

**basque
digital
innovation
hub**

**We are your technology link
for 4.0 solutions**

BASQUE INDUSTRY4.0

What is it?

The advanced manufacturing strategy is a priority area of the Smart Specialization Strategy RIS3 Basque Country.

Its implementation is carried out through public-private cooperation led by the Basque Industry 4.0 Steering Group.

Mission

To strengthen the position of the Basque Country as an economy with an industrial base through the promotion of knowledge intensive manufacturing.

Strategic Objectives

1

Added value

To help and guide Basque companies towards more knowledge intensive manufacturing activities which have greater added value

2

Integration of KETs

To promote multi-disciplinary and technological convergence in a structured way so as to develop best-in-class manufacturing capacities and solutions while optimizing existing resources

3

Global value chains– Cluster 2.0

To integrate local and international value chains to meet the challenges of Advanced Manufacturing using the sum of the particular capacities of each sector and its companies

4

Scaling Up

To foster collaboration and support as a catalyst for the industrialization of the results of R+D+i in Advanced Manufacturing

5

Talent

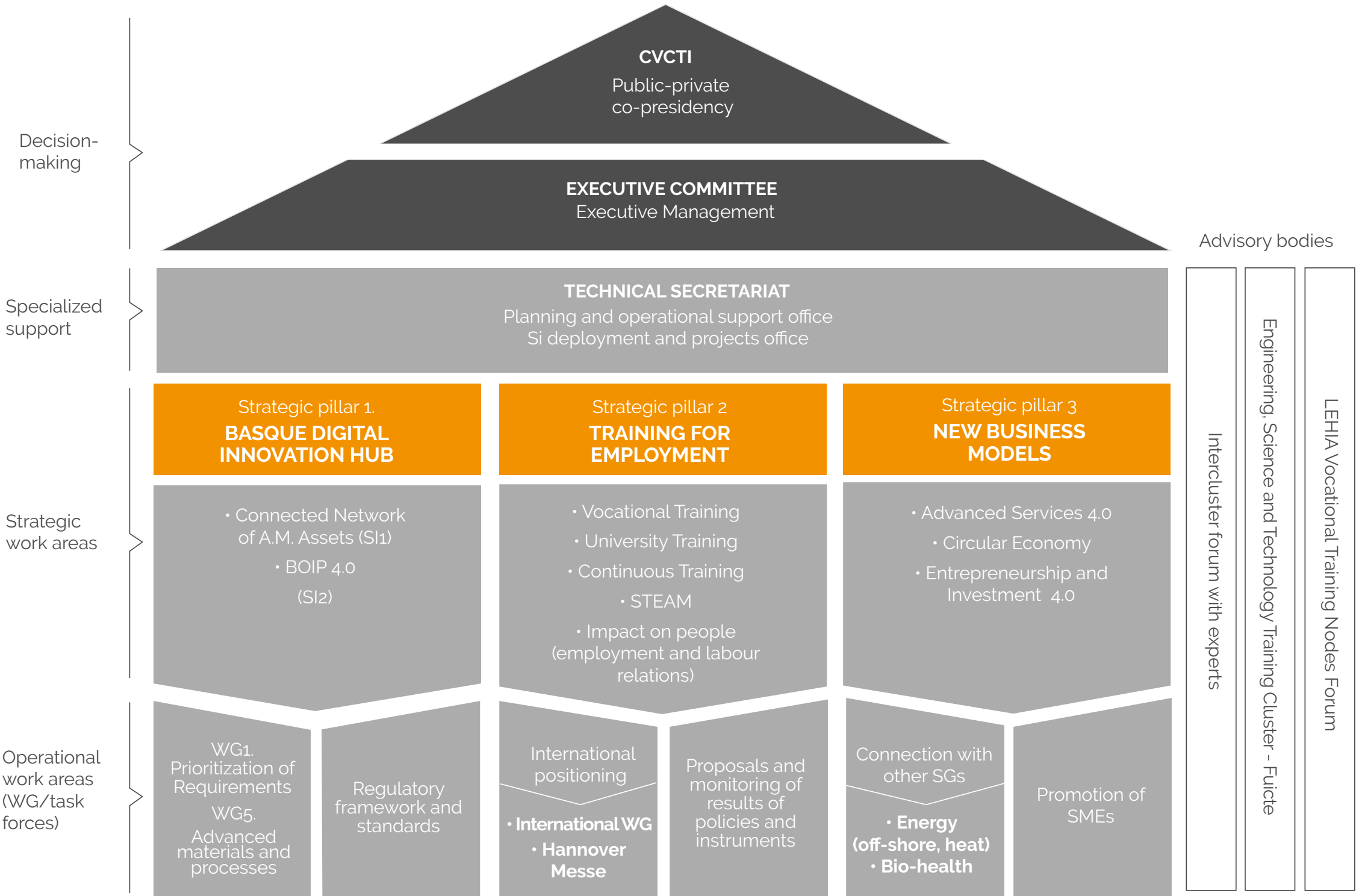
To support education and job training in technologies and management systems related to Advanced Manufacturing

