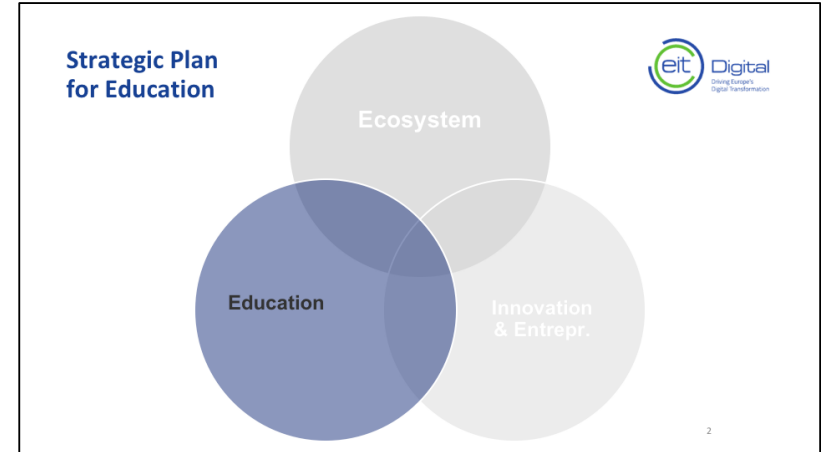




I am ...
and I will try to give an overview of the Education activities of the EIT Digital in Italy



Education is one of the fundamental components of the EIT Digital and according to the strategic plan for education, among the main goals that we had set is to

- Enhance MSL attractiveness/quality
- Launch/build a successful IDSL
- Launch Professional School
- Strengthen Summer School

**Engage Industry
Increase CLC Integration**

Education Partners



Master School

- Università degli Studi di Trento
- Politecnico di Milano



Doctoral Training Center

- Università degli Studi di Trento
- Politecnico di Milano
- Alma Mater Studiorum - Università di Bologna



3

The education activities are performed by 3 education partners, namely ... for the MS school and the YYY for the DTC

Master School



Enhance attractiveness/quality

KPI: # students from 60 (in 2017) to 100-120 (in 2018)
50 recruited in Italy

- have continuous dialog among education partners
- visit program coordinators in universities
- agree on number of seats to reach a critical mass
- make sure to maintain attractiveness/quality of programs



4

The main goal that we had set up was to increase the attractiveness and the quality of the school

UniTrento MS specializations



Entry

- Internet Technology and Architecture (ITA)
- Visual Computing and Communication (VCC)
- Cyber Security (CSE)
- Autonomous Systems (AUS)

Exit

- Internet Technology and Architecture (ITA)
- Visual Computing and Communication (VCC)
- Cyber Security (CSE)
- Autonomous Systems (AUS)
- Human Computer Interaction and Design (HCID)
- Embedded Systems (ES)

5

PoliMi MS specializations



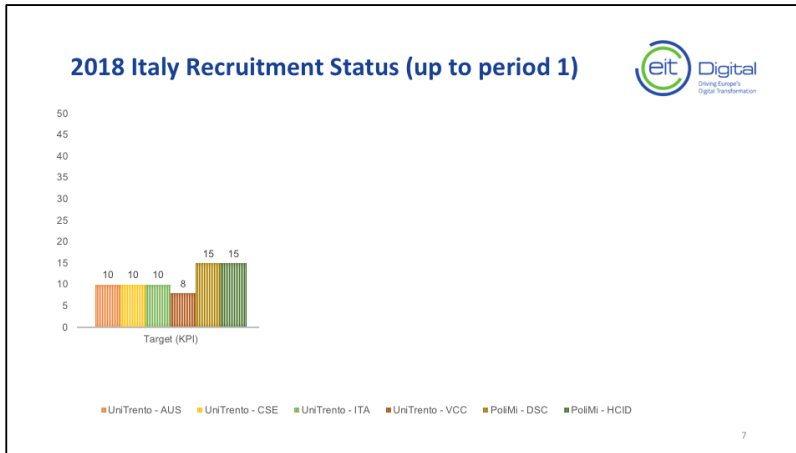
Entry

- Data Science (DS)
- Human Computer Interaction and Design (HCID)

