



EIT Manufacturing



Factory 4.0 Expo Conference

Monika Primožic, Education Developer CLC East



Co-funded by the
European Union

About Monika Primozic



2010 – 2012

Physical Education Teacher Assistant at Khartoum International Community School & Special Needs Teacher Assistant at Khartoum American School, Khartoum, Sudan



World Food Programme

2014 – 2020

Programme Officer, Consultant Programme Humanitarian and Development Division (PRO), Rome, Italy



Co-funded by the European Union



2021

Education Developer EIT Manufacturing CLC East, Vienna, Austria

EIT Manufacturing (EITM)

Global Manufacturing Innovation led by Europe

- 1) EIT KICs* operational for +10 years
- 2) EITM operational since 2020
- 3) EU-funded (~400 Mio.) & supported by partners
- 4) Industrial and academic collaboration at EU-level
- 5) Integrating the Knowledge Triangle; Innovation, Education, Business Creation
- 6) EITM operates through 5 CLCs**

<https://eitmanufacturing.eu/>



EIT Manufacturing – Shaping, Fostering, Connecting

We shape the future of European Manufacturing

We foster along our Knowledge Triangle

- Innovation from prototype to marketable product
- Education and training in all pillars of the education system
- Business Creation from the idea to a sustainable business

We connect

- Science with industry
- Start-ups with investors
- Solution providers with their customers



