

# Horizon 2020



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# Overview

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# 1. What is Horizon 2020?

- European program to fund STI
- Largest STI program in the world
- To stimulate economic growth and jobs
- Focussed on solving European problems (economic, social, environmental, etc.)
- Funds everything\*

# Who participates

- Universities
- Public agencies
- Large companies
- SMEs
- Governments
- Non-profit organisations
- Consultants



# Summary facts

- **Budget:** €80 billion (~FJ\$ 190 billion)
- **Duration:** 2014-2020
- **Participants:** global
- **Success rate:** 10-20%
- **Fields of research:** all
- **Funding:** 100% + 25%
- **Calls:** multiple calls, open on different dates
- **General information:**

<http://ec.europa.eu/programmes/horizon2020>



## 2. Past examples with Fiji

- European Consortium for Pacific Studies (ECOPAS)
  - USP & UPNG, [http://cordis.europa.eu/project/rcn/106638\\_en.html](http://cordis.europa.eu/project/rcn/106638_en.html)
- GOOS Regional Alliances Network Development (GRAND)
  - SPAGC, [http://cordis.europa.eu/project/rcn/74259\\_en.html](http://cordis.europa.eu/project/rcn/74259_en.html)
- Development of integrated farming approaches for sustainable crop production in environmentally-constrained system in the pacific region (CROPPRO)
  - [http://cordis.europa.eu/project/rcn/60414\\_en.html](http://cordis.europa.eu/project/rcn/60414_en.html)
- Fisheries governance and food security: north and south in concert (FISHGOVFOOD)
  - USP, [http://cordis.europa.eu/project/rcn/60013\\_en.html](http://cordis.europa.eu/project/rcn/60013_en.html)
- Cultivar selection for disease resistance and commercial potential in Pacific Islands (YAM)
  - [http://cordis.europa.eu/project/rcn/47318\\_en.html](http://cordis.europa.eu/project/rcn/47318_en.html)

# Other examples with the Pacific

- Plasmodium Vivax Infection in Pregnancy (PREGVAX)
  - PNGIMR, [http://cordis.europa.eu/project/rcn/86760\\_en.html](http://cordis.europa.eu/project/rcn/86760_en.html)
- Dengue research Framework for Resisting Epidemics in Europe (DENFREE)
  - ILM, [http://cordis.europa.eu/project/rcn/102500\\_en.html](http://cordis.europa.eu/project/rcn/102500_en.html)
- Advanced Models for Fisheries Stock Assessment of Large Pelagics (AMFISALS)
  - SPC, [http://cordis.europa.eu/project/rcn/110193\\_en.html](http://cordis.europa.eu/project/rcn/110193_en.html)

## 3. Quick rules

- Proposals should normally be focussed on *European* interests
- Projects must involve a minimum of 3 different organisations from 3 separate European countries
- Exceptions to these rules are noted in the calls, especially calls focussed on *individual* researchers (e.g. fellowships)



# Funding

- For pre-commercial activities, funding is generous
  - reimbursement of 100% of costs, plus an additional 25% for overheads.
- Fiji organisations (universities, agencies, businesses, etc.) can get funding  
(but note that advanced economies like Australia, New Zealand, USA, China, etc., are not automatically eligible for funding)

# Proposals

- Proposal ***must*** address the call requirements. Most of the calls are very specific – they are *not* to fund your pet topic, they are to fund what Europe wants... like a tender
- Let your European colleagues do all the hard work (administration, etc.)

# Evaluations

- Evaluation of proposals based on:
  - a. Excellence
  - b. Impact
  - c. Quality & efficiency of implementation
- Different weightings depending on call, e.g.:
  - innovation actions may focus on Impact
  - ERC grants only consider Excellence

## 4. How can Fiji participate?

- Fiji is known as a “third country”, i.e. a non-European country
- Fiji organisations can participate in most calls, and get funded
- But, you cannot do it by yourself – you **must** be part of a European consortium

- Contact your colleagues in Europe, and ask them if they will be submitting any applications... and ask if there is a role for you also
- Consider Horizon 2020 as a means to collaborate with regional colleagues (remember, New Caledonia and French Polynesia are *France*)
- You must demonstrate your level of excellence (track record) and clearly articulate what **value** you will bring to the project (e.g. unique data, world-leading research, local knowledge, regional networks, etc.)