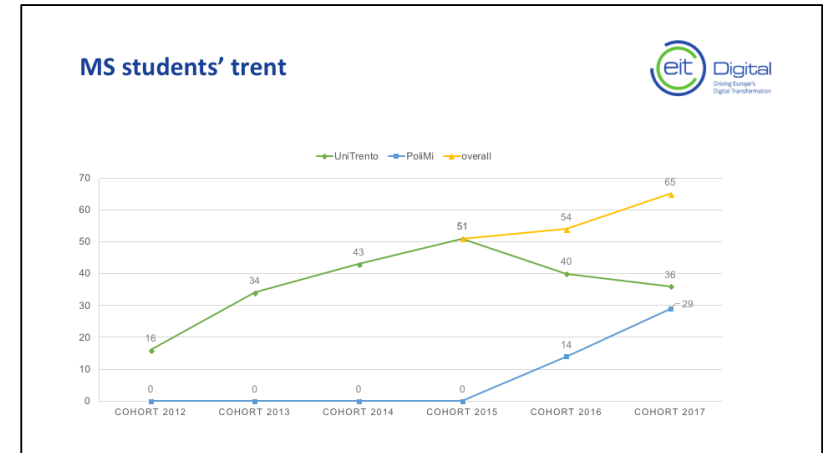
Exit

6

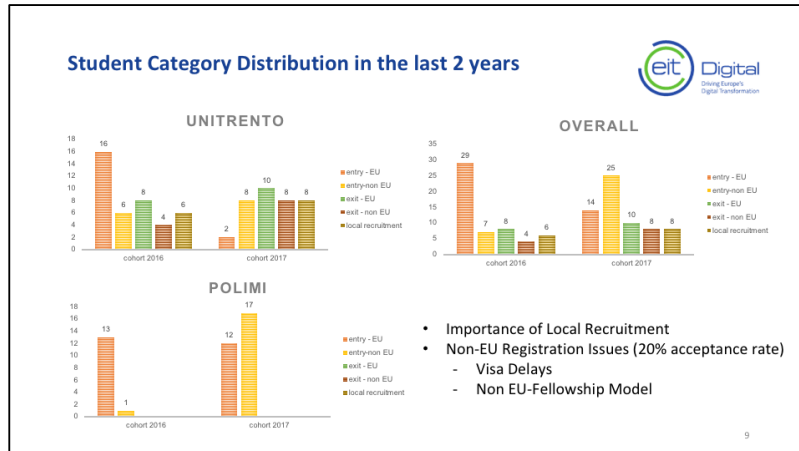
The specializations that are operating right now are the following.



Where do we stand right now. This is the targets we were aiming and after the first period we are here. We are expecting to reach ...

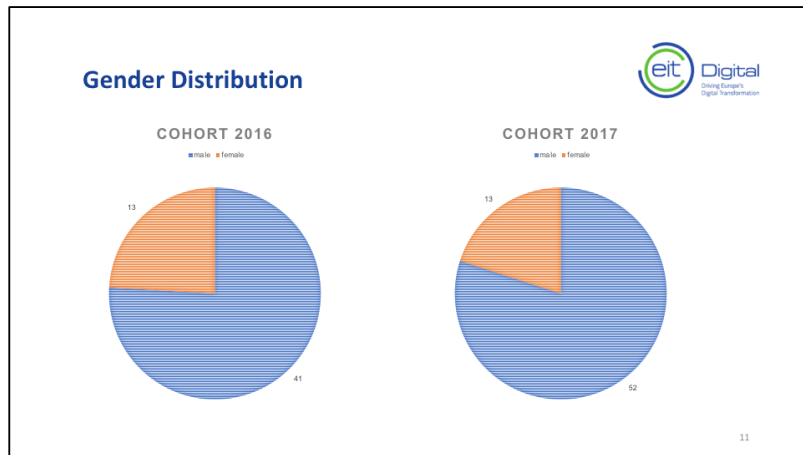


This is how the number of students has increased over the years. Since 2015 we see a drop in Trento but I will comment on this in a subsequent slide.

