

# Platform for IoT excellence

*Centres for vocational excellence  
virtual conference*

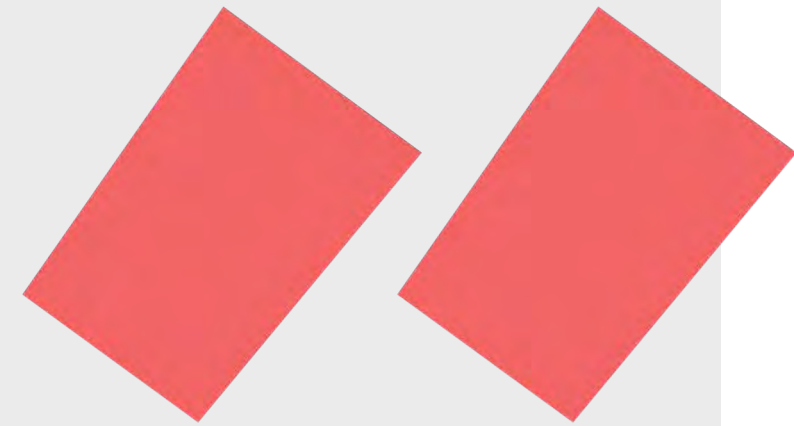
16 June 2020



With the support of the  
Erasmus+ Programme  
of the European Union

**In a near future, the Internet of Things will drive most of the manufacturing processes –**  
*from product development to customer service.*

IoT in manufacturing is happening  
and we're part of it.



*Chapter 1*

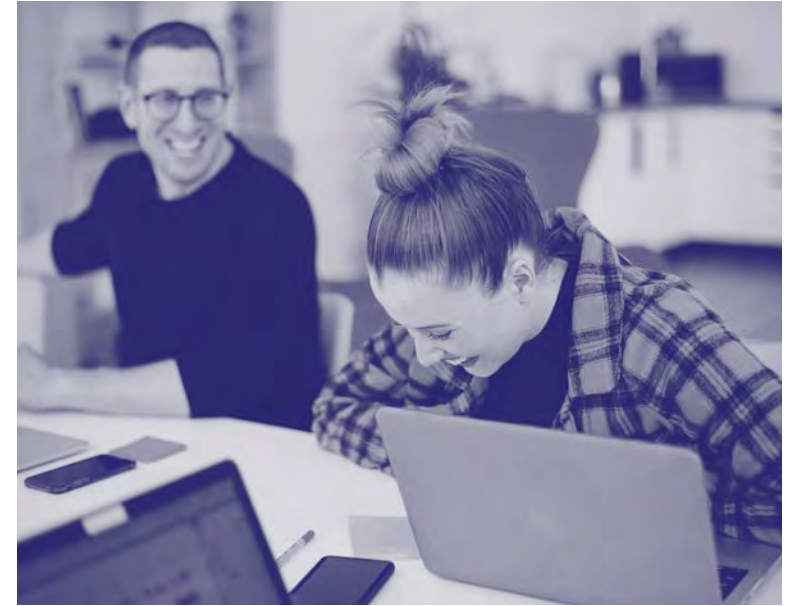
# Talentjourney idea



# Project partners...

share the same idea to bring the partnership in VET provision to the excellence in IOT field in smart manufacturing with focus on solutions that are:

user oriented,  
user friendly,  
environment-friendly.



# We.....

- are inspired by industry trends
- put learner first
- co-create with users
- base on strong partnership of experienced international EU partners.
- test locally and scale internationally.





*Chapter 2*

# **We innovate VET**



**Learning process**

**Teaching process**

**Organisational  
models**

**Ecosystem models**

Skills needs  
research in IOT  
WP 2

Professional  
development  
WP 3

Regional/national  
and international  
ecosystem  
WP 5

Digital platform  
Talentjourney  
and our brand as  
world reference  
point

User  
😊



# Lifelong VET

We drive transformation by bringing together the capabilities needed to help organizations grow and thrive in the digital age. Through Talentjourney we will help modernize core technology, optimize and automate operations, create excellent digital experiences, and build digital talent and culture.

**Keep searching for new talents, researchers, industry partners to constantly grow and shape the European IOT talent network and IOT data collection.**

## *Chapter 3*

# We work on



# WP 2: Skills needs research

## IOT in SMART MANUFACTURING

- **AI/AR**
- **Cybersecurity**
- **Robotics engineering**
- **Production process development**
- **Data science**

## META SKILLS

- **Decision making**
- **Responsibility**
- **Problem solving / / Critical thinking**
- **Communication**
- **Curiosity and Creativity**
- **Emotional intelligence**
- **Teamwork**

## GREEN SKILLS

- **Lean manufacturing**
- **Technology and process development for natural resources protection**
- **Risk management and assessment**
- **Installation of energy efficiency measures**
- **Green technology development**

A woman with long brown hair is shown in profile, writing on a whiteboard with a white marker. The word 'FEEDBACK' is written in large, bold letters on the whiteboard. The background is a solid red color.

