

The image features a large, bright blue circle in the upper right quadrant, containing the text 'IAM 3D Hub' and 'International Advanced Manufacturing 3D HUB'. Below the circle is a black silhouette of a city skyline, including various buildings and structures. Several birds are shown in flight against the white background. The overall design is clean and modern.

IAM 3D Hub

International Advanced
Manufacturing 3D HUB

MISSION / VISION

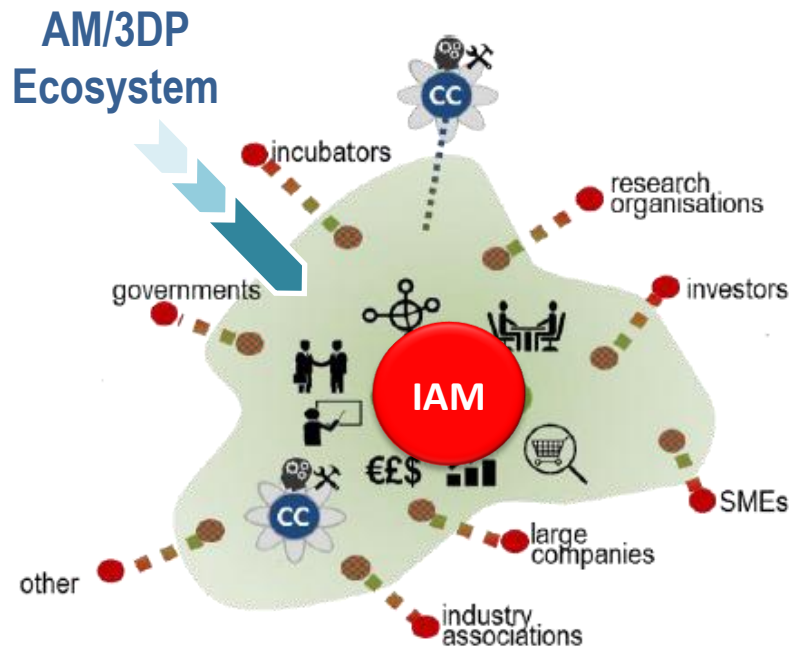
IAM 3DHub, *International Advanced Manufacturing 3D Hub*, has been set up with an International scope,

A Mission:

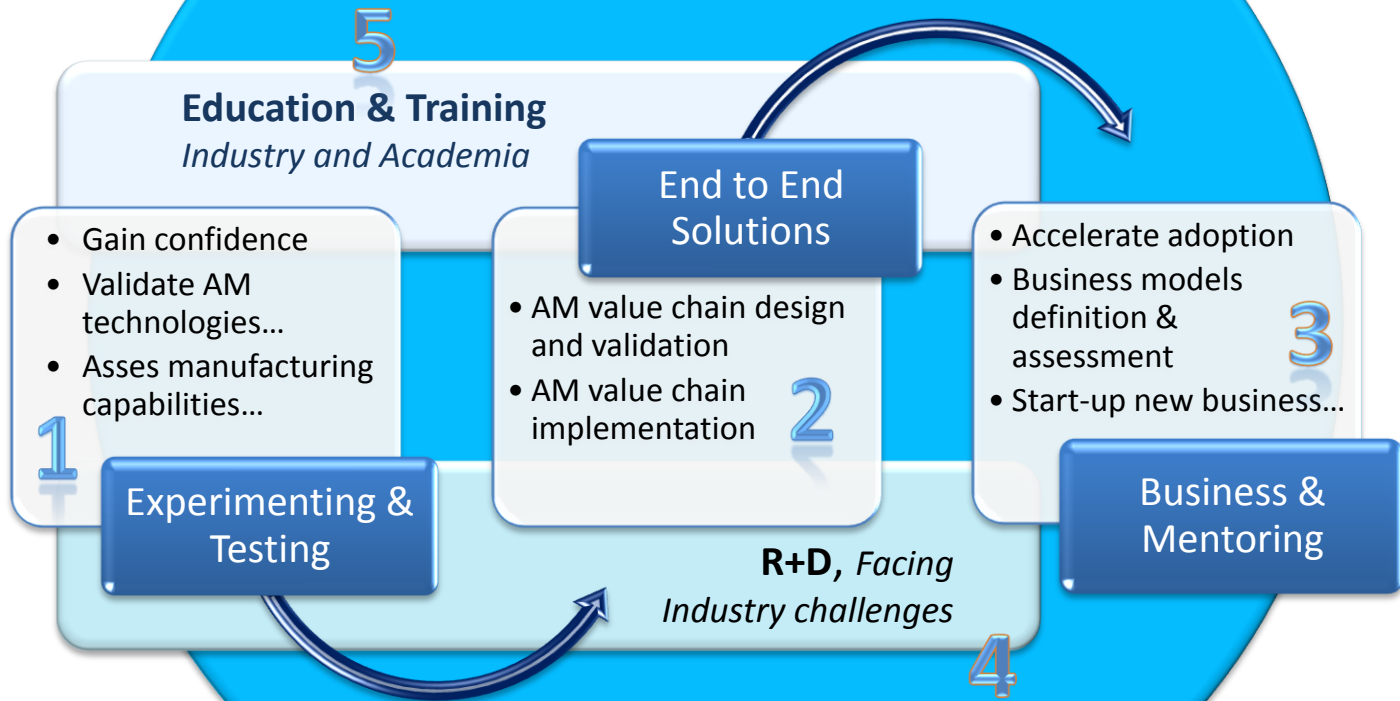
*“To accelerate **adoption** and **development** of **additive manufacturing** and **3D printing** technologies in the European Union manufacturing sectors as an alternative way to **design, develop** and **manufacture** new competitive **products** and **services** that strengthens their **competitiveness**”*