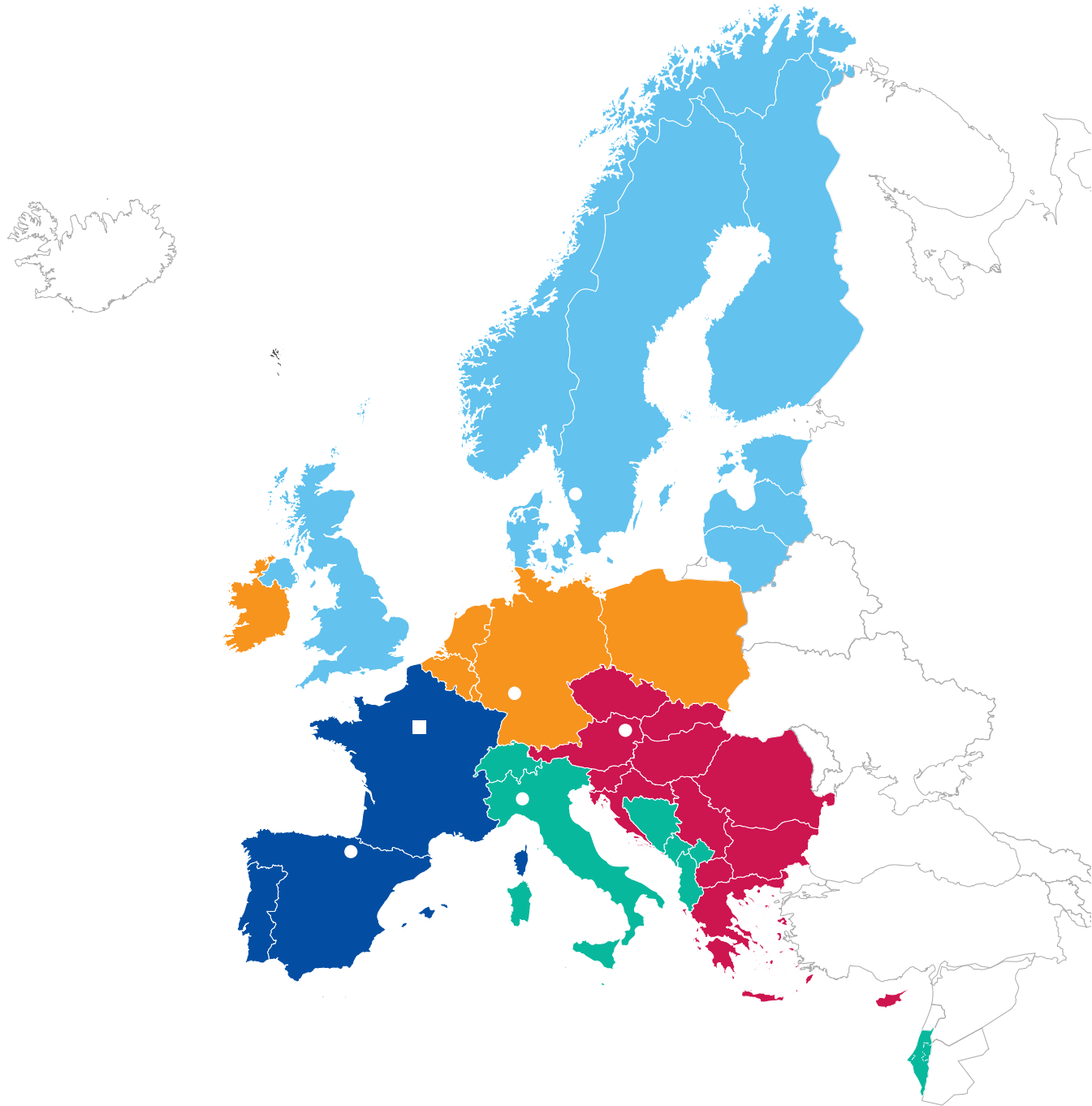
Pan-European Approach

Legal Entity **EIT Manufacturing ASBL**
Non-profit Association established
under French law

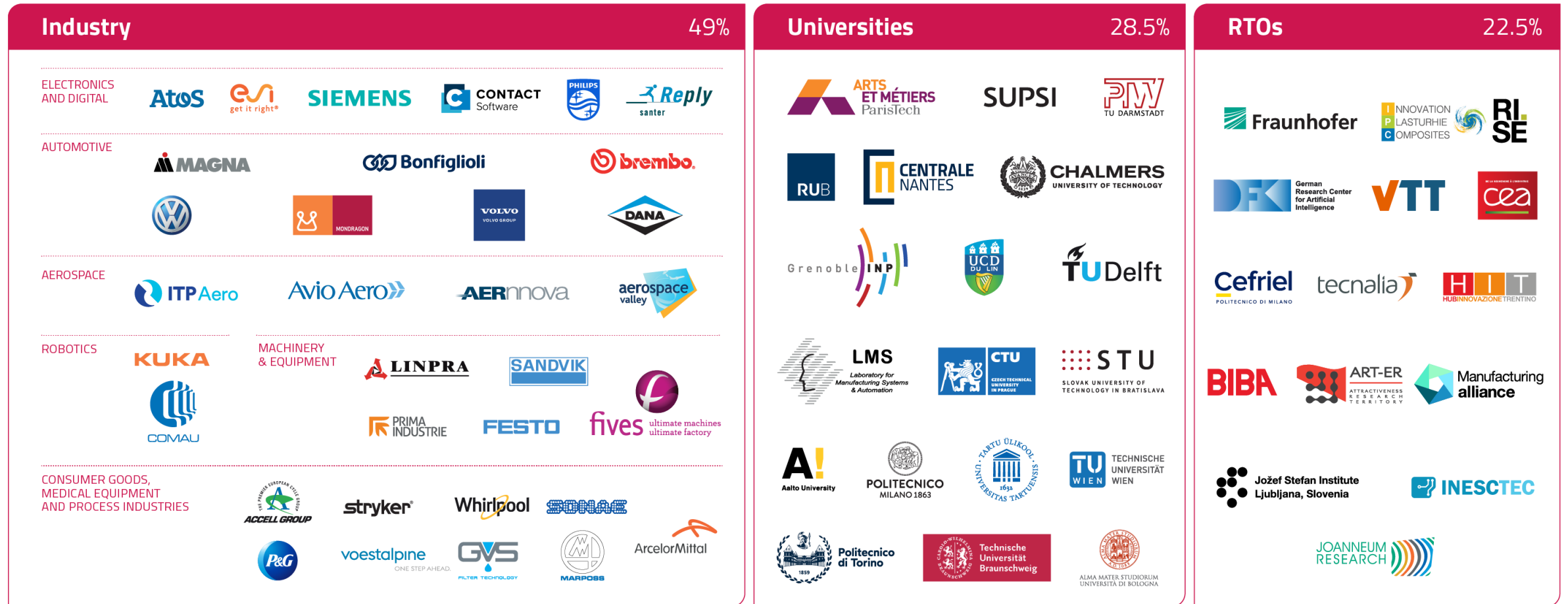
Headquarters **Paris, France**

5 Co-location Centers (CLCs)

- **San Sebastian, Spain**
- **Gothenburg, Sweden**
- **Darmstadt, Germany**
- **Milan, Italy**
- **Vienna, Austria**



