

Made in Europe Partnership

presentation by EFFRA



The 2030 vision of the manufacturing industry

“Ensuring competitiveness & sustainability and supporting resilient and adaptive manufacturing ecosystems, able to cope with external disturbances and rising environmental and social requirements”

“Europe to be the leading ‘solution provider’ in production technology, digitalisation, resource efficiency and circular economy implementation.”

Activities and investments need to focus on:

- Resilience of European Industry
- Sovereignty of European Industry
- Environmental sustainability of Europe Industry



Partnership Story line





MIE General objectives

- Ensuring European Leadership & manufacturing excellence; generating new products and markets
- Achieving Circular & climate-neutral manufacturing
- Mastering the digital transformation of manufacturing industry
- Creating attractive added-value manufacturing jobs

MIE Specific Objectives

- Excellent, responsive and smart factories & supply chains
- Circular products & Climate-neutral manufacturing
- New integrated business, product-service and production approaches; new use models
- Human-centred and human-driven manufacturing innovation

- Advance technologies for green, flexible and resilient manufacturing in all sectors
- Build flexible and resilient supply chains
- Ensure uptake of digital technologies for manufacturing
- Support a just, green and digital transition of a wide range of manufacturing sector in various EU regions
- Reduction in use of resources, materials, energy, water, waste
- Reduction of carbon footprint of the whole supply chain
- Developing collaborative manufacturing, business models and approaches close to the customers
- Ensure Human & technology complementarity and excellence in manufacturing
- Support initiatives that empower workforce with new skills and contribute to the development of training programs
- Address socio-economical challenges and strengthen societal engagement
- Contribute to standardization



First projects launched in 2022 within Made in Europe

CALL: TWIN-TRANSITION-01-01: AI enhanced robotics systems for smart manufacturing (IA)

- **AI-PRISM: “AI Powered human-centred Robot Interactions for Smart Manufacturing”**
- **Fluently: “Fluently - the essence of human-robot interaction”**
- **CONVERGING: “Social industrial collaborative environments integrating AI, Big Data and Robotics for smart manufacturing”**



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CALL: TWIN-TRANSITION-01-02: Zero-defect manufacturing towards zero-waste (IA)

- **TURBO: “Towards tURbine Blade production with zero waste”**
- **ENGINE: “Zero-defect manufacturing for green transition in Europe”**
- **FLASH-COMP: “Flawless and sustainable production of composite parts through a human centred digital approach”**
- **ZDZW: “Non-Destructive Inspection Services for Digitally Enhanced Zero Waste Manufacturing”**
- **OPENZDM: “OPEN PLATFORM FOR REALIZING ZERO DEFECTS IN CYBER PHYSICAL MANUFACTURING”**



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CALL: TWIN-TRANSITION-01-03: Laser-based technologies for green manufacturing (RIA)

- **METAMORPHA: “Made-to-measure micromachining with laser beams tailored in amplitude and phase”**
- **OPTIMAL: “Automated Maskless Laser Lithography Platform for First Time Right Mixed Scale Patterning”**
- **OPeraTIC: “Boosting the adoption of Ultrashort Pulsed Laser large scale structuring with an agile, dexterous and efficient manufacturing platform”**
- **InShaPe: “Green Additive Manufacturing through Innovative Beam Shaping and Process Monitoring”**



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CALL: TWIN-TRANSITION-01-05: Manufacturing technologies for bio-based materials (RIA)

- **VITAL: “InnoVatlve processing Technologies for bio-based foAmed thermopLastics”**
- **Waste2BioComp: “Converting organic waste into sustainable bio-based components”**
- **AMBIANCE: “Advanced Manufacturing of Bio-Based Products for Urban outdoor applications through Innovative characterization, digital technologies and circular approach”**
- **GREEN-LOOP: “Sustainable manufacture systems towards novel bio-based materials”**
- **NewWave: “Building a sustainable & circular economy through innovative, biobased manufacturing lines”**



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CALL: TWIN-TRANSITION-01-07: Artificial Intelligence for sustainable, agile manufacturing (IA)

- **AIDEAS: “AI Driven industrial Equipment product life cycle boosting Agility, Sustainability and resilience”**
- **Circular TwAIIn: “AI Platform for Integrated Sustainable and Circular Manufacturing”**
- **s-X-AIPI: “self-X Artificial Intelligence for European Process Industry digital transformation”**