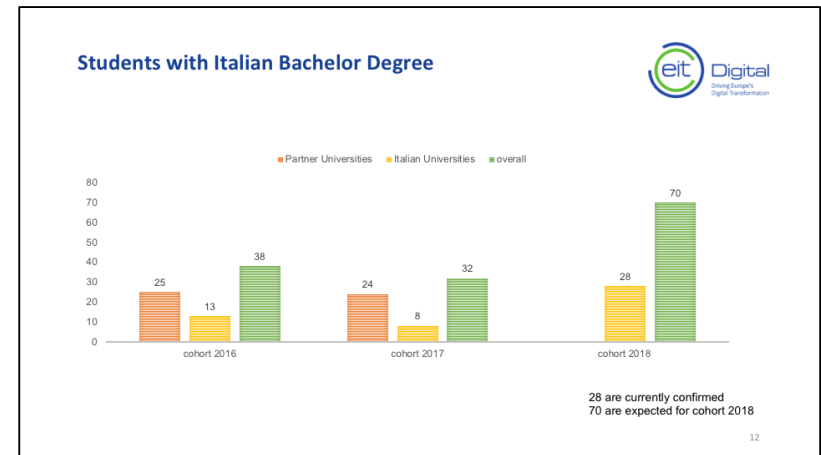


If we look at the category distribution of the students we can see that the EU-nonEU at least in Trento is more or less with an EU advancement, but what is important to us here is that the local recruitment is an important part supplying mechanism for EIT Masters.

Another important comment that we need to make here is for the non-EU students



For what concerns the gender distribution we are more or less stable at around a little more than 25%



Another parameter to consider is the contribution of EIT to the local education. So if we look at the institutions from where the students took their BSc degree we can see that we have a significant number from Italy

=====

2018 = 28 (dato attuale, prospect 70)

students who entered the program (in general) with an Italian degree

Partner university = UniTrento, PoliMI

Italian universities = all the others

Italian Node - marketing activities



Local recruitment actions

- Trento:
 - 28 Feb. 2018: Presentation of MSL to students (Period 2) @U. of Trento
 - 13 Mar. 2018: Presentation of MSL at ICT Days – Career Fair @Trento CLC
 - 13 & 15 Mar. 2018: Class presentations to DII undergraduate students
 - May 2018 presentation MSL to students (Period 3) @U. of Trento
 - Jun. 2018: Presentation of MSL at major coordinators @U. of Trento
 - Jun.-Sept. 2018: Web/social media campaign
- Milan:
 - Spring'18: Advertisement through institutional channels / social media (e.g. Facebook)
 - 16 May 2018: Presentation of MSL at Career Fair @Poli Milano

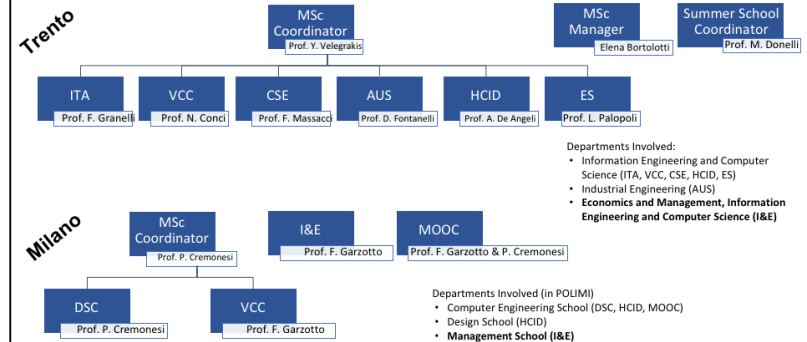
National-level recruitment actions

- Opportunities:
 - Leveraging on partner Universities (e.g. U. of Bologna, U. of Genova)
 - External agencies for survey and advertisement
 - Scaling-up via networks of Universities (e.g. CINI)
- Challenges:
 - Roadshows – not very successful in the past
 - National job fairs – career days related to single Universities
 - Poli Milano: Reaching capacity (max 15 students each) very quickly on DSC