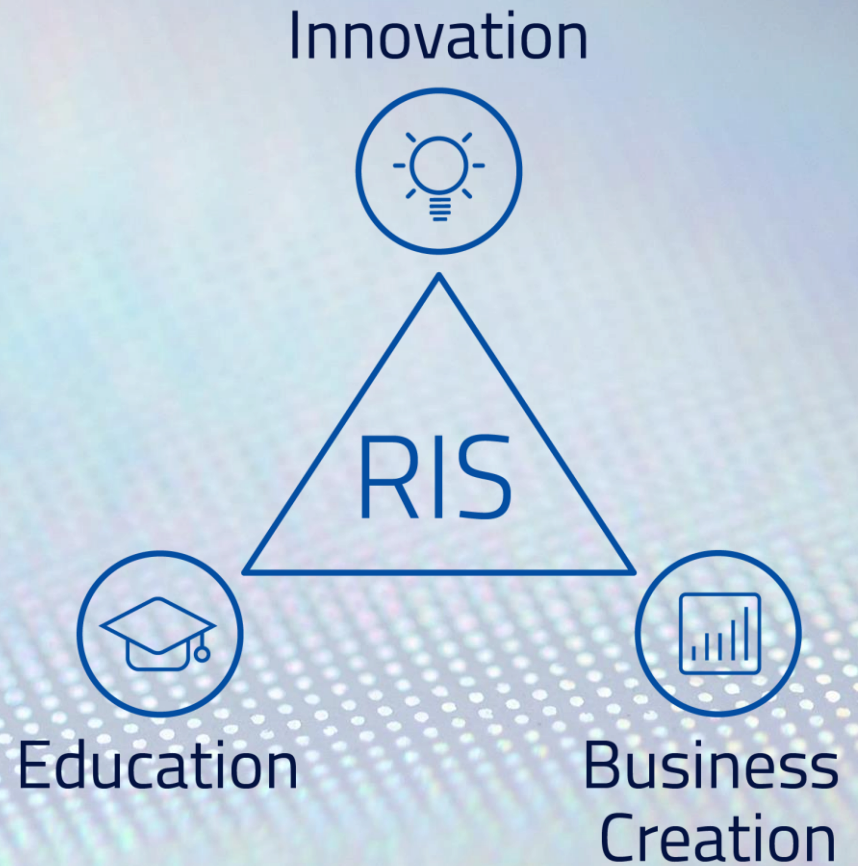
Powerful Partnership: 67 partners from 18 countries



As of April 2021

The strength of EIT Manufacturing

To ensure that innovations reach the market, industry has the right talent and entrepreneurs can thrive, EIT Manufacturing connects and integrates the areas of education, innovation and business creation and the Regional Innovation Scheme (RIS).



Innovation

Bringing new technologies to the market by putting in place tools, processes to lead the launch, development of new products, services, processes and integrated solutions.



Education

Programs, courses and digital platforms aiming at training and upskilling future and current industrial workforce to meet the future market needs.



Regional Innovation Scheme (RIS)

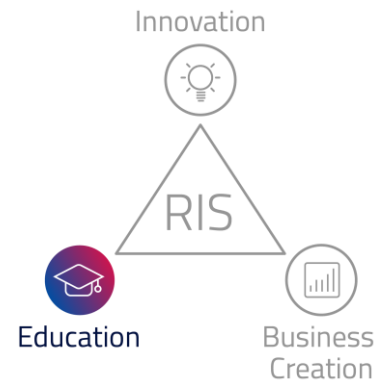
Boosting innovation capability of modest and moderate innovation countries and regions in Europe.



Business Creation

Creation, acceleration and transformation of high-growth companies.





