

**ESS  
Bilbao**



**EUROPEAN  
SPALLATION  
SOURCE**

# **ACCELERATE PROTOCOL**

## **ESS BILBAO-ESS**

### **Case 3**



# European Spallation Source ERIC

- ❖ International research infrastructure committed to building and operating the world's leading facility for research using neutrons.
- ❖ Host Countries: Sweden & Denmark
- ❖ The facility is built through In-Kind Contributions from Partners institutes from 13 ESS Member Countries.



# Spanish Contribution-ESS Bilbao

- ❖ Public Consortium of the Spanish and Basque Governments.
- ❖ ESS Bilbao brings knowledge and added value in particle accelerator and neutron scattering science and technologies by leveraging its In-Kind contribution to the European Spallation Source ERIC.
- ❖ Spain as member country of ESS has a unique position because all In-Kind contributions are channelled only through ESS Bilbao.
- ❖ ESS Bilbao is involved in all ESS technical areas (Accelerator, ICS, Target and Instruments)
- ❖ Spanish contributions have demonstrated that the investments by Spanish and Basque Governments have made positive impact on the local, national and international level.





❖ ESS Bilbao IKC to ESS around 50M€



MEBT



RF Klystrons



Modulator



Target wheel



Monolith vessel



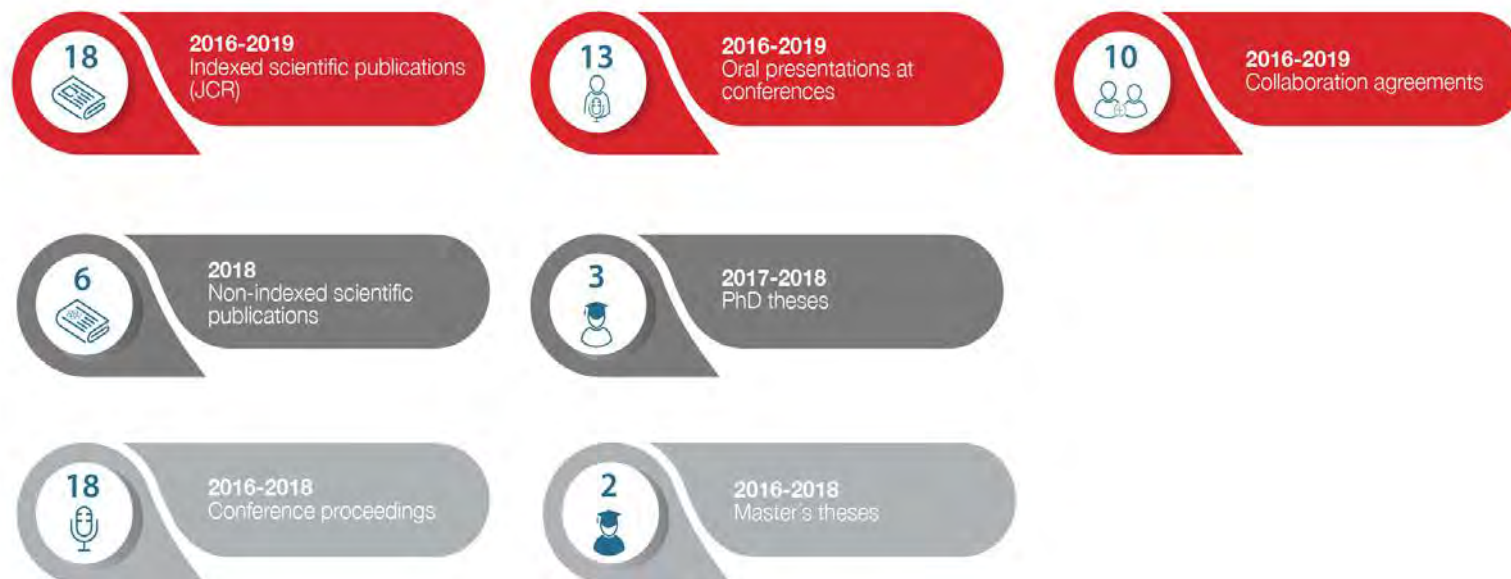
Miracles instrument

❖ ESS Bilbao's suppliers

contracts



## ❖ Publications



## ❖ Educational Collaborations





- ❖ Collaboration with industry
- ❖ Industrial users and industrial services



## ❖ Key achievements



# Thanks for your attention!!!



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