



## FROM OPEN SCIENCE TO OPEN INNOVATION

DEVELOPING BREAKTHROUGH TECHNOLOGIES FOR SCIENCE AND SOCIETY

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Finance Committee, 18-19 June 2019

Open Council, 21 June 2019

## ATTRACT Results update, Status and next steps



- ATTRACT stands for bre**A**k**T**hrough innova**T**ion p**R**ogr**A**mm**e** for a pan-European detection and imaging e**C**osys**T**em.
- It focuses on long-term detection and imaging technologies development enabling fundamental frontier research.
- It stimulates the co-development of these technologies between the European Research Infrastructures, industry (especially SMEs) and innovators and entrepreneurs (MSc-students).
- A presentation was given to Restricted Council in September 2015 and an update to FC and Council in March 2017.

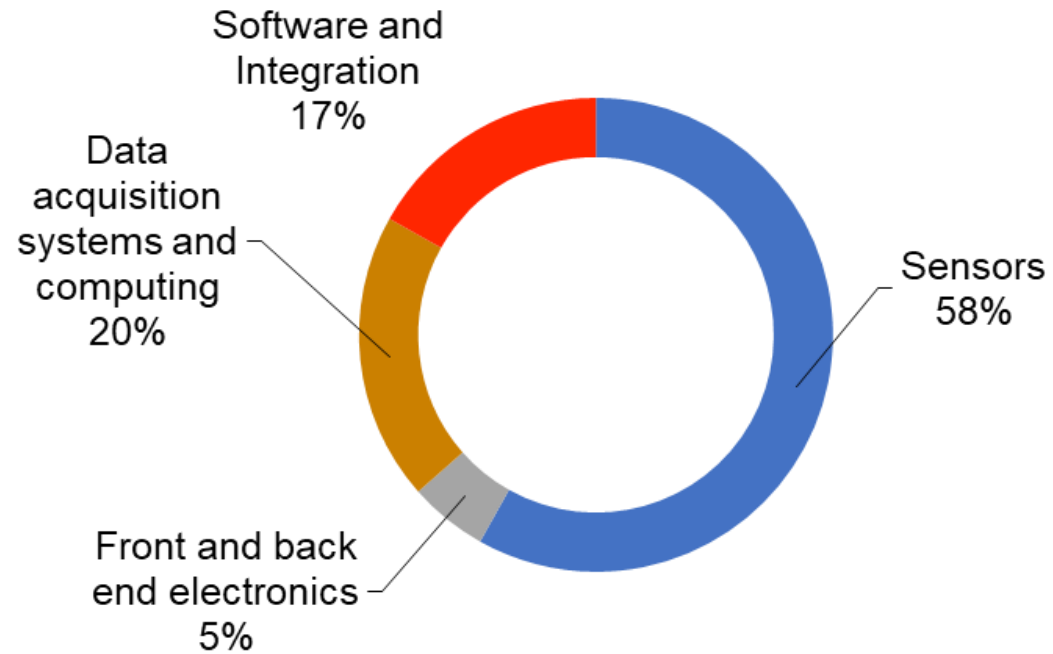


# ATTRACT-phase 1 status

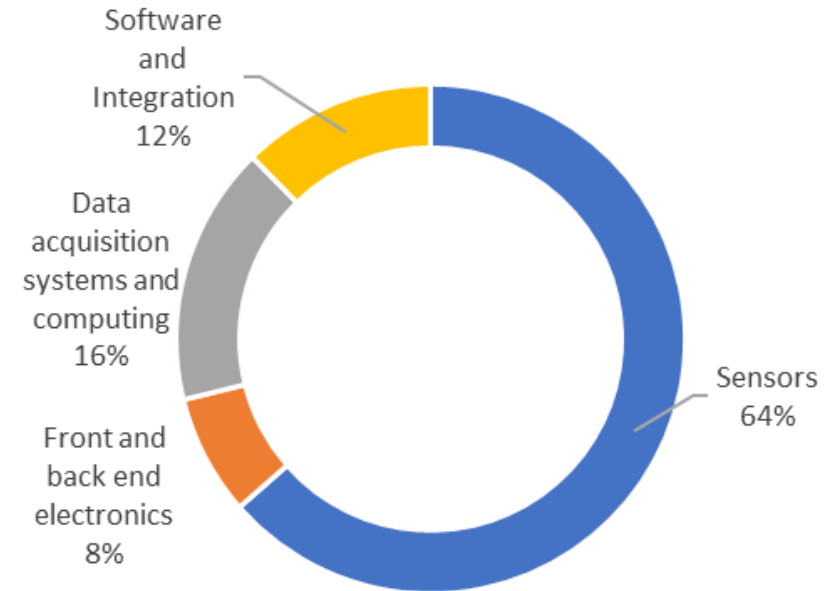
- 170 projects were selected and received each 100k euros.
- A list and summaries of funded projects can be found at <https://attract-eu.com/selected-projects/>.
- Out of 100 proposals involving CERN as a partner, 19 were selected for funding.
- Many of these projects are realised in collaboration with industry and specially SMEs.