Education: Connecting people with competences

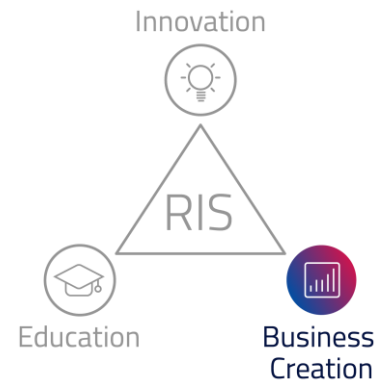
Empowering Europe with people that are capable and inspired to shape the future of manufacturing.

V - Machina



- V-Machina provides VR-based simulations for making the interaction with complex and dangerous machinery easy and safe
- Partners: SUPSI, Light and Shadows, CEA, Festo and RISE
- Unique selling point: LEARNING4ALL, the ACCESS4ALL, and the FEELING4ALL paradigms: virtual reality simulation with full inclusion and full emotions into human machine interaction, providing an unprecedented experience to everybody
- GF Machining Solutions Agie Charmilles and TTB Engineering (two important industrial machine manufacturers) have stated their high interest in the VME concept for collaborative training, remote assistance, and product demonstrations

EIT SUCCESS STORY




Business Creation

Our vision is to empower high-growth, profitable and socially impactful companies. We have engaged with 200+ startups, scaleups and SMEs and actively supported 45+ companies.

Value to Industrial Partners


Solution: 3D pre-collision sensor for demanding environments

Examples of use cases – AGVs & cobots



AGVs


Cobots



AGVs in outdoor areas of warehouses or container ports (etc.)

Fully weather/outdoor-proof


- ✓ Radar not affected by rain, snow, dirt, bad lighting, heat...
- ✓ Reliable detection of objects no matter their height (3D sensor)



Complex, varying AGV settings e. g. with human interaction

Safe human recognition


- ✓ Human recognition for added safety (100% privacy-friendly)
- ✓ Reliable 3D object detection in fast changing environments



Cool warehouses or other harsh AGV environments

For extreme conditions

- ✓ Reliable in extreme temperatures, ice, fog, darkness...
- ✓ Sensor with no moving parts – low maintenance needs

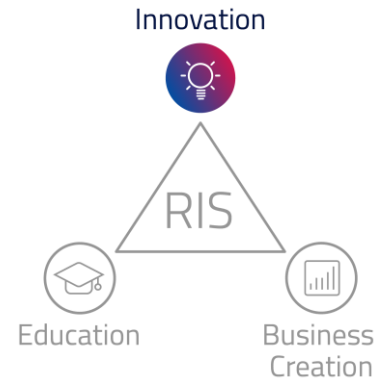


Complex production environments with human interaction

3D collision avoidance

- ✓ Human recognition behind objects & when not-moving
- ✓ Very reliable & precise with multiple sensors on all axes

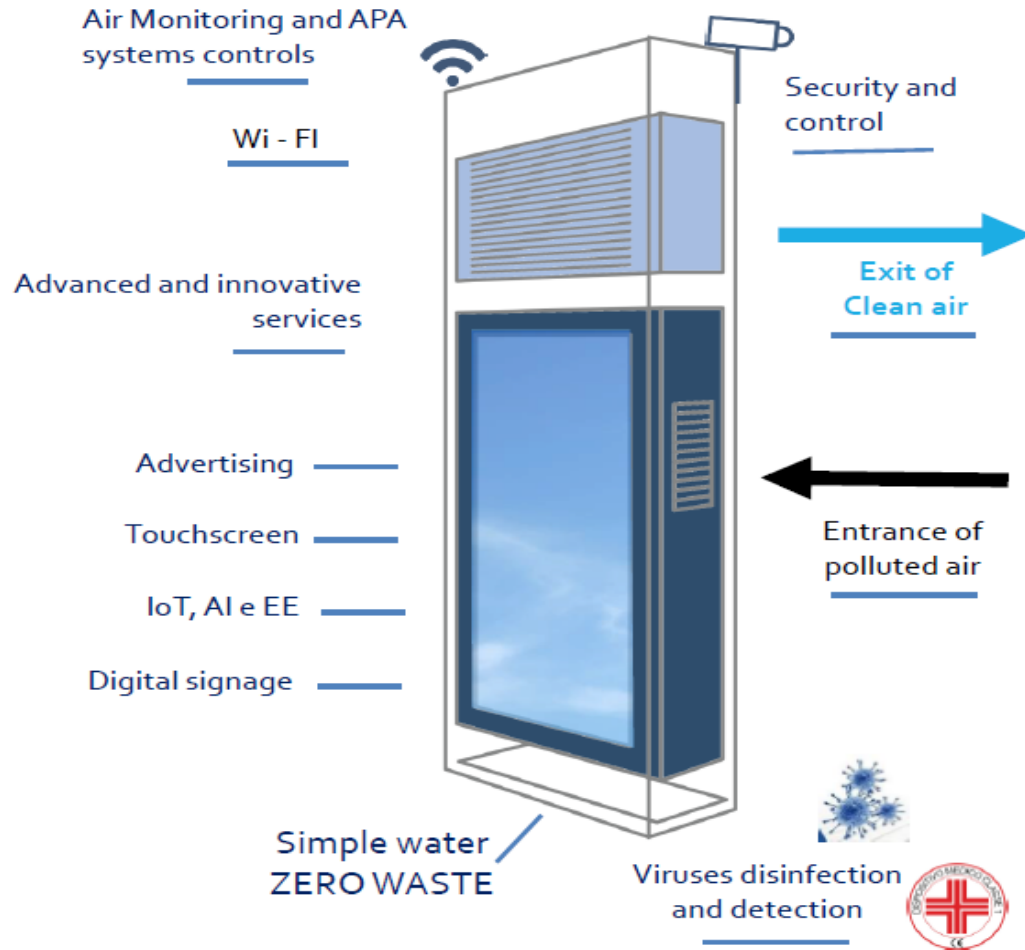
+ Faster production processes **+ Reliable avoidance of downtime**



