# Che cos'è un impianto pilota: esempi europei

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#### What is the AMRC?



A world leading cluster of industry-focused manufacturing R&D centres and supporting facilities.

Developing new means, methods, tools and techniques to advance manufacturing technology.



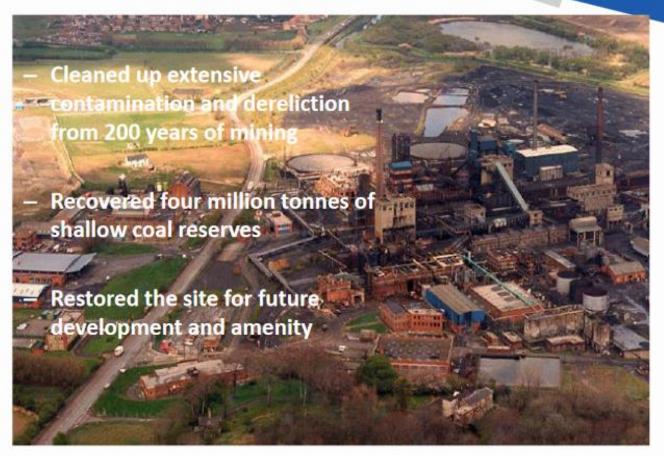






#### AMRC Campus 1984









#### AMRC Campus 2015









## The AMRC with Boeing Today



- · Research hub at heart of Advanced Manufacturing Park.
- · 400+ researchers, technicians and support staff.
- Around 80 member companies from global giants to local SMEs.
- Over £200 million investment brought to former coalfield.
- Part of Rolls-Royce & Boeing global research networks.







### Working with Businesses



- We help manufacturing businesses become more competitive through the application of new techniques, technologies and processes.
- Member companies pay an annual fee for access to shared resources and dedicated R&D.
- Other companies can pay for directed R&D or take part in collaborative projects.







# Manufacturing Research Where does the AMRC operate?



#### Five Core Research Groups:

- Process Technology Group (machining).
- Integrated Manufacturing Group (Assembly).
- Composites Centre.
- Design and Prototyping Group.
- Advanced Structural Testing Centre.

Our R&D spans the middle steps of the Manufacturing Readiness Level Ladder – taking technologies from the laboratory to the factory gate.

Phase	MRL	State of Development
Phase 3: Production Implementation	9	Full production process qualified for full range of parts and full metrics achieved
	8	Full production process qualified for full range of parts
	7	Capability and rate confirmed
Phase 2: Pre production	6	Process optimised for production rate on production equipment
	5	Basic capability demonstrated
Phase 1: Technology assessment and proving	4	Production validated in lab environment
	3	Experimental proof of concept completed
	2	Application and validity of concept validated or demonstrated
	*	Concept proposed with scientific validation







## link FACTORY 2050:

> http://efm.dept.shef.ac.uk/factory2050/



