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Introducing New Collaborations

In these busy months when the definition of the training modules is in full swing, I.S.I.S. Malignani has also conducted an intense activity towards expanding the network of the Talentjourney project.

Letters of intent to co-operate in the frame of the Talentjourney project have been recently signed by I.S.I.S Malignani and some major entities representing the stakeholders on the regional scenario.

They are: COMET Srl – Cluster Meccanica FVG, DITEDI – Distretto industriale delle Tecnologie Digitali Scarl, EESTEC - ELECTRICAL ENGINEERING STUDENTS' EUROPEAN ASSOCIATION LOCAL COMMITTEE TRIESTE, I.S.I.S. della BASSA FRIULANA, Sorint.tek and DMIF - the Department of Mathematics, Computer Science and Physics of the University of Udine.





COMET represents around 3,800 enterprises in North-Eastern Italy working mainly for the metal processing and mechanics sector. Fully »integrated« within the regional R&D Ecosystem, it is a founding member of the DIH Pordenone – Advanced Manufacturing Solutions, the first experiential Digital Innovation Hub developed according to the guidelines of the Italian national Industry 4.0 Plan.

DITEDI represents the main point of contact among the main players in Friuli-Venezia Giulia’s digital ecosystem, ICT companies and the manufacturing companies. Their activities aim at supporting the improvement of competitiveness and the dissemination of digital skills, while increasing the value of ICT companies and contributing to the development of the so-called Advanced Manufacturing Valley.



EESTEC is an apolitical, non-governmental and non-profit organization for EECS students at universities, institutes and schools of technology. Among other things, they act as a link between the academic world and the world of work providing students with opportunities to refine their preparation for the labour market.

The VET-provider **ISIS DELLA BASSA FRIULANA**, with headquarters and training centres located in the south-eastern territory of Friuli Venezia-Giulia, offers courses in a large variety of STEM subjects. Digital innovation and internationalization as two of the main themes guiding their educational mission.

*Expanding the network,
digital transition
ecosystem*



Sorint.tek is a Business Unit of SORINT.lab Group focusing on the development of Advanced Analytics and Machine Learning Solutions. Their people, methodologies and tools provide top-notch innovative services. They have always relied on young talents to take on the new challenges that the technology sector constantly presents.

DMIF offers bachelor degree programmes in Mathematics, Computer Science, Internet of Things, Big Data, Machine Learning and Multimedia Science and Technology, plus master degree programmes in Mathematics, Computer Science, Multimedia Communication and Information Technology, Artificial Intelligence and Cybersecurity, Data Science and Scientific Computing, and Physics. It has more than 80 faculty members, about 1500 enrolled students, 16 research labs, and a wide network of collaborations with other universities and with companies both at national and international level.

These new proposed collaborations reflect the great interest surrounding the Talentjourney project, whose principles and goals are eagerly shared by the world of work and the world of education alike.

/// Author: Cecilia Rizzotti

European Institute for
Innovation – Technology (Elfi-Tech):

Talentjourney report 2.3 on ideation of a transnational joint curricula

**Skills, IIOT,
IOT, smart
manufacturing,
sustainable, data,
methodology,
transnational,
curricula, VET**

The main goal of the Talentjourney report 2.3 on ideation of a transnational joint curricula is to develop the idea and the concept of transnational Industry 4.0/IIOT (Industrial Internet of Things) in smart manufacturing vocational curricula/joint curricula that will be implemented in the countries of the project's partnership – Slovenia, Italy, Finland, Estonia.

The result of the Talentjourney report 2.3 written by Elfi-Tech is a framework (idea/concept) for transnational Industry 4.0/IIOT (in smart manufacturing) vocational curricula/joint curricula consisting of the following parts:

- ideation of trans-national Industry 4.0/IIOT (in smart manufacturing) vocational curricula;
- indicators that are crucial for the excellence of joint curricula;
- reasons for entering into joint curricula collaboration;
- added value and wider relevance of the intended learning outcomes;
- inclusion in the involved partners' strategy and internationalization policy;
- assurance of involved partners' support (strategic and practical) and flexibility;
- national and institutional/employers' regulations of involved partners regarding implementation of joint curricula;
- involved partners' strategic commitment, mutual trust (through open communication and a shared understanding);
- considering (draft planning) budgeting for implementation;
- a clear definition of target learners;
- benefits for the main end users: learners, VET teachers/tutors, company trainers, employers, other stakeholders.

