

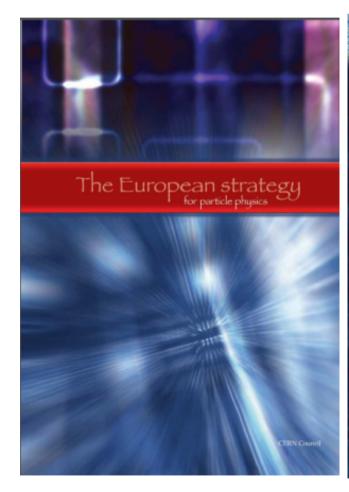


Job de Kleuver, APPEC ET-symposium, Univ. Liege, 31 January 2018



CERN

ESO/ESA

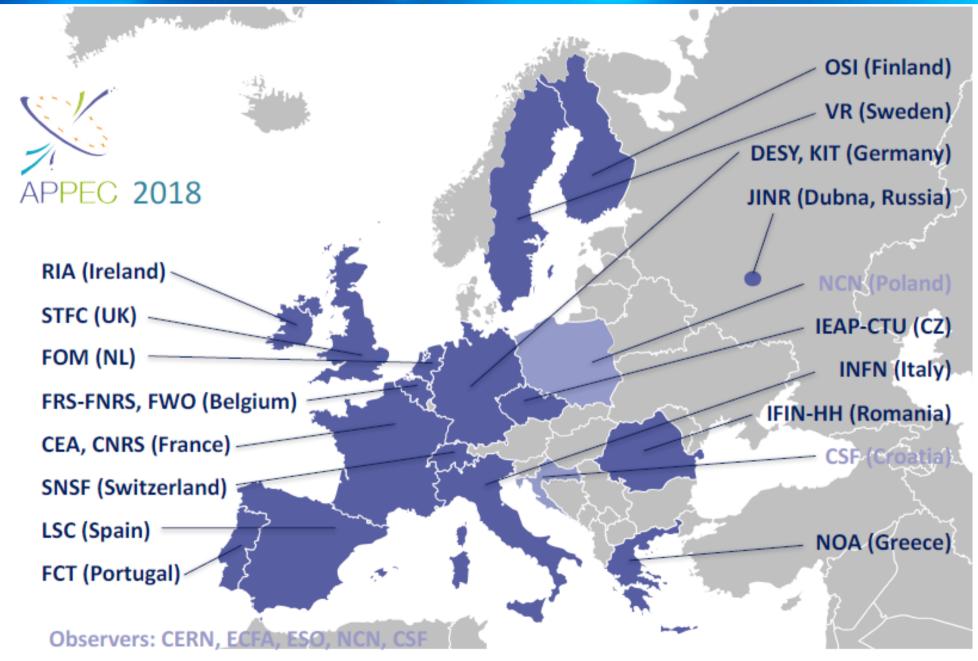






APPEC









General Assembly

Catherine De Clercq Laurent Favart Jorgen d'Hondt – ECFA observer

Strategic objectives

- Coordination of European Astroparticle Physics
- Develop and update long term strategies (roadmap)
- Express collective views on APP in international fora

Implementation objectives

- Coordination between existing/developing national activities
- Convergence of future large scale projects/facilities
- Organisational advice for implementation of large facilities
- Launch common calls funded by a (virtual) common pot





