



# EUROPEAN MANUFACTURING INNOVATION



EIT Manufacturing is supported by the EIT,  
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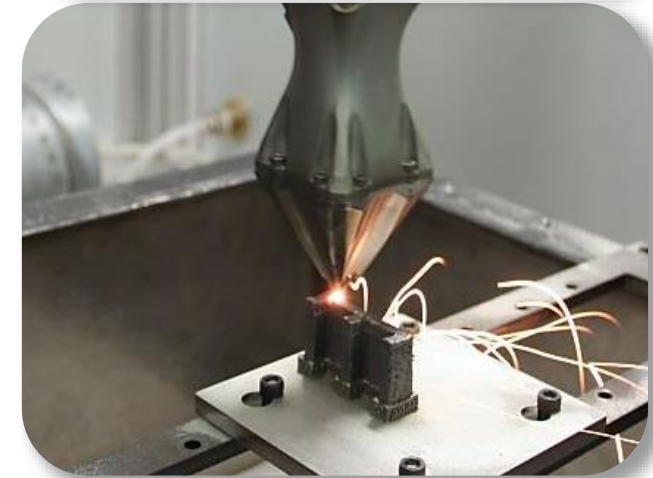
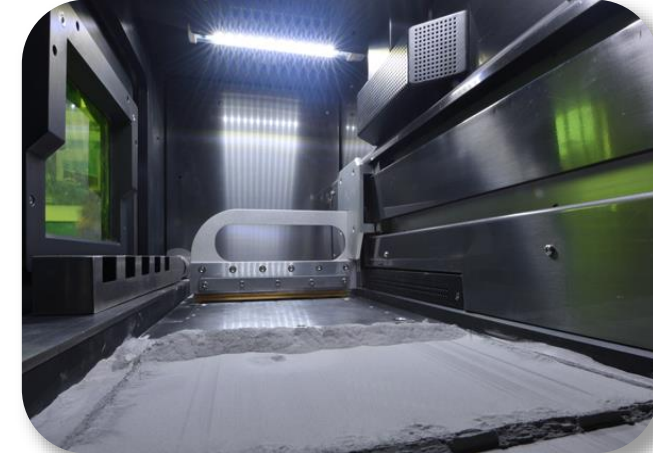
# EMPOWDER

*Creating competences for AM operators for powder material handling*

EUROPEAN  
MANUFACTURING  
INNOVATION



- The interest in **Metal Additive Manufacturing (AM)** technologies is growing over the years
- Companies that want to adopt this process often have to face **barriers in specific Skills and Competence** requested for AM
- **Safety aspect is also important** to be included in the use of metal Additive Powders
- Companies, especially **SMEs, need support in introducing competences** in AM and skill or re skill their workers





# EMPOWDER solution

## *AM knowledge*

Courses delivered  
through the EIT platform

## *A training programme*

for upskilling AM  
machine operators

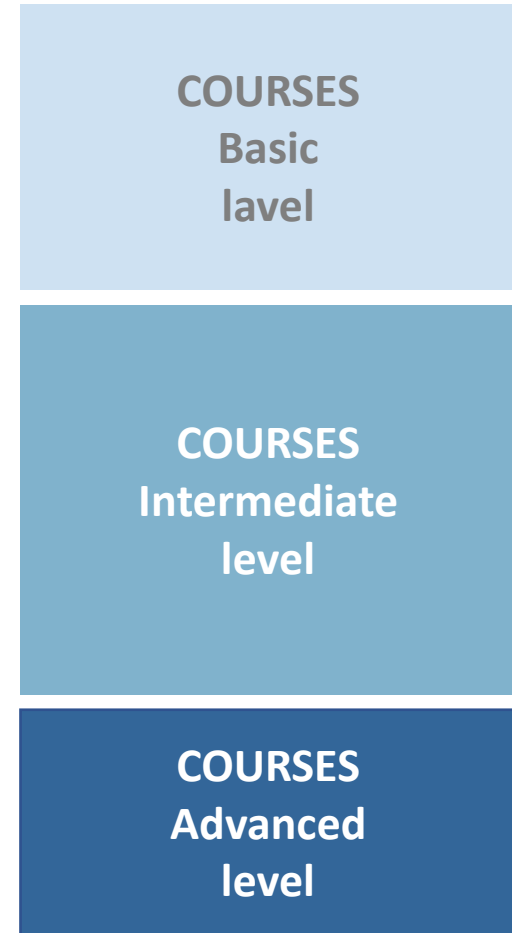
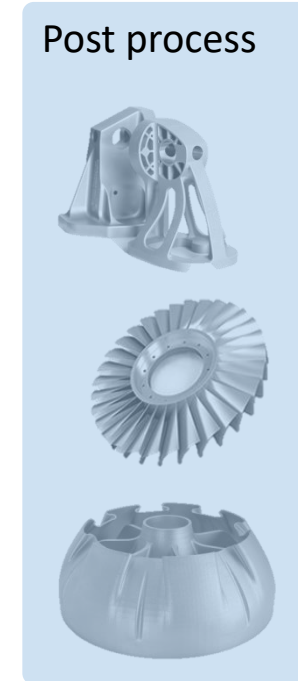
*Comprehensive and  
cost-efficient  
training  
programme*

EMPOWDER promotes courses in the powder handling and systems set up for industrial laser-based Additive Manufacturing (AM).

2 technologies (powder bed and Direct deposition)

3 levels of training ( basic, intermediate, advanced)

17 nuggets with different educational path composition



Sustainable solution for companies and SMEs with

1

## WORKFORCE

Advancing the expertise of existing technical workforce.

Create a pool of highly skilled and specialized AM operators

2

## SIMPLICITY

Make AM training simple, spherical and low-cost

3

## CATEGORISATION

Categorise the existing data and tacit knowledge to explicit training nuggets

4

## SAFETY

Increased safety with standardised and operating procedures

# Manufacturing matters!

The manufacturing industry is a global base for **prosperity** and key to Europe's **economic, social** and **environmental** sustainability. Manufacturing is a main driver of **industrial innovation, job creation** and growth for the European society



Over **2.1 million** manufacturing enterprises



**16.1%** of the share of EU-28 GDP<sup>2</sup> (2016)



**32 million** jobs (16% of the total EU working population)



Total turnover of EUR **7.11** trillion<sup>3</sup>



Approx. **13 million** jobs in the growing high-tech manufacturing industry<sup>1</sup>