# **“IoT creates value by transforming conventional business models.”**

**“Young generations are introducing a flexible and agile way of working e.g. co-working, remote working. The number of external contractors and freelancers to get specific tasks done will increase...”**



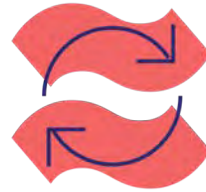
# WP 3: Professional development to train key actors

VET teachers

In-company trainers

Company experts

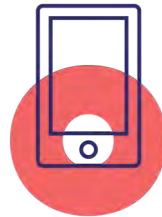
Leadership



**design new educational processes through creation of innovative learning & working environment**



**introduce innovative pedagogical approaches**



**introduce constant knowledge flows on IOT in smart manufacturing to create user oriented, simple, eco-friendly solutions**

A background image showing three people (two men and one woman) working on a robotic assembly line. They are focused on their work, with one person holding a tool. The scene is industrial, with various mechanical parts and a robotic arm visible. The image has a blue tint.

**Talentjourney provides  
inspiring and motivating  
training process and will face  
the needs and requirements  
of the modern society and  
economy.**



# Professional development

- **12 Professional trainings**
- **4 Masterclass trainings**
- **Short webinars**

by company experts, researchers, experts working in international corporations & research institutes all around the world



# Professional development

## Trainings

- IoT cybersecurity
- The Green IoT
- IoT analytics & visualization
- IoT data collection & management
- IoT in Smart manufacturing
- IoT & VR & AR
- User centricity and design thinking
- New organisational models

## Channels and approach

- On-line and off-line personalized tutoring
- Learning, tutoring, working in virtual labs
- Augmented Reality as a training tool
- Hands on projects
- Learner-VET teacher-company trainer as co-workers
- job shadowing and company visits



# **WP 4: Transnational curricula & lifelong up/reskilling**



**Develop transnational IOT curricula EQF 4,5**



**Develop life long trainings/up-, reskilling**



**Design and introduce innovative approaches  
into VET provision**



**Establish demo labs**



**Pilot curricula & trainings**

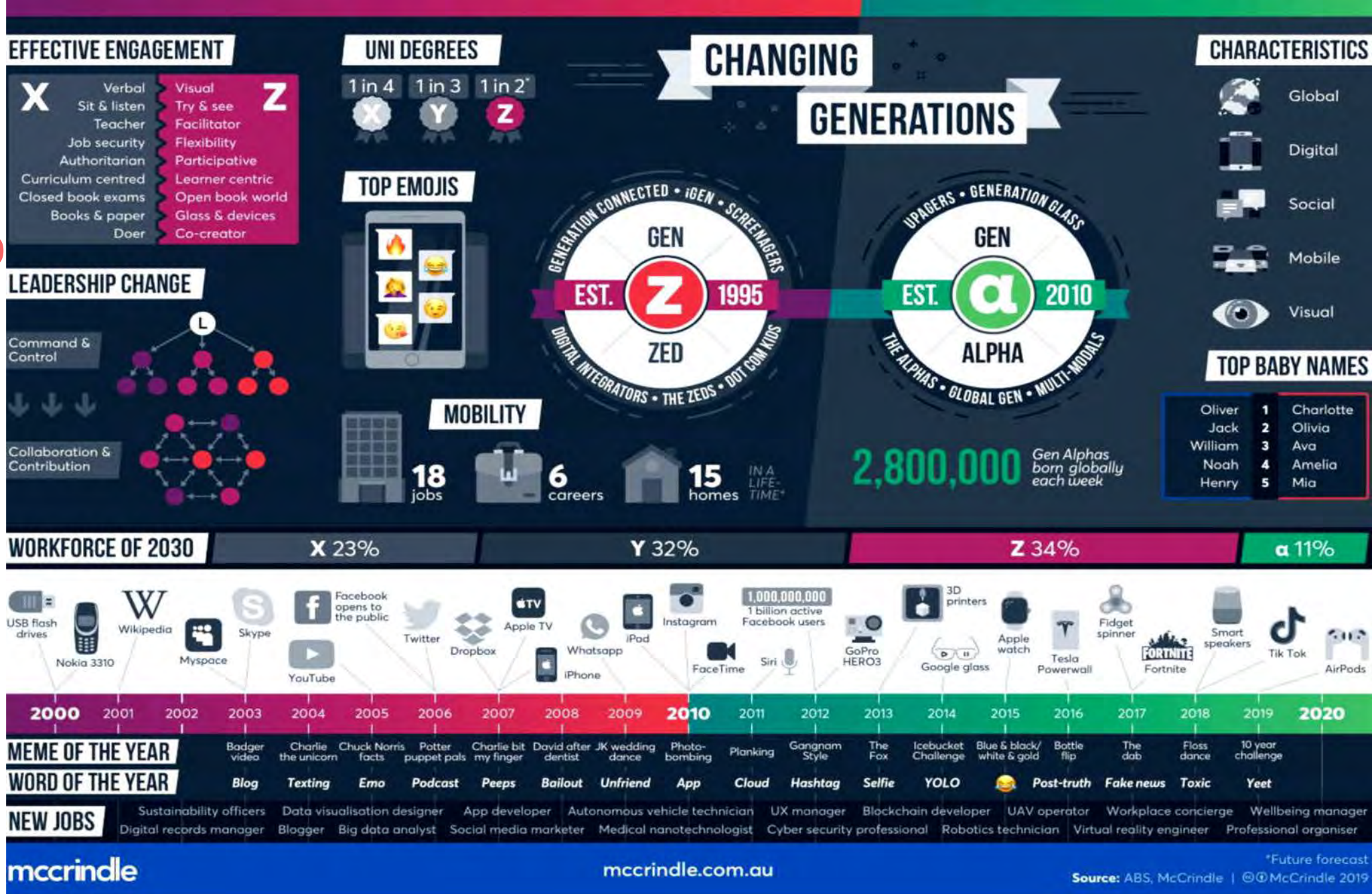
# Important facts

1. Gain knowledge through **learning-by-doing, screen-touching, using digital tools**
2. **Purpose-driven** and authentic **environment** based on shared value
3. Establish a **lifelong learning culture**
4. **Cooperative approach to work** e.g. project based, teamwork,...
5. Fear of education older & low skilled people