& a Vision:

Defined as a **Digital Innovation Hub & Competence Center** in Additive Manufacturing and 3D Printing will provide SMEs a **“One-Stop” Shop** to **assess, guide** and **address** all their needs in AM .



WILL PROVIDE



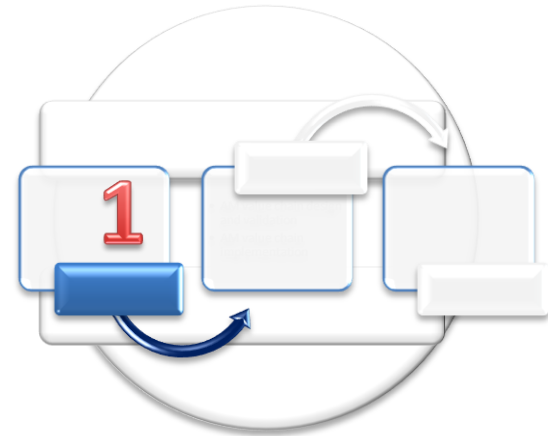
IAM 3D Hub

EXPERIMENTING & TESTING

Gain confidence in AM/3DP solutions
Validate AM technologies
Asses manufacturing capabilities

WHAT

Company consultation
Meet the expert.
Laboratory tour
AM/3DP use, benchmark & test for Product Development.
AM/3DP Strengths & weaknesses for manufacturing purposes:
 Materials & Processes selection.
 AM Processes capabilities and constrains for manufacturing applications.
Hands-on workshop / Lab-Day.



DEVOTED TOOLS

Facilities with a full set of equipment serving the industry:

Design and Simulation SW,
Digital Scanners
AM Materials
AM and 3DP Machines
Robotics
Post- processing and validation labs.

END TO END SOLUTIONS

AM value chain design and validation
AM value chain implementation

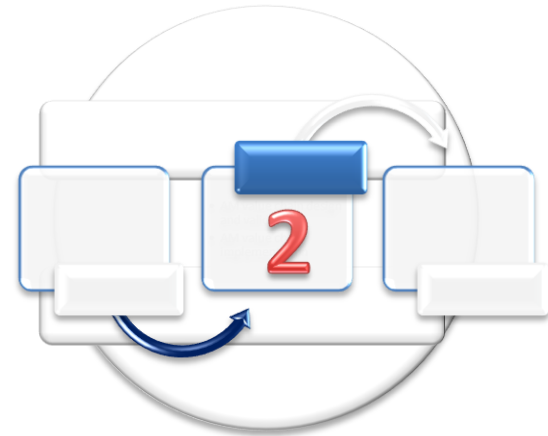
WHAT

Living Lab: Designing, Exploring, Experiencing and Refining new products in real-life scenarios for evaluating their potential feasibility and innovation impact before production.