- Encourage your researchers and experts to register to be Horizon 2020 **evaluators**  
<http://ec.europa.eu/research/participants/portal/desktop/en/experts>
  - Learn about Horizon 2020 from the inside
  - Learn the *unwritten* rules
  - Network with other people in your field
  - Get paid for your time, plus a flight to Brussels
  - Organise side meetings to build your networks

## 5. Excellent Science

There are several areas dedicated to supporting *the best* science:

- European Research Council (**ERC**)
- Future and Emerging Technologies (**FET**)
- Marie Skłodowska-Curie Actions (**MSCA**)
- European Research Infrastructures, including e-Infrastructures

# European Research Council

- [erc.europa.eu](http://erc.europa.eu)
- Investigator grants for the best researchers
- Highly prestigious, highly competitive
- Any research topic, any field
- Any researcher of any nationality can apply
- Must undertake the project at a European institution
- Portable grant





# ERC

- Can include international partners
- Funding for up to 5 years
- **Starting Grant (StG)**, 2-7 years after PhD, €1.5 million + €0.5 million
- **Consolidator Grant (CoG)**, 7-12 years after PhD, €2 million + €0.75 million
- **Advanced Grant (AdG)**, €2.5 million + €1 million

# Marie Skłodowska-Curie Actions

- These Actions are focused on providing training and mobility opportunities for researchers (from PhD to senior)
- Excellent for building lab-lab relationships and long-term collaborations
- Ideal for mobility with regional (French OCT) research partners

# MSCA Individual Fellowships (IF)

- Fully funded fellowships to go to/from Europe
- Must have PhD or 4 years research experience
- Funding covers salary, travel, family allowance, overheads, costs, etc.
- 12-24 months

- Your proposal is about you and your science (excellence), but you need to also pay attention to “impact” and “implementation”
- For each fellowship, you will have a host institution
  - Receives the funds from Horizon 2020
  - Responsible for administration and your salary
  - Must be a European organisation, regardless of whether you are going to or from Europe
- Since this host institution has a vested interest in your success, you cannot submit a proposal independently from them
- Call open now, closes September  
<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2226-msca-if-2016.html>

# MSCA Research and Innovation Staff Exchange (RISE)

- For multi-year lab-to-lab exchange programs
- Must have at least 2 European countries involved, plus Fiji
- Provides resources for international secondments of all research staff (PhD, postdocs, experienced researchers, technical staff, administration staff)
- [http://ec.europa.eu/research/mariecurieactions/about-msca/actions/rise/index\\_en.htm](http://ec.europa.eu/research/mariecurieactions/about-msca/actions/rise/index_en.htm)

## 6. Industrial Leadership

- Leadership in Enabling and Industrial Technologies (LEIT)
  - Information and Communication Technologies (ICT)
  - Nanotechnologies, Advanced Materials, Advanced Manufacturing and Processing, and Biotechnology
  - Space
- Innovation in SMEs

# 7. Societal Challenges

1. Health, Demographic Change and Wellbeing
  2. Food Security, Sustainable Agriculture and Forestry, Marine, 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. Europe in a changing world – Inclusive, innovative and reflective societies
  7. Secure societies – Protecting freedom and security of Europe and its citizens
- How to find call topics / funding opportunities? Go to the Participant Portal:  
<http://ec.europa.eu/research/participants/portal>

## 8. Some upcoming call topics, e.g.

- Contentious inputs in organic farming, closes 14 February 2017  
<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/6051-sfs-08-2017.html>
- Emerging diseases in plants and terrestrial livestock, closes 14 February 2017  
<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/6057-sfs-10-2017.html>
- Validation of diagnostic tools for animal and plant health, closes 14 February 2017  
<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/6069-sfs-13-2017.html>
- Smart fisheries technologies for an efficient, compliant and environmentally friendly fishing sector, closes 14 February 2017  
<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/6067-sfs-22-2017.html>



- Functional biodiversity, effective interplay of crop pollinators and pest predators, closes 14 February 2017  
<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/6058-sfs-28-2017.html>
- Closing loops at farm and regional levels to mitigate GHG emissions and environmental contamination, closes 14 February 2017  
<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/6056-sfs-30-2017.html>
- The Asia-Pacific as a strategic region for Europe, with focus on governance in and of the Pacific, closes 2 February 2017  
<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2307-eng-globally-06-2017.html>
- Resilience to extreme (natural and man-made) events, closes 26 January 2017  
<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2114-mg-7.1-2017.html>
- Coordination of citizens' observatories initiatives, closes 7 March 2017  
<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2196-sc5-19-2017.html>

- International network of raw materials training centres, closes 7 March 2017  
<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2203-sc5-16-2016-2017.html>
- Novel in-situ observation systems, closes 7 March 2017  
<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2194-sc5-18-2017.html>
- Border Security: autonomous systems and control systems, closes 25 August 2016  
<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2322-sec-20-bes-2016.html>
- Innovative solutions for the conservation of 20<sup>th</sup> century cultural heritage, closes 27 October 2016  
<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2396-nmbp-35-2017.html>

# More topics listed in these calls

- Sustainable food security: resilient and resource-efficient value chains  
<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-sfs-2016-2017.html>
- Blue growth: demonstrating an ocean of opportunities  
<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-bg-2016-2017.html>
- Rural renaissance: fostering innovation and business opportunities  
<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-rur-2016-2017.html>

# Some final tips

- Contact your colleagues in Europe
- Join a COST Action ([www.cost.eu](http://www.cost.eu))
- Send your research administrators to INORMS2016, [www.inorms2016.org](http://www.inorms2016.org)
- Further support/information available via email [info@pacenet.eu](mailto:info@pacenet.eu)

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