





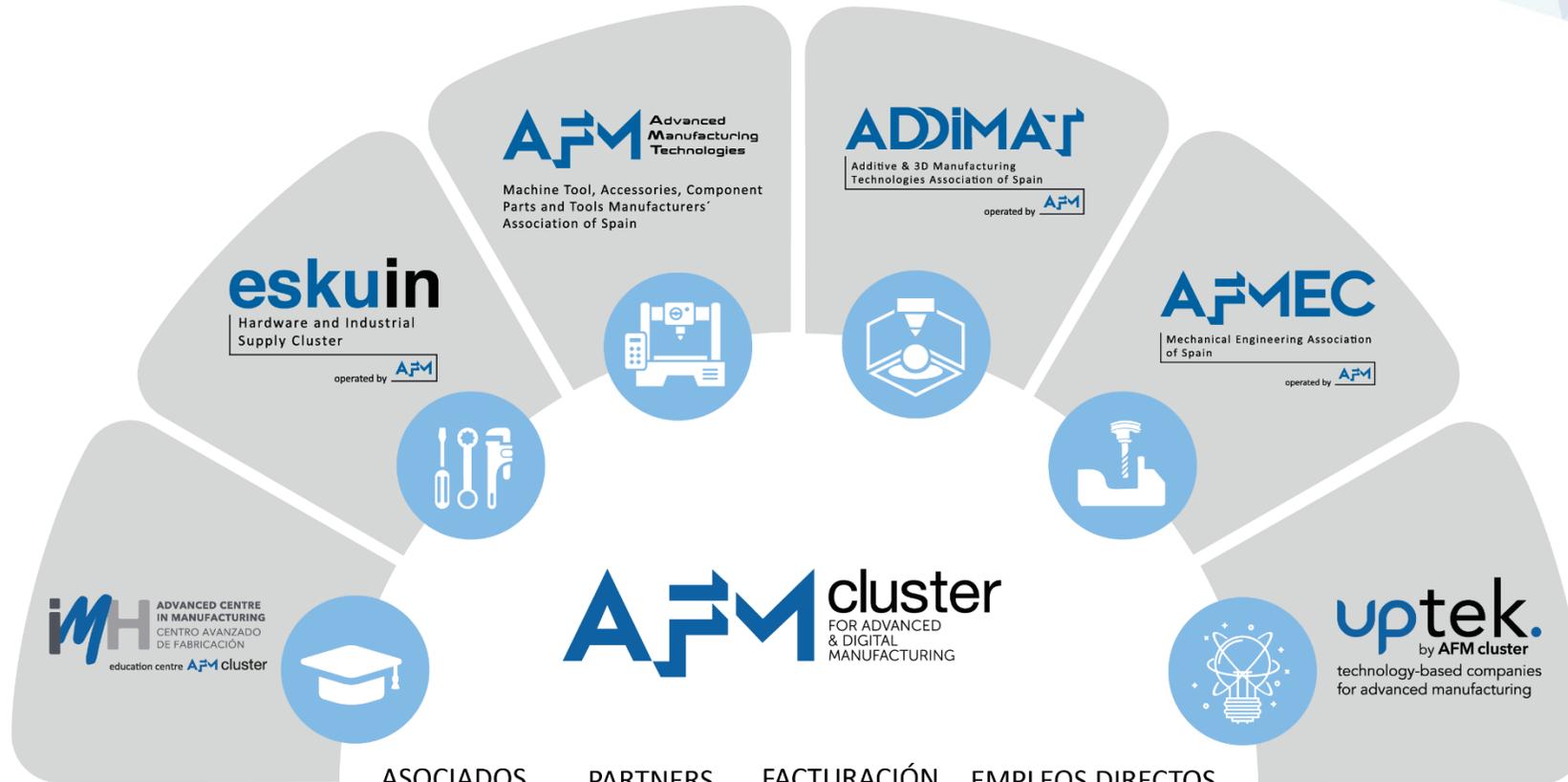
advanced and digital manufacturing campus

