

# APPEC Roadmap Launch event

The APPEC Roadmap is public:

<http://www.appec.org/roadmap>

Its implementation will be discussed in a Launch Event in Brussels on Jan 9, 2018.

Your participation is important!

<https://indico.nikhef.nl/event/767/>

Interested CHIPP members, SNSF and SEFRI are invited to attend.

Program:

In the plenary morning session The new APPEC strategy will be presented, addressing scientific issues and an update of the long term scientific strategies. Crucial organisational aspects and societal issues like global collaboration, community building, gender balance, education, public outreach and relations with industry will be discussed.

There will be a presentation by **Robert Jan Smits, the EC Director General of DG RTD** and a keynote talk about the exciting prospects of Gravitational Waves science and more.

The one-day event will include an interactive and lively afternoon programme for scientists, policy makers and representatives of funding agencies discussing the recommendations and how to implement them between all participants. You are kindly invited for active participation and bringing up ideas.

On Nov 22, le Joint Secretariat Meeting is at DPNC to define the program.

## ***Scientific issues – large-scale multi-messenger infrastructures:***

*supports CTA realisation and its long-term operation*

*endorses KM3NeT ambition to realize a large volume neutrino detector by 2020 and a dedicated low energy detector for mass hierarchy. Looks forward for positive USA decision for IceCube-Gen2.*

*UHECRs: AugerPrime by 2019;*

*GW: Einstein Telescope*

## ***Scientific issues – medium-scale:***

*DM: continue R&D and diverse program towards convergence in 2019 on a strategy to realize one ultimate 50 ton LXe detector (DARWIN) and Argo (one LAr 300 ton detector)*

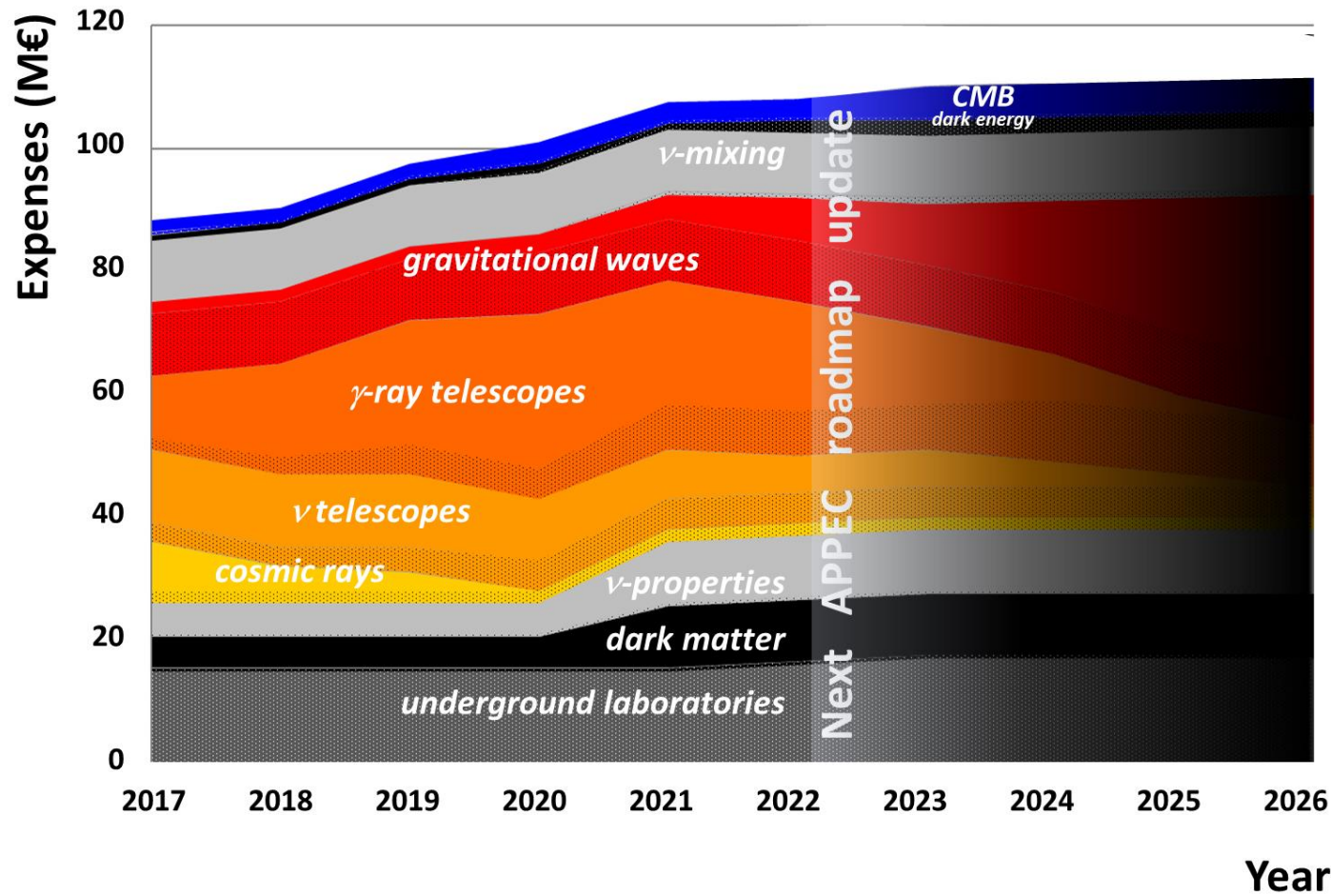
*Neutrino less Double beta decay: converge on a roadmap for next generation ton-scale detectors by 2020*

## ***Synergy with astronomy, particle physics and cosmology :***

*APPEC endorses EU participation in DUNE LBL, Hyper-K and JUNO reactor neutrino*

*Dark Energy: APPEC supports EU led satellite mission such as COrEe and complementary ground bases initiatives in USA*

*Cooperation between Underground labs*



Projected annual capital investment – *instrument prototyping and construction, excluding manpower* (open areas) – and annual running costs – *consumables and shift taking expenses i.e. travel and manpower* (shaded areas) – anticipated from the European astroparticle physics funding agencies required to realize the APPEC *European Strategy for Astroparticle Physics*. Costs related to the actual scientific exploitation (data calibration, analysis, interpretation, publication, etc.) are not considered in this projection. Also excluded from this projection are other, often substantial, contributions from regional and EU structural funds (mainly KM3NeT and CTA), from European astronomy (all space-based instruments and CTA), from European particle physics (DUNE) and contributions from our non-European partners (in particular large  $\nu$ -mixing infrastructures). The uncertainties in this projection increase rapidly with the calendar year.