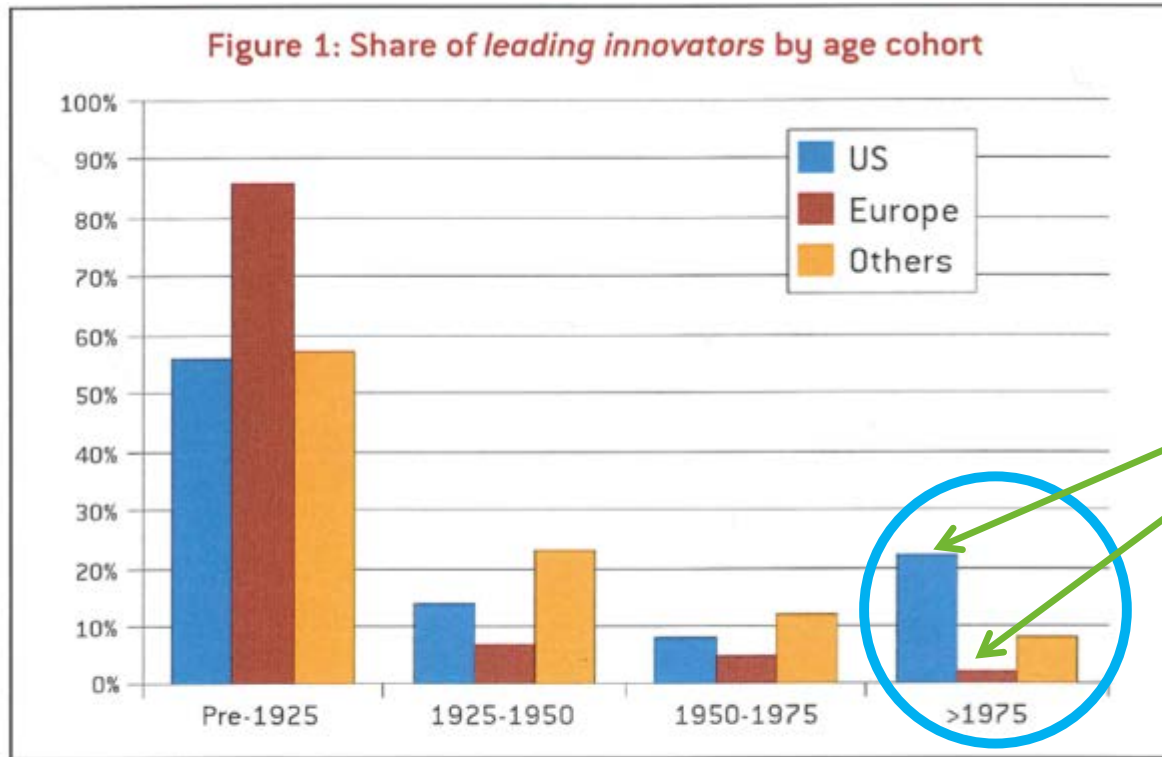


The European Institute of Technology Master on ICT Innovation



The European Institute of Technology

AGE DISTRIBUTION OF WORLD LEADING INNOVATORS IN THE XX CENTURY



**New firms set-up
in the last 25
years**

US: approx. **21%**
EU: approx. **2%**

Source: author's calculations. Note: Figure based on a sample of 226 companies, obtained from matching firms in the FT Global 500 from 2007 with the 2007 EC-IPTS Top 1000 EU and non-EU R&D scoreboard companies. Leading innovators are thus defined both by their market capitalisation and R&D expenditures. The US has 80 companies in this sample, Europe 86 and other countries 60.