BOARD OF TRUSTEES

Participating Institutions



AFM CLUSTER



ASOCIADOS **+500** PARTNERS **+60** FACTURACIÓN **+3.000M€** EMPLEOS DIRECTOS **+16.500**

ABOUT IMH

- ✓ Advanced and Digital Manufacturing Campus that offers specialized training, directed to employment, flexible, giving priority to the dual model.
- ✓ Demonstration, transfer and innovation services center for SMEs
- ✓ Mission: contribute to increasing innovative capacity and business dynamism in the industrial sector, through actions that influence the development of skills of individuals and companies.
- ✓ Integrated Vocational Training Center belonging to the Basque Government.
- ✓ University School attached to the University of the Basque Country / Euskal Herriko Unibertsitatea (UPV / EHU).
- ✓ Agent of the Basque Network of Science, Technology and Innovation in the category of "Intermediate Innovation Agency".
- ✓ An integral part of AFM CLUSTER, promoter of its training

2.200 STUDENTS

+30 YEARS OF
TRAJECTORY

800 COLLABORATING
COMPANIES



INDUSTRIAL HERITAGE

ME MAKINA
ERREMINTA
MUSEOA

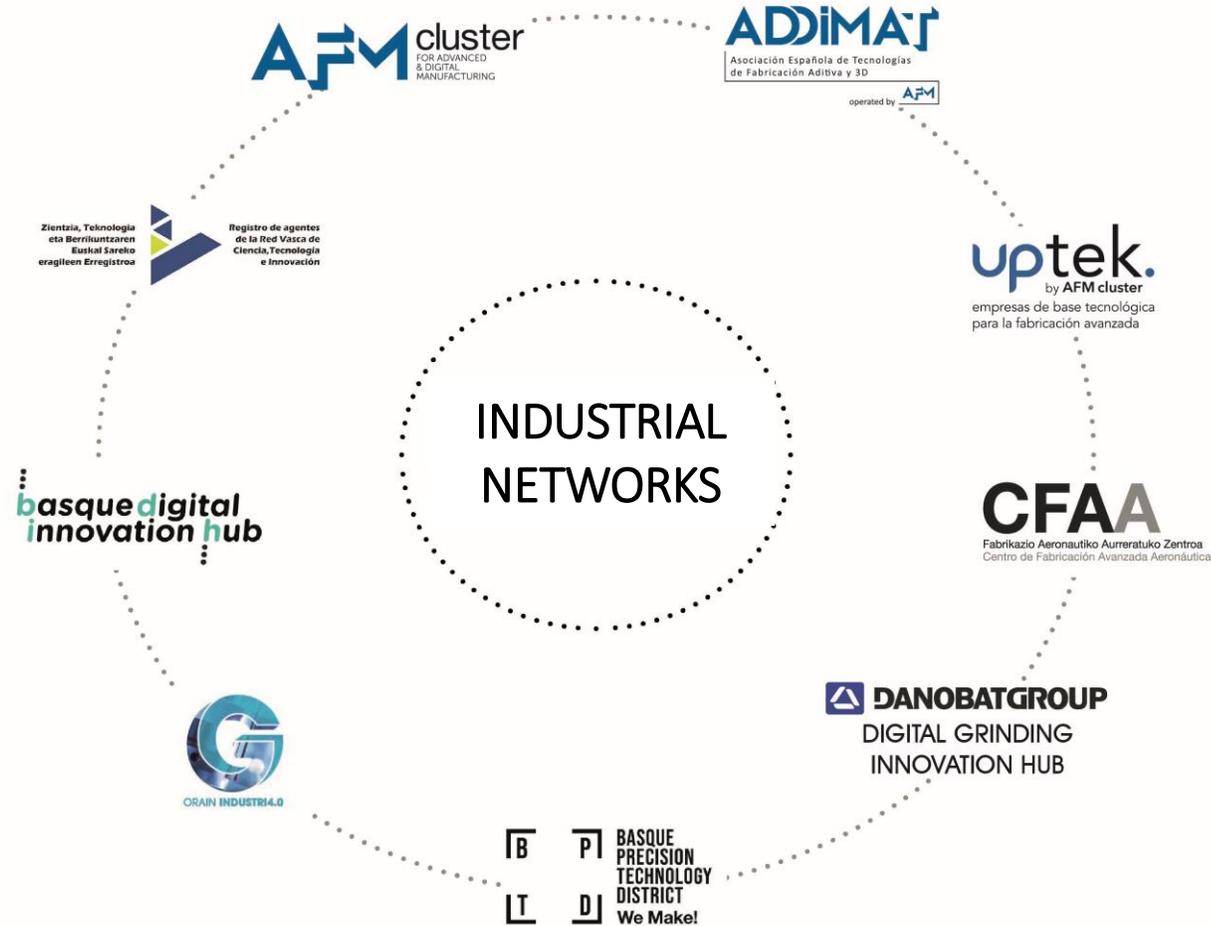




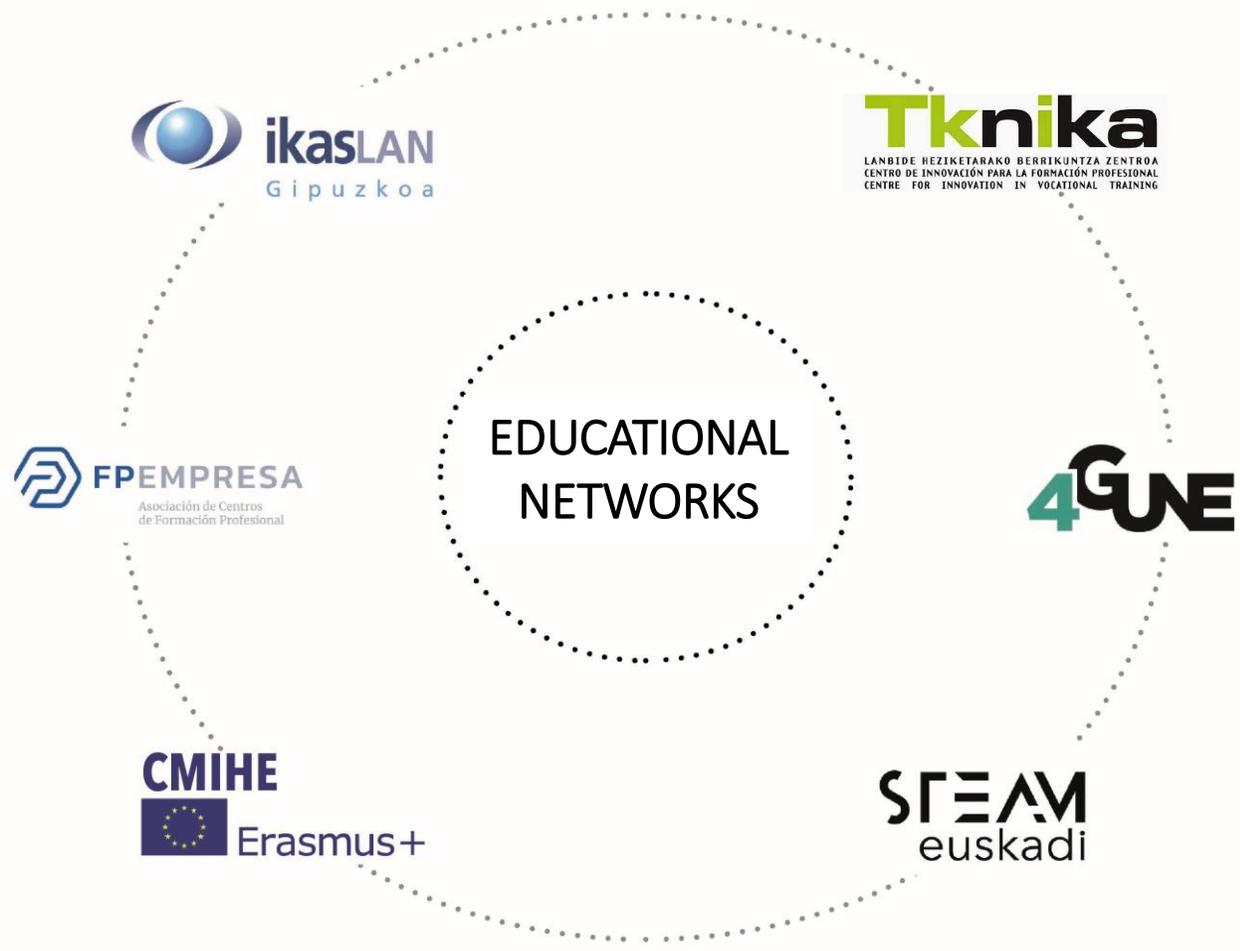
**ADVANCED AND DIGITAL
MANUFACTURING CAMPUS**
CAMPUS DE LA FABRICACIÓN
AVANZADA Y DIGITAL

