#### Horizon 2020



PACIFIC-EUROPE NETWORK FOR SCIENCE, TECHNOLOGY AND INNOVATION

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## Overview

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- 2. Past examples with Fiji
- 3. Quick rules
- 4. How can Fiji participate?
- 5. Scientific excellence
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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:
  <u>http://ec.europa.eu/programmes/horizon2020</u>







# 2. Past examples with Fiji

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





#### Other examples with the Pacific

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





# **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) <u>and</u> 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 <u>http://ec.europa.eu/research/participants/portal/desk</u> <u>top/en/experts</u>
  - 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**

#### • <u>erc.europa.eu</u>

- 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
  <u>http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2</u>
  <u>020/topics/2226-msca-if-2016.html</u>





#### 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)
- <u>http://ec.europa.eu/research/mariecurieactions/about-</u> <u>msca/actions/rise/index\_en.htm</u>





## 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
- Secure societies Protecting freedom and security of Europe and its citizens
- How to find call topics / funding opportunities? Go to the Participant Portal: <u>http://ec.europa.eu/research/participants/portal</u>





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

- Contentious inputs in organic farming, closes 14 February 2017
  <u>http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/6051-sfs-08-2017.html</u>
- 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 <u>http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/6069-sfs-</u> 13-2017.html
- Smart fisheries technologies for an efficient, compliant and environmentally friendly fishing sector, closes 14 February 2017
  <u>http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/6067-sfs-22-2017.html</u>





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

<u>http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2114-mg-</u> 7.1-2017.html

Coordination of citizens' observatories initiatives, closes 7 March 2017
 <u>http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2196-sc5-19-2017.html</u>





- International network of raw materials training centres, closes 7 March 2017 <u>http://ec.europa.eu/research/participants/portal/desktop/en/opportuni</u> <u>ties/h2020/topics/2203-sc5-16-2016-2017.html</u>
- Novel in-situ observation systems, closes 7 March 2017
  <u>http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2</u>
  <u>020/topics/2194-sc5-18-2017.html</u>
- Border Security: autonomous systems and control systems, closes 25 August 2016 <u>http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2</u> 020/topics/2322-sec-20-bes-2016.html
- Innovative solutions for the conservation of 20<sup>th</sup> century cultural heritage, closes 27 October 2016 <u>http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2</u> <u>020/topics/2396-nmbp-35-2017.html</u>





#### More topics listed in these calls

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





# Some final tips

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





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