

# THE ATTRACT INITIATIVE

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# What is ATTRACT?

- ATTRACT (breAkThrough innovaTion pRogrAmme for deteCtor / inrAstructure eCosysTem)
- A proposal for a dedicated EU-funded program to co-develop with industry new radiation sensor technologies for scientific purposes and for addressing societal challenges in the domains of health, sustainable materials and information and communication technologies (ICT)
- Bringing together (mostly) Small and Medium sized Enterprises (SME) and the detector R&D communities from the fields of physics, research, astronomy, space exploration, nuclear engineering, and medical imaging
- Part of the Horizon2020-programme, cutting across several DGs (research, energy, connect, sancos, enterprise)
- Note: This is not an ATLAS initiative, rather a collective effort launched by members of detector R&D communities, also outside HEP

# Why ATTRACT?

- The radiation sensor R&D community or communities have found it difficult to find a suitable platform within the Framework (7) programme that facilitates the specific use of radiation detectors for addressing societal challenges
- The detector R&D community in e.g. HEP has many ideas of suitability of their technologies in other fields, but few contacts and mechanisms available to reach out
- Upgrading some of the present physics research facilities (e.g. LHC at CERN, CLIC) could make good use of complementary R&D funding possibilities offered by H2020 programme
- The European industry, in particular SMEs, do not have available the necessary supporting (scientific) infrastructure to support advanced technological innovation efforts

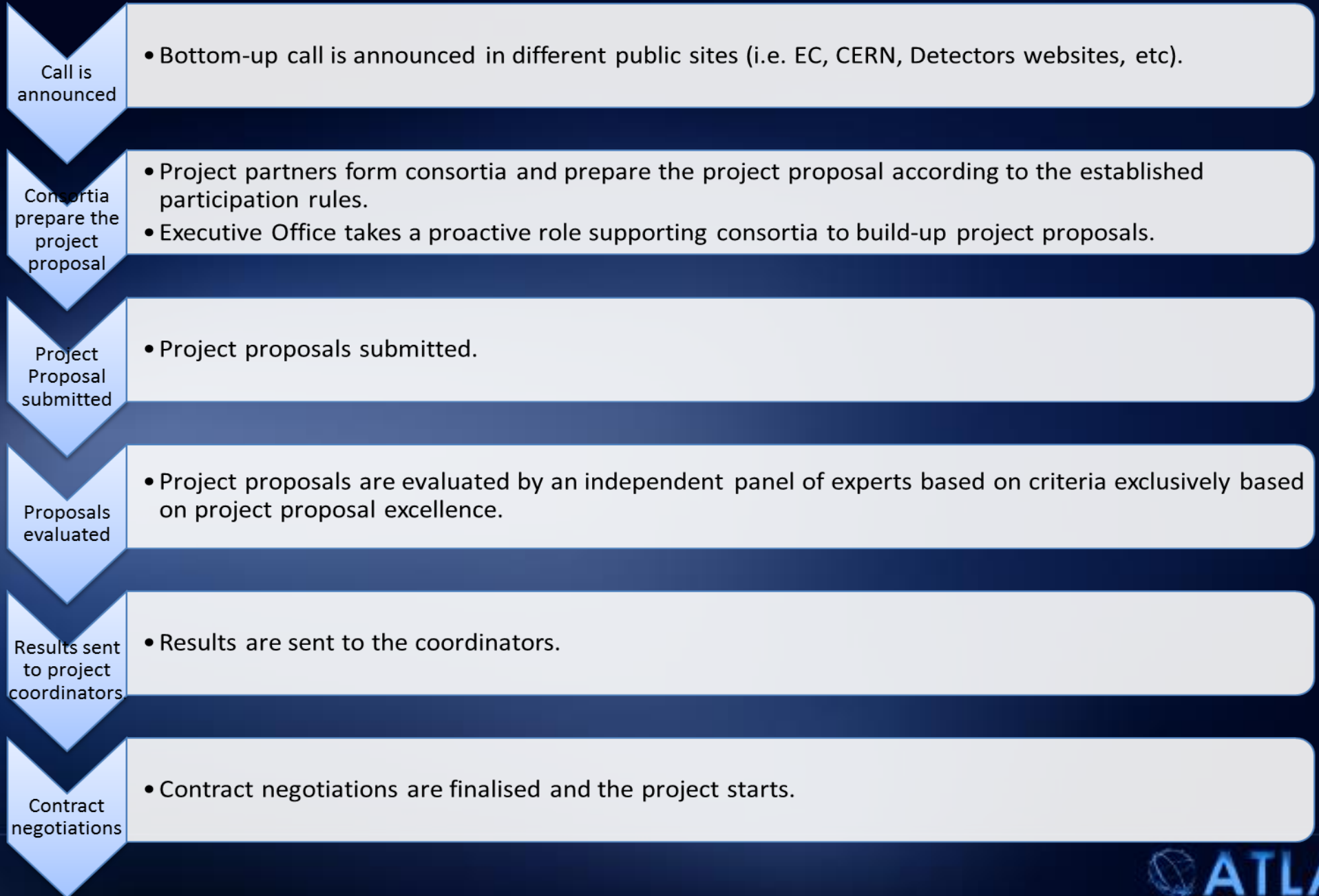
# Why ATTRACT?

- The EU intends to **externalize 75%** of the financial and project management of the H2020 programme
- CERN could be ready to **help to administrate** the effort, **if requested by the detector R&D community at large and provided it is willing, together with industry, to govern the process** of work program definition, calls and the reviewing

# How ATTRACT?

- ATTRACT needs to be built upon collaborative spirit of open science and innovation. Here CERN's experience and available infrastructure and EU-collaborative framework could be useful, if needed
- The detector R&D community and industry (SME) needs to get themselves organized to set up the necessary governance structures and guidelines
- The socio-economic research community would be asked to help to establish guidelines how to build up an effective Innovation Ecosystem, given the open environment and basic research goals of the scientific community/communities
- The right governance structure needs to be established (PPP?)
- The size of detector R&D related calls could reach 1% of H2020 by 2021

# Process Description



# Summary

- ✓ ATTRACT initiative as a practical proposal on how to bring together Small and Medium sized Enterprises and the detector R&D communities from the fields of physics, research, astronomy, space exploration, nuclear engineering, and medical imaging within the Horizon 2020 programme

Grazie !