# Workforce of 2030

Gen Z

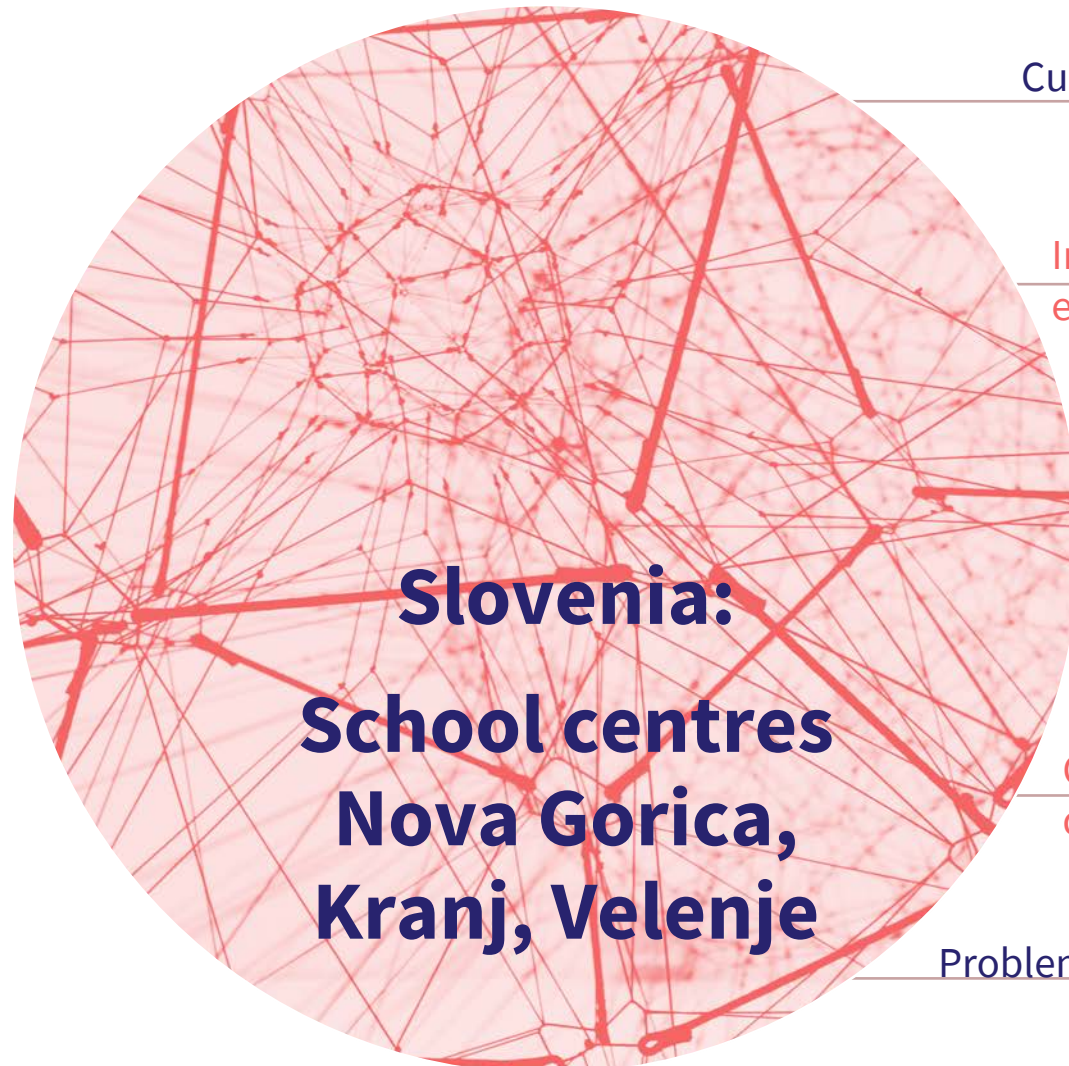
Gen Alpha



Virtual conference



# Skills for work & life



Curiosity and Creativity



AI/AR

Installation of energy  
efficiency measures



Cybersecurity

Teamwork  
Emotional  
intelligence



Production process  
development

Green technology  
development



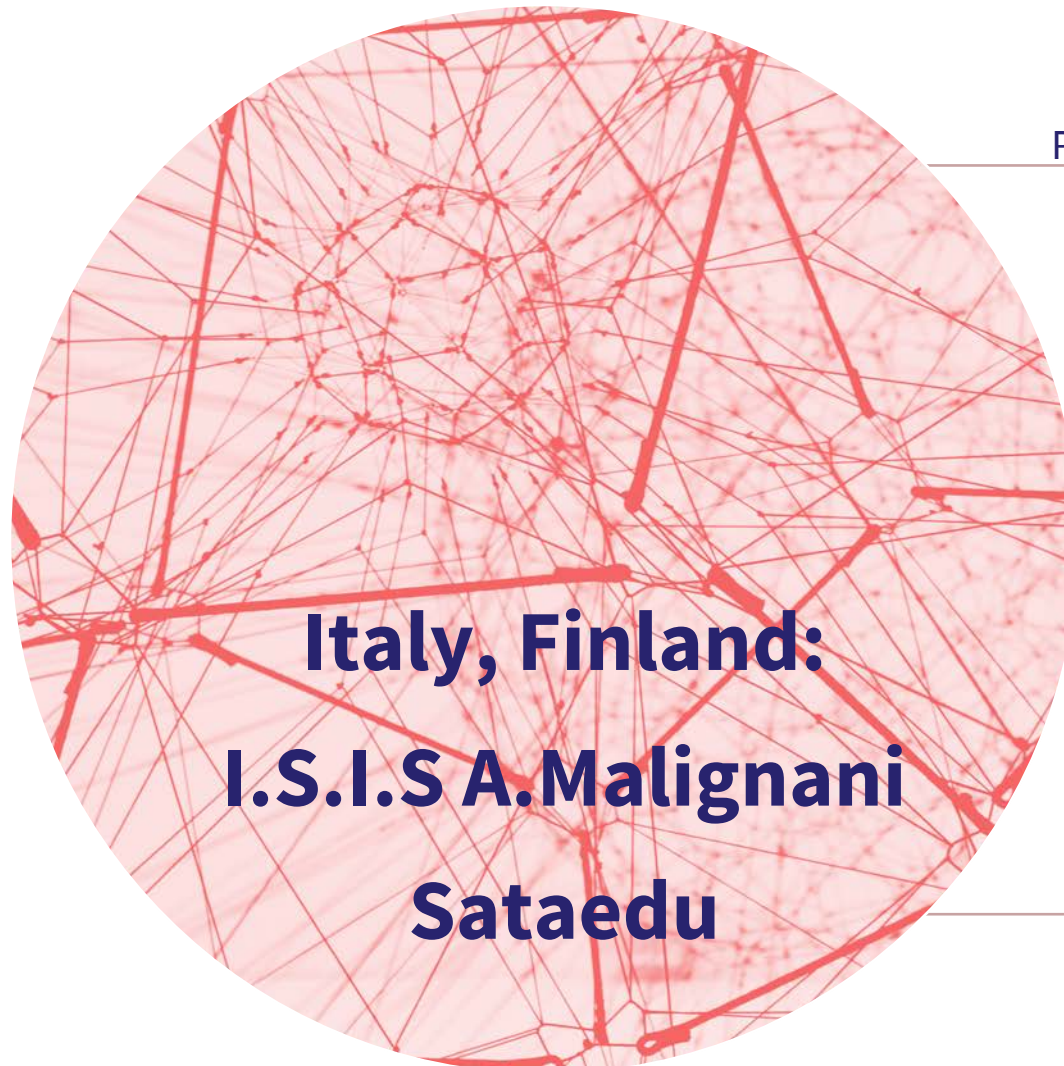
Robotics engineering

Problem solving/Critical thinking



Data science