Bruegel policy brief 2009 Reinhilde Veugelers

KNOWLEDGE TRIANGLE INTEGRATION: CO-CREATE NEW INNOVATION MODELS



Actors within the knowledge triangle are at the core of the **innovation web** beyond the traditional collaborative R&D consortia

THE FIRST 3 KICs

Designated in December 2009 by the EIT Governing Board with their governance and management set up in 2010

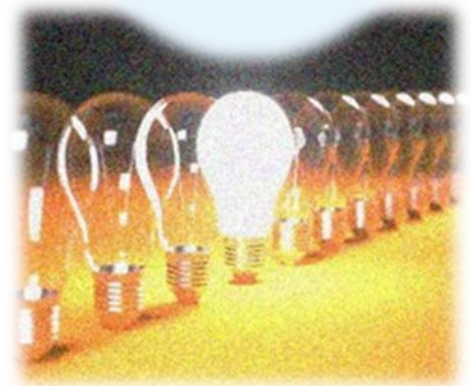
eit Knowledge & Innovation Community
Climate-KIC



eit Knowledge & Innovation Community
EIT ICT Labs



eit Knowledge & Innovation Community
KIC InnoEnergy



New KICS in 2015



KICs' INTERCONNECTED ECOSYSTEMS THROUGH CLCs

- **Climate-KIC:**

- ▲ Co-location Centre

- ▲ RIC (Regional Implementation Innovation Centre)

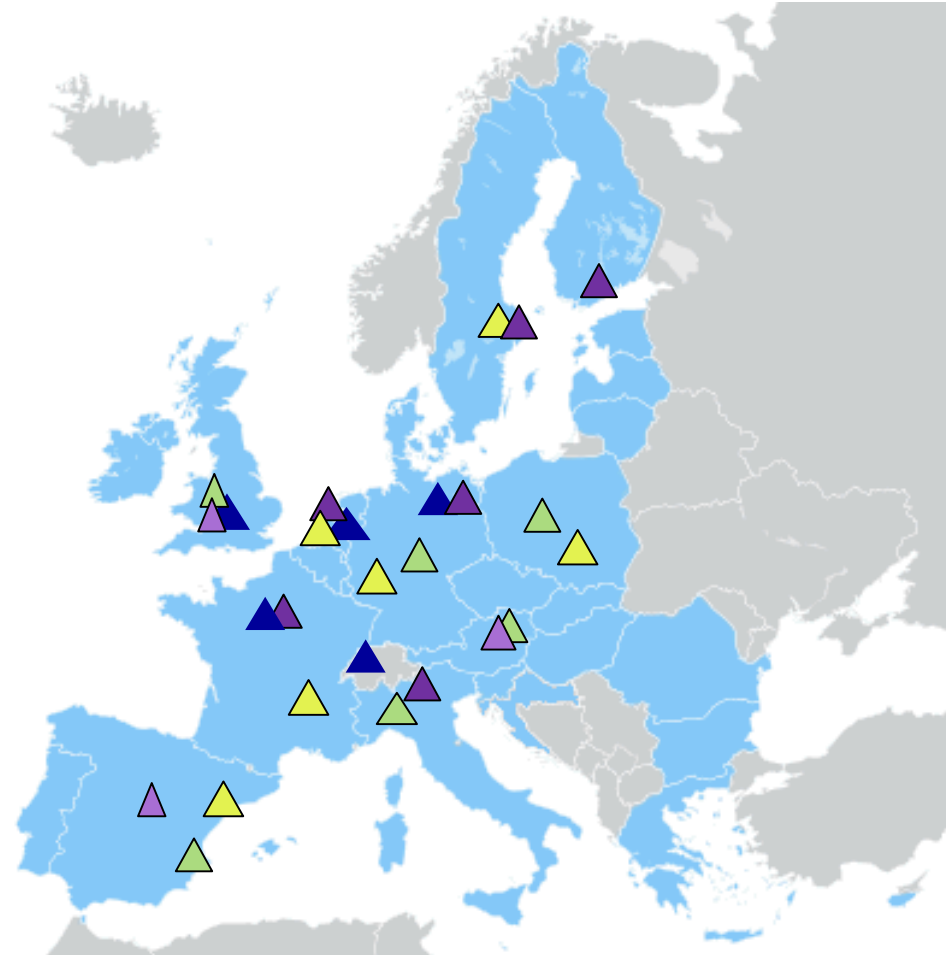
- **EIT ICT Labs:**

- ▲ Co-location Centre

- ▲ Associate Partner

- **KIC InnoEnergy**

- ▲ Co-location Centre



Three thick, grey, curved lines that sweep across the right side of the page, starting from the top and curving downwards and to the right.

