

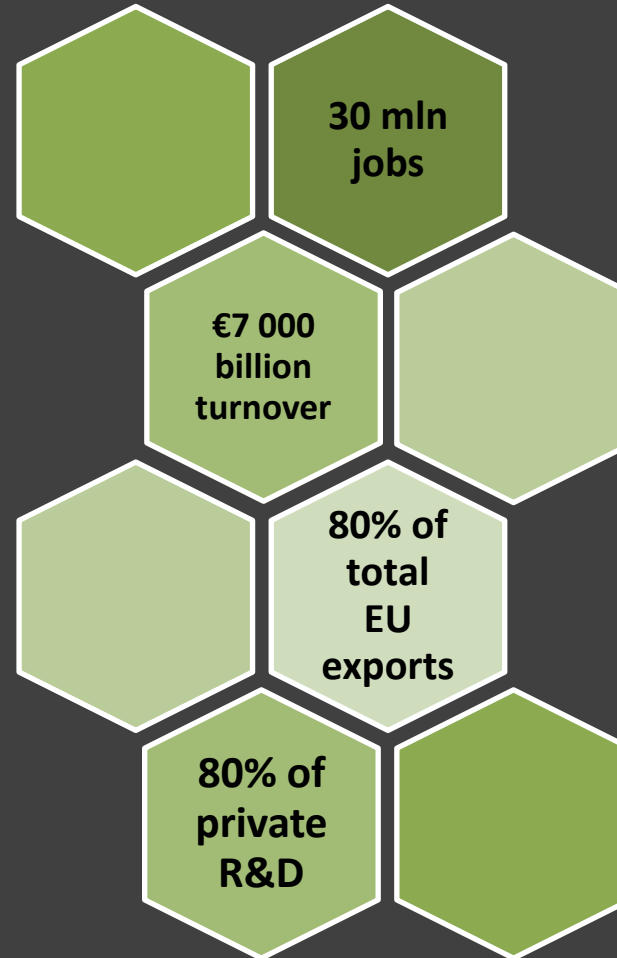
# Competitive industries for regional development: the case of advanced manufacturing



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# Why advanced manufacturing?





# Need for modernisation: examples of ADMA

1. **Sustainable manufacturing technologies**, i.e. technologies to increase manufacturing efficiency in the use of energy and materials and drastically reduce emissions (e.g. process control technologies, efficient motor systems, efficient separation technologies, novel sustainable process inputs, product lifecycle management systems)
2. **ICT-enabled intelligent manufacturing**, i.e. integrating digital technologies into production processes (e.g. smart factories).
3. **High performance manufacturing**, combining flexibility, precision and zero-defect (e.g. high precision machine tools, advanced sensors, 3D printers).



## National Initiatives in the EU

1. **Germany** follows the agenda Industry 4.0 to use the potential of cyber-physical systems ('the Internet of Things') to maintain industrial leadership.
2. **The UK** has undertaken a growth review on advanced manufacturing and launched the Advanced Manufacturing Supply Chain Initiative funding R&D and skills development.
3. **Finland's** innovation agency Tekes focuses R&D&I support in manufacturing to ICT-enabled manufacturing and sustainable manufacturing.
4. **France** has included the factory of the future and robotics among 34 plans for reindustrialisation.



# Task Force Report: 3 pillars – 16 recommendations

1

- Accelerate commercialisation of advanced manufacturing technologies (3)

2

- Remove obstacles for the demand for advanced manufacturing technologies
  - (Financial) tools to stimulate demand (3)
  - Increase awareness about process innovation and clean production technologies (2)
  - Stimulate demand via regulation, testing activities and public procurement (4)
    - Framework conditions (1)

3

- Reduce skill shortages and competence deficits (3)



## Why regions?

- **Cooperation with regions** part of the EC advanced manufacturing activities for 2014 (RIM+ events , Regional Innovation Scoreboard, RIS3 Platform, Cluster observatory)
- **Regional smart specialisation strategies and use of regional funds** can enhance industrial activity
- **Vanguard Initiative**: a bottom-up initiative to contribute to the development of European industrial policy and modernisation of industry





## What's next

**Task Force meetings  
with industry in  
2014: more thematic  
concentration**

**Work with regions: use  
of structural funds for  
the modernisation of  
industry**

**Monitoring survey:  
state of deployment  
of technologies in  
Europe**



## Links

*Advanced Manufacturing technologies:*

*[http://ec.europa.eu/enterprise/policies/innovation/policy/amt/index\\_en.htm](http://ec.europa.eu/enterprise/policies/innovation/policy/amt/index_en.htm)*

*RIM+ : <http://ec.europa.eu/enterprise/policies/innovation/policy/regional-innovation/monitor/>*

*Business Innovation Observatory:*

*[http://ec.europa.eu/enterprise/policies/innovation/policy/business-innovation-observatory/index\\_en.htm](http://ec.europa.eu/enterprise/policies/innovation/policy/business-innovation-observatory/index_en.htm)*

*European Design innovation Platform:*

*[http://ec.europa.eu/enterprise/policies/innovation/policy/design-creativity/index\\_en.htm](http://ec.europa.eu/enterprise/policies/innovation/policy/design-creativity/index_en.htm)*

*Work Place innovation: <http://ec.europa.eu/enterprise/euwin>*





# ADVANCING MANUFACTURING ADVANCING EUROPE



Advanced Manufacturing Technologies for Clean Production

Thank you for your attention!