# Skills for work & life



Problem solving



Robotics  
engineering



Green  
technology  
development

Critical thinking



Risk  
management  
and  
assessment



# Skills for work & life

**Estonia:  
Tallinn  
Polytechnic**

Lean manufacturing



AI/AR

Communication



Production  
process  
development



Robotics  
engineering

Problem solving/Critical thinking



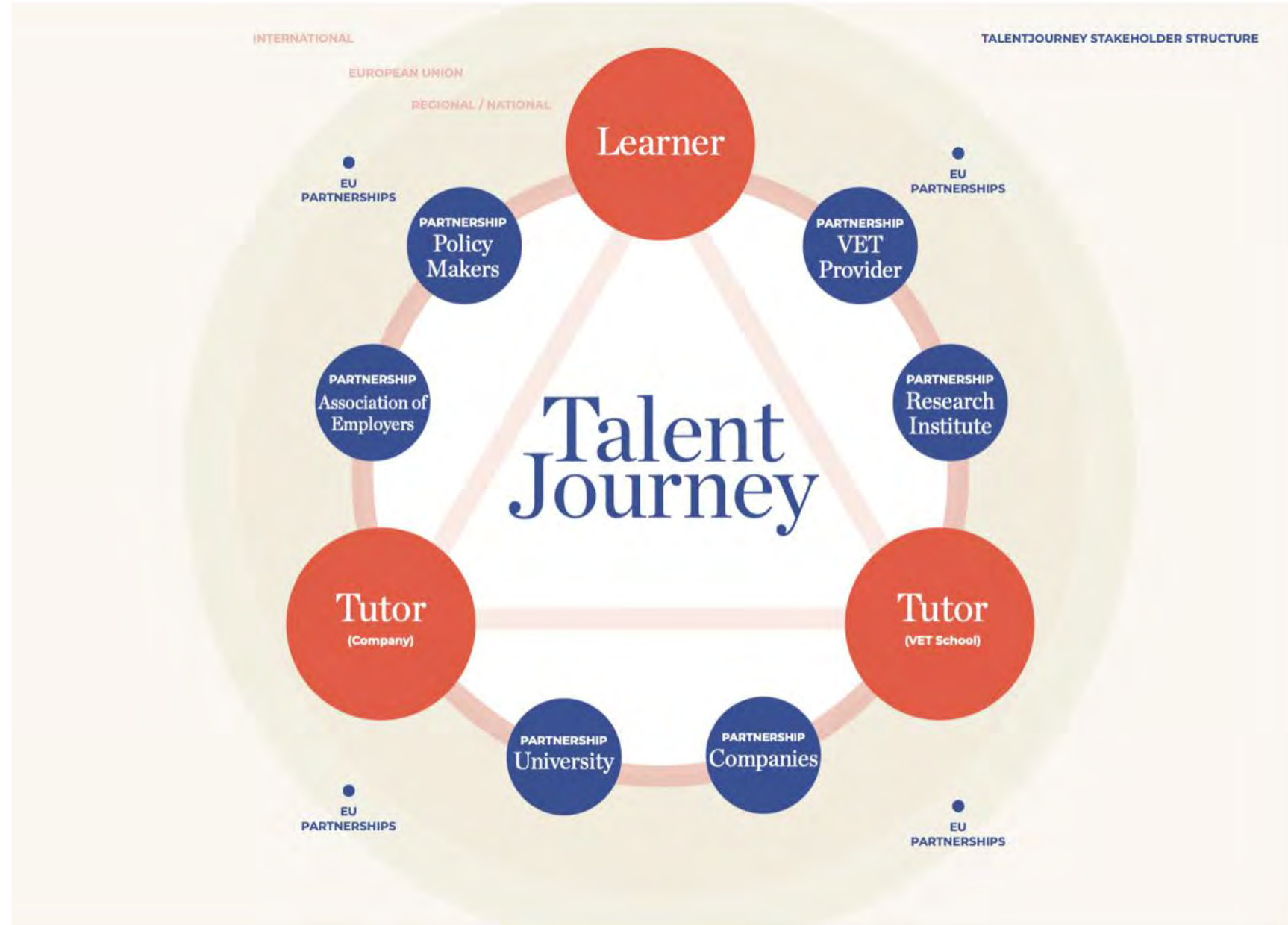
Installation of  
energy efficiency  
measures



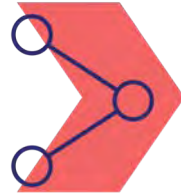
# Connecting the expertise

- Learners
- VET teachers
- Leadership school & company
- Researchers
- Top experts from all around the world
- R&D departments
- University of applied science

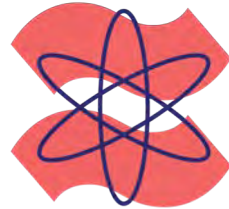
Mentoring scheme & mapping  
video



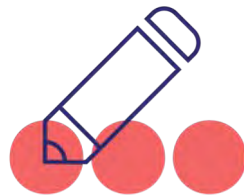
# **WP 5: Service blueprint for IOT Platform at regional and EU level**



