

BASQUE INDUSTRY 4.0
A regional example of an innovation hub



BRTA

BASQUE
RESEARCH &
TECHNOLOGY
ALLIANCE



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BRTA OBJECTIVE

Collaboration between the research and technology agents of the Basque Country for the promotion of activities in the field of science, technology and innovation, fostering the cooperation and generation of synergies



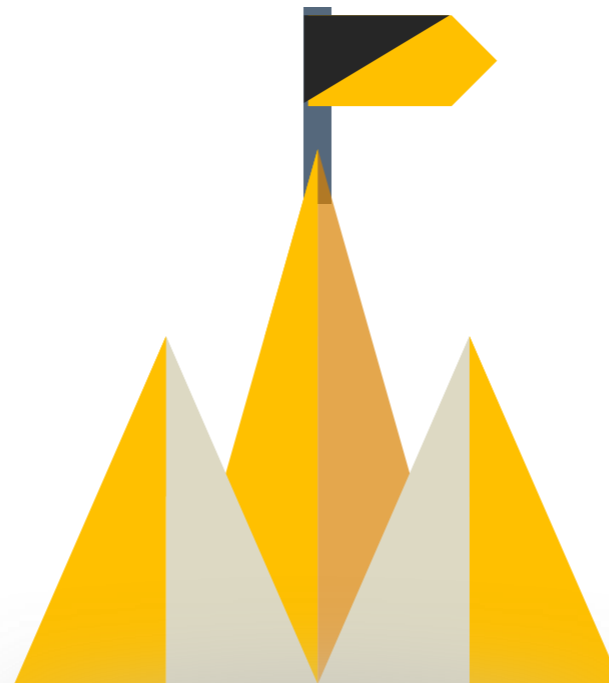
BASQUE SCIENCE AND TECHNOLOGY BRAND

International positioning by means of collaboration for increased capabilities and critical mass.



EFFECTIVE COLLABORATION IN RESEARCH

To advance in cooperation and collaboration to improve the outcome from overall available resources and capabilities



