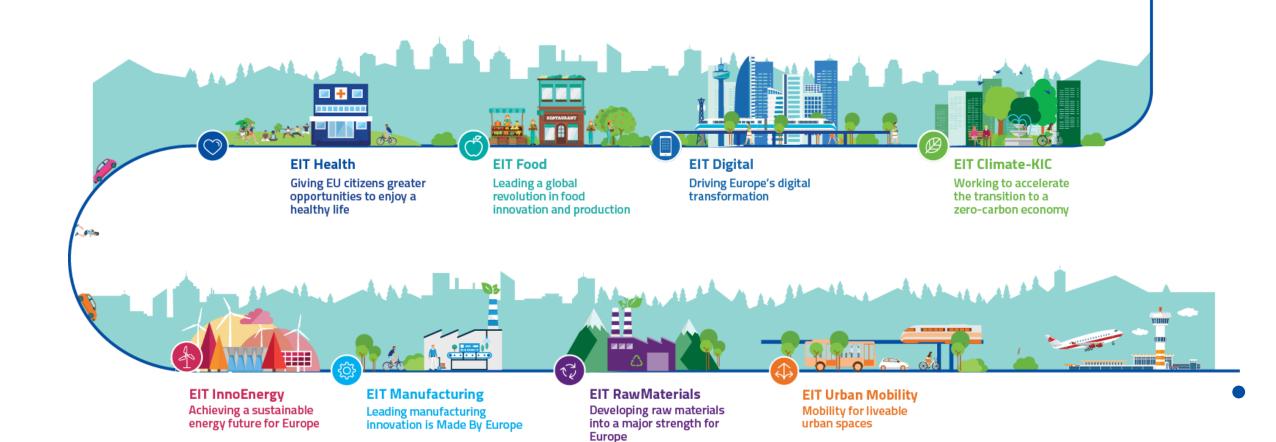# The EIT, Digital Innovation and Skills

EUA webinar: The European Union's digital policies: what is the role of universities?

Dr David Oliva Uribe
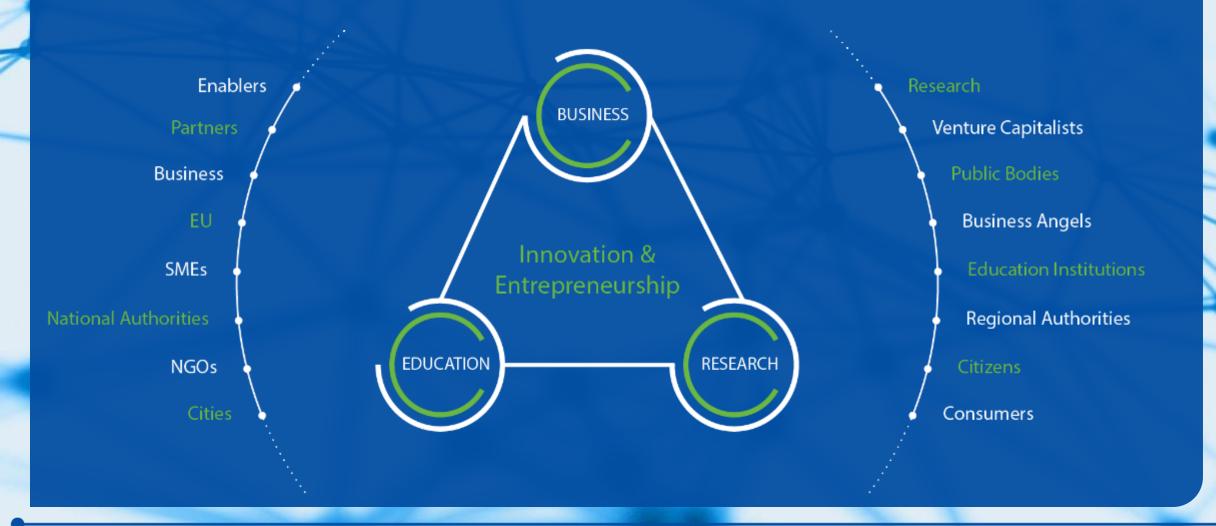
Head of Industrial Doctoral School

