

Agenda

- News from the European Cluster Collaboration Platform
 Nina Hoppmann, Team Member, European Cluster Collaboration Platform
- 2. The concept Industry 5.0 **Sean O'Reagain**, Deputy Head of Unit, DG RTD, European Commission
- 3. Panel debate
 Diego Carballo, European Project Manager, Aerospace Valley
 Sean O'Reagain, Deputy Head of Unit, DG RTD, European Commission
 Sebastian Rynkiewicz, President, Metal Processing Cluster
 Tautvydas Pipiras, Project Manager, Lithuanian Innovation Centre
- 4. Funding opportunities

 Nina Hoppmann, Team Member, European Cluster Collaboration Platform





Housekeeping rules

Jennifer Baker, presenter

- We will use slido to launch polls. Please scan the QR code to answer.
- Please use the Zoom Q&A function to ask questions, and the chat function to comment or share links
- If you want to speak: Please raise your hand and we will give you the floor.
- Please note that the session is being recorded and that the recording will be published on the European Cluster Collaboration Platform.





NEWS FROM THE EUROPEAN CLUSTER COLLABORATION PLATFORM





Start for Eurocluster-funded projects!

After the first open calls published by the Euroclusters, **SMEs are** starting their projects for a green, digital, and resilient Europe.

European strategic initiatives of industry clusters and other economic actors such as research organisations, companies, etc. They provide financial support to SMEs for **innovation**, adoption of technologies and processes, training, and internationalisation.









Join Clusters meet Regions!

The objective of the 'Clusters meet Regions' events is to facilitate the implementation of good practices where clusters play an active role in regional economies and are **drivers for economic transition**, and to create and promote **collaborations between clusters and regional stakeholders** for the industrial development of the regions.

- Lyon, France 12-13 October 2023; registration open
- Prague, Czech Republic 23-24 October 2023; registration open
- Düsseldorf, Germany 8 November 2023; registration open
- Iași, Romania 21-23 November 2023
- Kraków, Poland 11-12 December 2023











EEN Townhall talk about Single Digital Gateway on 23 October

Enterprise Europe Network invites you to join the Townhall talk on 23 October, 10:00 – 11:00 CET

The event will focus on:

- on the 1st Implementation Report of the **Single Digital Gateway** (SDG)
- the potential of SDG for the **business support organisations and SMEs**
- enabling discussion on possible further improvements.

Register by 19 October:

https://ec.europa.eu/eusurvey/runner/EENTownHallSDGOct2023









Can't join in person?

Register as a virtual attendee & stream the event on the 'Live Now' page.





The concept Industry 5.0

Sean O'Reagain

Deputy Head of Unit, DG RTD, European Commission







Industry 5.0: People at the Heart of Business

EU Clusters Talk, 4 October 2023

Seán O'Reagain
Deputy Head of Unit, 'Industry 5.0'
Directorate General for Research and Innovation
European Commission

Digitalisation is ...

76% of executives agree that organizations need to dramatically re-engineer the experiences that bring centric manner. (Accenture)

TRANSFORMING European industry





CHANGING the role of workers

Primary target increase efficiency & productivity

This transformation is Industry 4.0

@EUScienceInnov



From shareholder to stakeholder value

NDUSTRY 5.0

human-centric, sustainable and resilient



#Industry5.0



European Commission

#ResearchImpactEU







INDUSTRY 5.0 recognises
the power of industry
to achieve societal
goals beyond jobs and
growth to become a
RESILIENT PROVIDER OF
PROSPERITY, by making
production RESPECT THE
BOUNDARIES OF OUR
PLANET and placing
the WELLBEING OF THE
INDUSTRY WORKER at the
centre of the production
process.





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Industry That Works for People

- From technology-driven to human-centric approach
- Safe and qualitative jobs, wellbeing of the worker
- Workers as **investments**, not a mere cost
- Technologies to enhance workers' capacities and foster creativity





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European Commission



Attracting the Best Talents

- **Scarce skillsets in the digital age**
- **Young people want employers** who share their values

2016 Cone Communications MILLENNIAL EMPLOYEE ENGAGEMENT STUDY THREE-QUARTERS OF MILLENNIALS WOULD TAKE A PAY CUT TO WORK FOR A SOCIALLY RESPONSIBLE COMPANY, ACCORDING TO RESEARCH FROM CONE COMMUNICATIONS

By 2025, 75% of the workforce will be millennials. 75% of millennials would take a pay-cut to work for a socially responsible company.

40% of millennials said they have taken one job offer over another because of the company's sustainability.

Nearly half of Generation-Z says they would prioritize a job offer that gives them mobility, freedom, and flexibility.