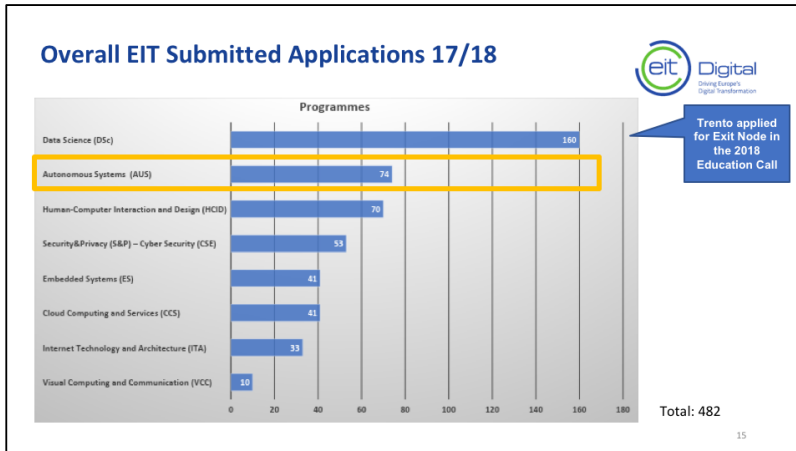
13

On the marketing site, we have performed a significant number of activities ...

MS Implementation



The implementation of the MS programs are well integrated and taken seriously in all the Italian nodes. In Trento each major has a responsible person, that are all supervise by me in collaboration with Elena as MSc Manager, and we have another specific person for the summer school. Milano has a similar structure with a persons specific for the I&E implementation. Among all the majors, we have to note that the AUS is staring this Sept ...



and is a very successful program only second to the number of application it has received. The first id DSC for which Milano is an entry

Success Stories

- Nicola Parrello, Software Developer, **Bunq**, Amsterdam
- Matteo Poletti, Software Engineer, **Google**, Zurich
- Steven Tait, Senior Consultant, **EY**, Milan
- Alessandro Tomasi, Network consultant, **Juniper Networks**, Amsterdam
- Alex Martinelli, Solution Engineer, **IBM Watson**, Dublin

We can demonstrate many success stories, among them some of our graduates that have found jobs in well known big companies like Bunq ...

Doctoral School



Build Industrial Doctoral School

KPI: 15 new IDSL students in 2018

- launch of IDSL in Milan, in collaboration with Poli MI
- define number of seats in Trento & Milan
- ensure the students are coming to the CLC/Satellite
- encourage partners to provide IDSL students



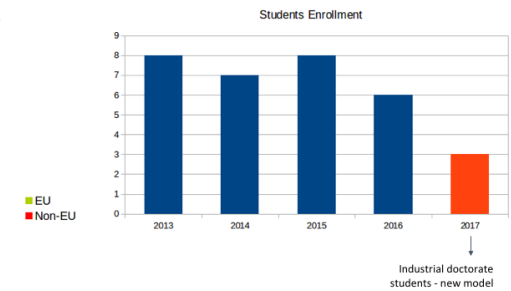
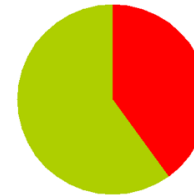
17

OK

Roster of enrolled PhDs



- 26 active students (32 in total)
- 13 nationalities
- 40% female, 60% male
- 60% EU, 40% non-EU



OK

Ph.D. students - Industrial Doctorate



3 industrial Doctorate students:

- Engineering co-financing scholarship - Stefano Pio Zingaro (UNIBO) - Nov. 2016
Digital Cities - Topic: Language-Based Approach for Interoperability in Smart Cities Scenario
- CRF co-financing scholarship - Alice Plebe (UNITN) - Nov. 2017
Digital Cities - Topic: Deep neural networks for self-driving cars
- TIM co-financing scholarship - Giovanni Pellegrini (UNITN) - Nov. 2017
Digital Industry - Topic: Constructive Preference Elicitation

OK

Students achievements in I&E



- 1-st place, "Datathon for Social Good" competition, London, UK (2013)
- Startup Competition Finalist, [Smart Energy Systems Idea Challenge](#), EIT Digital, Berlin, (2014)
- Project 'visitiamo' received [honorable mention](#) for social impact at the [national contest for innovation in ICT in Italy](#), Perotto Zucca
- [First prize winner](#) at the [VT Knowledgeworks Global Student challenge](#) at Virginia Tech (2014)
- 1-st place, [Telecom Italia Big Data Challenge](#), Data Analytics track (2014)
- [Finalist to the EIT Digital summer school](#) on intelligent services (2015)
- 2nd position at the [StartupLab contest](#) held in Trento (2015)
- Winner of the [EIT Digital summer school 2016](#) "Privacy, Security and Trust" (2016)
- Selected student to participate at the [Google NLP Summit](#) for PhD students in Zurich (2017)
- 1st Place (out of 150 participants) at the [Football Italian Hackaton](#), Trento (2017)
- 2nd place on [ACM\Microsoft Student Research Competition](#) (2017)

OK

BDExp achievements



2 Ph.D. students developed their business idea during the BDExp:

- Univerius - Pavel Kucherbaev
- **FeelSpace** - Julia Wache

3 Ph.D. students are about to start their business idea after/during the BDExp:

- **StudiObliquo** - Zeno Menestrina
- **Facify.me** - Andrey Bogomolov
- Verilista - Didem Gundogdu

Other startup ideas on the business development phase (ongoing BDExp).

OK

I&E modules - 2018



Business Model Development - ongoing - (2nd year course, Feb. 20th - May 30th)
About 160 participants. In collaboration with BDLab and Startup Lab (Master)

In the next months:

Raising Awareness (1st year course, from Nov. 19th to 20th)
Opportunity Recognition (1st year course, from Dec. 10th to 14th)
Growth and Harvest (3rd year course, from Sept 24th to Oct. 5th)

BACKUP SLIDE

Industrial PhD proposals 2017 -2018



Call 2017

- 9 Ph.D. project proposals (4 Engineering, 2 CRF, 3 Telecom)
- 5 out of 9 Ph.D. proposals approved by the MC
- 2 out of 5 Ph.D. positions assigned (students started in Nov. 2017)

Call 2018 - KPI: 15 Ph.D. Activated positions: 4

- 1 Ph.D. position with CRF - current (1st) UNITN Call for students
- 2 Ph.D. positions with IBM - current POLIMI Call for students
- 1 Ph.D. position with Reply - current POLIMI Call for students
- 5 Ph.D. positions on hold - Engineering, Mapillary Research (non-partner), OSRAM (non-partner)
- Possible interest from Electrolux, GFT, STM, SAP Germany (total 6 possible positions)
- ~ 25 companies on the Digital Cities domain within the EIT Digital network (partner and non-partner) contacted - *Comau, ST Microelectronics, Reply, Engineering, BT, Siemens, Dallara, Thales, Pirelli, Maserati, Ferrari, Lamborghini, Enel, ENI, Fastweb, Spindox, Spazio Dati, Algorab, Ericsson, Dedagroup, Zoppas, Telecom, ...*

OK

2018 KPI



Build Industrial Doctoral School

KPI: 15 new IDSL students in 2018

- launch of IDSL in Milan, in collaboration with Poli MI
- define number of seats in Trento & Milan
- ensure the students are coming to the CLC/Satellite
- encourage partners to provide IDSL students

- 4 position advertised
- 5 prospect, 4 possible
- hard to achieve the KPI without non-partners

- IDSL in Milan launched (3 positions offered)
- continue to ensure that students use CLC facilities (Trento and Milano)
- continue to promote partners involvement (low response until now)

OK

Professional School



Launch Professional School

KPI: 15+ paying participants from Italy

- define the target of seats for the professional school
- define how to encourage partners to provide seats at Professional Schools



25

Call 2019 proposal - Innovation & Industry 4.0 Professional School



Activity Purpose

- Methodology and design of innovation lab in Industry 4.0 (I4.0);
- Realistic testbeds to improve student capacity toward effective cooperative work;
- International settings and benchmarking towards integrated innovation I4.0.