AFM cluster

NETWORK



NETWORK





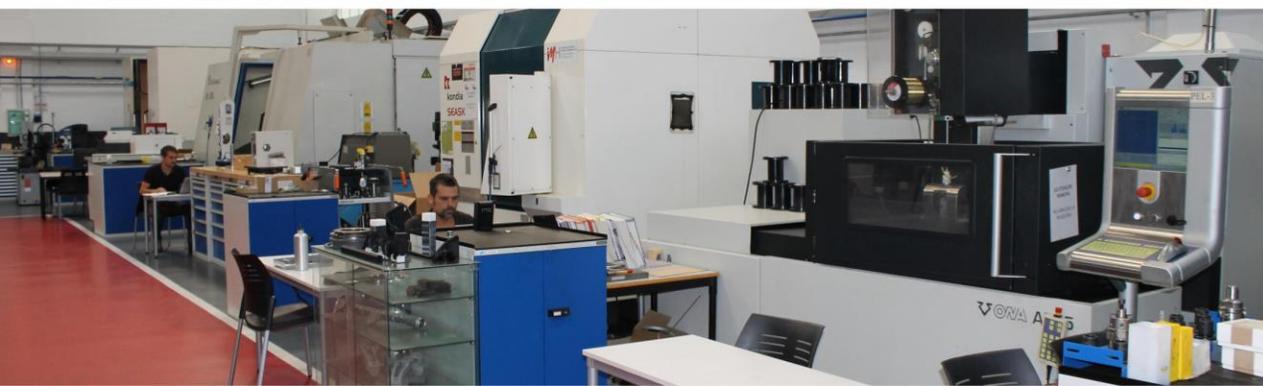
To be a benchmark training and demonstration centre in the field of Advanced Manufacturing and Industry 4.0 to accelerate the learning curve of the skills required by people and companies.

IMH - Advanced and Digital Manufacturing Campus



To improve skills, either through Curriculum Training (VET and Dual Engineering), (life long) job training or relations with companies and innovation services provided to them.

FACILITIES



11

10

9

8

7

6

5

4

3

2

1

Evaluazio

IMH

Evaluazio

1// **Informazioa lortu eta antolatu**
Obtener y organizar información
Collect and classify information

2// **Parametroak zehaztu**
Establecer parámetros
Establish the parameters

3// **Planifikatu**
Planificar

4// **Informazioa lortu eta antolatu**
Obtener y organizar información
Collect and classify information

5// **Exekutatu**
Ejecutar acciones
Execute actions

6// **Emaitzak aurkeztu**
Presentar resultado
Present results

School 4.0

Learning spaces / Methodology

Attractive physical learning spaces, incorporating technologies that facilitate methodological changes and innovative practices in education.

Teaching equipment

Modular, flexible and scalable Factory 4.0, which reproduces different aspects of a company's value chain.

Factory 4.0

Digital Factory

Smart production plant, built on a solid reality, governed, observed and analysed online.