EIT DIGITAL

EIT Digital



ICT is drastically changing our lives



The way we connect



The way we travel



The way we work



The way we age healthily

**Blending of
digital & physical world**



Today

Tomorrow



● EIT ICT Labs Node ● Associate Partner



EIT Digital @ Madrid



- ▶ Top actors on ICT in Spain and Europe
- ▶ Own action plan
- ▶ CLC in the Montegancedo Campus
 - Campus of International Excellence label – Ministry of Education
 - Innovation Ecosystems with research centers, incubators, innovation centers, high speed network, etc.



EIT Digital Master on ICT Innovation

EIT Digital Master School

- EIT Digital Master School = Master's Programme in ICT Innovation
- Probably the largest cooperation Master's programme in history (in Europe)?
 - 21 universities in 9 countries
 - 8 technical majors
 - Unique combination of technical majors to I&E minor



Why EIT Digital Master School?

- A Strong Partner Network
- Internships
- Mentoring Programme
- Strong Technical Entrepreneurial Education
- Value Community



Universities Involved



UNIVERSITY OF TWENTE.



Master on ICT Innovation

Two-year program with eight majors

- Cloud Computing and Services (CCS)
- Data Science (DS)
- Digital Media Technology (DMT)
- Embedded Systems (ES)
- Human Computer Interaction and Design (HCID)
- **Internet Technology and Architecture (ITA)**
- Security and Privacy (SaP)
- Service Design and Engineering (SDE)

www.masterschool.eitdigital.eu



EIT Digital Master on ICT Innovation

Two-year education (120 ECTS) includes a technical programme (90 ECTS) and an Innovation & Entrepreneurship Minor (30 ECTS)

The Technical Programmes (90 ECTS) consist of three parts:



The Innovation & Entrepreneurship Minor (30 ECTS) consists of four parts:



EIT Digital Master on Innovation: Distribution between the two years

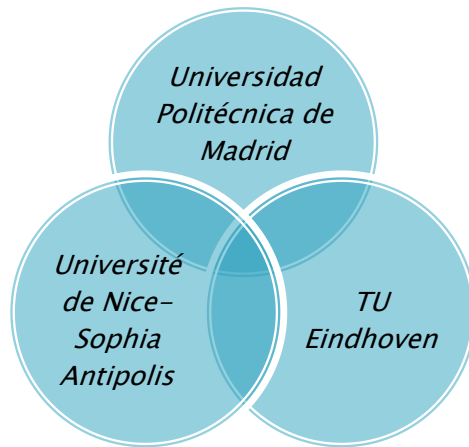
Two-year master on **ICT Innovation** (120 ECTS):

- Technical major programme (90 ECTS) and
- Innovation & Entrepreneurship Minor (30ECTS)

First Year (60 EC): Entry			Second Year (60EC): Exit		
1 st Semester	2 nd Semester	Summer School	3 rd Semester	3 rd or 4 th Semester	4 th Semester
<ul style="list-style-type: none"> – Technical Core courses – Introduction to Innovation & Entrepreneurship 	<ul style="list-style-type: none"> – Electives – Business Development Lab 	<ul style="list-style-type: none"> – Innovation & Entrepreneurship projects with a thematic focus 	<ul style="list-style-type: none"> – Technical Specialisation with thematic relevance 	<ul style="list-style-type: none"> – Innovation & Entrepreneurship Thesis 	<ul style="list-style-type: none"> – MSc thesis (30 EC) – Thematically oriented and industry based thesis work