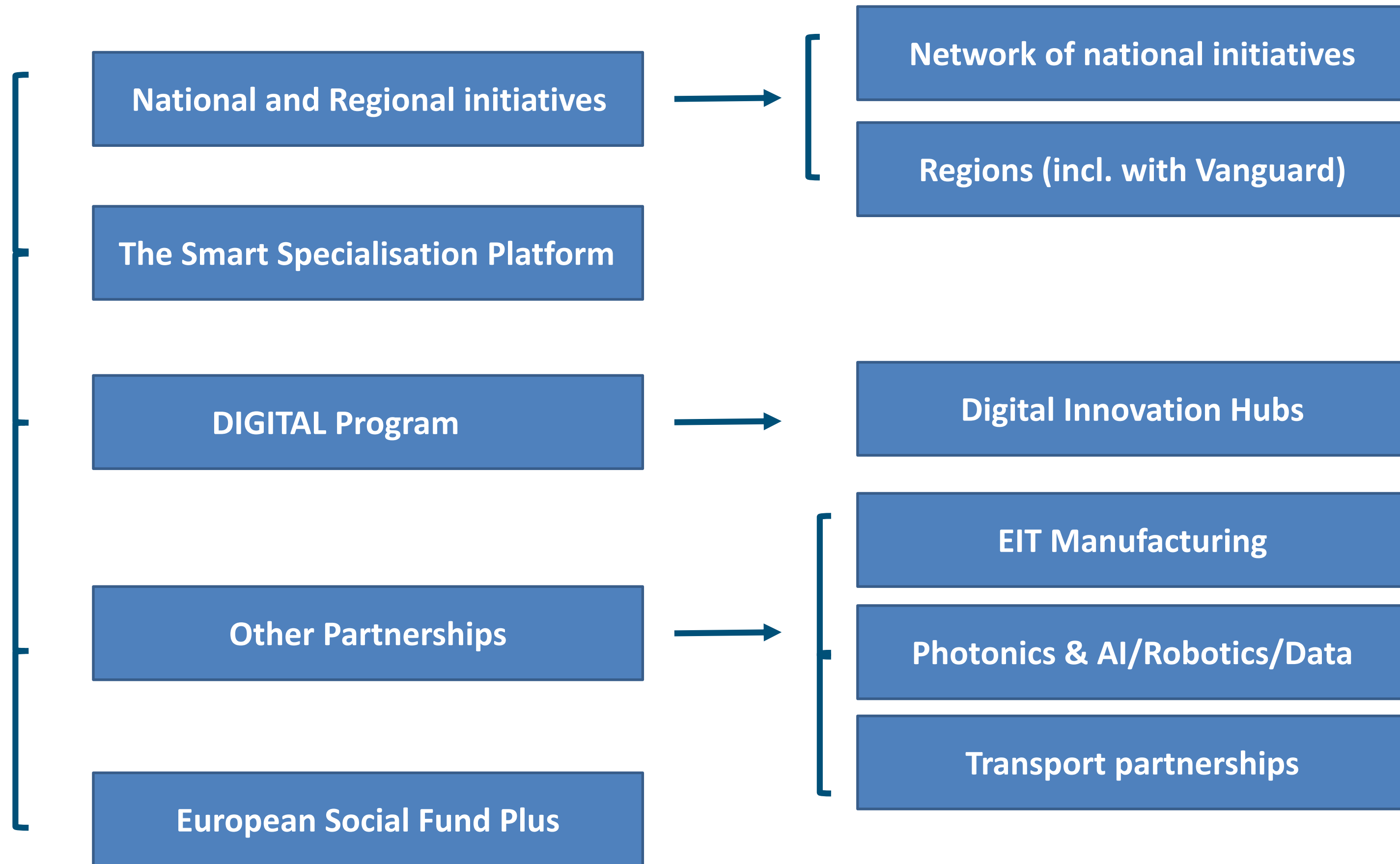


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CALL: TWIN-TRANSITION-01-08: Data-driven Distributed Industrial Environments (IA)

- **RE4DY: “European Data as a PProduct Value Ecosystems for Resilient Factory 4.0 Product and ProDuction ContinuitY and Sustainability”**
- **Zero-SWARM: “ZERO-ENABLING SMART NETWORKED CONTROL FRAMEWORK FOR AGILE CYBER PHYSICAL PRODUCTION SYSTEMS OF SYSTEMS”**
- **5G-TIMBER: “Secure 5G-Enabled Twin Transition for Europe's TIMBER Industry Sector”**

EFFRA: Cooperation with others



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