World Economic Forum: creativity #3 most important skill in 2020, after critical thinking and problem-solving. 50% of all employees will need

reskilling by 2025, as adoption of technology increases LinkedIn: creativity is #1 top

skill companies need. #Research

The Deloitte Global Millennial Survey 2020 Millennials and Gen Zs hold the key to creating a "better normal"

Deloitte research reveals "resilient generations." In the face of unprecedented health and economic disruption caused by the COVID-19 pandemic, millennials and Gen Zs express resolve and a vision to build a better future.









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Sustainable Industrial Production

- resource efficiency = doing "better with less"
- adopt full product life-cycle perspective
- improve environmental outcome
- help reach Sustainable Development Goals (SDGs)

"Industry, Innovation and Infrastructure" (#9) and

"Responsible Consumption and Production" (#12)

Industry is responsible for 15 % of the EU's emissions.

Between 1990 and 2019, the EU industry reduced its CO2 emissions by 40% (compared to 25% overall reduction).

Between 1990 and 2016, the energy efficiency of industry in the EU improved by 38%, or 1.8% per year.



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INDUSTRY 5.0





Resilient Industry

- Response to geopolitical and climate challenges
- Flexible and adaptable technologies
- Appropriate skillsets
- Revisiting supply chains
- Societal role of industry





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Industry 5.0: Policy Role

Concrete actions are needed, in a wide range of policies, including:

- environment: industrial waste prevention, secondary materials markets, ...
- education: develop STEM skills, women's engagement, entrepreneurial skills, ...
- employment: evolving skills needs & employability, labour market transformation, ...
- **social:** social security, inclusiveness, ...
- regional: supporting European regions facing major transitions, ...
- taxation: tax policies for industry promoting green, human-centric industry...
- technology: R&D for human-centric technologies, ...



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INDUSTRY 5.0





Industry 5.0 Round-Table with Industry Leaders (April 2022)

- Industry 5.0 future-proofs industry and innovation ecosystems
- Industry 5.0 facilitates cross-sectoral cooperation to enhance resilience of value chains
- Industry 5.0-driven companies lever digitalisation to fulfil purpose
- Appropriate framework conditions essential: directionality, coherence and appropriate policy-level incentives



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INDUSTRY 5.0 human-centric, sustainable and resilient





Industry 5.0: Happening Now

- Momenta VC Industry 5.0 Fund
- European Institute of Technology Manufacturing Industry 5.0 Flagships
- Dedicated Industry 5.0 Modules in University Courses
- First-Ever Industry 5.0 Award





Industry 5.0: Accelerating Adoption

- Community of Practice on Industry 5.0
- Industry 5.0 Regenerative Business Compass
- Development of ten Demonstration Pilot Plants on Human-Centricity
- Industry 5.0 Case Studies: Drivers and Factors Supporting/Hindering Implementation

Industry 5.0 Award – Second Edition



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https://ec.europa.eu/info/research-and-innovation/research-area/industrial-research-and-innovation/industry-50_en

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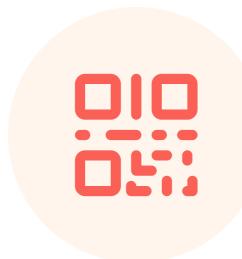


BEFORE WE GET STARTED...





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Join at slido.com #Industry50

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In your organisation, are you working on aspects of Industry 5.0?

Panel debate

Diego Carballo, European Project Manager, Aerospace Valley

Sean O'Reagain, Deputy Head of Unit, DG RTD, European Commission

Sebastian Rynkiewicz, President, Metal Processing Cluster

Tautvydas Pipiras, Project Manager, Lithuanian Innovation Centre





slido



How is the concept "Industry 5.0" perceived by industry?

slido



What is your takeaway from this EU Clusters Talk?

FUNDING OPPORTUNITIES





Assessing and strengthening the complementarity between new technologies and human skills

- Projects should contribute to
 - Deepened our **understanding on the potential and impact** of new technologies such as artificial intelligence technologies and robotics to substitute or complement **human skills** and in performing job tasks.
 - Development and deployment of technologies that complement and enhance human skills, and development of the corresponding skills in the workforce.
- Deadline: 7 February 2024
- HORIZON-RIA HORIZON Research and Innovation Actions Topic ID: HORIZON-CL2-2024-TRANSFORMATIONS-01-11

#EUClustersTalks

Published on <u>Funding & Tenders Portal</u>



Beyond the horizon: A human-friendly deployment of artificial intelligence and related technologies