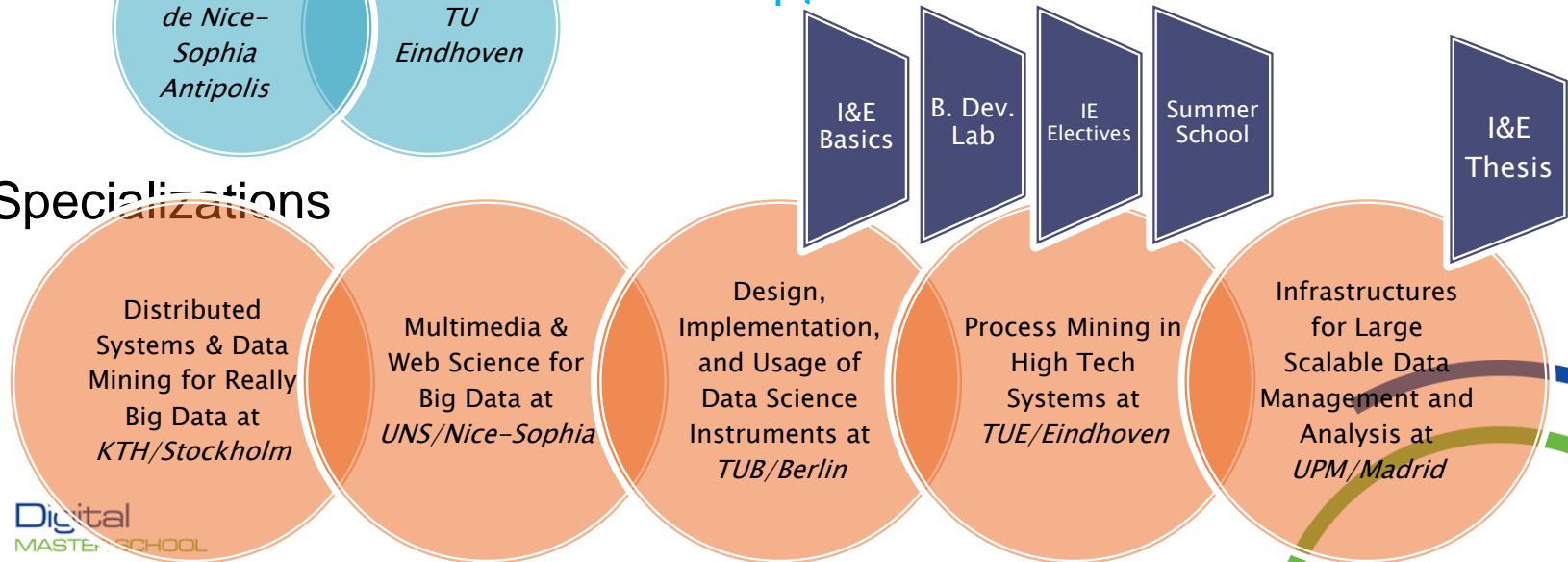
Students will learn about scalable data collection techniques, data analysis methods, and a suite of tools and technologies that address data capture, storage, transfer, analysis and visualization.

□ Entry



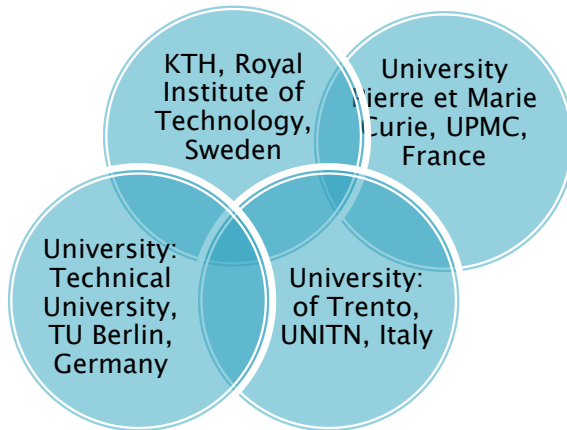
Data management
 Data analytics
 Big data
 Visualization
 Applications

□ Exit/Specializations

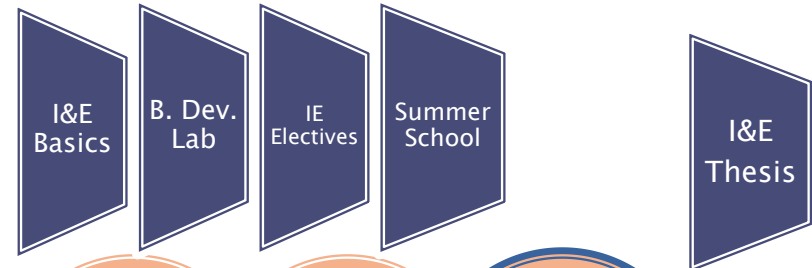


Focuses on enabling technologies for digital media systems, including technologies for analysing media, generating interactive media, processing and coding, optimising wired and wireless transfer, and distributing digital 3D contents

