Canada and the EU

partners in research excellence

Cooperation: from strength to strength

What's next?

Flagship calls now open

- Health
- Transport
- Nanosafety and technologies for global healthcare

Flagship calls open in 2018

- Energy
- Marine and Arctic
- Migration

The story so far

Aviation

- Joint flight tests of high-altitude ice crystals
- Joint H2020 calls on composites, nanocarbon, hydrophobic coatings and on additive manufacturing
- Canadian participation in CleanSky2
- H2020 flagship call – safer & greener aviation in a smaller world

Marine & Arctic research

- Atlantic Ocean Research Alliance – EU, Canada, USA
- €130m from H2020 for EU-Canada research projects
- EU-Canada-US working groups: seabed mapping, observation technologies, aquaculture, ocean literacy, ocean health & dissipators
- €80m from H2020 over 2016-2017 for Arctic research in the Atlantic Ocean

Research infrastructures

- Central to marine and Arctic cooperation
- Canada is involved in various projects on the European Strategy Forum on Research Infrastructures (ESFRI), Square Kilometre Array (SKA) telescope

Bioeconomy

- A strategic priority for both the EU and Canada
- Canada set to expand the EU's International Bioeconomy Forum

Health

- Partners in multilateral initiatives on rare diseases, the human epigenome and traumatic brain injury research
- Joint programming on neurodegenerative diseases and anti-microbial resistance
- Canadian participation in EBA NET on rare diseases

Nuclear

- Canadian participation in FP7 fusion research projects in severe accident and spent fuel management
- Canadian participation in H2020 projects on emergency preparedness/response & nuclear waste disposal

Horizon 2020 in numbers

Canadian participation in 2016

- 318 participations
- 264 entities
- 65 participations in 56 signed grants
- Success rate of 23%
- 66 projects made lead for funding
- Canadian participants have received €3.7m in EU funding and contributed €12.5m

Marie Skłodowska-Curie actions (MSCA)

Canada has hosted:

- 24 Innovative Training Networks (ITN)
- 65 Canadians were participating in MSCA under two years of calls for proposals
- 34 Individual Fellowships
- 126 Canadians participating
- 9 Co-funding of regional, national and international programmes (COFUND)
- 32 Research and Innovation Staff Exchanges (RISE)
- 5 Co-funding of regional, national and international programmes (COFUND)

European Research Council (ERC) 2007-2017:

66 grants to Canadian nationals

Most successful non-European country after the USA

EU-Canada success stories

Optimising and enhancing the integrated Atlantic Ocean observing System (Atlantos) (2015-2018)

Combining data on climate, biodiversity, biogeochemistry, fisheries, oil spills and more into one system

High Altitude Ice Crystals (HAIC) (2013-2017)

Canada and EU contributed to this project, which developed technology to detect hazardous ice flying at commercial jet altitude using satellite detection, radars and on-board detectors

Breast cancer risk after diagnostic gene sequencing (BRIDGES) (2015-2020)

Building a knowledge base that will allow clinicians to identify women at high risk of breast cancer

A timeline

- 1976 – Official start of diplomatic relations – Framework Agreement on Economic Cooperation
- 1996 – Agreement on Scientific and Technological Cooperation between Canada and the EU
- 1998 – Canada and Euratom signed Agreement for cooperation in nuclear research
- 18 March 2004 – EU-Canada Partnership Agenda
- 26 September 2004 – Joint declaration in Toronto "A new era in Canada-EU Relations"
- 27 October 2016 – Implementing Arrangement on Canadian researchers temporarily joining ERC-funded teams signed
- 20 September 2017 – Provisional entry into force of EU-Canada trade agreement (CETA)

Further reading

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Canada – R&I International Cooperation
https://www.canada.ca/en/innovation-science/services/international-cooperation.html

Roadmap for EU – Canada S&T cooperation
https://ec.europa.eu/research/iscp/pdf/policy/roadmap_eu-canada_2015.pdf#view=fit&pagemode=none

European Commission