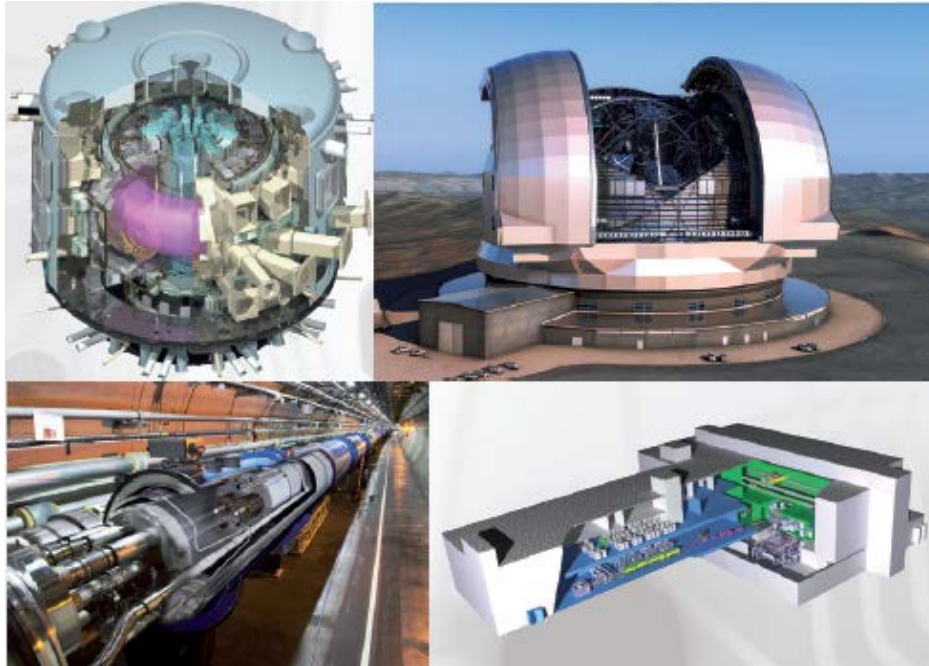


SPANISH BIG SCIENCE ILOs NETWORK



Belén del Cerro
Space and Technological Returns Department
CDTI (Centre for the Development of Industrial Technology)

Copenhagen, 26th February 2018

Index

1. **CDTI.**
Business Innovation financing agency
2. **CDTI Ecosystem**
3. **CDTI in Big Science**
4. **Spanish Industry in Big Science**
5. **Future plans**

1. CDTI. Business Innovation financing agency

Public Entity (Ministry of Economy, Industry and Competitiveness). Since 1977

Objetives:

- To foster the Spanish industrial competitiveness by funding national R&D projects
- To support to the creation and consolidation of technology-based companies
- To encourage the Spanish participation in international technological co-operation programs.
- To support technology transfer



Enhance Spanish companies' competitiveness and internationalization through innovation