Entry



Foundations of networking
Network design and modelling
Wireless and mobile computing
Advanced next generation networks



Exit/Specializations



Master on ICT Innovation: Internet Technology and Architecture major

ITA: First year

- The first year will be similar at the four entry points UPMC, TUB, KTH, and UNITN with **four basic courses** on the foundations of **networking, network design and modelling, wireless and mobile computing and advanced next generation networks**. In addition, some **elective courses** may be chosen to prepare for a specialisation.
- Innovation & Entrepreneurship (I&E) minor.
- Summer school.



ITA: Second year

Technologies for Internet Mobile and Ubiquitous Computing

FIRST SEMESTER

The student should choose 6 courses

Wireless Communications.	5 ECTS
Digital Signal Processing for Communications.	5 ECTS
Advanced Digital Architectures.	5 ECTS
Embedded Systems.	5 ECTS
Ubiquitous and Secure Networks and Services.	5 ECTS
Advanced Research Seminars.	5 ECTS
Audio and Video Signal processing.	5 ECTS

Total 30 ECTS

SECOND SEMESTER

Master Thesis 30 ECTS

Total 30 ECTS

Application, admission, requirements

How to apply

- General Admission Requirements

- Bachelor Degree 180 ECTS
- Proof of English language proficiency

- Specific Admission Requirements

- Depending on each major

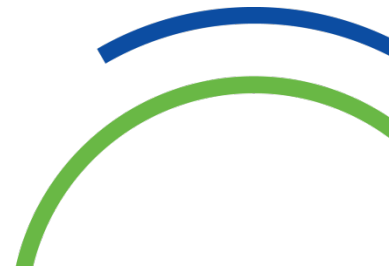
- Specific documents and more information at:

<http://www.masterschool.eitdigital.eu/application/>

First deadline: January 15

Second deadline: February 15

Third deadline: May 1 (only EU students)



Grants for tuition fees and scholarships

- For EU/EEA and Swiss Citizens
 - Tuition fees are waived
 - A one-time travel and installation support of up to 3000 € is provided
 - EIT Digital Master School covers the costs related to events integrated in the curriculum, e.g. Kick-off and summer schools.
 - Scholarship possibility: Excellent students can be nominated for a monthly allowance of 500 €.

Grants for tuition fees and scholarships

- For non EU/EEA
 - Tuition fees are 8000 € /year
 - EIT ICT Labs Master School covers the costs related to events integrated in the curriculum, e.g. Kick-off and summer schools
 - Scholarship possibility:
 - Excellent students can be nominated for a scholarship including:
 - coverage of the tuition fees,
 - one-time travel and
 - installation support of up to 3000 €, and a monthly allowance of up to 1000 €.

Key dates for application and admission to EIT Digital Master School autumn 2016.

17 November, 2015	Application opens
15 January, 2016	EIT Digital Application deadline. Those who apply before January 15 will be notified of the outcome in early March.
15 February, 2016	EIT Digital Application deadline. Those who apply before February will be notified of the outcome in early April.
1 May, 2016	EIT Digital EU Students. Notified by mid June.
August – October, 2016	Start of the academic year

Documentation

- ▶ Degree Certificate/Diploma in original language and translated into English *or* in case of on-going studies a statement certifying that you are in the final year of your studies. The statement must be written by the degree administration office (or equivalent department), confirming that you are enrolled on the final year of your education and giving your expected completion date.
- ▶ Transcript of records in original language and translated into English. All courses taken must be included.
- ▶ Proof of English proficiency.
- ▶ Curriculum Vitae including details on your academic and professional career.
- ▶ A letter of motivation in which you prove your innovative potential. For this purpose we ask you to discuss or propose an entrepreneurial idea (one page with a summary and additional pages for details).
- ▶ Passport or other kind of identification in English.
- ▶ Two letters of recommendation (from professors of the most recently attended higher institution or recent employers).
- ▶ Optional: Document stating the GPA or the Relative Ranking

From our students -Opinions



More Student Opinion:

<http://www.masterschool.eitdigital.eu/about/videos/>