

# The 11th NEDO-CDTI Joint Workshop

## “Technologies for Hydrogen Valley in Spain and Japan – Regional H2 Value Chain”

Hydrogen



## Overview of the JSIP Bilateral Program “Japan - Spain Innovation Program”

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# NEDO's Mission

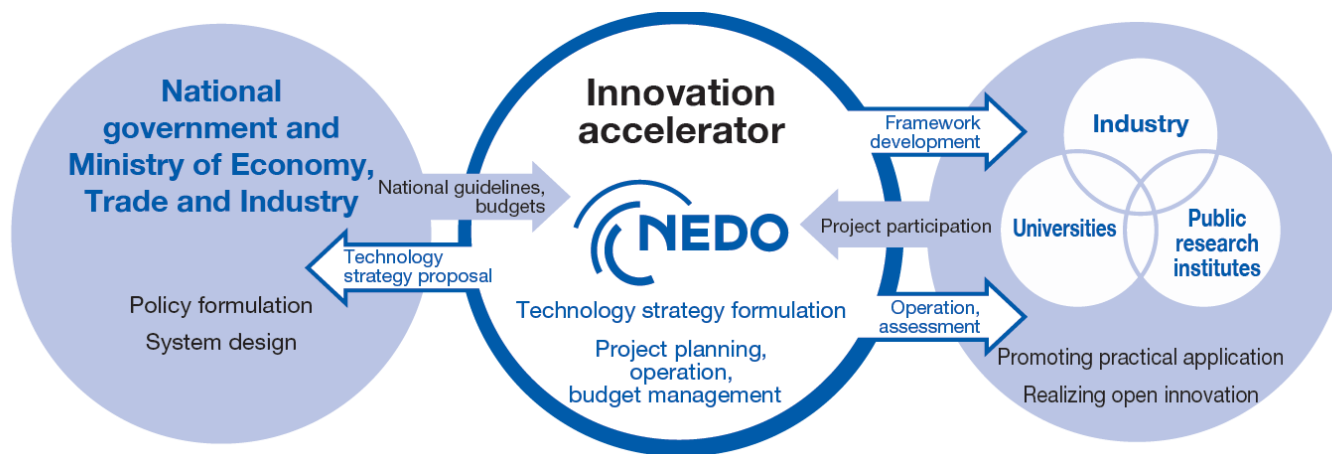
**Organization** National Research and Development Agency under the Ministry of Economy, Trade and Industry of the Government of Japan

**Mission**

1. Addressing energy and global environmental problems
2. Enhancing industrial technology

**Established** 1980

**Budget** 156.8 billion yen (FY2022)





# NEDO's Activity Fields

## Energy Systems (414 million € ≙ 58 Billion yen)

### Areas of focus

- Energy storage technology such as batteries
- Technology related to hydrogen production, storage, transport, and use
- Renewable energy technology



## Energy Conservation and Environment (300 million € ≙ 42 Billion yen)

### Areas of focus

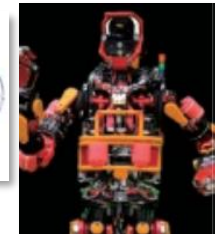
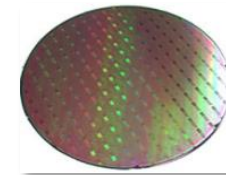
- Technology to harness unutilized thermal energy
- Environmentally-friendly steel manufacturing technology
- Development of high-efficiency coal-fired power generation technology
- CCUS
- International demonstrations



## Industrial Technology (307 million € ≙ 43 Billion yen)

### Areas of focus

- Robot and AI technology
- IoT, electronics, and information technology
- Manufacturing technology
- Materials and nanotechnology
- Biotechnology