RATIONALISATION OF THE OFFER

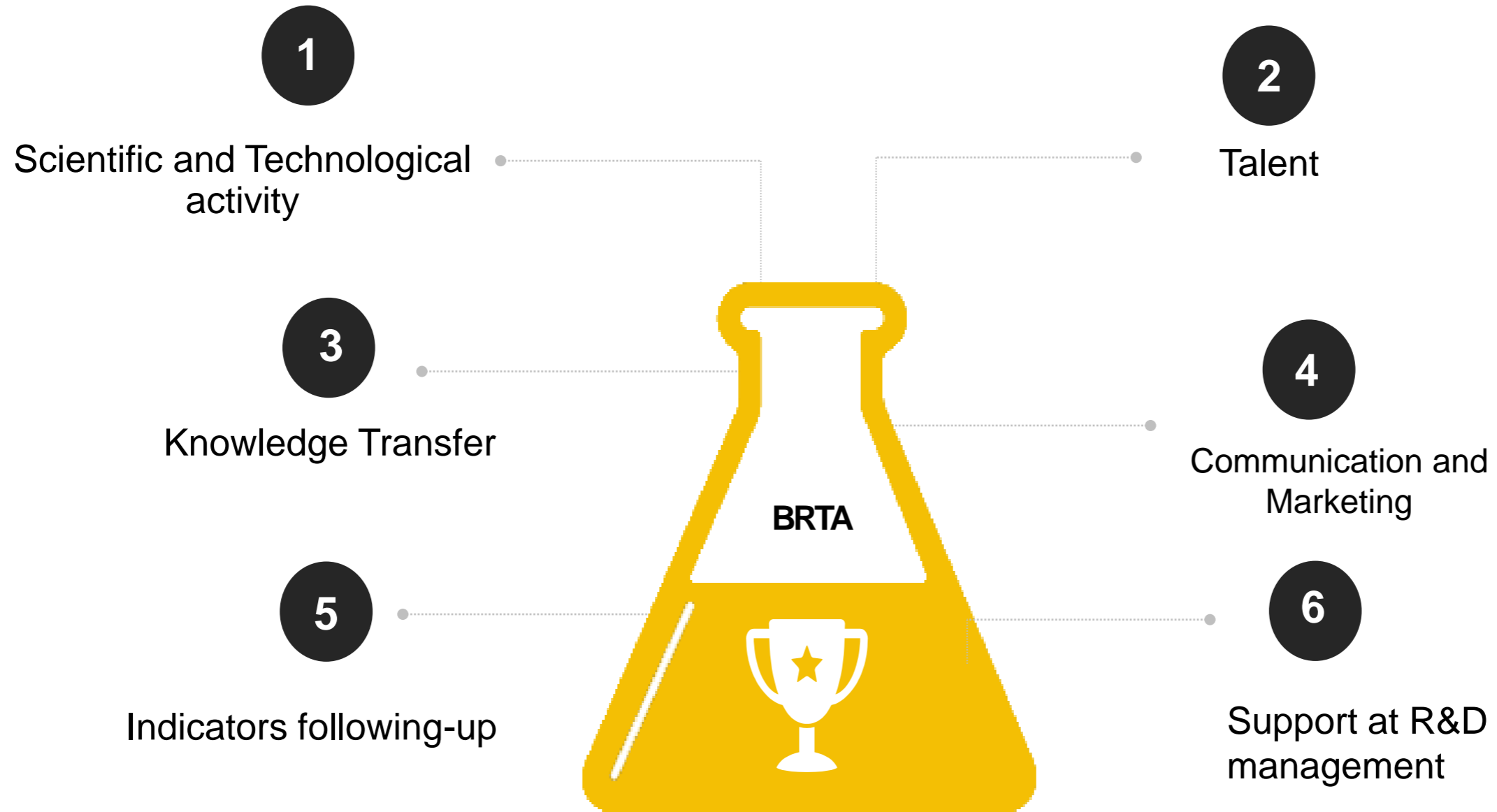


A step towards efficiency, quality and impact, as required for the Basque Innovation ecosystem at the 21st century.

HARNESSING SYNERGIES



Creating a joint structure to take advantage of existing potential synergies.



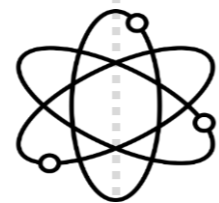
BRTA MAIN FIGURES



3500
PEOPLE



280 PhD
thesis/year



R&D

60 %

PUBLIC INCOME
(Competitive and
non-competitive)

301 M€
INCOME

40%

INCOME from
COMPANIES



668

International projects

1172

Indexed
scientific
publications

96

EPO & PCT patents

5M€

Income from royalties
and licensing

7M€

Income at spin-offs

50M€

International income

BRTA MEMBERS



AZTERLAN



AZTI



bioGUNE



biomaGUNE



CEIT



CIDETEC



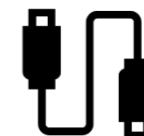
energiGUNE



GAIKER



IDEKO



IKERLAN



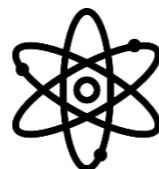
LORTEK



nanoGUNE



NEIKER



TECNALIA



TEKNIKER



VICOMTECH



Arabako Foru Aldundia
Diputación Foral de Álava



Gipuzkoako
Foru Aldundia
Diputación Foral
de Gipuzkoa



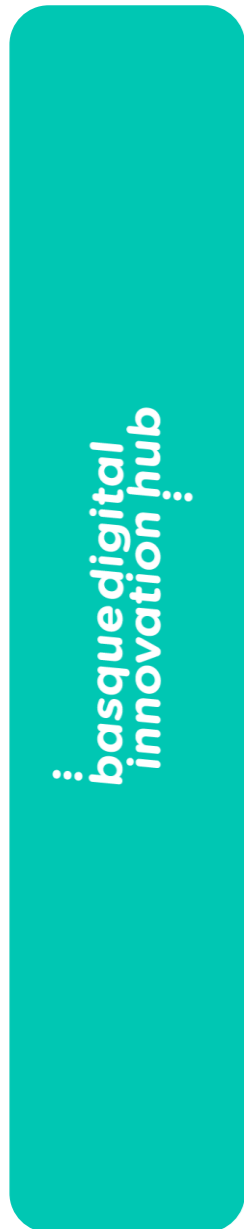
New industry is already here

Basque Industry 4.0 is a move towards the incorporation of intelligent systems into production plants, the improved use of emerging capabilities and technologies in new products and processes, the integration of advanced materials into higher added-value solutions and improved processes, and the efficiency and sustainability of resources and integration of high added-value services.

BASQUE DIGITAL INNOVATION HUB

What is this?