Roadmap 2017 – 2026

21 recommendations



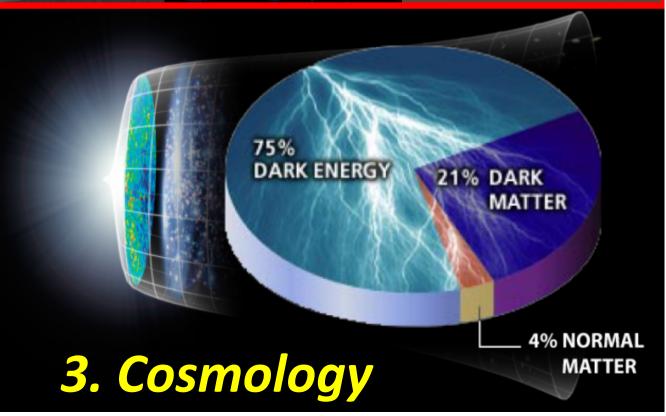


1. High-energy Universe: multi-messengers

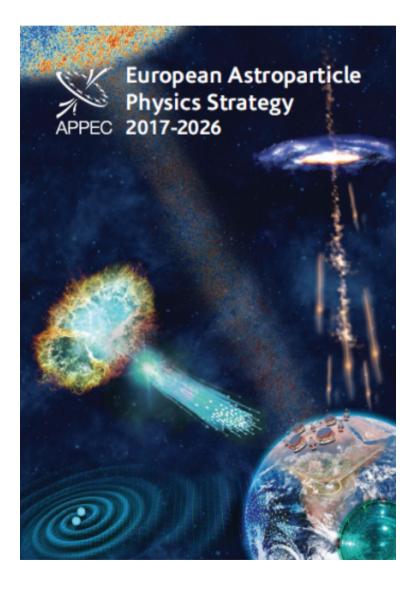


2. Neutrino's









Organisational issues

- European Commission
- European Coordination
- Global collaboration/coordination
- Particle physics & Astronomy
- Inter-disciplinary opportunities