Applications **Incubator**

Test bed. Component production for the entire AM chain process on an industrial scale.

Validation.



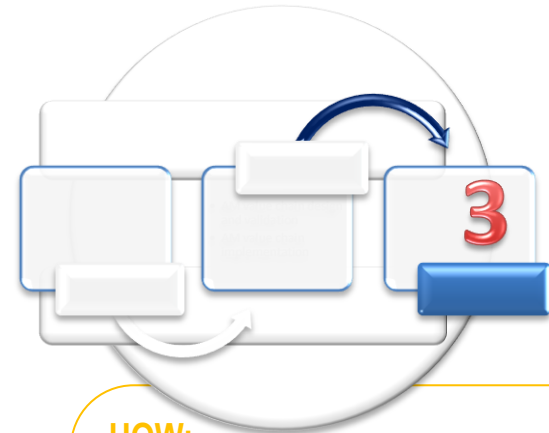
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BUSINESS & MENTORING

Start-up new business. Business Innovation.
Accelerate adoption of AM/3DP solutions



Start-up new business

WHAT

- Technology Assessment
- Identification of emerging technologies and adoption acceleration
- Start up generation
- Market studies
- IP Protection analysis

- Commercial feasibility studies
- Identification of routes to market
- Business models definition & assessment
- Funding support to new business

- Identification of partners and collaborators
- IP Protection

- IP Licensing
- Go to market and sales strategies

HOW:



HYBRICK

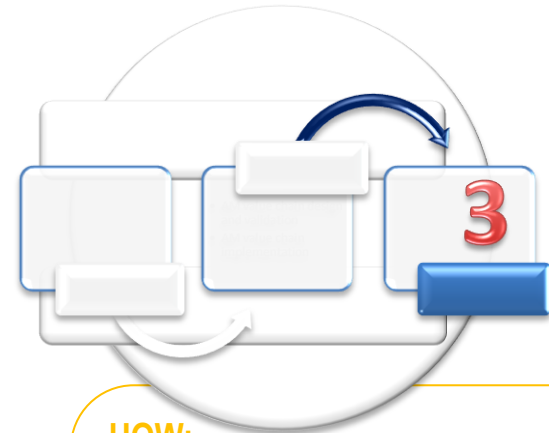
the open innovation platform led by **Fira Barcelona** and **Leitat** where technological innovation processes are speeded up in the field of AM, providing a connection between client needs and the market's industrial solutions, turning challenges into business opportunities.

Business angels , family offices and venture capital networks.

IND(3D)ustry: Led by Fira Barcelona, where top industrial end-users find solutions to their needs.

BUSINESS & MENTORING

Start-up new business. Business Innovation.
Accelerate adoption of AM/3DP solutions



Accelerate adoption

WHAT

Readiness level assessment.
Analysis of adoption's potential.
Identify and address technical challenges to enable full-scale production.
Develop operating procedures, specifications and standards.

Design and implementation strategy
Simulation and validation of AM integration at a factory level

Supply chain development
Support with make-versus-buy decisions.
Simulation and validation of AM integration at a business level.

HOW:



HYBRICK

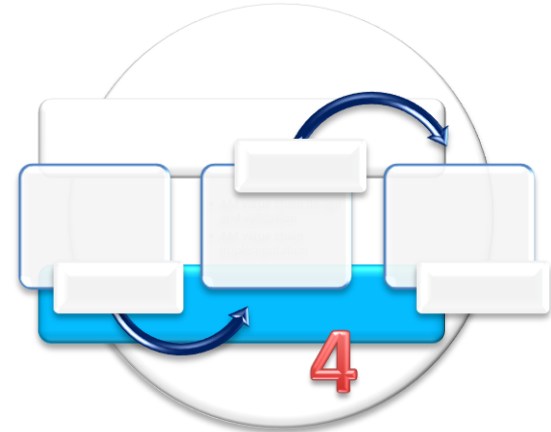
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RESEARCH & DEVELOPMENT

Research and develop AM/3DP technologies along all the value chain. Concentrate the most relevant AM companies to create and share a R&D environment for innovating and scaling up AM technologies. Face industry challenges.



