

Knowledge & Innovation Community

EIT ICT Labs





EIT ICT Labs Education Systematic Approach to EIT Label

Prof. Dr.h.c Prof.h.c Hannu Tenhunen Education Director



Our Education Strategy aims at breeding and attracting top talents

EIT ICT Labs Education Strategy

Breed and attract **top talent** via our Master and Doctoral School

Establish our brand in entrepreneurial ICT education and use EIT Label

Expand into **life-long** entrepreneurial ICT education based on our Action Lines





.



The Master School combines cross-node cutting edge technical and entrepreneurial education with strong industry collaboration

Unique features of the EIT ICT Labs Master School

First rate **technical education** at top technical universities with a **standardised business minor**

Strong industrial presence with guaranteed high standard **industrial internships** in our partner companies

Flexible combination of organizational and geographical **mobility**

Generating entrepreneurial students with a broad **European perspective**





We build on First Rate Technical Majors



at Top European Technical Universities





The EIT ICTLabs Master School

A 30 ECTS I&E minor + a 90 ECTS Technical major





Utilizing EIT ICT Labs Business activities in the Innovation and Entrepreneurship curriculum

Adding interdisciplinary inter node teambuilding activities such as a kickoff, summer school and winter school





Providing geographical mobility also utilizing the EIT ICT Labs network of Co-location centres



- First year at one university (Entry point) at one node
- Second year at another university (Exit point) at another node
- Getting Double Degrees complemented by an EIT certificate



Why to integrate I&E hands-on education to PhD studies

- Technology expertise is less useful in isolation
- It is vital for a PhD to understand the business ecosystem and to be able to function with it entrepreneurially
- Knowledge-intensive business (small and large) needs close interaction between business, technology, and content
- Modern global networked business means that all actors need business competence
- Most innovations to-day are created with customers
- Even those PhDs that continue their academic degree are exposed to businesses



Overall goals and characteristics

- Produce doctors with an Innovation and Entrepreneurial (I&E) mind-set
- Don't perturb the scientific quality of PhD,
- Don't alter the relationship between doctoral candidates and their supervisors
- Don't create a new EIT labelled degree, provide a certificate for the EIT ICT Labs doctoral school on Innovation



Doctoral School strategy

- Influence existing students and current doctoral programs through integrated PhD and I&E study program
 - Weaving I&E content to PhD program: PhD + MBA like program structure
- Creating more system and industrial oriented environment with Doctoral Training Centers
 - Students in various topics are integrated together with dynamic supervision content
 - Active participation of industry and placement of students to companies







Innovation & Entrepreneurship Education

Two phases:

Business Competence

Raising I&E awareness

- Opportunity Recognition
- Business Modelling and Development
- Growth and Harvest

Business Development Experience
Internship within industry
Or pre-incubation stay
Or starting-up a new venture

DTC Presentation | Page 12





	ECTS	Duration
Raising I&E awareness	0	2 days
Opportunity Recognition	6	1 week
Business Modelling and Development	15	10-20 weeks
Growth and Harvest	9	2 weeks
Business Development Experience	30	3 months



Doctoral Training Centres

- From professor centric to student and problem centric learning
- Common thematic or technology
- Critical mass (around 20 to 30 PhD students)
- Network of involved companies
- Commitment of researchers



Common European wide selection





Main characteristics

- Industry-focused scientific challenges around a common thematic
- Critical mass of doctoral students
- Half of students' time in industry, half in DTC
- Well identified premises
- Accumulation of open knowledge
- Commitment of permanent researchers
- Distributed supervision of doctoral students

AR	
	FO
A Contraction	
	Ď.
	'n
-1-	
The o	