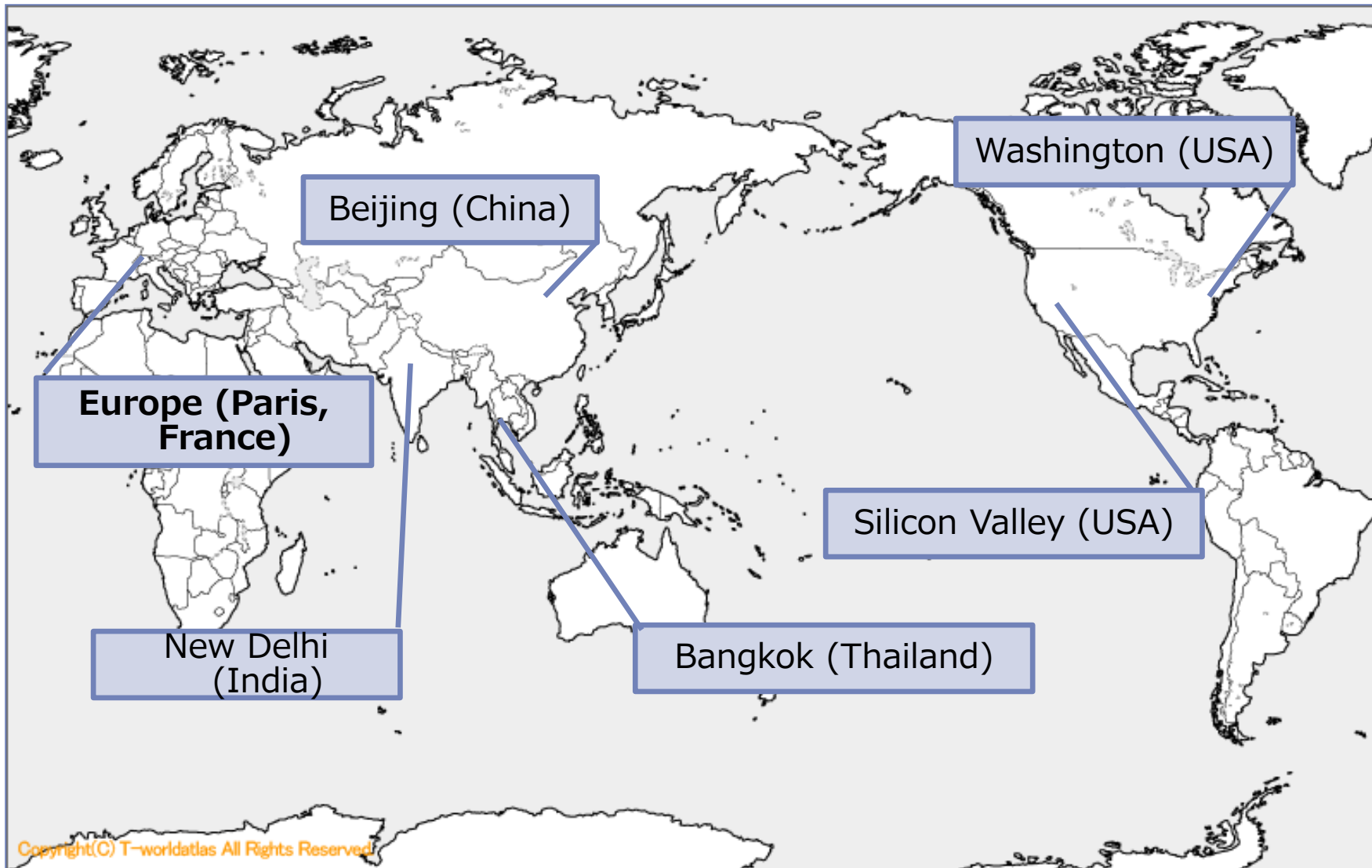
## New Industry Creation and Discovery of Technology Seeds (50 million € ≙ 7 Billion yen)

### Areas of focus

- Fostering technology-based startups
- Promotion of open innovation



# NEDO Overseas Offices





# Japan - Spain Innovation Program (JSIP)

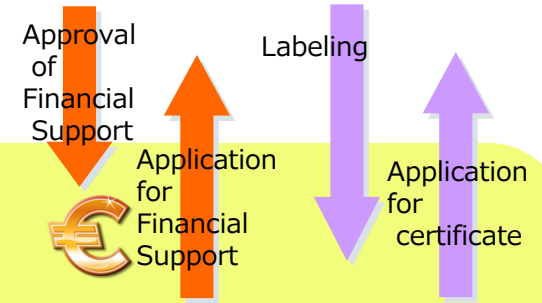
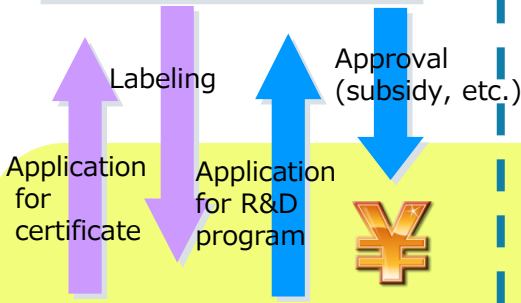
Japan