Innovation: Creating value and impact

Supporting European manufacturing community of companies & tech organisations to industrialise innovative projects.

Air Purification Unit - PURE



Innovation

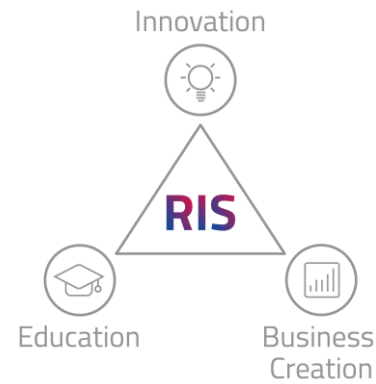
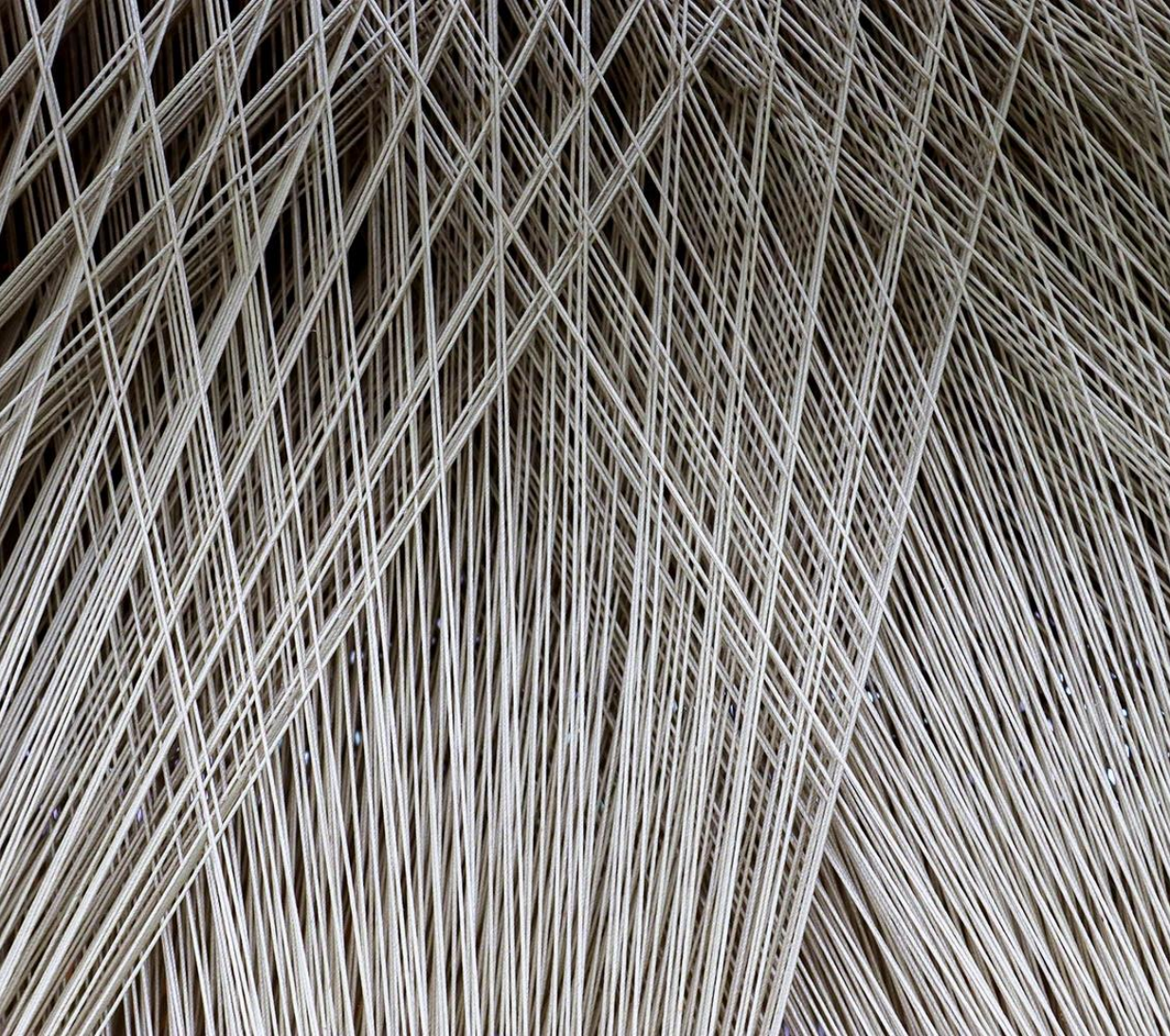
- Air Purification Unit for Manufacturing Environment - PURE