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



Functions	Services	Fields of Application / Applications
<p>R+D+i Projects</p> <p>Product/Process/Service Pilots</p> <p>Scaling-up</p> <p>Showroom</p> <p>Training (Learning Factory)</p>	<p>Technological-economic advice</p> <ul style="list-style-type: none"> • Need Analysis • 360 visión technological assessment • Collaboration &coworking • Technological Prospective & State of the Art • Technological Analysis • Economic viability Analysis • Proof of Concept <p>Design, prototyping and validation:</p> <ul style="list-style-type: none"> • Conceptual Design • Simulation, solution architecture • Safety Analysis • Prototyping, programming and experimental validation • Technological transfer for industrialisation <p>Awareness and Training:</p> <ul style="list-style-type: none"> • Showroom • Training Workshops (<1 día) • Training (+ 1 día) 	<p>Application Field 1</p> <p>Application Field N</p>



	<i>NODE</i>	<i>Coordinator</i>
	Additive Manufacturing	IK4 LORTEK <small>Research Alliance</small>
	Flexible and Collaborative Robotics	tecnalia Inspiring Business
	Cybersecurity	
	Data Driven Solutions	CLUSTER ICTA
	Intelligent and Connected Machines (Digital Grinding)	IDEKO
	Advanced Materials	ceit IK4 <small>Research Alliance</small>

The BDIH is already a reality, with the ability to offer specific knowledge and services to SMEs