**Designing stakeholder ecosystem for VET  
excellence at EU level**



**Designing stakeholder ecosystem for VET  
excellence at regional level**



**Preparing the Memorandum of  
understanding for common collaboration  
inside our IOT Platform**

# Service design approach

## Personas



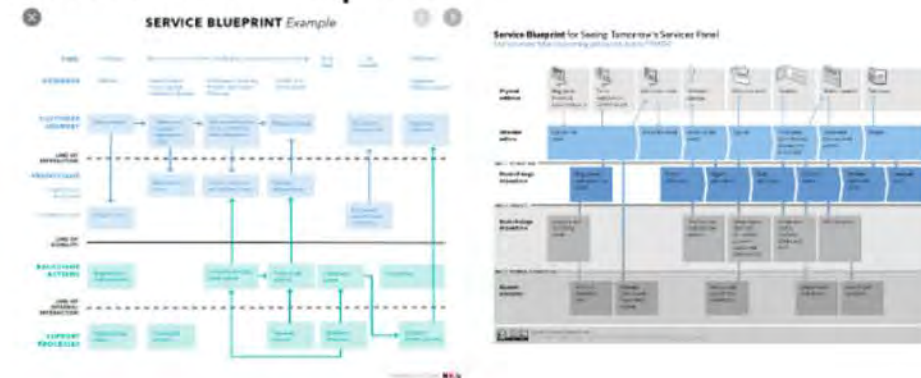
## Ecosystem map



## User journey map



## Service blueprint



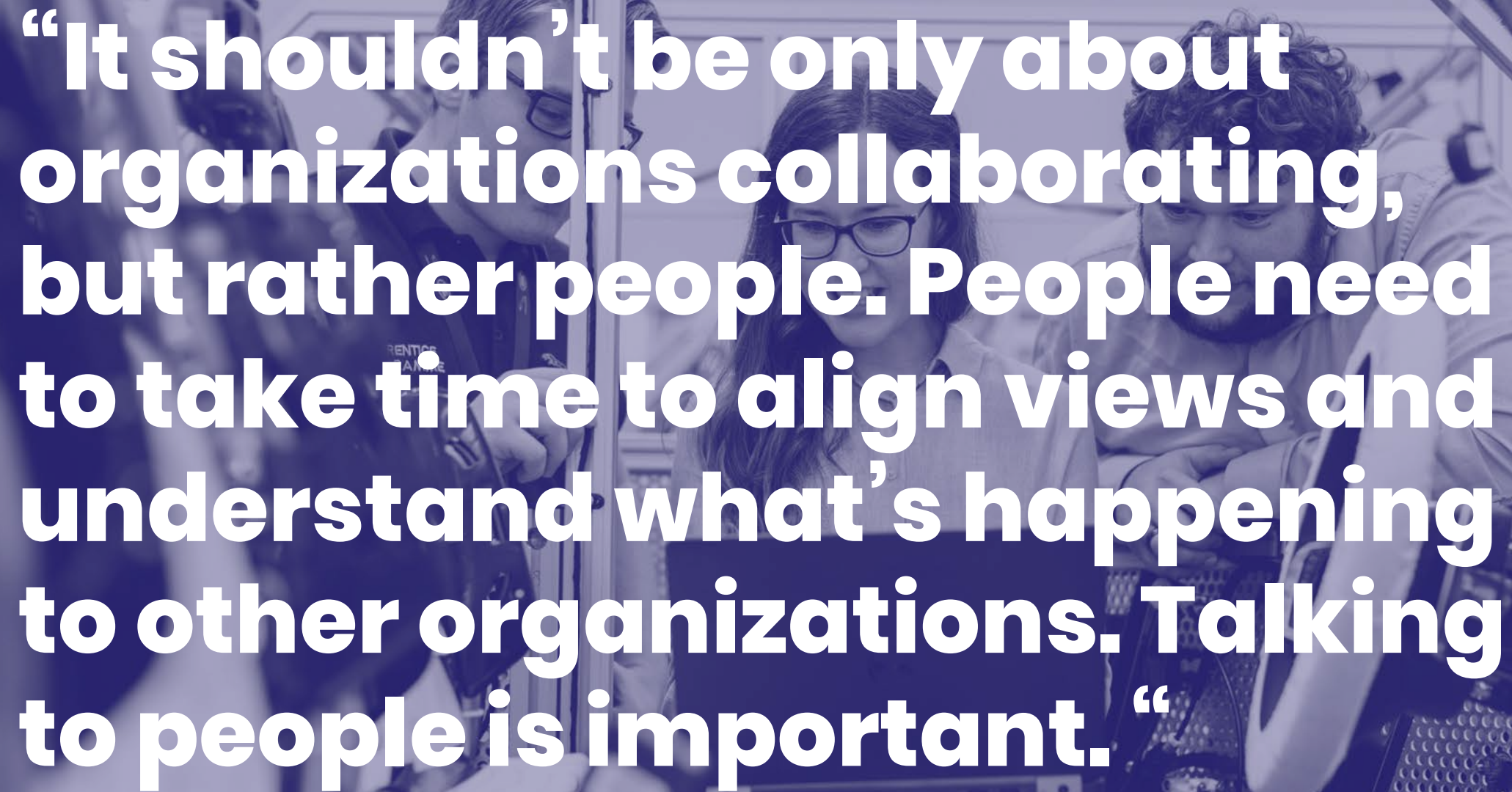




**“Young learners want to decide more about their own education and have co-ownership of the educational process and content.”**

“Students lack an understanding of the bigger picture of industry and its applications. This is also one of the biggest industry needs: professionals who have a holistic view of CDS/IOT and automation.”



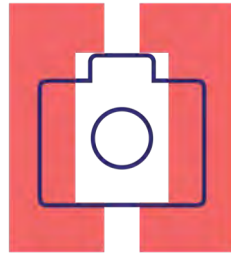
A background image showing three people in a factory or industrial setting. A man on the left, a woman in the center, and another man on the right are all looking at a laptop screen. They appear to be collaborating on a task. The image has a blue tint and is overlaid with a large white quote.

**“It shouldn’t be only about organizations collaborating, but rather people. People need to take time to align views and understand what’s happening to other organizations. Talking to people is important.”**