Solution

- Water-based air purifier
- No filters
- Abates organic and chemical pollutants

Benefits

- Improve air quality
- Monitor and keep track of air quality, releasing alerts in case of outlier values
- Reduced maintenance (no filter) compared to existing solutions



RIS: Bridging strong connections

EIT Regional Innovation Scheme (RIS) contributes to boosting innovation in EIT RIS countries by strengthening links between key innovation actors.



Join us where the conversations happen

Social network and open innovation platform for the pan-European manufacturing community with 450+ members and counting!

Shortcut to the relevant **people, tools** and **ideas**:

- Online and secure networking and meeting place
- One-stop shop for EITM news & activities
- Latest Factory 4.0 use cases, insights and solutions at your fingertips + more!



*Request to join AGORA now
agora-eitmanufacturing.eu*



A collaborative consultation process on AGORA to collectively define possible **thematics for 2023 Call for Proposals**

Join **now** for a **unique opportunity** to:

- Make the voice of your organisation heard
- Expand your network and matchmake
- Inspire and be inspired to solve industry priorities and co-create future focus areas

EIT Manufacturing

@WMW2021
@WMF 2021

18, 19 & 20
Oct 2021

Register
Now!



18 Oct

13.30 -17.30 **BoostUp!**
**BRIDGE GRAND FINAL &
AGORA**

The final milestone of a journey to build “bridges” for the technologies of startups to be implemented in addressing corporate industrial challenges.

19 Oct

9.30-2.55 **Human Drive 4
Future Manufacturing,
across Europe & beyond**
European Policy makers,
institutions, manufacturers,
researchers & trainers
sharing the vision for the
future of manufacturing.

19 Oct

15:30-17:30
SMEs: The Way Forward
Guidance through the world
of financial instruments at
the regional, national, and EU
level fostering growth and
modernisation of SMEs.

20 Oct

16.15 – 16.55
**CEO Klaus Beetz in Panel
session 2: People and Policies
as Enablers for Long Term
Resilience**
Key trends on human capital
and policy development
relevant to the
manufacturing community.



- Platform with 100% manufacturing industry focus
- In line with real industry needs & experience
- Hands-on and adaptable
- <https://eitmanufacturing.eu/skillsmove/>





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