EIT INNOVATION COMMUNITIES

EIT Health

Giving EU citizens greater opportunities to enjoy a healthy life

EIT Food

Leading a global revolution in food innovation and production

EIT Digital

Driving Europe's digital transformation

EIT Climate-KIC

Working to accelerate the transition to a zero-carbon economy

EIT InnoEnergy

Achieving a sustainable energy future for Europe

EIT Manufacturing

Leading manufacturing innovation is Made By Europe

EIT RawMaterials

Developing raw materials into a major strength for Europe

EIT Urban Mobility

Mobility for liveable urban spaces

European Institute of Innovation & Technology

The EIT is a body of the European Union

EIT INNOVATION MODEL

EIT EDUCATION

- **1. Master and doctoral programmes**
  - In 2019-2020 appx. 2.406 MSc students and 315 PhD candidates enrolled in more than 60 programmes
  - International cooperation, industry involvement
  - Training on specific skills and competences
  - Mobility, internships and scholarships/ fellowships

- **3. Continuous, post-doctoral, lifelong learning courses**

- **4. Executive and Professional development education elements**

- **5. MOOCs and online learning (Coursera, FutureLearn, Learnify)**

- **6. Wide society education, Alumni and outreach activities**

Educating the next generation of entrepreneurs, innovators & change-makers

European Institute of Innovation & Technology

The EIT is a body of the European Union

EIT LABEL – FLAGSHIP EDUCATION INITIATIVE

- The EIT Label is a **quality seal** awarded to excellent master and doctoral programmes with strong focus on innovation and entrepreneurial education.

- EIT educational programmes are **carried out by universities & their faculties** aligned with the EIT specific learning outcomes and other quality criteria required for the EIT Label.

- A student graduating within the validity period of an EIT-labelled programme is awarded an **EIT Label certificate**.

EIT MASTER AND DOCTORAL PROGRAMMES DISTINCTIVE FEATURES

- Specific **innovation and entrepreneurship activities**

- **Robust entrepreneurship education**

- Highly integrated **learning-by-doing** curricula

- Strong focus on **industry and business** involvement at all stages

- Focus on **international and trans-organisational mobility**, European dimension and openness to the world

- Direct access to **other EIT activities**

- Graduates become members of **EIT Alumni community**

UNIVERSITIES INVOLVED IN THE EIT COMMUNITY

There are 249 education organisations involved in the EIT Community, including those displayed above

European Institute of Innovation & Technology

The EIT is a body of the European Union

The EIT Digital Entrepreneurial Academy

Education for Innovation & Digital Transformation Leadership

Innovation & Entrepreneurship in the Digital Transformation

- **Digital technologies** open a new door to **boost innovation** and **entrepreneurship** (I&E)

- **Business development** faces an **evolution** due to **digitalisation**:

  - **Digital business** are more **dynamic**, **faster**, **global**

  - New technological **innovations** are needed to be **introduced** faster, every year in many sectors.

  - **Research-based** solutions are **leading the market**

  - **Market** will **change** to **deep-tech** solutions with a stronger scientific approach

Innovation & Entrepreneurship in the Digital Transformation

- **The market is changing**

- **The business rules are changing**

- **The jobs are changing**

- **What is urgent to change?**

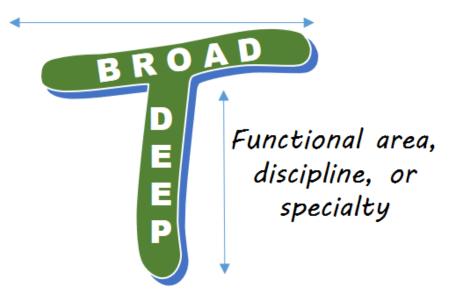# EIT Digital Entrepreneurial Academy

The new era of Talent in the digital transformation:

Leadership, Disruptive, Business-oriented, Digital Technical Expertise, Transformative

Ability to work outside of core area

BROAD

DEEP

Functional area, discipline, or specialty

Our Schools and Programmes

eit Digital

eit Digital — DOCTORAL SCHOOL

AT A GLANCE:

- Industrial research-based Innovation
- 12 European locations
- Access to the best talent with strong research, and business skills
- Access to state of the art research and expertise through our European university network

Innovation Focus Areas:
Smart Cities, Digital Finance, Digital Tech, Digital Industry, Wellbeing.

eit Digital — MASTER SCHOOL

AT A GLANCE:

- 20 partner universities
- 9 programmes in Digital Tech
- Harmonised I&E Education
- Mobility: double degree
- Industrial engagement + internships
- 700+ students
- Blended learning

Tech-focused programmes:
Cyber Security + Data Science + Embedded Systems + Cloud and Network Infrastructures + Autonomous Systems

eit Digital — PROFESSIONAL SCHOOL

AT A GLANCE:

- Professional Schools keeps European professionals at the forefront of fast-paced digital technologies
- Partnerships with leading institutions
- Blended learning courses

Focus on digital transformation and digital business models

eit Digital — SUMMER SCHOOL

AT A GLANCE:

- 2 week workshops
- 15 programmes in digital innovation & entrepreneurship
- 12 amazing locations in 11 European countries
- Gain hands-on experience through company cases, project work and field trips
- Earn 4 ECTS credits

Innovation Focus Areas:
Cities, Finance, Tech, Industry, Wellbeing.

7* MASTERS AT THE FOREFRONT OF DIGITAL TRANSFORMATION
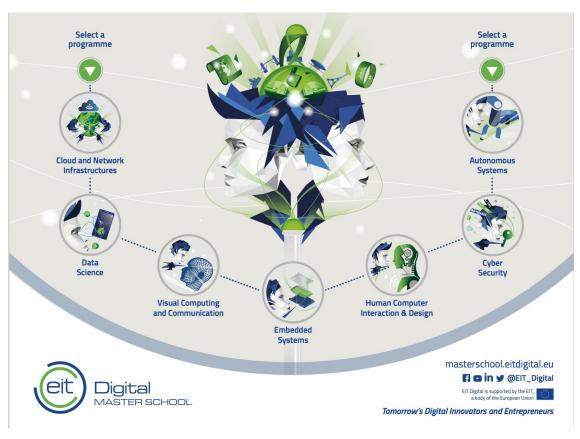
AUTONOMOUS SYSTEMS

CLOUD AND NETWORK INFRASTRUCTURES

CYBER SECURITY

DATA SCIENCE

EMBEDDED SYSTEMS

HUMAN COMPUTER INTERACTION AND DESIGN

VISUAL COMPUTING AND COMMUNICATION

*Two new programmes in Fintech and Digital Manufacturing in 2020
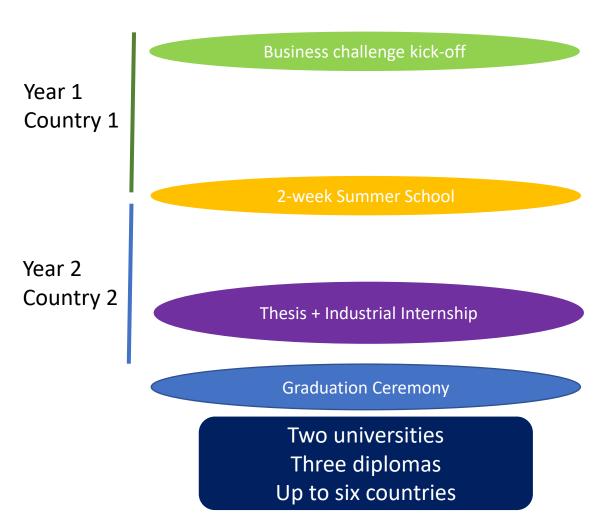
A UNIQUE EUROPEAN EDUCATION SCHEME