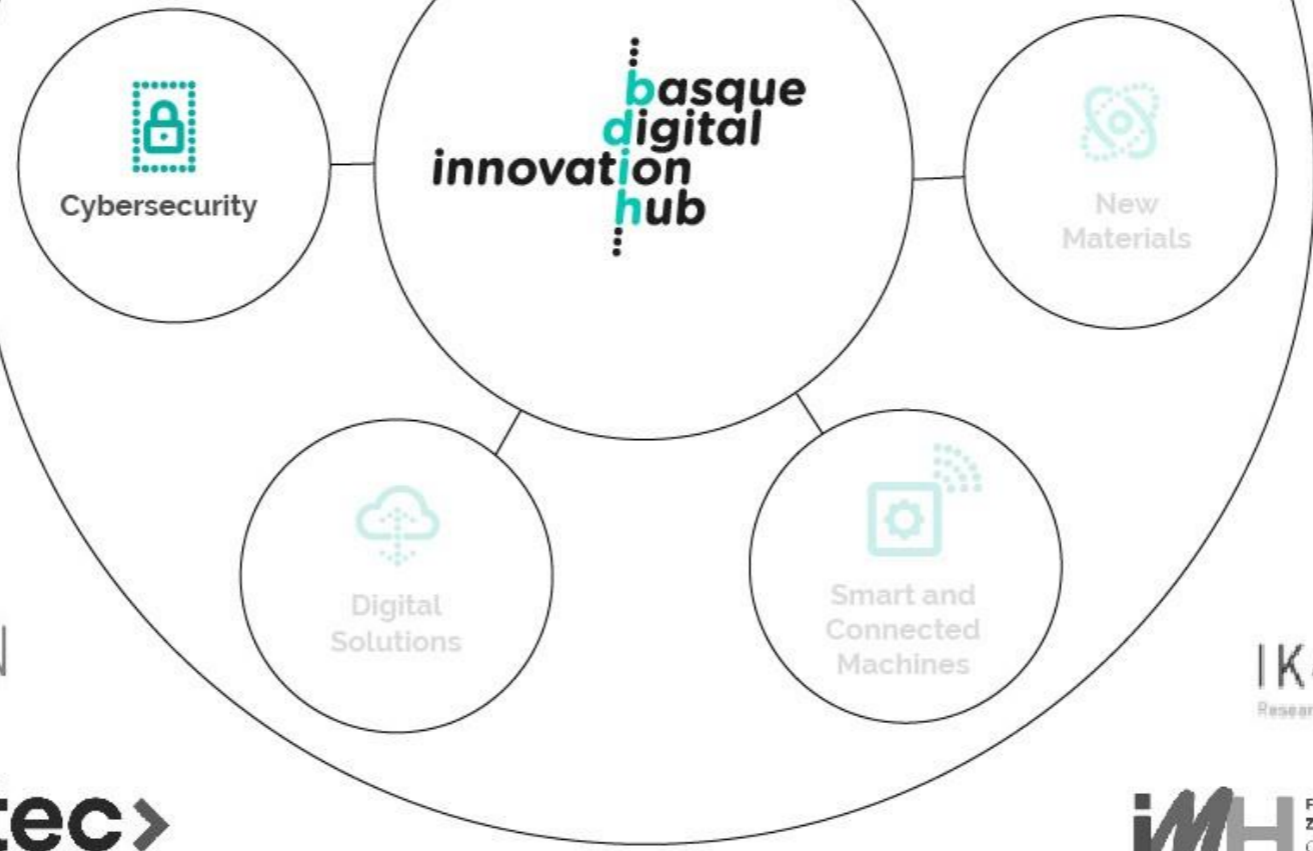


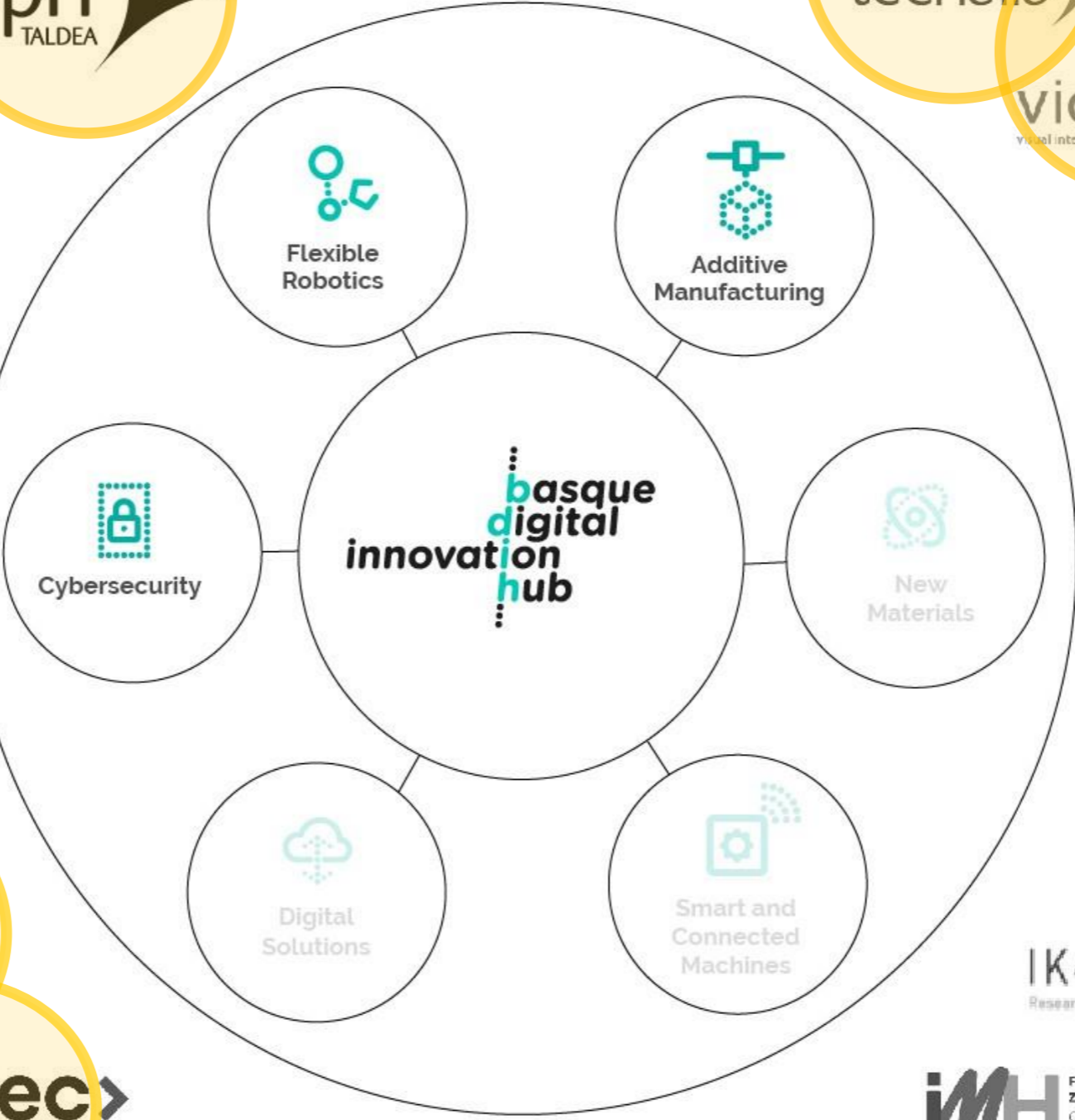
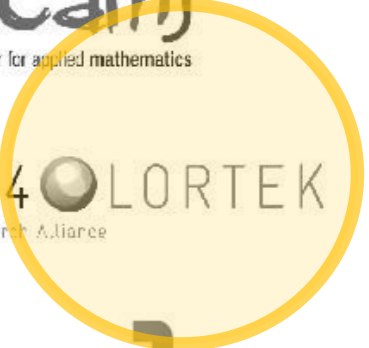
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Universidad del País Vasco