# ATTRACT Call:

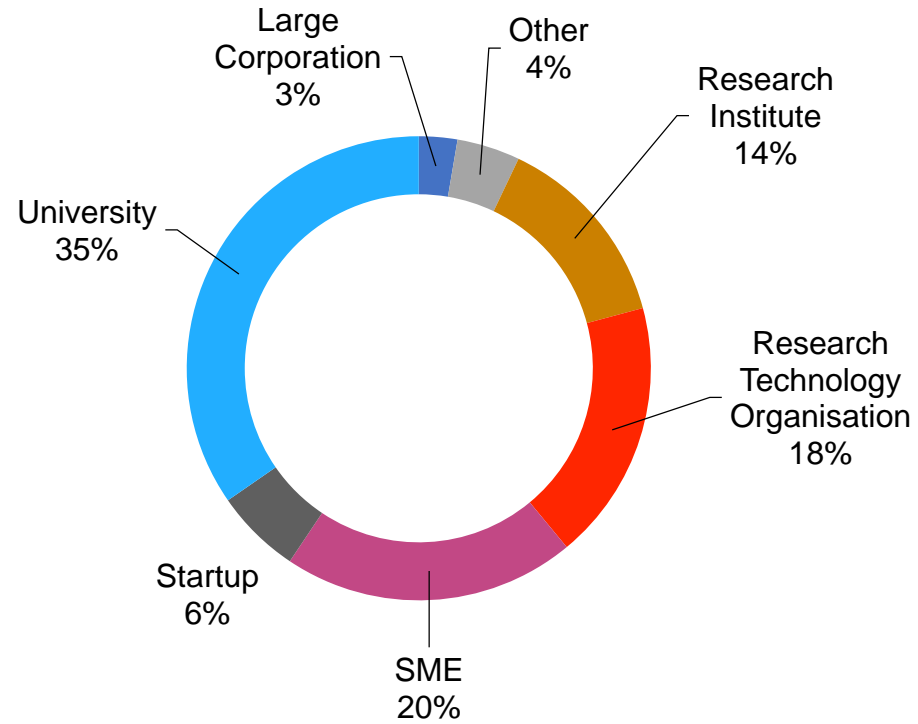
## Total of 1211 proposals received and 170 selected