- Projects should contribute to
 - Understanding and awareness raising about **successful existing deployment** of AI and the impact they have on European economy and society, providing a reality check of capabilities/benefits, but also limitations of current AI solutions, and how the latter are currently addressed.
 - On the basis of lessons from successful deployment, analysis of the **implementation of the ethics** principles for trustworthy AI.
 - Structurally enhanced capacities to foresee, evaluate and manage the future and longer term
 opportunities and challenges associated with artificial intelligence and related technologies.
 - Well founded and prioritised recommendations for European policy on R&I and in other key areas
- Deadline: 7 February 2024
- HORIZON-RIA HORIZON Research and Innovation Actions Topic ID: HORIZON-CL2-2024-TRANSFORMATIONS-01-06
- Published on <u>Funding & Tenders Portal</u>



Collaborative intelligence – combining the best of machine and human (Al Data and Robotics Partnership)

- Projects should contribute to
 - Demonstrate the value of human-machine collaboration and interaction by improved effectiveness, intuitiveness, efficiency, completeness, limits of knowledge indication and other objective or quantifiable subjective measures.
 - Demonstrate how collaborative decision-making improves over human decision-making and that
 the collaborative decisions cover all stages of reasoning (that they are based on an improved
 coverage of data and knowledge sources, on an improved analytic ability to reason from input to
 output, and on a well-communicated decision).
- Deadline: 19 March 2024
- HORIZON-RIA HORIZON Research and Innovation Actions Topic ID: HORIZON-CL4-2024-HUMAN-01-07
- Published on <u>Funding & Tenders Portal</u>



Opportunities for SMEs: Calls from Euroclusters



- DESIRE: Innovation and internationalisation of e-Health solutions; deadline 13 November 2023
- <u>E-Boost:</u> Five calls to identify product innovations to reduce dependency on critical inputs and technologies in the E- BOOST value chains, to introduce new-to-firm products or services, and to engage actors from regions with different levels of economic development; targets are SMEs from the **mobility** ecosystem
- EPICENTRE: Support via mentoring, coaching and training for SMEs from Digital and Fintech to Health and Agri-food sectors; deadline 5 December 2023.
- <u>EuroBoosTEX:</u> Grant for **textile** SMEs to innovate through technologies and **adapt business processes** to enable the green and digital transition; deadline 8 November 2023
- <u>FRIEND CCI</u>: Call for **providers** offering solutions in **digitalisation**, **greening**, **and internationalisation** to collaborate with **Creative and Cultural** SMEs for the realization of funded projects; deadline 1 August 2025
- <u>GEMSTONE:</u> Financial support for **manufacturing, technology and solution providers SMEs**, and in particular industrial equipment and tool providers, for implementation of a new green technology, service, product or business production process in a real operational environment; deadline 31 October 2023
- <u>GEMSTONE:</u> Financial support for **training** related to **Green Manufacturing**; deadline 31 December 2024
- INGENIOUS: **Training** grants to help SMEs improve their digital skills, green transition, resilience preparedness and reskilling and upskilling of the workforce; deadline 14 February 2025
- <u>METASTARS</u>; Call for **innovation services** for green technology development, digitalisation, upskilling and reskilling, internationalisation, and information security systems for SMEs from the **aeronautics**, **space**, **defence and ICT sectors**; deadline 31 December 2023
- <u>POLREC</u>: Innovation open call aims to support SMEs by funding their **polymer recycling** projects; deadline 31 October 2023
- RESIST: Networking and marketing FSTP for SMEs from the Automotive Mobility Transport ecosystem; deadline 20 December 2024
- RESIST: Internationalisation FSTP for activities in target markets; deadline 20 December 2024
- RESIST: Coaching and mentoring for assessment and feasibility services; deadline 1 November 2024
- <u>SUSTAIN:</u> Financial support to SMEs for developing new products, services or methods addressing the **smart building construction** challenges; deadline 1 November 2023
- All calls here: https://clustercollaboration.eu/open-calls





Come to our C2Lab!

SMEs, clusters, research organisations, social and public entities are invited to join **an interactive workshop** to meet, network, exchange ideas, and initiative new project proposals. Guided by experts on project creation and management, you have the possibility to forge **new alliances and project consortia** for the topic of your interest. You can either join with a concrete project idea or offer your skills and knowledge in new areas.

25-26 October 2023: Ljubljana, Slovenia

14-15 November 2023: Vilnius, Lithuania











Register for the next Talks

11 October Takeaways from EU Industry Days

18 October Cybersecurity

25 October Industrial Alliances





Register on the European Cluster Collaboration Platform!

https://clustercollaboration.eu/

Strengthening the European economy through collaboration



The European online hub for industry clusters

Strengthening the European economy through collaboration





Find partners per country, region, sector or industrial ecosystem