Technological priorities

The commitment to technological development in advanced manufacturing is crucial to maintain the competitiveness of the industry and to ensure positioning in market niches with greater added value

Advanced materials & processes	Intelligent, Flexible & efficient, production systems	Digital & Connected Factory	Energy efficiency
Nanomaterials	Smart supply chain	Virtual Factory	Energy management tools
Joining technologies for advanced materials	Hybrid & multitasking machinery	Predictive maintenance systems	Energy consumption monitoring systems
Automatized composites manufacturing	Smart Production Systems	Integrated inspection & measurement	Energy recovery systems
Efficient processes for materials	Data management systems	Unitary level traceability	
Advanced surface technologies	Integrated monitoring systems	Real-time data services	
Life Cycle Assessment	Intuitive & multimodal programming		
	Human in the Loop		
	M2M Communication		

Strategic pillars



BDIH, What is it?

Connected network of advanced manufacturing assets and services. Infrastructure for training, research, testing and validation available for companies.

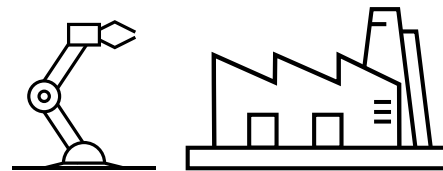
The BDIH is already a reality in operation

**basque
digital
innovation
hub**

The aim of this initiative is to provide industrial enterprises, especially SMEs, with the technological capabilities needed to meet the challenges of industry 4.0.

It consists of a digitally-linked network of R+D infrastructures, pilot plants and specialized know-how in different areas of advanced manufacturing. The network will be used for the development of R+D projects, scaling of industrial projects, exhibition of cutting-edge technologies and also as a resource for training and acceleration of start ups.

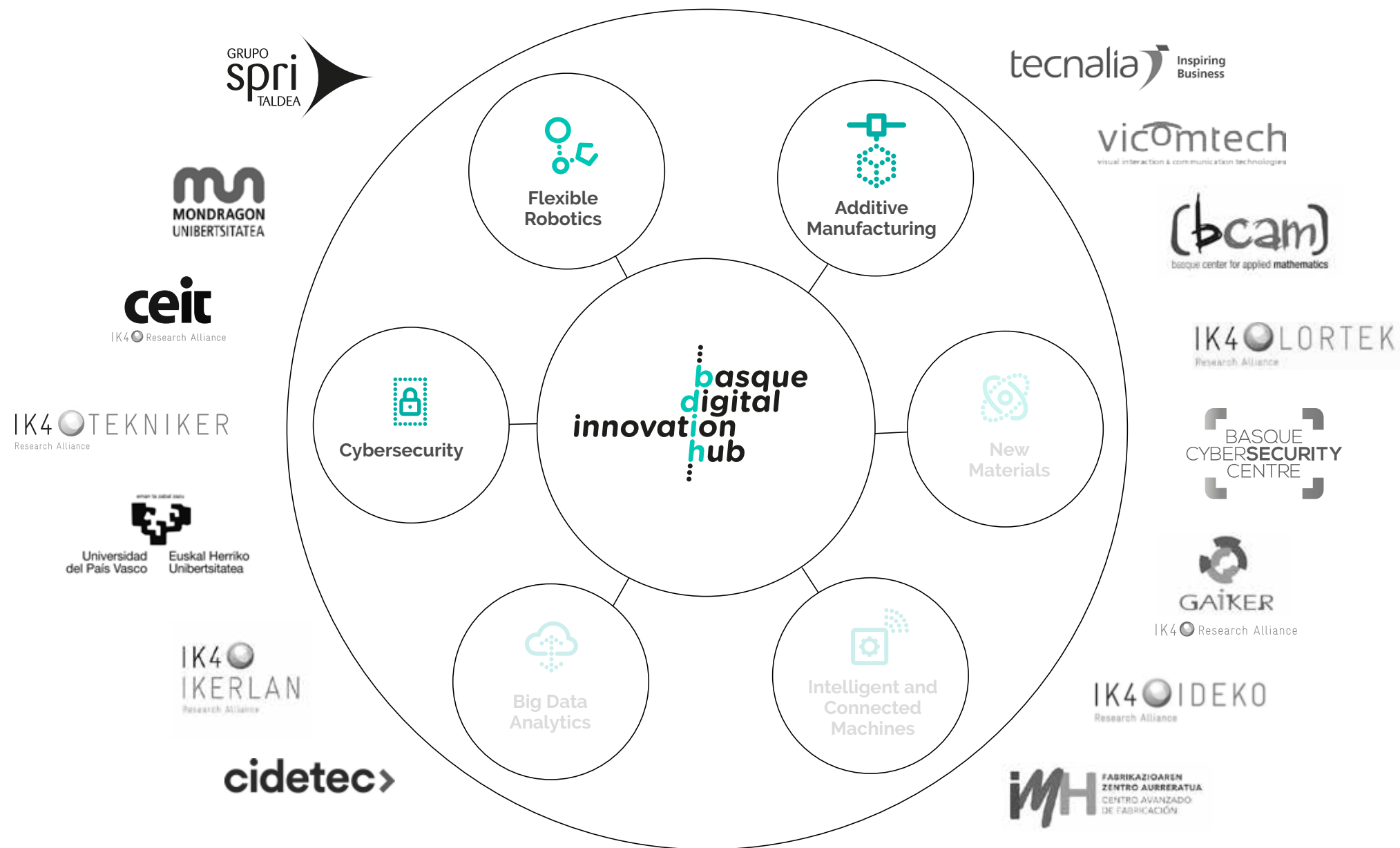
We are going to channel SME digitization in the Basque Country toward more knowledge-intensive and higher value manufacturing activities.



