

What is Horizon 2020?

- *H2020* is the EU's new €80bn (\$A115bn) research and innovation programme which runs from 2014–2020, with an increase in funding of ~27% on the previous budget period.
- *H2020* is the world's largest and most open financial programme for research and innovation and provides abundant opportunities for new bilateral research and innovation cooperation for the benefit of society.
- *H2020* provides more support for innovation and close-to-market activities than in the past; it focuses strongly on creating business opportunities and innovative products that can be commercialised.
- *H2020* should not be considered in isolation from the EU's broader policy framework to build a resilient a forward-looking economy. Indeed it is integral to it.
- *H2020* invests in growth and job creation in Europe and in international partner countries.
- The EU is looking to double cooperation with international partner countries globally under *H2020* and Australia is expected to be a significant partner for this objective.
- *H2020* provides access to European excellence and innovation.
- *H2020* tackles societal challenges to improve citizens' quality of life.

Overview of Horizon 2020

Excellent Science (€24.4bn)	Industrial leadership (€17.0bn)	Societal challenges (€29.7bn)
<p>European Research Council (ERC)</p> <p>Future and Emerging Technologies</p> <p>Marie Skłodowska-Curie Actions (MSCA)</p> <p>Research Infrastructures</p>	<p>Leadership in Enabling and Industrial Technologies (LEITs)</p> <p>Access to risk finance</p> <p>Innovation in SMEs</p>	<ol style="list-style-type: none"> 1) Health, demographic change and wellbeing 2) Food security, sustainable agriculture and forestry, marine and maritime and inland water research, and the bioeconomy 3) Secure, clean and efficient energy 4) Smart, green and integrated transport 5) Climate action, environment, resource efficiency and raw materials 6) Inclusive, innovative and reflective societies 7) Secure societies

Collaboration with Australia

- Over the past 20 years, Australian participation in previous EU Framework Programmes (FP) has grown strongly: from the 53 collaborative research projects with Australian partners during FP5 to 169 signed projects under the recent FP7 (2007–13).
- While the number of projects may not be that large, the total investment in the projects involving at least one Australian partner in FP7 is over €1.6 billion (\$A2.4 billion) with over €1 billion (\$A1.5 billion) invested by the European Commission and €67 million (\$A100 million) coming from Australian sources.
- Under FP7 there have been 157 International Marie Curie Fellowships involving Australia (76 incoming and 81 outgoing) and 71 IRSES projects (257 incoming / 538 outgoing movements).
- Australia ranks 9th among the non-EU countries participating in FP7 and Australian research organisations have a higher rate of success in their applications – nearly 28% compared to 23% for all non-EU countries.

Some practicalities about collaboration

- Partners in Australia, as a 'high income country', need to bring their own funding to self-finance their parts of the joint collaborative research projects.
- With a smaller contribution, they get access to a much bigger research project, its results and networks.
- As an EU instrument, a minimum of 3 different partners from 3 different countries in Europe need to be in the consortium, with one taking the role of the project coordinator.
- Any additional partners from 'low income countries' will be funded by the EU.
- *H2020* is based on thematic calls for proposals.
- For the first calls (2014/2015), there are 12 areas under *H2020* open with calls totalling €15bn.
- Proposals must be highly competitive and well managed; they are evaluated by independent external experts.
- *H2020* guarantees and protects Intellectual Property Rights (IPR) which remain with project partners. Before a project is signed off, IPR arrangements must be agreed between all partners involved in the project.
- Under Marie Skłodowska-Curie Actions opportunities to receive and send fully resourced bright researchers are available with funding available through the European host institution.
- European Research Council grants (Starting, Consolidator and Advanced) are open to Australian researchers as long as they work at least 50% of their time in Europe.

Key sources of information on H2020

All about H2020 itself: www.ec.europa.eu/horizon2020

Participant Portal - dedicated one-stop-shop portal for research funding:

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/index.html>

Connecting Australian European Science & Innovation Excellence (CAESIE) – bilateral project to facilitate EU–Australia collaboration, especially for SMEs: <http://www.caesie.org>

Community Research and Development Information Service (CORDIS) – great source for information on past projects: <http://cordis.europa.eu/>

Destination Europe - a forum for European research organisations and funders to present the opportunities they offer to researchers and innovators from anywhere in the world:

<http://ec.europa.eu/research/iscp/index.cfm?lq=en&pg=destinationEurope>

EURAXESS - European Researchers Mobility Portal:

<http://ec.europa.eu/euraxess>

H2020 Online Manual:

http://ec.europa.eu/research/participants/docs/h2020-funding-guide/index_en.htm

Specific Programme:

http://ec.europa.eu/research/participants/data/ref/h2020/legal_basis/sp/h2020-sp_en.pdf

Rules for Participation:

http://ec.europa.eu/research/participants/data/ref/h2020/legal_basis/rules_participation/h2020-rules-participation_en.pdf

Work Programme for your areas of interest:

<http://ec.europa.eu/programmes/horizon2020/en/h2020-sections>

Calls for Proposals for your areas of interest:

<http://ec.europa.eu/programmes/horizon2020/find-your-area>

Become an Evaluator:

<http://ec.europa.eu/research/participants/portal/desktop/en/experts/index.html>

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