Expected Outcomes and Impact

- The main goal is to implement training modules on transferable hard and soft skills that include competence in Industry 4.0 topics under the technical point of view, and innovation management and entrepreneurial skills.
- The summer school will adopt and develop new formats of unconventional participatory education activities in a dynamic and open environment that involves also local and companies active in the I4.0 area.
- Participants will be involved also in company site visit and immersion.

clear this is the aim for 2019 from Bologna

Call 2019 proposal - Digital Transformation and Social Challenges



Activity Purpose

- Enable professionals and companies affected by the digital transformation to become active players
- Modules:
 - Innovation impact and disruption points
 - Moore's law impact in processing, storage, communications
 - From Scarcity to Abundance, from Atoms to Bits, from products to services
 - Symbiotic autonomous systems
 - Robotics/AI
 - Digital transformation in Manufacturing/Retail - supply and distribution value chains
 - Digital transformation in Healthcare, including human augmentation

Expected Target

- Public administrations and industries in a blended mode

Summer Schools



Strengthen Summer Schools

KPI: 15+ paying participants from Italy

- define how to encourage partners to provide seats at Summer Schools
- make sure to maintain attractiveness/quality of programs



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IN UNITN WE HAVE A NETWORK OF COMPANIES FOR TECHNOLOGICAL TRANSFER, AND DURING SEMINARS VISITS AND ANY KIND OF COLLABORATIONS WE PROMOTE THE EIT ACTIVITIES AND IN PARTICULAR THE SUMMER SCHOOL

THE ATTRACTIVENESS IS GUARANTEE CHOOSING HIGH LEVEL SPEAKERS AND CASE STUDIES PROVIDED BY COMPANY ON REAL SCENARIOS.

Summer School CSP2017



- Cybersecurity and Privacy Trento - July 1-15 2017
 - Overall number of students: 45
 - EIT Digital MS students: 29
 - Arise stipend holders: 10
 - External paying participants: 1
 - UniTrento local students: 5
- Added values:
 - Education to business opportunities
 - I&E and business models development
 - Group work and synergies
 - Team building



We are now working for the 2018 edition

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CSP2017 students evaluation and comments



Evaluation for	(out of 6)	<i>What did you learn from this experience?</i>
• facilities:	5.19	• to get better teamwork and to contribute in the group
• Information:	5.39	• validation is the key
• Programme:	5.12	• people skills by working together
• Lectures:	4.68	• solidification, security issues, Italian culture
• I&E:	5.21	• new ways of approaching the business
• Use cases and coaching:	5.52	• basic concepts of security and privacy
		• in-depth knowledge of entrepreneurship

30

Added values:

- Education to business opportunities

STRONG INTERACTIONS WITH COMPANY INVOLVED

- I&E and business models development

EXPERTS IN ECONOMIC WITH STRONG CONNECTION WITH SMALL AND MEDIUM

COMPANIES PROVIDE MOST RECENT I&E MODEL

- Group work and synergies

WE ALWAYS TRY TO USE THE DIFFERENT SKILLS PRESENT IN OUR UNIVERSITY, THE

- Team building

DUE TO THEIR HETEROGENEITY OF THE SKILL AND OF THE PEOPLE INVOLVED A TEAM

BUILDING IS MANDATORY TO LEVEL THE KNOWLEDGE AND PROMOTE THE

COLLABORATION BETWEEN THE TEAM MEMBERS.