# WP 6: Dissemination and exploitation of project results



**Project website with social media channels**

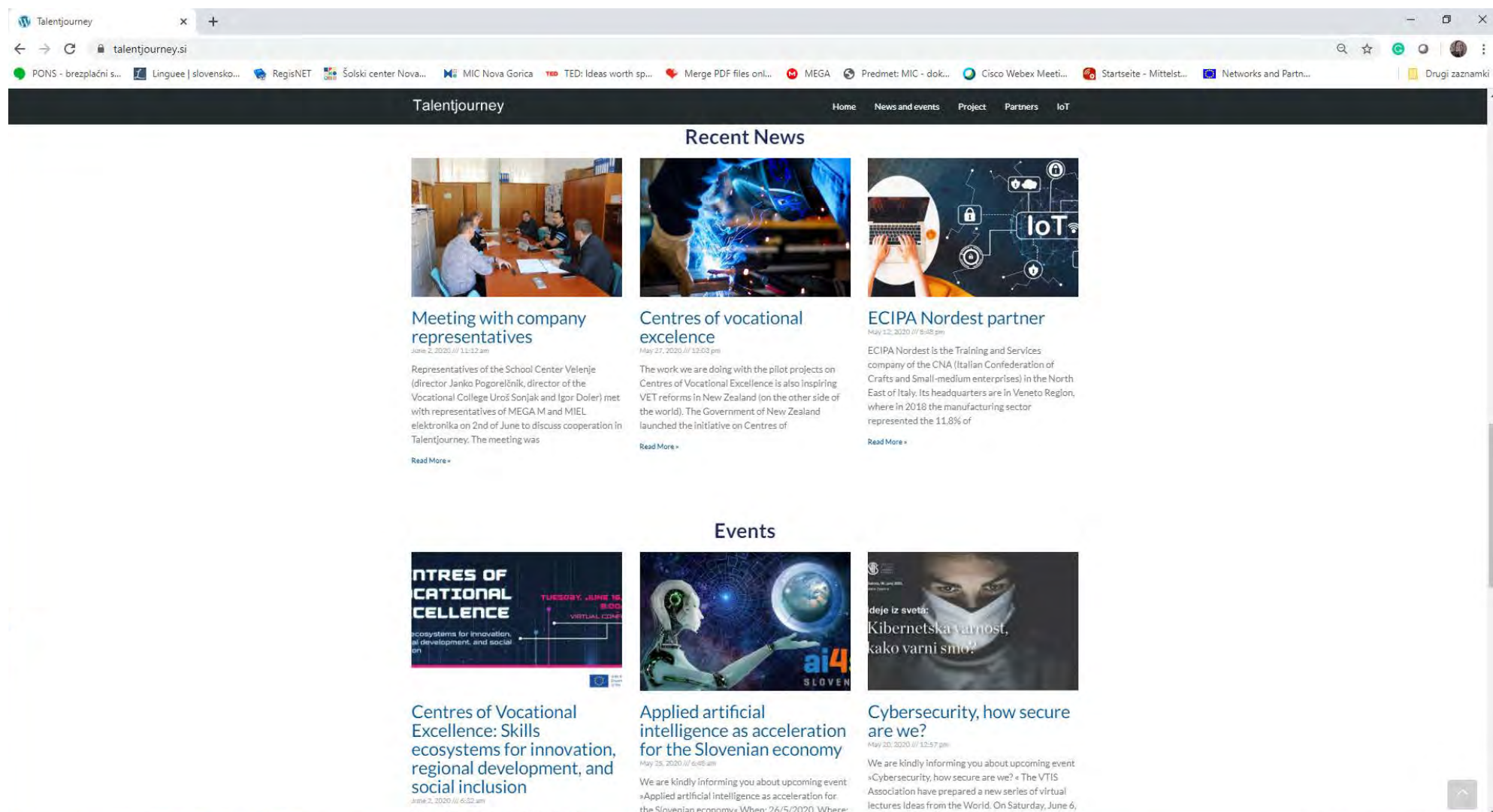


**Visual identity**

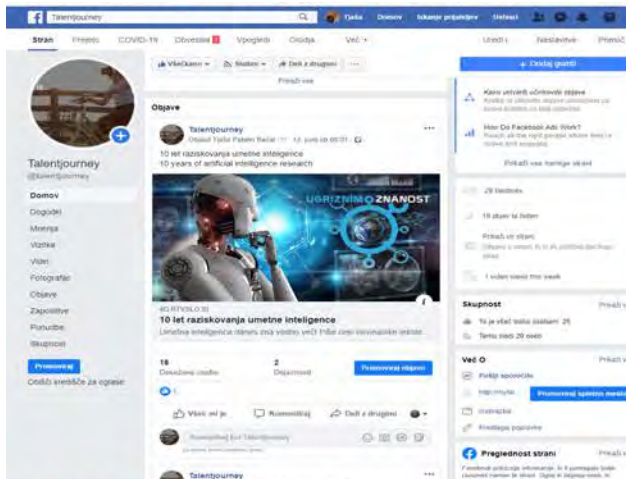


**Digital platform as a guidance of Talentjourney services**

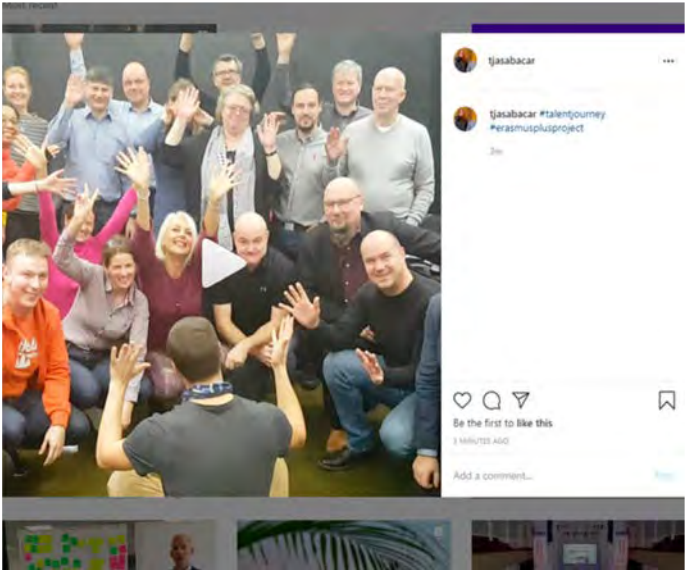




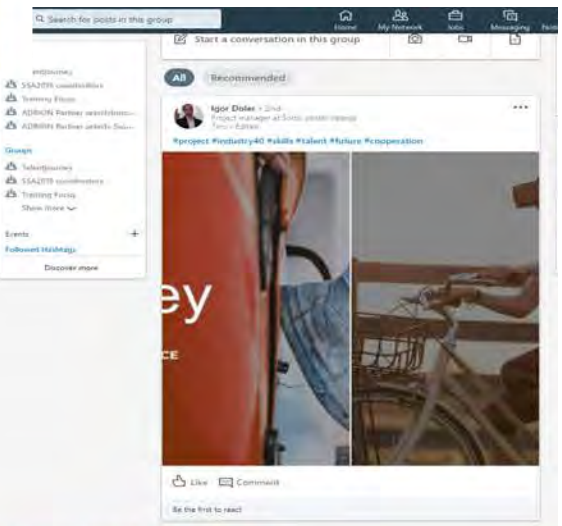
# Social media channels



<https://www.facebook.com/talentjourney/>



[#talentjourney](https://www.instagram.com/talentjourney/)