Societal issues

- Gender balance
- Education & Outreach
- Industry



Crucial ingredients

community EU: few 1000

scientists

science

excellent

technology

state-of-the-art

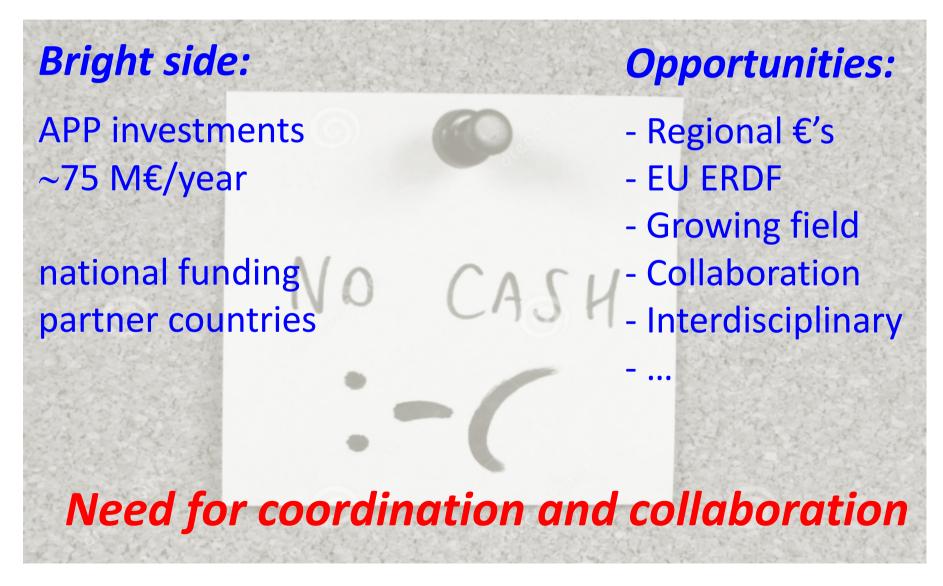


APPEC's "own" annual cash budget: only 80 k€



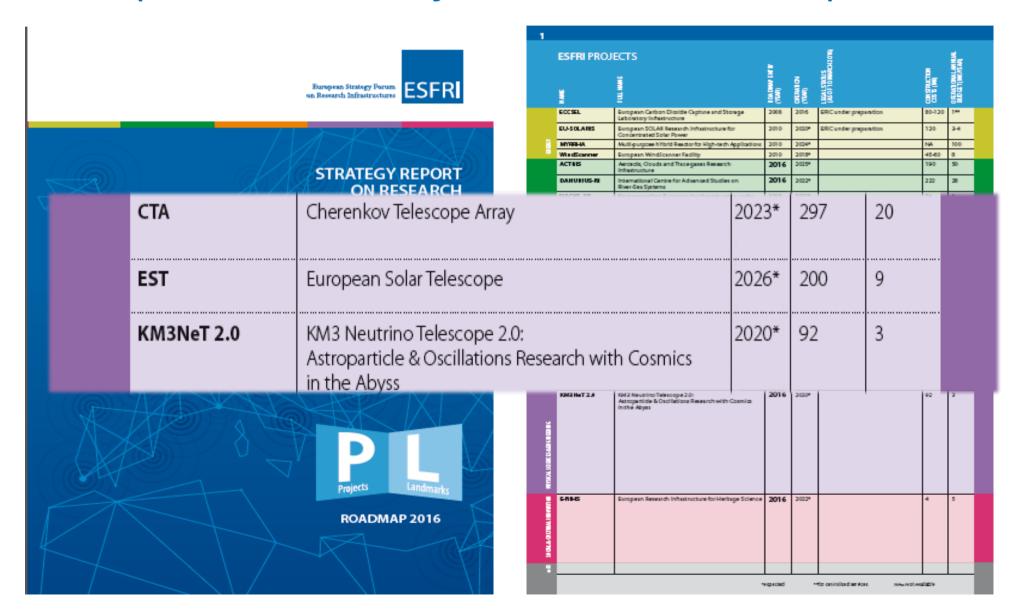


APPEC's "own" annual cash budget: only 80 k€





European research infrastructures roadmap: ESFRI







Collecting European Funding

Czech Republic

The Kingdom of Denmark

The Federal Republic of Germany

The Republic of Estonia

The French Republic

The Italian Republic

Hungary

The Kingdom of Norway

The Republic of Poland

The Kingdom of Sweden

The Swiss Confederation

5,52 M EUR

230 M EUR

202,5 M EUR

4,61 M EUR

147 M EUR

110,6 M EUR

17,6 M EUR

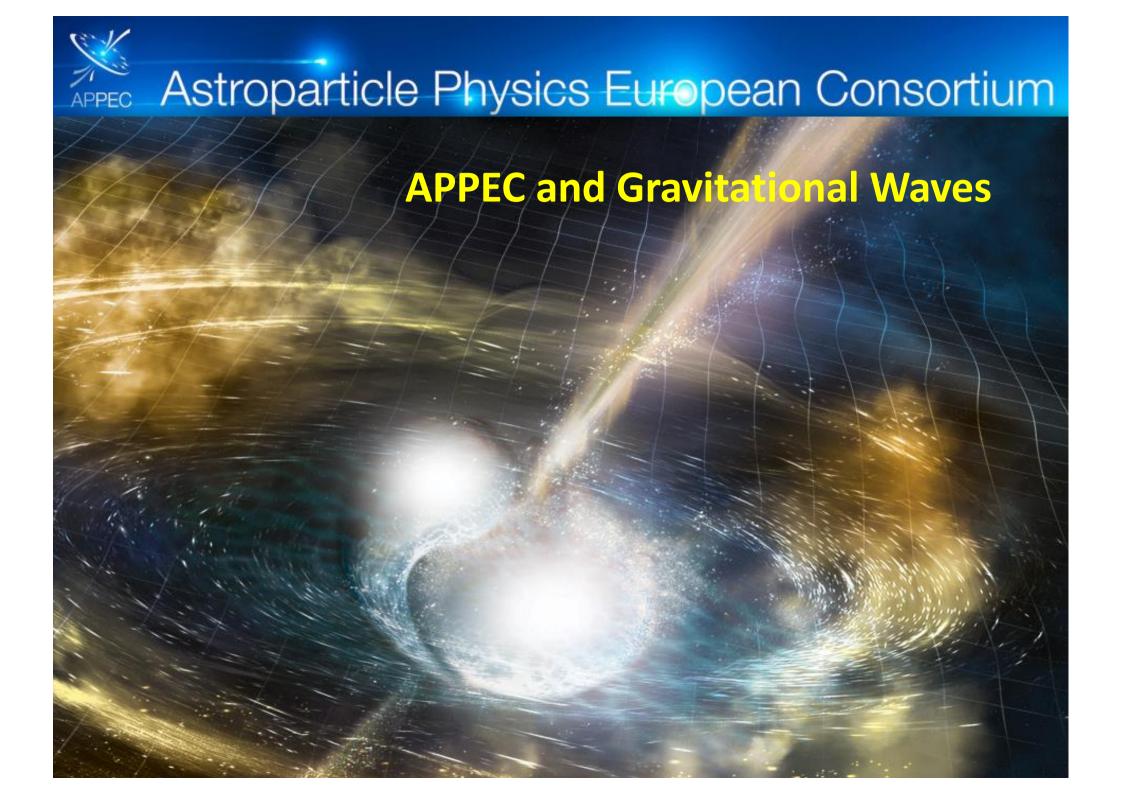
46,07 M EUR

33,2 M EUR

645 M EUR

64,5 M EUR

European Spallation Source ~ 1500 M EUR





APPEC and Gravitational Waves (1)





With its global partners and in consultation with the Gravitational Wave International Committee (GWIC), APPEC will define timelines for upgrades of existing as well as next-generation ground-based interferometers.