Assets, advanced manufacturing services, training, research, testing and validation infrastructure at the disposal of companies.

Members

The network is owned by R&D Centers, vocational training centers and universities and is supported by regional public institutions. It is internationally connected with other European Digital Innovation Hubs.

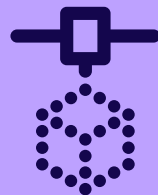


Nodes

6 work areas in which
we classify knowledge and technology



Flexible Robotics



Additive Manufacturing



Cybersecurity



Big Data Analytics



New Materials



Intelligent and
Connected Machines

Our offer

We provide companies with infrastructure,
equipment and knowledge

Technological- economic advice



Need Analysis

360 vision technological assessment

Collaboration & coworking

Technological Prospective & State of the Art

Technological Analysis

Economic viability Analysis

Proof of Concept

Design, prototyping and validation



Conceptual Design

Simulation, solution architecture

Safety Analysis

Prototyping, programming and
experimental validation

Technological transfer for industrialisation

Awareness and Training



Showroom

Training Workshops (<1 day)

Training (+ 1 day)

More than 100 4.0 assets

Offer of technological-economic advice, design prototyping and validation, and training and awareness-raising in fields applicable to:



Flexible Robotics

**Advanced
manipulation
with robots**

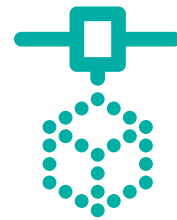
**Internal logistics
with mobile
robots**

**Manufacture
and assembly of
components by
robots**

**Quality Control
with Robots**

**Flexibility for
robotics
applications**

Offer of technological-economic advice, design prototyping and validation, and training and awareness-raising in fields applicable to:



Additive Manufacturing

AM/3D Printing
process

Design for AM
and Digital
pre-processing

Post process

Materials for
3D/AM

AM Digital
Chain

Supporting
technologies
and processes

AM Process
Validation

Request your proposal

The aim of this initiative is to provide industrial enterprises, especially SMEs, with the technological capabilities needed to meet the challenges of industry 4.0.

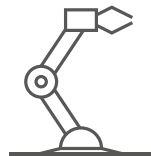
1

Need to know, test or develop 4.0 technologies?



2

Take a look at our offer



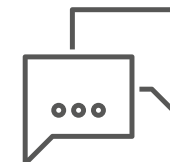
3

Tell us your requirements



4

Our 4.0 link person will contact you



basque digital innovation hub

We are your
technology link

www.basqueindustry.eus

**BASQUE
INDUSTRY4.0**

GRUPO
spri
TALDEA



**EUSKO JAURLARITZA
GOBIERNO VASCO**

EKONOMIAREN GARAPEN
ETA AZPIEGITURA SAILA
DEPARTAMENTO DE DESARROLLO
ECONÓMICO E INFRAESTRUCTURAS