• Classic university track

• EIT Digital Master School

Year 1

Year 2

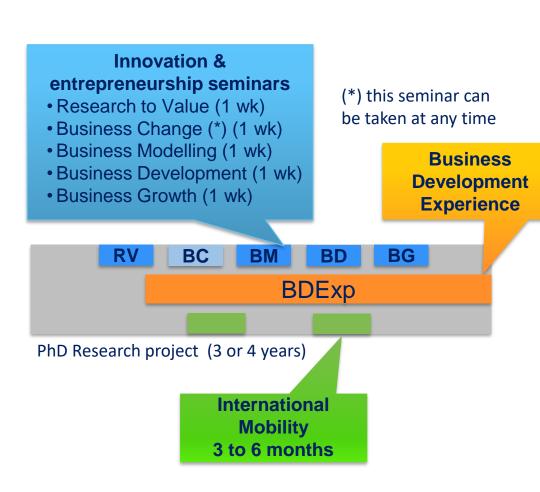One university
One country
One diploma

Year 1
Country 1

Year 2
Country 2

Business challenge kick-off

2-week Summer School

Thesis + Industrial Internship

Graduation Ceremony

Two universities
Three diplomas
Up to six countries

The Industrial Doctorate: fostering deep-tech innovation

eit Digital

Elements:

- Doctoral Programme:
  - PhD research project conducted for 3 or 4 years depending on the academic partner´s regulation.

- EIT Digital PhD Label:
  - International Geo-mobility
  - Innovation and & Entrepreneurship seminars (I&E)
  - Business Development Experience BDExp

Innovation & entrepreneurship seminars
- Research to Value (1 wk)
- Business Change (*) (1 wk)
- Business Modelling (1 wk)
- Business Development (1 wk)
- Business Growth (1 wk)

(*) this seminar can be taken at any time

Business Development Experience

| RV | BC | BM | BD | BG |

BDExp

PhD Research project (3 or 4 years)

International Mobility 3 to 6 months

EIT Digital Label: Education for Innovation & Digital Transformation Leadership – Learning objectives

General I&E skills

1. **Create products**, services, businesses, … with a customer/user-centric perspective
2. **Model**, plan and develop strategically & financially **new businesses**
   - Dealing with fast evolving scenarios and uncertainty (agility, lean)
   - Dealing with specificities of various entre- / intra- preneurial contexts with different stakeholders
3. Organize and **manage digital innovation**
4. **Integrate values** to stakeholders, to societal and ecological systems, **into business decisions**

Soft skills

1. **Communicate**, interact with business experts on a common language, educate
2. **Collaborate** in multidisciplinary / distributed teams
3. Exercise personal **leadership and decision making**

General I&E skills

Deep-tech I&E skills

Soft skills

Digital Transformation skills

Deep-tech I&E skills

1. Assess **value of research for innovation** and apply research and technologies to create new/improved products, services, businesses, …
2. *Exploit technology on the market* (IP, tech watch, tech maturity, tech commercialization strategies, standards)
3. **Leverage** EU / KICs research and **innovation support instruments**

Digital Transformation skills

1. **Develop a vision** of the impact of digital technologies on industries and society and opportunities created
2. **Deal with new success factors** in developing a business in the Digital era (hybrid BMs, lean organizations, digital customer experience, …)
3. **Contribute to organizations' change management**

Education for Innovation & Digital Transformation Leadership – Objectives
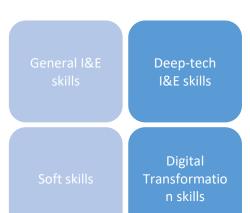
eit Digital

Bringing to Europe…
Entrepreneurial Researcher-Innovator

- Able to **explore innovation** and business opportunities in relation with his/a research and technological domain
- Able to address **valorisation of research** and technology commercialization, either extra- or intra-preneurial
- Able to go through the key stages of exploring, selecting, designing innovation, **business modelling** and development

… in relation with host-organization's context, **strategic challenge**

… **leveraging** his/her **entrepreneurial attitude and skills**

…being at the same time…

General I&E skills

Deep-tech I&E skills

Soft skills

Digital Transformation skills

Digital Transformation Leader

- **Mastering a technological area,** in depth
- **Able to build a vision** of the impact of digitalization on social/societal & ecological systems, industries and organizations
- **Able to communicate** his vision and ideas, inspire different stakeholders, educate, evangelize, network
- **Able to orient, influence, get resources, lead people** in different collaboration contexts (multidisciplinary, pan-European project or new venture, …)

Current University-Industry Collaborations for Industrial Doctorates