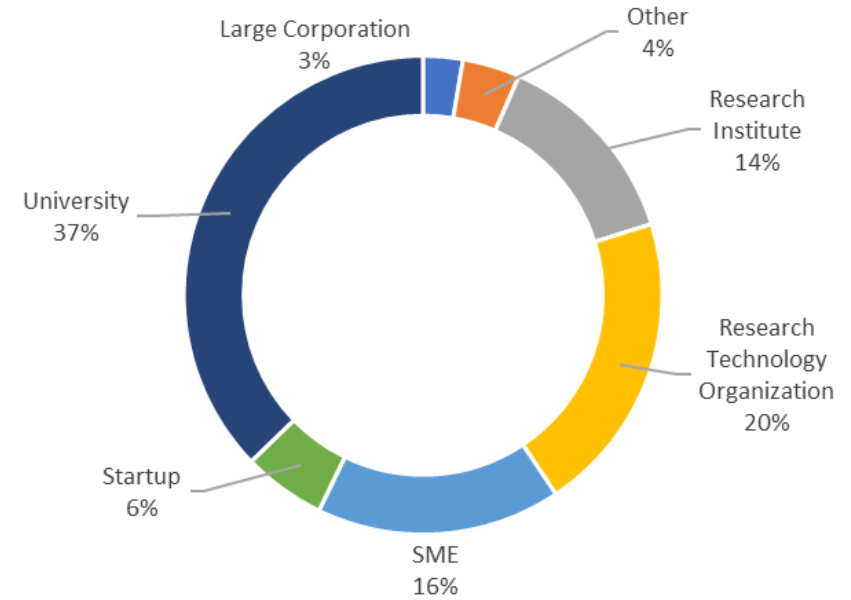
Domains of  
received  
proposals



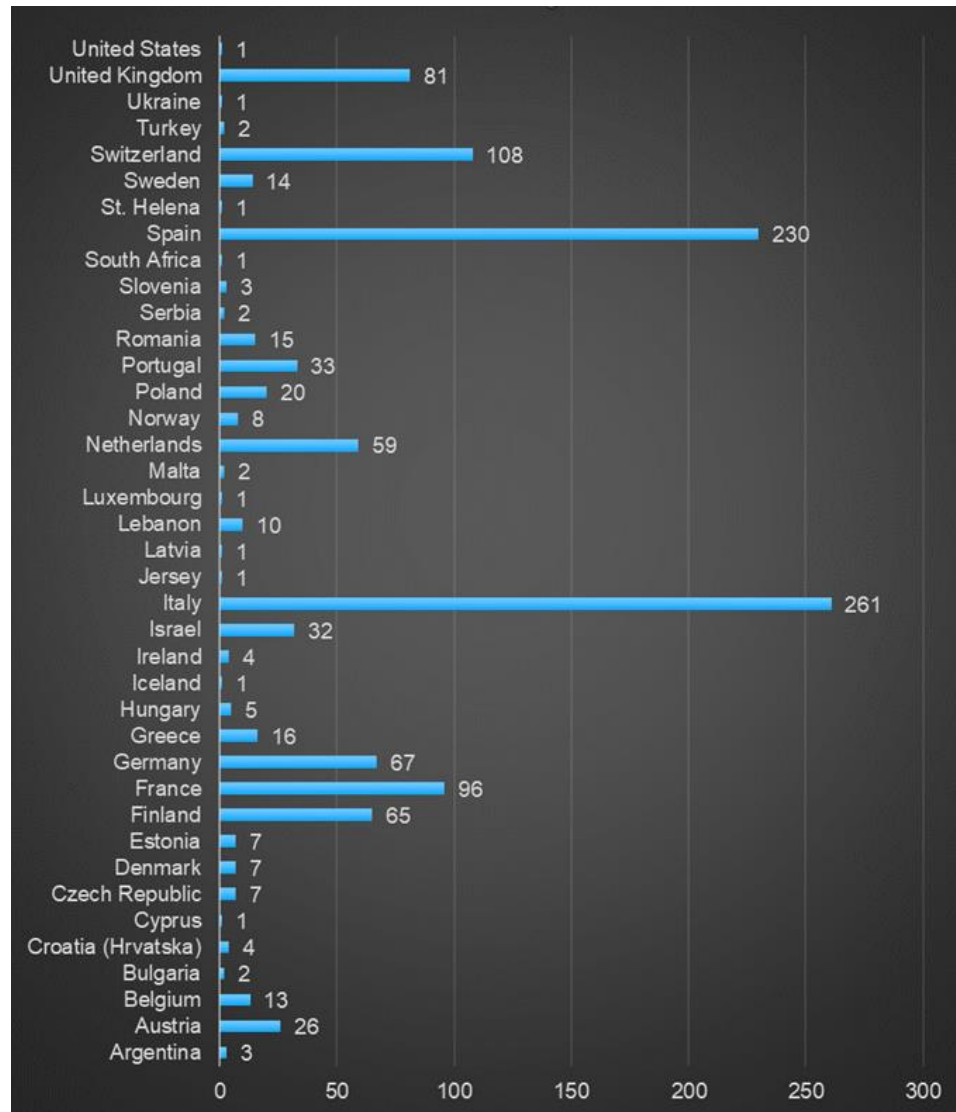
Domains of  
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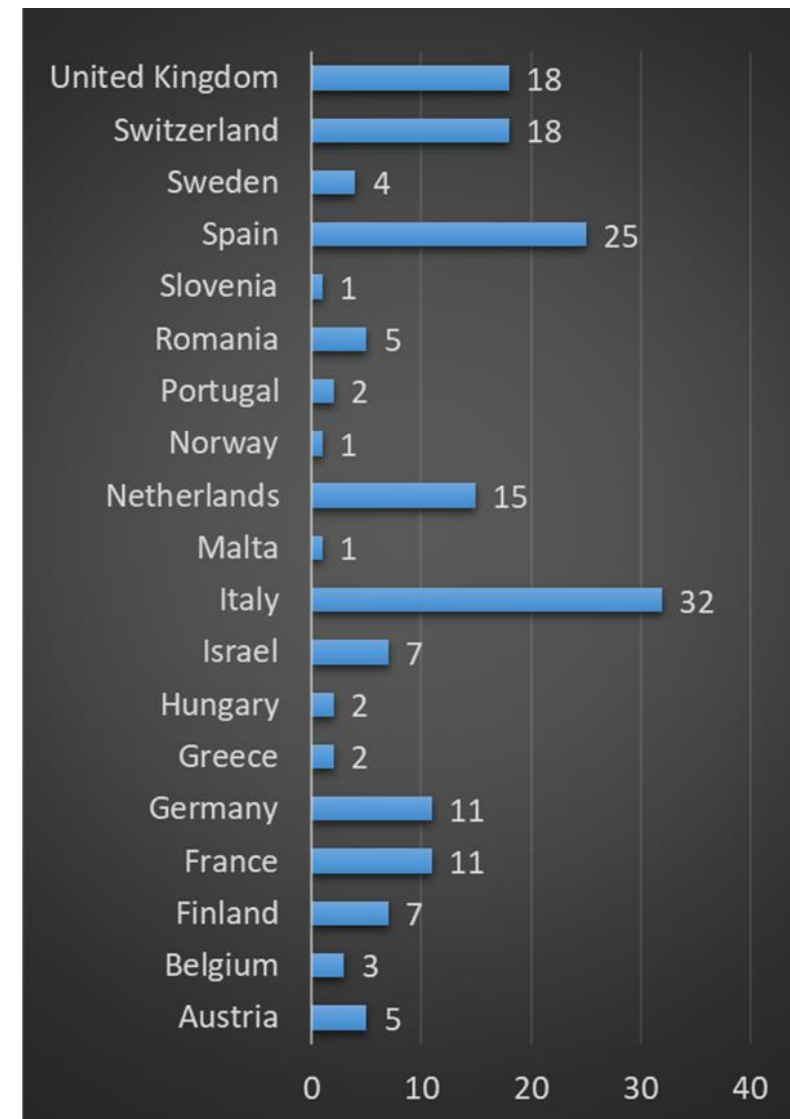
Organisation type  
of received  
proposals