Additive Manufacturing

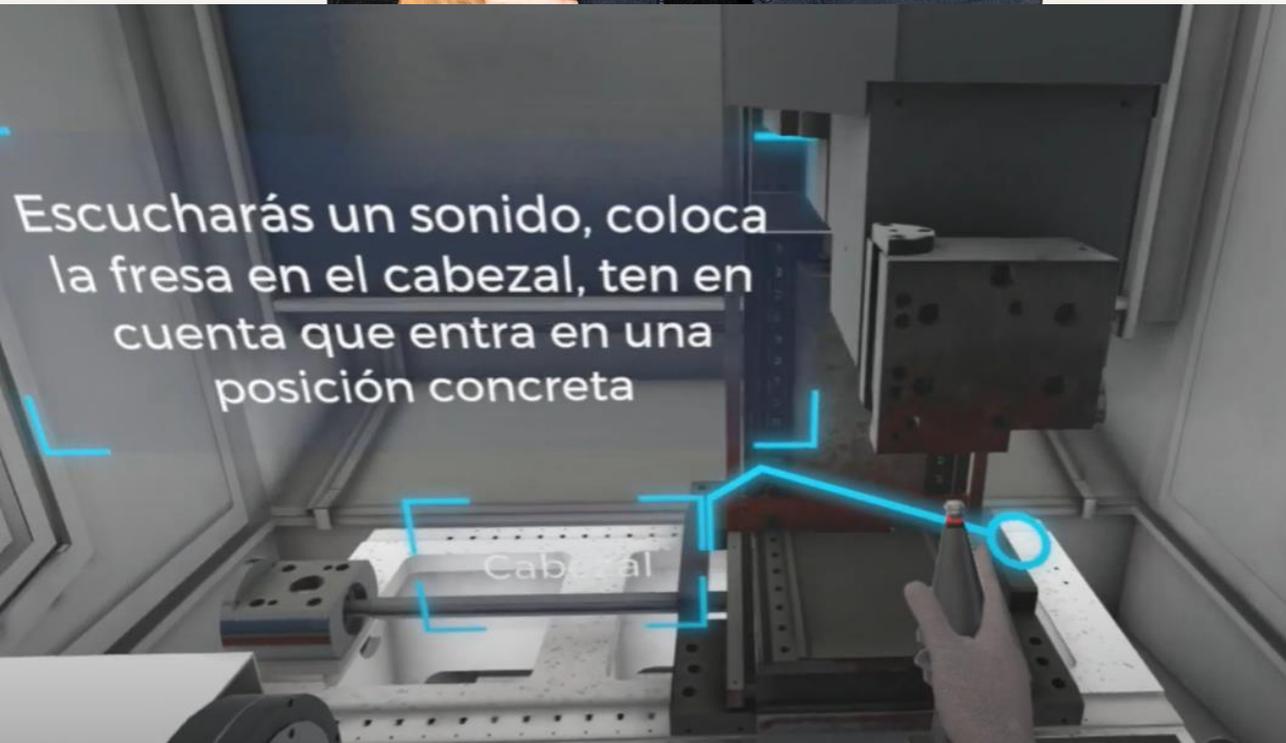
HUB bringing together technologies and stakeholders in additive manufacturing and 3D technology.



SCHOOL 4.0







Training and transition area

School 4.0 Teaching Equipment

Projection: Didactical multiprocess 4.0 / 3D printing / Collaborative Robot / Artificial vision / Non-contact measurement system / PLCs for control / Assembling cell (hydraulic, pneumatic,...) / Warehouse / Managing / Diverse simulator