Spain

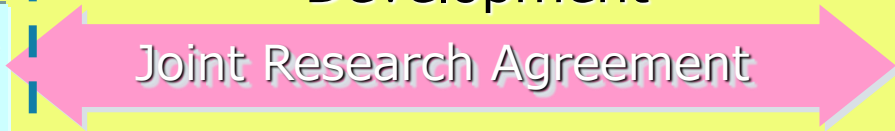


Eligibility examination

Eligibility examination



Japan-Spain Joint Technology Development



Japanese companies, research institutes, universities, etc.

Spanish companies

Collaborative development of new technologies, products, processes and services

Markets



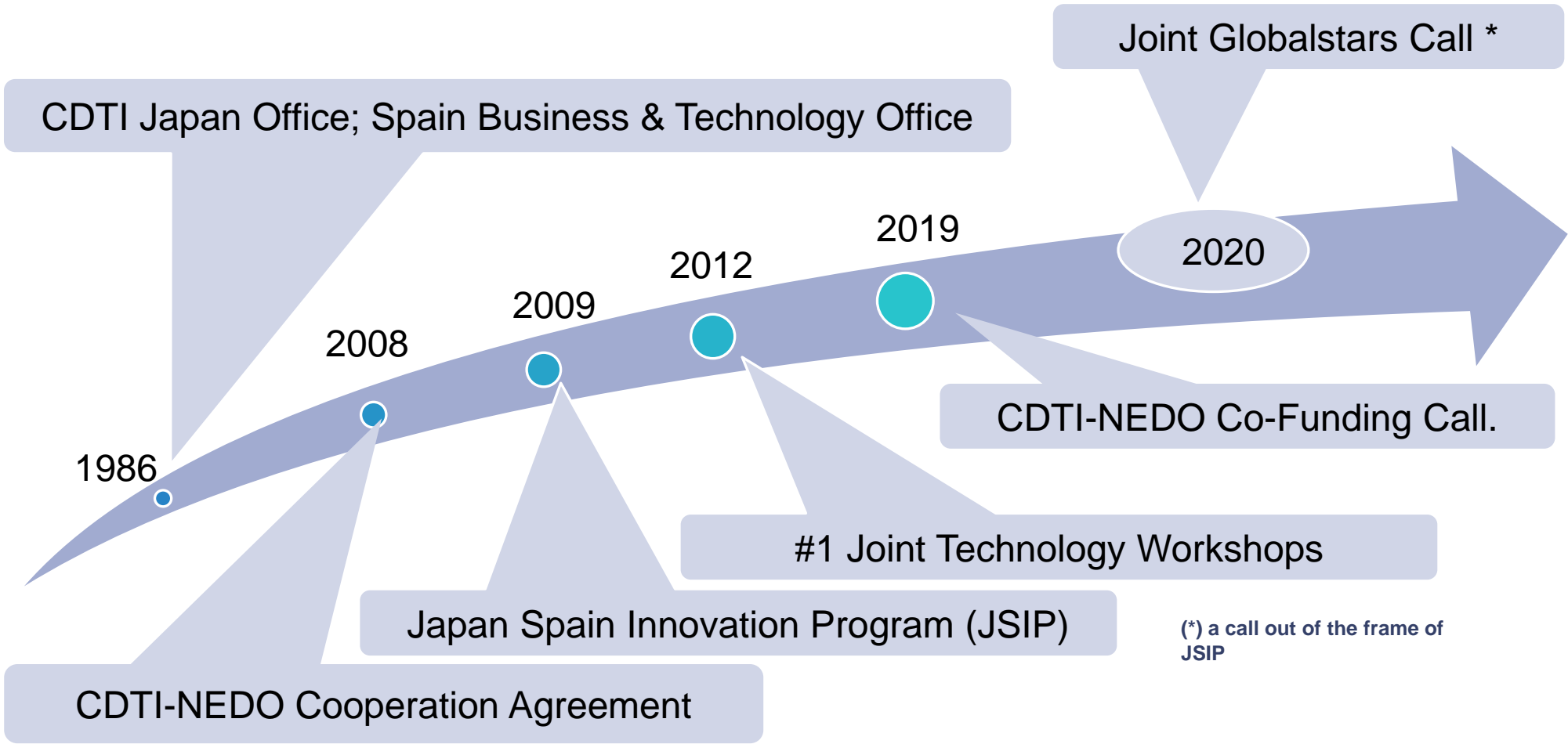
# NEDO / JSIP Projects

- ✓ Target Area :
  - International technological development cooperation for a product, process or service having a definite market potential
  
- ✓ NEDO Evaluation Criteria :
  - Involve at least one among enterprise, university or public research institute from Japan and at least one enterprise from Spain.
  - Have some expected benefit from pursuing the project on an international joint collaboration between Japan and Spain
  
- ✓ Application:
  - JSIP Label Application + copy of Cooperation Agreement
  - Through out the year
  
- ✓ JSIP Certificate will be given to the applicants subject to the joint evaluation by NEDO and CDTI.

URL : [https://www.nedo.go.jp/activities/AT1\\_00469.html](https://www.nedo.go.jp/activities/AT1_00469.html)



