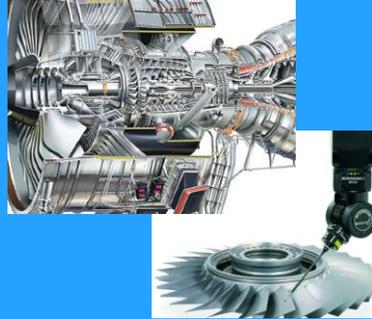


European Metrology Network on Advanced Manufacturing

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Paris, 9 January 2018



Rationale

Advanced manufacturing identified by EU as a **Key Enabling Technology (KET)**

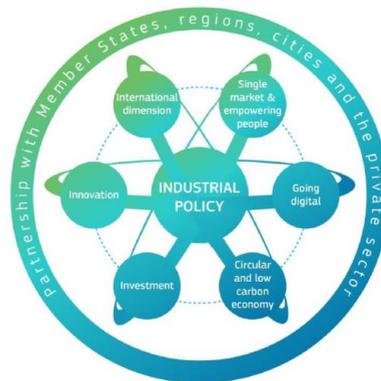
Provides **36 million direct jobs** and contributes to high standards of living

Challenges

- Increasing **productivity** gap between market leaders and laggards
- Europe's competitors investing heavily in the upgrade of their industry
- **Slow uptake of technology and digitisation**, specially by SMEs.

Key Cross-cutting Metrology challenges

- **Data collection** during manufacturing and through product life
- **Trust in data, validation and interoperability**
- Support **uptake of advanced materials, sensor technologies and digitalisation**



Activities



- **Engagement with stakeholders**
 - Development of roadmaps
 - Workshops (e.g. relevant funded JRPs)
 - Engagement with national/regional networks
- Development of an **Online Knowledge Hub** on Advanced Manufacturing (website)
- **Dissemination** of training materials and best practice guides by NMIs, JRPs and stakeholders
- **Identification of critical metrology needs** of advanced manufacturing (short, medium and long term) to **inform Euramet joint research project calls and NMIs national strategies.**
- **Identify opportunities** for development of joint infrastructure and joint research
- Development of promotional material

Actors

- **NMIs/DIs**
- **Advanced Manufacturing Industry and supply chain**
- **Academia and R&D Centres**
- **Standardisation bodies**
- **Relevant Local, National and Regional hubs** (e.g. Industry associations, innovation hubs)
- **Government** bodies

Outputs



Coordinated Research Agenda

- Holistic view of advanced manufacturing metrology needs
- Roadmap development in consultation with stakeholders through national and regional hubs
- Publication of white papers and vision papers

Online knowledge hub

- Central access point:
 - Two-way communication between NMI community and advanced manufacturing stakeholders
- Sharing Knowledge
 - Best practice guides
 - Online training materials
 - Online webinars
 - Dissemination of research results (from JRPs and national hubs)
- Providing common vision and foresight
 - White papers, roadmap, vision papers... prepared jointly with advanced manufacturing stakeholders

Impact



Coordinated Research Agenda

- Informs EU R&D investment (e.g. Euramet JRP calls)
- Focuses NMI's activities
- Reduces duplication
- Stimulates collaborative work and development of coordinated infrastructure
- Engages stakeholders

Online knowledge hub

- Improves quality and upskill of EU advanced manufacturing and supply chain
- Accelerates uptake of new technologies
- Establishes new partnerships

- Increases productivity and competitiveness of EU advanced manufacturing
- Creates jobs, wealth and improves quality of life



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FUNDED BY BEIS

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