The main focus of reports conducted by Elfi-Tech is that the Talentjourney transnational joint curricula is showing learners, teachers and employers what has been learnt and what one can do as a result of that Talentjourney learning. Across the EU, there is a large variety of training and qualifications available, and quality educational and training programmes

are grouped together into levels to demonstrate how they compare and what other qualifications they can lead to – hence, Talentjourney should level the joint curricula providing its learners with pathways to progression and employment, a clear path to positive outcomes.



**Estonia,
Industry 4.0,
Conference**

Estonian Electronics Industries Association: **Another conference “Industry4.0 In Practice” has been held on May 27th 2021**

Already for seventh year the leading organisations such as TalTech (Tallinn University of Technology), Estonian Association of Information Technology and Telecommunications, Estonian Electronics Industries Association, Enterprise Estonia and numerous flagship technology companies joined forces to promote the opportunities emerging from Industry 4.0 framework. The event has a strong track record of bringing together and benefitting manufacturers, ICT vendors, service industry, academia representatives and policy makers to discuss policies and practices to digitalise manufacturing.

The main areas of the Industry 4.0 in Practice 2021 conference were:

- Twin Transition of Industry
- Smart Technologies
- Practical Use Cases

All presentations are available for free replay here: <https://industry40.ee/#2021>

Keynote speakers, Alois Krtil from ARIC Hamburg and Dirk Ploss from Beiersdorf AG shared their long experiences of innovation management. User cases were presented by various traditional industries like food, furniture and housing sector.

The event took place in a hybrid format hosting both on site and remote participants with similar tools to enjoy the talks and interact. Due to the current health and travel restrictions many international participants used the opportunity of remote participation.

Below: a panel discussion “What does Twin Transition of Industry Mean in Practice?”





Estonian Electronics Industries Association:

A new campaign to attract electronics students was launched by Estonian Electronics Industries Association

Estonia, Campaign for Attracting Students

Estonia is a place known for its IT success stories and many kids want to study and pursue a career in IT sector. The electronics sector is not so well known and attractive although it is the most successful manufacturing sector with a lot of interesting career opportunities.

To tackle the problem, Estonian Electronics Industries Association started the first campaign to promote electronics education in summer 2020, introducing the many options offered by Estonian educational institutions and different job profiles in the electronics sector. Job profiles and career stories were published on various web sites, campaign posters were placed on the streets of cities where electronics could be studied. The aim of the



A poster from the 2021 campaign that says “Do you want to send someone to the Moon? Study electronics!” featuring a President and CEO of Incap Corporation Otto Pukk

campaign was to make the choice easier for fresh graduates making an important decision about their future career path.

The results were excellent – both universities and VETs reported remarkably higher admission numbers.

Thus, the campaign “Study electronics!” was repeated in June 2021.

A campaign web site www.elektroonik.ee (estonianelectronics.eu (in Estonian) gives an overview of electronics related curricula in various VETs and universities. Even more interesting are the interviews with persons working in electronics industry to give youngsters an idea what a career in electronics industry is like.

Campaign posters were placed in five cities and social media.

The campaign was supported by schools and several private companies.



Estonian Electronics Industries Association: **Technology competitions encourage the interest for electronics among kids**

Technology competition, Estonia, Electronics, Raising Awareness in primary schools

Technology competition is a novel form to test technology skills of primary school students in Estonia. The competitions are held at regional level and the winners will get a chance to compete with their peers at national level.

Arno Kolk, the Managing Director of Estonian Electronics Industries Association greeted the participants of the first technology competition of Lääne-Virumaa county that took place on May 22nd. In his speech he stressed the good prospects of electronics both in Estonia and the whole world and encouraged the participants to continue their studies in electronics field. “The products created by our engineers and factories are often invisible – they make mobile communications work or cars ride; we use them daily but cannot buy from local supermarket. The electronics factories are humble and unnoticed buildings but employ actually a lot of people from engineers to technicians. After the outbreak of Covid-19 more manufacturing is restored in Europe, increasing even more the need for technologically skilled workers.

Electronics serves as a basis for digital transformation – it helps to make everything smart.”

The competitors had a task to solder a line following robot, both girls and boys participated successfully.