# Japan Spain Innovation Program



(\*) a call out of the frame of JSIP



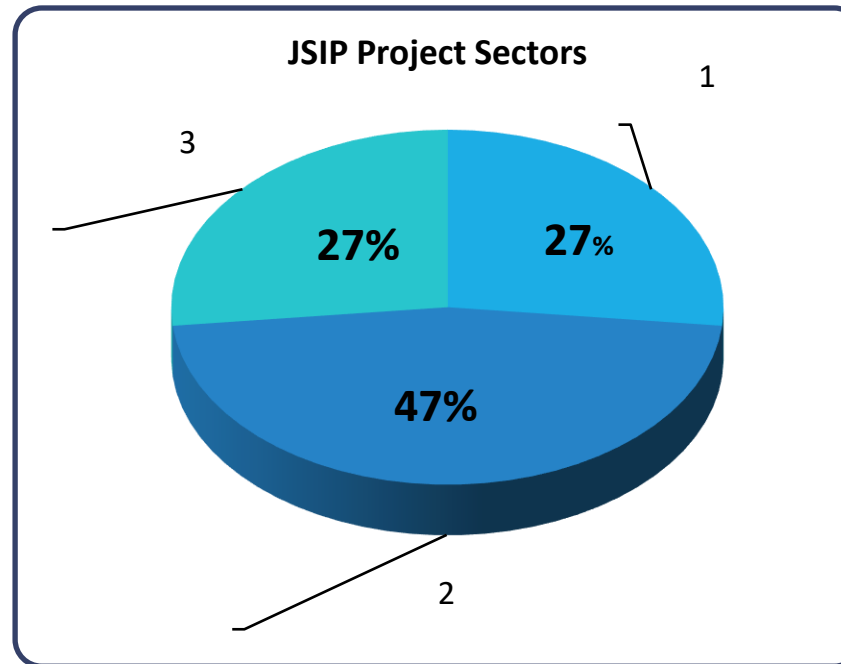


# Japan (NEDO) – Spain (CDTI) Innovation Program (JSIP)



JSIP Certified Projects 2009- 2019	15
Total Budget of all projects	86 M€

Joint Globalstars call in 2020	1
Total Budget of all projects	1.4M€







# Japan (NEDO) – Spain (CDTI) Innovation Program (JSIP)



## Joint Technology Workshops 2012-2023

- #1 2012 Renewable Energy (PV, CSP, Offshore Wind, Marin) @Madrid
- #2 2013 High Temperature Superconductivity Technology @Madrid
- #3 2013 Flexible AC Transmission Systems & Superconductivity @Kawasaki
- #4 2014 Smart Energy @Madrid
- #5 2015 Smart Devices and Materials for the automotive industries @Kawasaki
- #6 2016 Effective Use of Thermal Energy in Industry @Bilbao
- +Special 2017 Spain Offshore Wind Energy Technical Presentation and Dialogue @Tokyo
- #7 2018 Effective Use of Thermal Energy in Industry @Tokyo
- #8 2018 Offshore Wind Energy @Bilbao
- #9 2019 Offshore Wind Energy @Kitakyushu
- #10 2021 Hydrogen Technology Green Hydrogen Production and Application @Online
- #11 2023 Technologies for Hydrogen Valleys in Spain and Japan – Regional H2 Value Chain @Kofu



# CDTI, E.P.E. – Ministry of Science and Innovation of Spain



## SPAIN'S NATIONAL INNOVATION AGENCY

Main mission: Enhance Spanish companies' competitiveness & internalization through INNOVATION