Organisation type  
of selected  
proposals



Country distribution of  
received proposals



Country distribution of  
selected proposals

# ATTRACT next steps and phase 2

- The projects will develop their breakthrough detection and imaging concept(s) during one year and present them at the ATTRACT Final Assessment Conference scheduled on September 21-22, 2020.
- The EC (DG RTD Research Infrastructures) made a provision for phase 2 in the next H2020 Work Programme to which the ATTRACT Consortium will apply :
  - EC call *INFRAINNOV-03-2020: Co-Innovation platform for research infrastructure technologies (35 M euros)* with explicit reference to ATTRACT.
- ATTRACT phase 2 is intended to provide substantial additional resources to a number of selected projects from phase 1 for further development.

# ATTRACT-beyond H2020

The EC has expressed an interest to discuss with the ATTRACT Consortium the continuation and upscale of ATTRACT in the next Framework Programme Horizon Europe, and in particular, to explore the integration of ATTRACT into the envisioned European Innovation Council as well as the European Investment Fund.



Thank you

# ATTRACT: who?

## Promoting Organizations

- European Organization for Nuclear Research (CERN).
- European Molecular Biology Laboratory (EMBL).
- European Southern Observatory (ESO).
- European Synchrotron Radiation Facility (ESRF).
- European X-Ray Free-Electron Laser (EuropeanXFEL).
- Institut Laue-Langevin (ILL).
- Aalto University.
- European Industrial Research Management Association (EIRMA).
- ESADE Business School.

## ATTRACT: Timeline (Estimation)



(Mini-ATTRACT= prototype for Maxi-ATTRACT)  
Implementation Instrument: Horizon 2020 calls  
Submission of the call to EC: March 2017

(Maxi) ATTRACT  
Implementation Instrument: FP9

ATTRACT implementation is proposed as a  
phased approach.

# ATTRACT: Phased approach (2)

## Mini-ATTRACT

- **Phase 2 (2020+)**
  - Submission expected in a call in the next H2020 Work Programme 2018-2020.
  - The selected projects out of the 180 of Phase 1 will receive additional funding. The EC decides which ones.
  - The funding will depend on how much the EC allocates to the expected call in H2020 2018-20. Could be 3-5 M euros each to selected 6-7 projects).

## **ATTRACT: Phase approach (3)**

### Maxi-ATTRACT

- From 2021 and beyond (within next Framework Programme, FP9).
- Mini-ATTRACT phases 1 and 2 designed to serve as a prototype for Maxi-ATTRACT.
- It is difficult today to say what Maxi-ATTRACT will look like (the model, governance, legal framework, etc.) as we don't yet know what FP9 will look like.
- Max-ATTRACT will also benefit from the experience gained during Mini-ATTRACT.
- An independent Project Advisory Committee (PAC) will start exploring possible avenues.



# Mini-ATTRACT Phase-1 Governance Structure



- 1 |** Are the project proposal objectives adequately and clearly defined?
- 2 |** Are the project proposal objectives adequately and clearly explained?
- 3 |** Is the technology proposed for development clearly an advance on the state of the art?
- 4 |** Will the scientific use increase knowledge in the scientific discipline(s) mentioned?
- 5 |** Will the expected advances have the potential to contribute to improved or new industrial applications?
- 6 |** Will the potential scientific and/or industrial applications benefit European society and citizens?
- 7 |** Are the project implementation steps fully explained?
- 8 |** Do the proposed implementation steps show that the anticipated results are achievable within twelve months?
- 9 |** Does the budget breakdown correspond to the presented implementation steps and is it reasonable?
- 10 |** Does the proposal support openness?