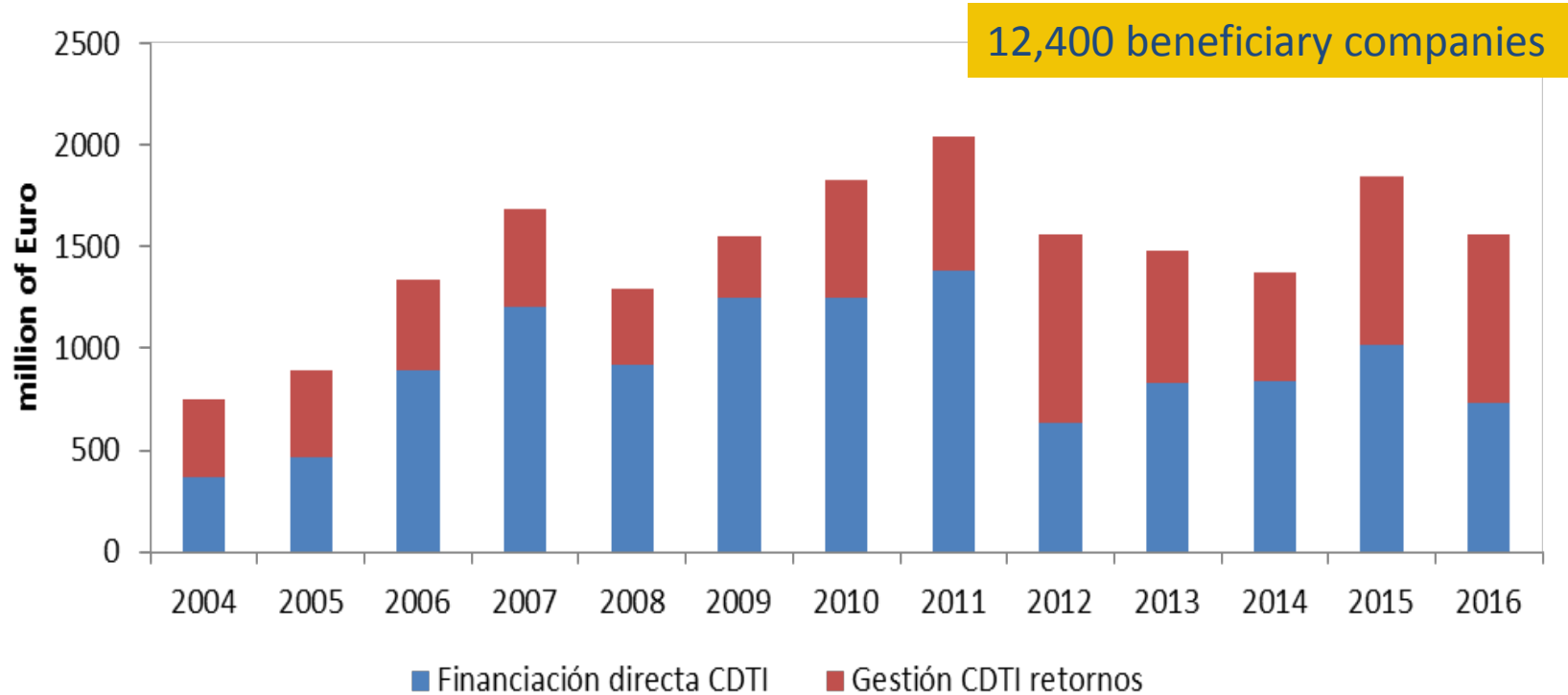
1.CDTI. Business Innovation financing

agency

Direct funding: EUR 11,795 million

Accumulated return: EUR 7,392 million

Direct and Indirect Funding R&D



* Provisional data on Framework Programme – H2020, Large Scientific Facilities and Aerospace programs.

2.CDTI Ecosystem

RTDI funding

- Evaluation and funding
- Reports towards tax exemption

Support to the creation and consolidation of new technology based companies

- INNVIERTE
- Neotec grants

RTDI internationalization

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

Space and Technological Returns

- Aerospace RTDI
- Technological supplies: CERN/ESRF, ILL, ESS, XFEL, ITER, ESO, SKA, Hispasat, Eumetsat, Spainsat.

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3. CDTI in Big Science

-CDTI host the Spanish ILOs network and has accumulated experience for over **25 years as ILOs for Big Science**

-Spain has been active in Space activities **starting in the early sixties**

-**25 people focus on Space and Big Science**

- **Full-time** professional managers
- **Management independence.** No conflicts of interest arising from participation in projects.
- **Open management and networking:** Service is provided to all types of participating entities. Support to all departments of the Spanish Government.
- **Great experience** in international and domestic environments: multidisciplinary team with a good knowledge of the national RTD&I system
- **CDTI Tools:** CDTI has a common database of more than **200 companies active in Big Science market**
- **Big Experience hosting international events organization:** SOFT 14(Symposium on Fusion Technology), ISFNT 11 (International Symposium on Fusion Nuclear Technology), Spain at CERN (2016), Spain at ESO(2015), Eureka Innovation week (2018)...

3. CDTI in Big Science

ASTRONOMY

PARTICLE PHYSICS

FUSION

• TOWARDS THE RESEARCH INFRASTRUCTURE (RI)

- Nominated ILO for the Member State
- Regular meetings between ILO-RI Procurement Office
- Advising Research Infrastructures on the national industrial capacities

• TOWARDS THE NATIONAL INDUSTRY

- Main point of contact for announcements of tenders & medium term plans
- Organisation of Industry Days, visits to the RI, etc.
- Supporting R&D projects
- Assisting companies in their understanding of the technical, contractual and financial requirements to become a supplier and helping them to form consortium
- Following up of awarding contracts

• TOWARDS THE SPANISH ADMINISTRATION

- Advise the Spanish Delegation on industry-related matters
- Participation at the RI Finance Committees
- Advising national funding agencies in the definition of in-kind contributions
- Analysis of industrial capacities for Spanish Research Infrastructure proposals



3. CDTI in Big Science- Space

- CDTI manages 85% of the Spanish technological and industrial interest related to the Spanish public investment in space

- **Jointly with the Spanish ministry CDTI manages the Spanish participation at ESA**



- CDTI also manages EU programmes

- National bilateral agreements: AEMET/Eumetsat , Hispasat

- Space projects management (EC):

Space Clusters **EPIC** (Electric Propulsion Innovation and Competitiveness) & **PERASPERA** (Plan the European Roadmap and its Activities for Space Exploitation of Robotics and Autonomy)



- International bilateral agreements: **NASA...**



- Outstanding projects management:

PNOT/INGENIO

SST (Space Surveillance and tracking)



4. Spanish industry in Big Science

Spanish capacities, more broadly ...

- More than 1.300 million € in contracts over the last 15 years, the last 5 of which account for 65% of the total return.
- More than 200 Spanish companies working for the Big Science market
- BSBF 2018:
 - Second country in number of delegates
 - > 35 exhibitor companies



5. Future plans

- Increase Big Science **georeturn**
- Release Big Science opportunities to more companies with a special focus on **SMEs**
- Enhance industry **collaboration** with laboratories, universities and scientific facilities at national and international level
- Foster collaboration in innovation, training and **exchange programmes** in Big Science Market and strengthen the relationship with ILOs of other countries (best practices exchange)
- **Plan to host international events:** ESA Ministerial(2019), next edition of Big Science Business Forum (2020)

THANKS!

@CDTIoficial

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