## More than 40 years supporting business RTDI



Direct funding 16,300 million EUR

More than **13,000** beneficiary companies

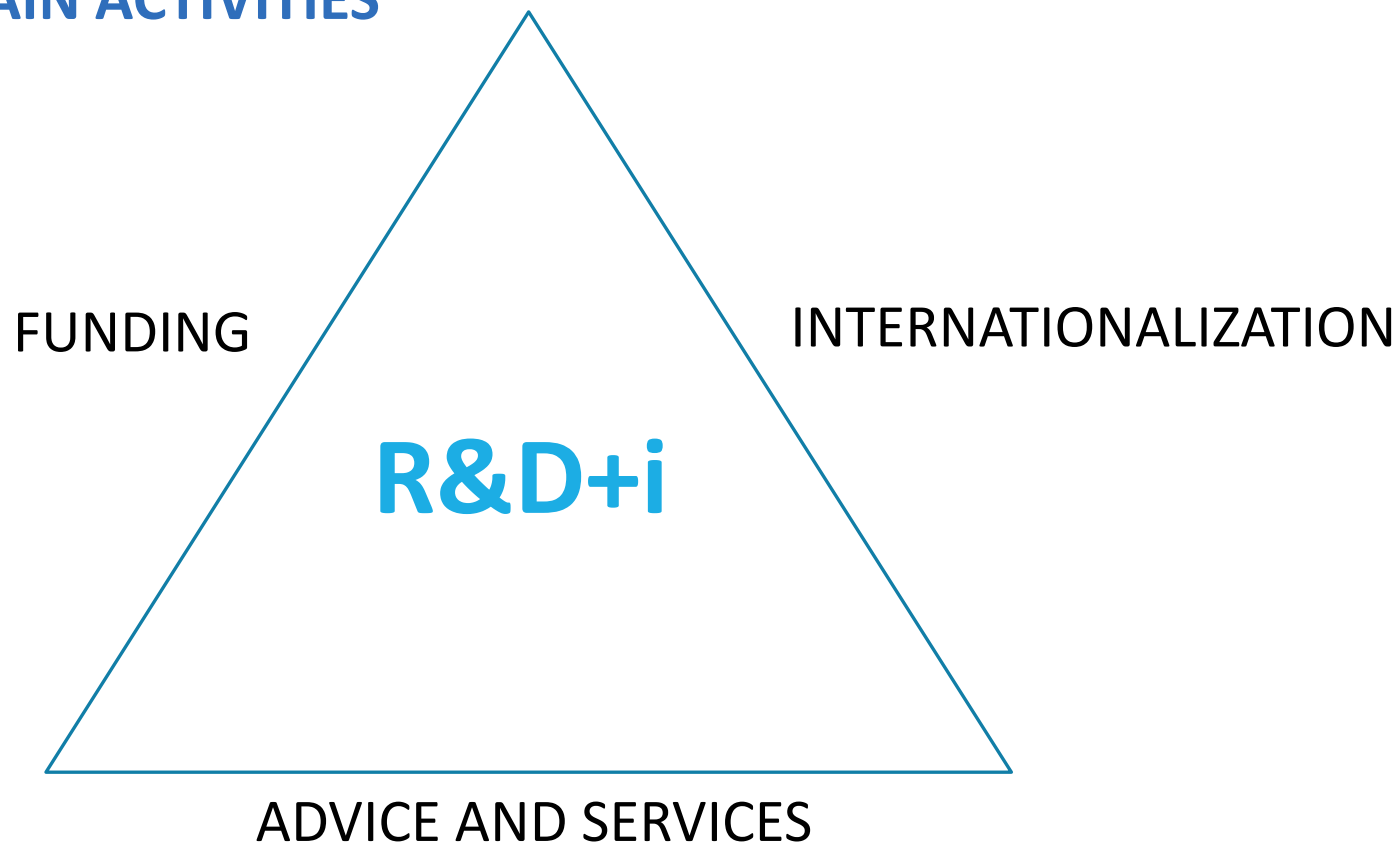


Business RTDI  
Technological modernization  
Internationalization  
Participation in International Programs



# CDTI, E.P.E. – Ministry of Science and Innovation of Spain

## CDTI'S MAIN ACTIVITIES





# CDTI, E.P.E. – Ministry of Science and Innovation of Spain

## RTDI funding

- Evaluation and funding