[#talentjourney](https://www.linkedin.com/company/talentjourney/)



[#talentjourney](https://twitter.com/talentjourney)

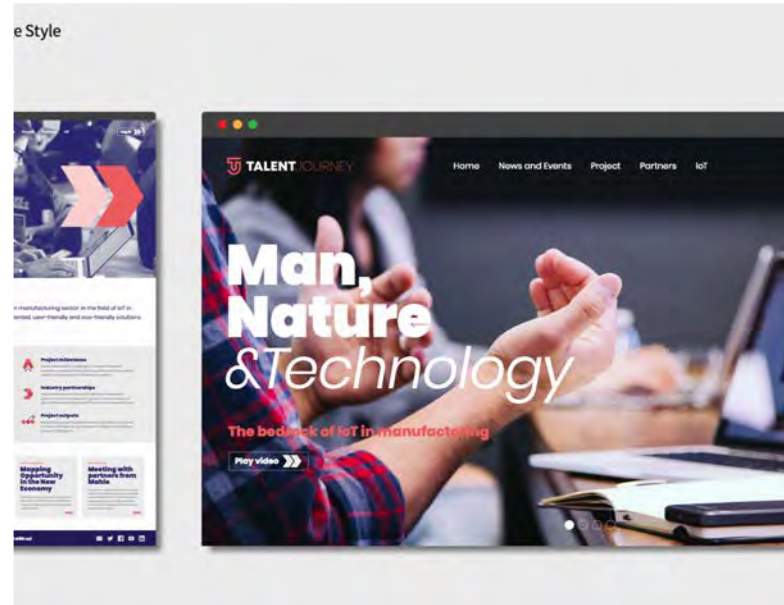


**BRAND IDENTITY**

May 2020



# Visual identity



pe Variations

WHITE  
PES

TALENT JOURNEY

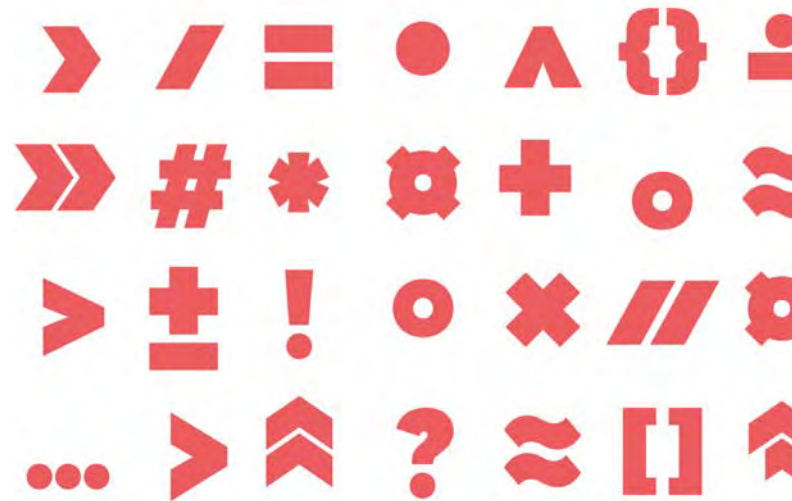
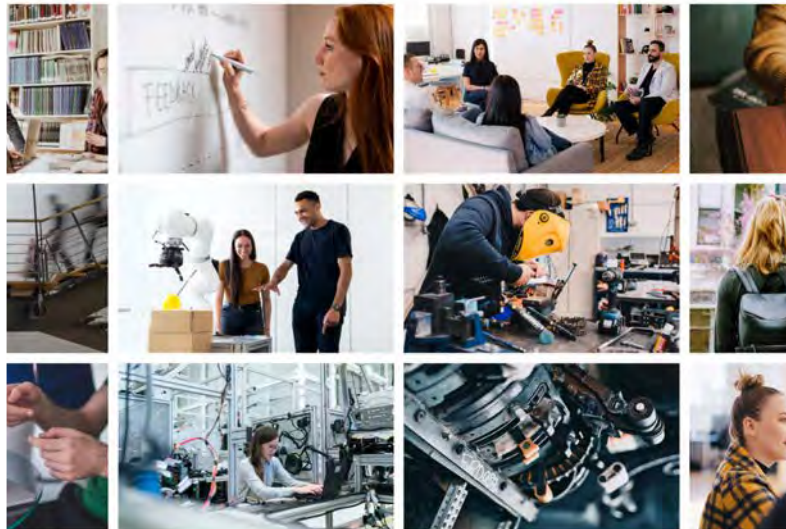
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aphy Style



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Virtual conference

 TALENT JOURNEY

## *Chapter 4*

**All of this is possible  
because of the team  
we've come together.**











# Thank you!

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