**BASQUE
INDUSTRY4.0**

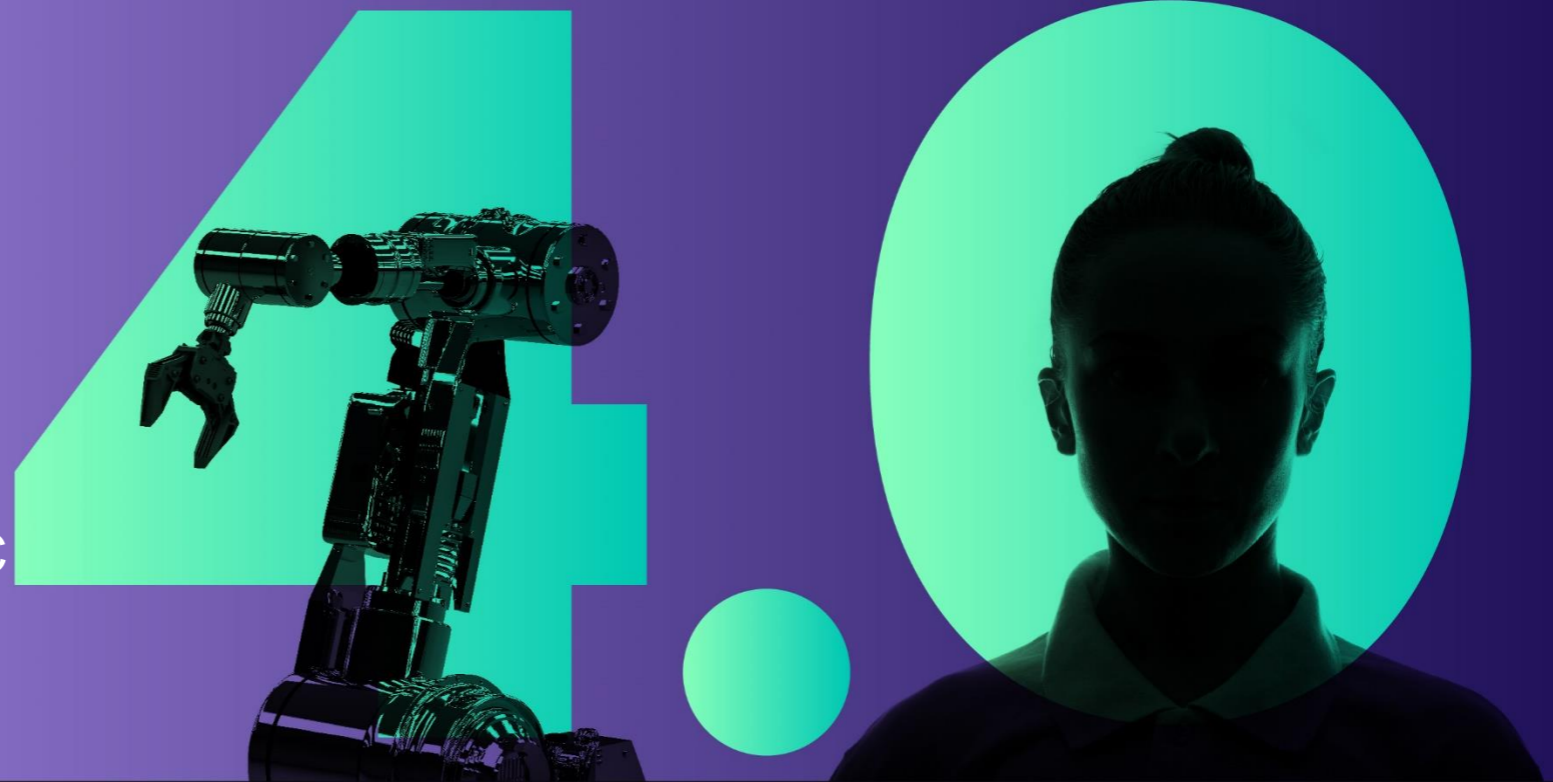
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**basque digital
innovation hub**
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The Meeting Point 2019

The reference event in the
Basque Country
concerning
the 4th industrial revolution


20, 21 November

Pavilion no.2
Bilbao Exhibition Center-BEC
Barakaldo - Bizkaia





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