- Reports towards tax exemption

## Public Procurement of Innovation

- Scale up of technologies → Develop a prototype & test in a real situations

## RTDI internationalization

- Technological Cooperation: Eureka, Iberoeka, Eurostars, H2020, Bilateral
- Support to technological transfer: Foreign network

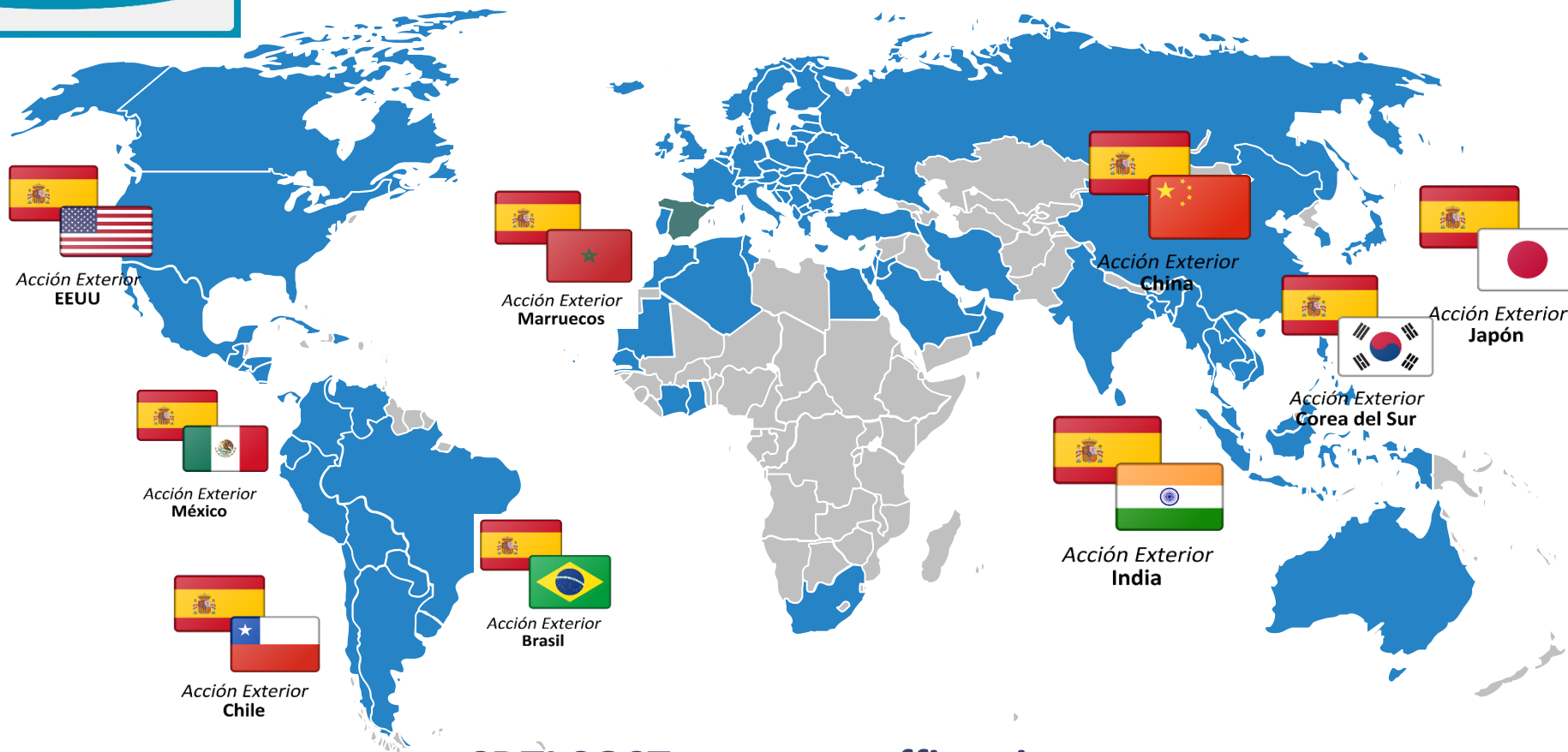
## Support to the creation and consolidation of new technology-based companies