According to the technology teachers young people take interest in technology but the schools often lack resources, thus the help from outside is welcome. For example, the winner of the competition had his first soldering lessons from his father and continued to practice at school.



The winner of the competition Ainar Tropp (on the right) with his winning robot

**Career Day,
Slovenia,
Networking,
Employment
Caffe**

School Center Kranj:

Employment Caffe



On Thursday, April 22nd, 2021, at Kranj School Centre we organized and very successfully carried out an interesting Career Day event. With the event we aimed at students leaving secondary school or vocational college. They had the opportunity to introduce themselves to future employers and become more familiar with employment opportunities in the local environment.

The event was also interesting for other students who would like to find opportunity for WBL at the companies, summer jobs, scholarships. The event was also open for the unemployed, those who wanted to change jobs ...

The entire event was organized online in the environment of MS Teams. Each interview was limited to 7 minutes.

Participating companies:

- Iskra d.d.
- Iskraemeco d.d.
- Trelleborg Slovenija d.o.o.
- Polycom d.o.o.
- Goodyear Slovenija d.o.o.
- Hypex d.o.o.
- Kolektor ETRA d.o.o.
- Skupina Elektro Gorenjska

25 people applied for the event: 5 of them were unemployed, 8 came from vocational college and 12 from secondary technical school.

Why the “Employment Caffe?”

1. Meet successful businesses in the local environment.
2. To get information about internship opportunities (WBL), summer jobs, final assignments, opportunities to cooperate with companies during studies...
3. Get the information about scholarships.
4. This could be already my job interview?

School Center Kranj: **Meeting with employers**

**Meeting with
stakeholders,
Employers,
Cooperation,
Slovenia**

At SC Kranj 3 meetings with employers were organized on implementation of modules Development of production processes and Data Science.

Third meeting was attended by members of the Talentjourney team, the headmaster of STŠ, representatives of Polycom and Elektro Gorenjska, and representatives of the Faculty of Organizational Sciences (FOV) and the Faculty of Mechanical Engineering (FS).

At the meeting, which took place in the environment of MS Teams and Miro, we wanted to define the possibility of cooperation and realization of modules with all stakeholders.

This was followed by a short presentation of the module by experts on the project and the search for opportunities for cooperation. We have arranged meetings with FOV and FS, where concrete opportunities for cooperation were detected, especially the possibility of using their resources.

Microsoft Teams

14:55

Request control

miro Customer Journey Map (Timeline)

Participants

Invite someone or dial a number

Share invite

In this meeting (9)

Mute all

- Sabo Bizant
- Alenka Rogja
- Alenka Cukjati (Guest)
- Aljaž Rogelj
- Marko Simic (J.L. FS) (Guest)
- Mateja Senk (Guest)
- Matic Rink
- Natala Kristan
- Nicaj Petrovič

Aljaž Rogelj

Matic Rink

Alenka Cukjati (Guest)

Marko Simic (J.L. FS) (Guest)

Mateja Senk (Guest)

Natala Kristan

13:09

1.06.2021

Tukaj vnesite izraz za iskanje

miro

Participants

13:19

1.06.2021

Tukaj vnesite izraz za iskanje

miro Delavnica s podjetji 1.6.2021

Participants

13:19

1.06.2021

Tukaj vnesite izraz za iskanje

miro Delavnica s podjetji 1.6.2021

ZNANOST O PODATKIH

1. Analiziranje izbranega problema (4 ure)
2. Zajemanje podatkov (IOT) (16 ur)
3. Predprocesiranje/čiščenje surovih podatkov v baze/tabele (Excel, Orange, Pandas, SOLite, SOLAlchemy) (14 ur)
4. Vizualizacija podatkov (Excel) (6 ur)
5. Izbiranje in izdelava algoritmov/modelov (29 ur)
6. Testiranje modela na obrabnih primerih in ocenjevanje natančnosti (evalvacija sistema) (4 ure)
7. Optimizacija sistema (4 ure)
8. Dokumentiranje zmožnosti in lastnosti sistema (4 ure)
9. Samostojni projekt (30 ur)

Participants

13:19

1.06.2021

Tukaj vnesite izraz za iskanje



Enhanced Manufacturing Operations with IoT

*Do you want to get involved in the project? Send us an **email**.*

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**TALENT
JOURNEY**