FACTORY 4.0





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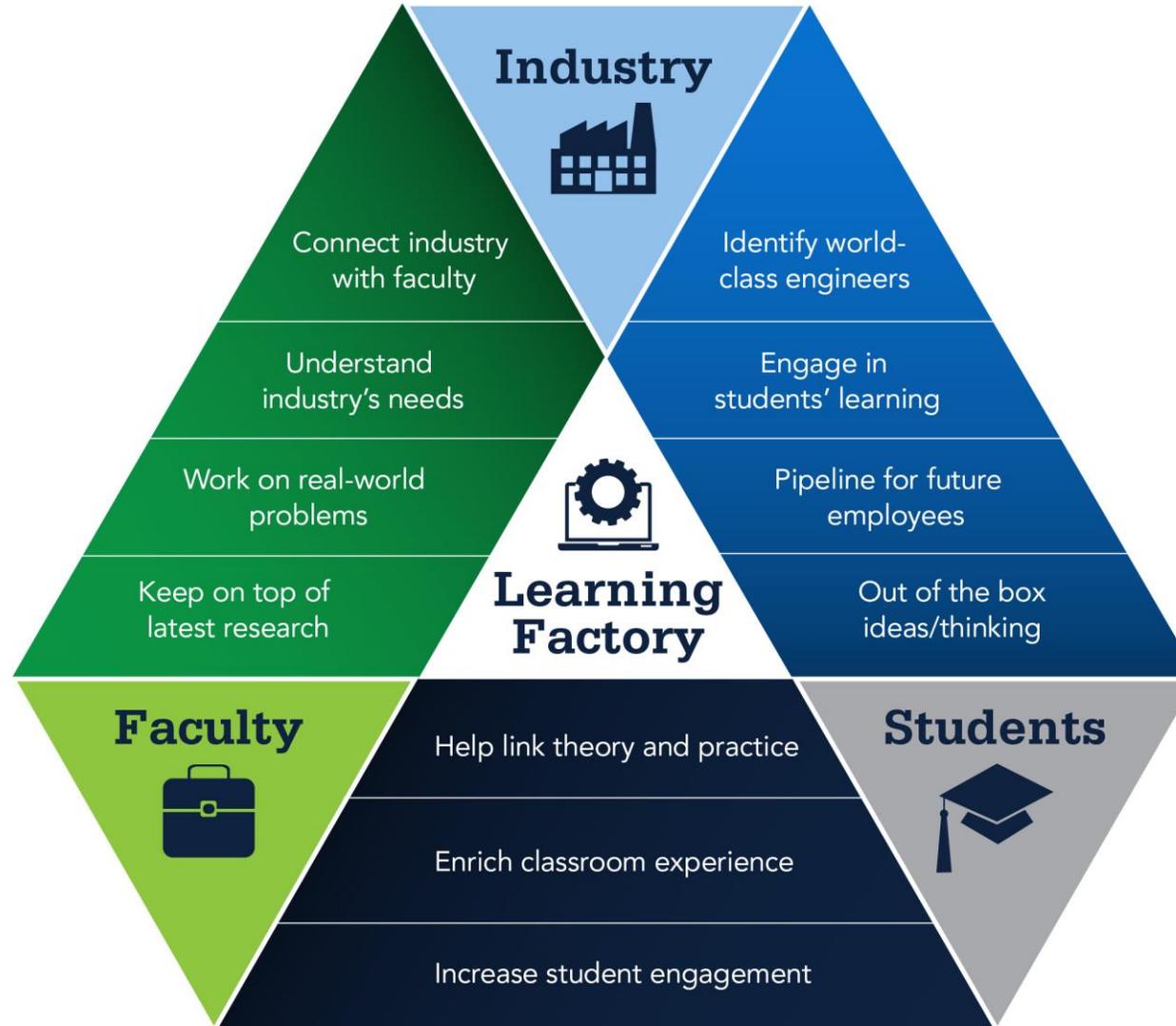
4.0 Workshop: Training and demonstration

Factory 4.0 Digital Factory

Projection: Sensorization, connectivity and cybersecurity, data capture, Industrial Business Intelligence, Machine Learning, Advanced Maintenance, simulators, virtual and augmented reality, precision machining, measurement



4.0 Workshop: Training and demonstration



4.0 Workshop: Training and demonstration



Ilustración 20: Esquema de las máquinas del Taller Asmaola y sus CNCs

4.0 Workshop: Training and demonstration







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Equipment Additive Manufacturing

**RENISHAW AM250
SAMLABS ALBA 300
(300W)**
SLM-Selective Laser
Melting

DESKTOP METAL STUDIO
Binder Jetting

ADDITOLA
LMD-Cladding





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Equipment Additive Manufacturing

HP Jet Fusion 3D 4200
Jet Fusion



SICNOVA JCR600/UM2/UM2Ext
FDM-Fused Deposition Modeling



ENVIRONMENT

An ECOSYSTEM where Advanced Manufacturing, Training and Transfer are native activities

A place to facilitate the understanding of the phenomenon of Additive Manufacturing, from Design, Development, Manufacturing and Postprocessing

HUB

A Hub for Networking

A unique gate for the various actors of additive manufacturing and advanced manufacturing

Industry - Suppliers - VET -
Research Centers - University
- Services

ACCELERATOR

To provide demonstration, training / learning and testing services in:

DESIGN
DEVELOPING
PRODUCTION
POSTPROCESS
INDUSTRIALIZATION

GENERATOR

A generator and diffuser of knowledge related to Additive Manufacturing and all related technologies

A place where you can, research, develop and innovate in: products, processes, applications and materials and postprocessing



advanced and digital manufacturing campus



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