- INNVIERTE
- Neotec grants

## Aeronautics and Industrial Returns Programmes

- Aeronautics RTDI
- Technological supplies: CERN/ESRF , Hispasat, Eumetsat, Spainsat.

# CDTI, E.P.E. – Overseas CDTI Offices



CDTI SOST overseas offices in :

Japan, South Korea, China, India, USA, Morocco, Chile, Brazil, Mexico, Brussels

<http://www.cdti.es/index.asp?MP=8&MS=155&MN=2>



# Japan - Spain Innovation Program (JSIP)

Japan

Spain

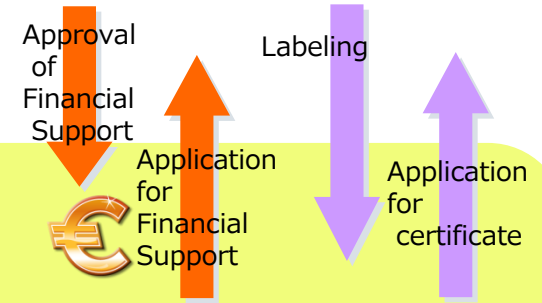
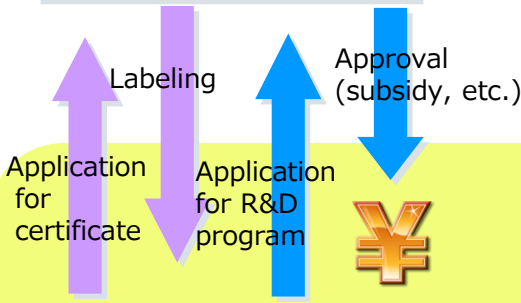


**Cooperation Agreement (December 2008)**

Eligibility examination

Eligibility examination

Certificate of Eligibility for JSIP Project



**Japan-Spain Joint Technology Development**

**Joint Research Agreement**

Japanese companies, research institutes, universities, etc.

Spanish companies

Collaborative development of new technologies, products, processes and services

**Markets**



# JSIP Projects

## CDTI Financial aid for Spanish companies

- ✓ Type : Soft loan + Grant (Non-Refundable Portion of the loan)
- ✓ Coverage : Maximum 85% of project budget
- ✓ Minimum Project Budget : €175.000
- ✓ Project Period: Max 24-36 months
- ✓ **Non refundable Tranche: 33 % of CDTI Loan amount(\*), JSIP Label is required**
- ✓ Refund Period : 10 years (grace period 2-3 years)
- ✓ Interest : One-year Euribor (fix)
- ✓ Technology Field : Multisectorial
- ✓ Application: Through out the year
- ✓ Spanish companies can also enjoy these conditions in case that Japanese partners join the project with their own fund, without a Japanese public grant, if the project get JSIP Label.

(\* ) The Non-Refundable Tranche is calculated on a loan amount (financial coverage) maximum of 75 % of the total budget approved by the CDTI Board Meeting. The excess of financial coverage up to 85% does not generate the Non-Refundable Tranche.



Hydrogen

水素が  
次世代エネルギー  
社会を切り拓く！



**GRACIAS**

**THANK YOU**

**ご静聴ありがとうございました**