APPEC strongly supports further actions strengthening the collaboration between gravitational-wave laboratories.



APPEC and Gravitational Waves (1): actions



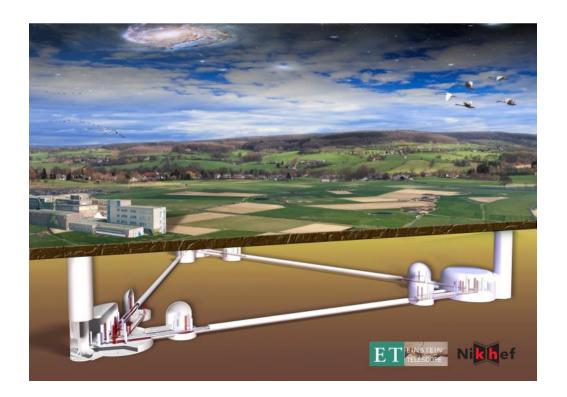


- Explore interest of new groups/countries to join the European GW research community
- See Advanced Virgo as a gateway to Einstein Telescope
- Develop a vigorous R&D program for present (Advanced LIGO/Virgo) and future (ET) detectors



APPEC and Gravitational Waves (2)

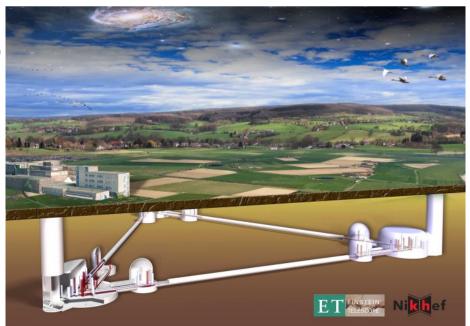
It also strongly supports Europe's next-generation ground-based interferometer, the Einstein Telescope (ET) project, in developing the required technology and acquiring ESFRI status.





APPEC and Gravitational Waves (2): actions towards Einstein Telescope

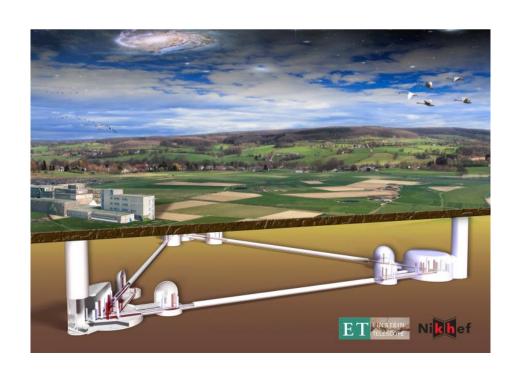
- Support GWIC developing an exciting science case (global)
- Collective European view on the level of research organisations and funding agencies
- Preparations for an ESFRI-proposal in 2019, including
 - Governance model mature
 - Site selection bid procedure (2020/21) and at least site candidate(s)





APPEC and Gravitational Waves (2): actions towards Einstein Telescope

- Support forming an ET-collaboration and preparation of a Lol
- Influencing frame work programmes EU (H2020 and FP9)
- Develop strategies (on European or global level) on:
 - Computing
 - Socio economic impact
 - Spin offs, technology transfer
 - Creating Jobs
 - Impact on region
 - Value of global collaboration

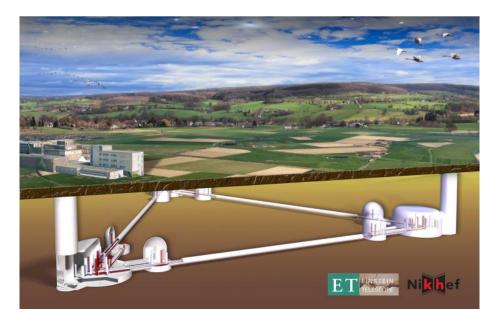




My messages for your Einstein Telescope meeting:

- Extraordinarily exciting time for our comprehension of the Universe
- Attraction power to students, young researchers and technicians
- Potential high impact on growth and innovation

 Industry, politics and science have to act in consort









APPEC and Gravitational Waves (3)

In the field of space-based interferometry, APPEC strongly supports the LISA proposal.