WHAT

Design for manufacturing and exploiting the benefits of AM

Materials: Formulation / Development

Materials Characterization and Validation ; Health & Safety Handling;
Recovery

New consolidation processes. Process Monitoring & Control.

Process Parameters Development & Optimization

Development of automated cost-effective finishing solutions

Development of standards for 3D printed parts and AM processes

DEVOTED TOOLS

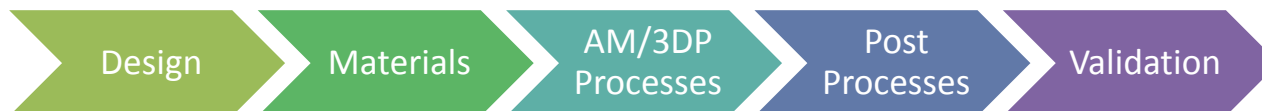
R&D Ecosystem lead by **LLAVOR 3D, RIS3Cat Community** of Additive Manufacturing and 3D Printing.

Vanguard Initiative
3DPrinting Pilot Line

H2020 R+D program.

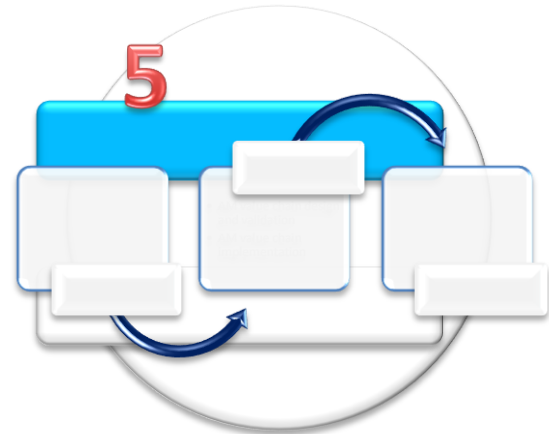
Industrial R+D Projects

Member's R+D projects



EDUCATION & TRAINING

Workforce training
Educational Outreach
Integrated Educational thread



WHAT

Workforce Training:

Practical training all along the value chain.
One day, one week, one month.
Train-the-trainers workshops.

Educational Outreach

Integrated Educational thread:
Academia Programs
STEAM activities
International Official Master
Industrial PhD

