



European Union side events

5 December 2023

Empowering a Human-Centric Industry for the Twin Transitions

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From shareholder
to stakeholder value

INDUSTRY 5.0

human-centric, sustainable
and resilient

Liviu Stirbat

Cabinet Commissioner Jourova
European Commission

@EUScienceInnov

#Industry5.0

#ResearchImpactEU



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Not a revolution

Industry 5.0 ...



... promotes talents, diversity and empowerment



... is agile and resilient with flexible and adaptable technologies



... leads action on sustainability and respects planetary boundaries

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Why Industry 5.0?



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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 Past Initiatives

- **Industry 5.0 Award:** recognising the contribution of EU-funded projects whose results make European industry more resilient, sustainable, and human-centric
 - ✓ Winner: RAMP-PV (upcycling of high quality materials from PV waste)
- **ESIR expert group report** and dialogue with industry leaders in Spring 2022
 - ✓ 'Industry 5.0: A Transformative Vision for Europe - Governing Systemic Transformations towards a Sustainable Industry'
 - ✓ Roundtable with industry – and report
- **Venture Capital fund** (Momenta) on Industry 5.0



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Industry 5.0: From Awareness-Raising to Implementation

Helping stakeholders to accelerate the Industry 5.0 implementation:

- **Industry 5.0 Community of Practice**
 - ✓ pilot phase launched on 16 November 2023
 - ✓ over 100 members (including representatives of EU clusters e.g. European Cluster Alliance, The Silicon Alps Electronic Cluster, West Pomeranian ICT cluster)
 - ✓ share good practices, establish partnerships and help co-create practical I5.0 tools
- **ERA Human-centric Technology Roadmap** – to capture the evidence base and state-of-the-art in industrial practices and potential of industry based on human-centricity



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