DEVOTED TOOLS

Industry
Associations

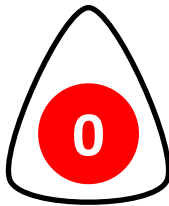
Clusters

Schools, Colleges

Universities

I'AM experts

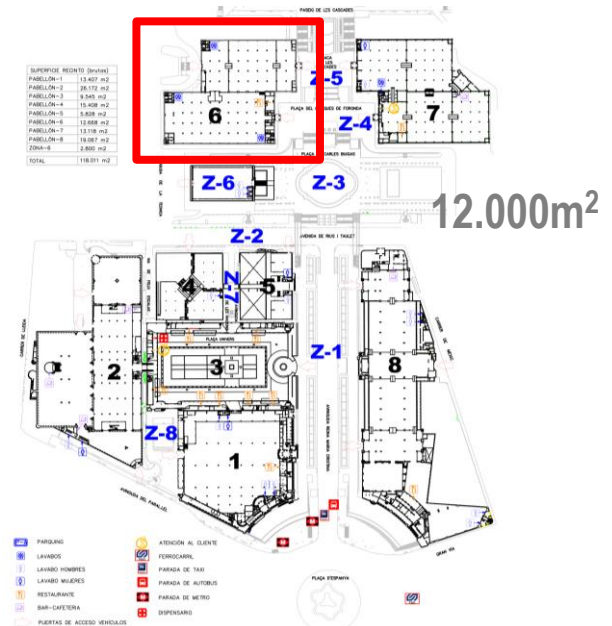
WHERE



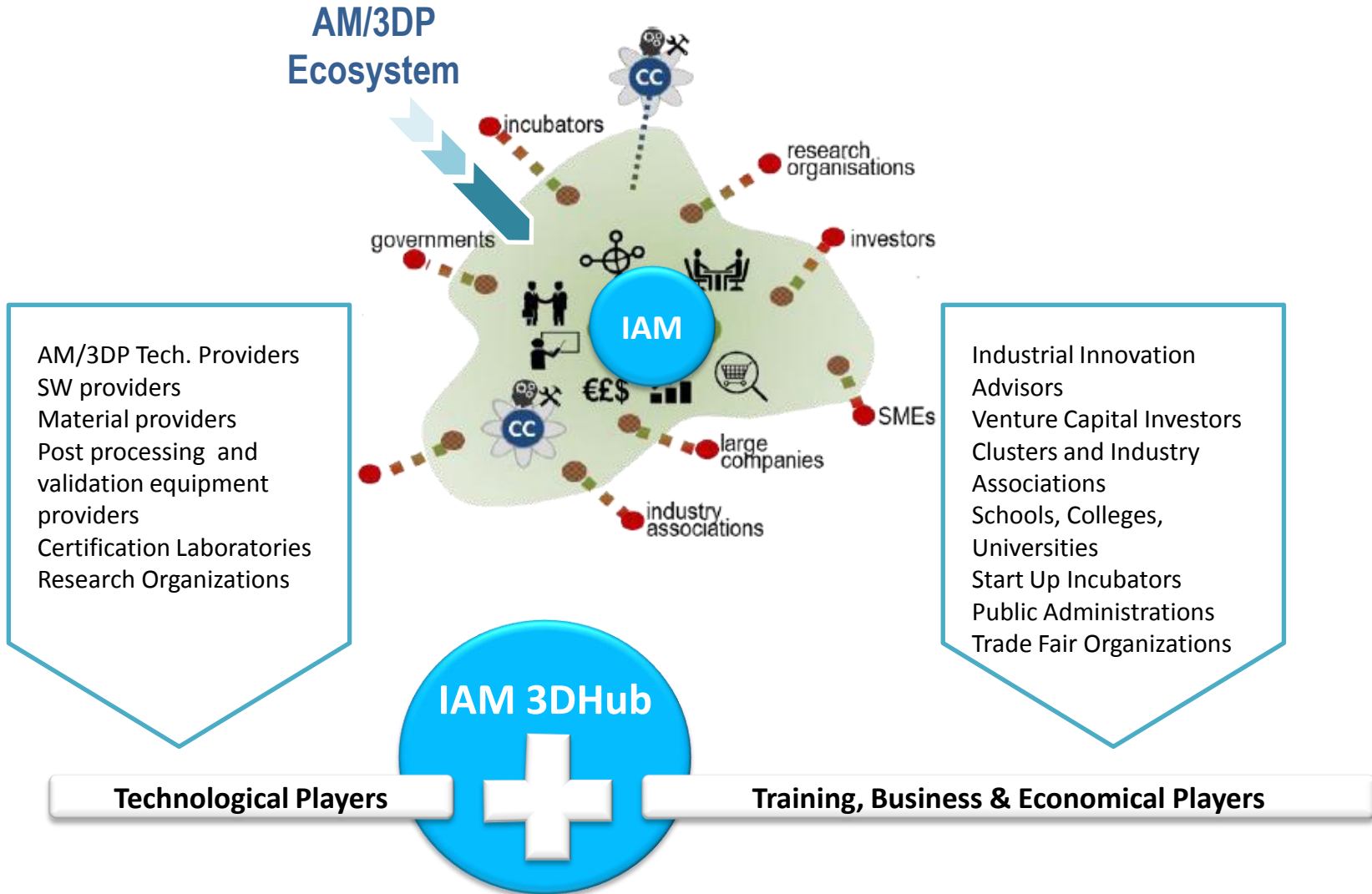
PHASE 0 Leitat's Facilities



PHASE 1
Fira de Barcelona. Pavilion 6



TYPE OF ENTITIES INVOLVED



BCN AM/3DP Ecosystem

