

IPP CommonSensing:
Building climate resilience
with small island nations

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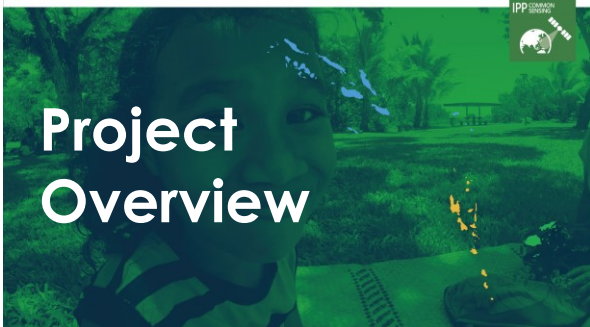
We work with
Innovate UK

CATAPULT
Satellite Applications



IPP COMMON SENSING

Building climate
resilience with
small island nations



IPP COMMON SENSING

Project
Overview

COMMON SENSING IPP 2018


Goals

The overall aim of CommonSensing is to improve national resilience towards climate change in small island developing states. The project focuses on improved food security, disaster risk reduction and better access to international climate finance and will contribute to sustainable development in Fiji, Solomon Islands and Vanuatu, through the use of geospatial and climate information technologies


To achieve this the project will also:

- Build capacity in the use of geospatial and climate information services, strengthening technical skills across the region
- Embed specialists within government structures to ensure local data systems, knowledge and decision-making benefit from the added capabilities of CommonSensing


Thematic focus areas:




Climate Information



Food Security




Disaster Risk




Climate Finance

COMMON SENSING IPP 2018

Partners




Funded by:



International Partnership Programme (IPP)

COMMON SENSING IPP 2018

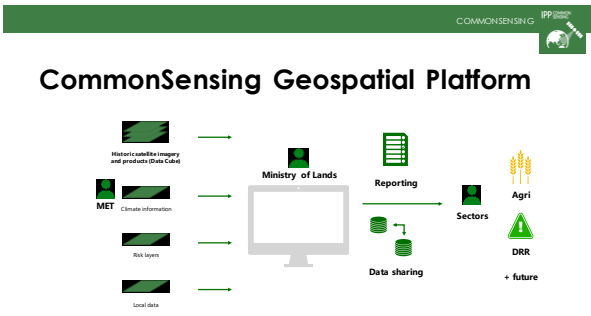
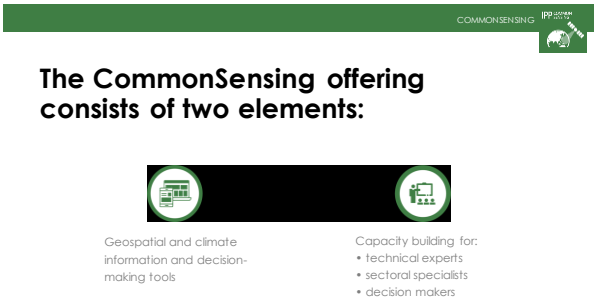
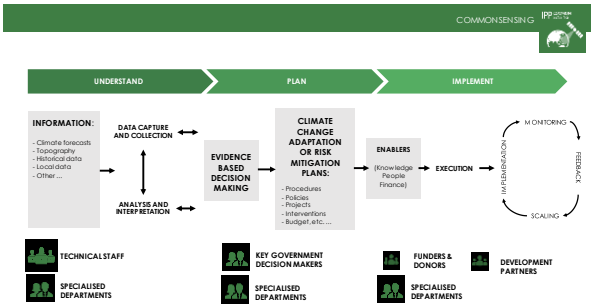
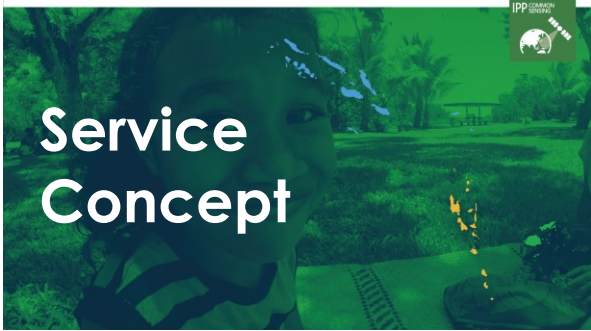


Phase 1: Understanding challenges

- Information and requirements collation through research and consultation with stakeholders and initiatives at a regional and national level
- Understanding the challenges in the individual countries for geo analysis and needs assessment for satellite-derived services

Phase 2: Addressing Needs

- Definition, design and development of tools that address the defined challenges
- Testing and service prototyping to ensure fit with partner countries existing processes
- Support through capacity building and technical assistance programmes in collaboration with partners





CommonSensing Geospatial Platform

ACCESS TO HISTORIC INFORMATION

Archived satellite imagery



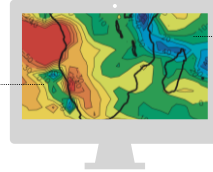
Look back in time



CommonSensing Geospatial Platform

BUILDING UNDERSTANDING OF FUTURE CLIMATE

Access to future climate scenarios and overlay with other layers to better understand impact



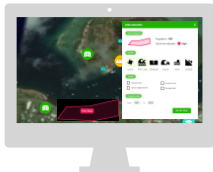
PRECIS system for local MET services



CommonSensing Geospatial Platform

BUILDING UNDERSTANDING OF RISKS

Information about population, infrastructure, agricultural production, etc. affected

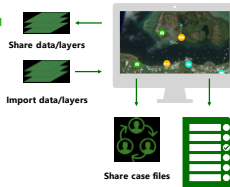


Understand current and future risks in specific locations
Latest information about hazards and exposure



CommonSensing Geospatial Platform

INFORMATION SHARING



Other:

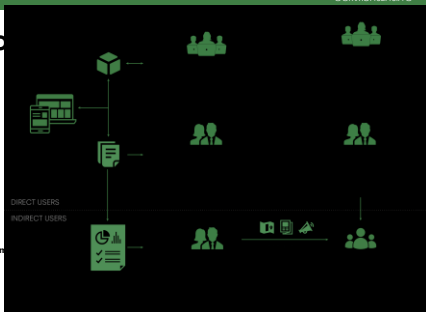
- Secure system
- User identification
- Cached information



User Group

People engaging directly with CS data, products or platform

People using the outputs of the platform or information translated at the back of the satellite data



Climate Information

TIMESCALE
10-100+ years

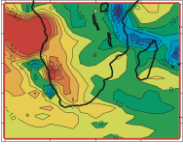
AIM: Generation, access to, and effective application of, climate information for evidence based decision making, and climate adaptation/mitigation

1. Completing a review of climate projections and models available in the region, identifying particular gaps
2. Providing **additional data** for the CommonSensing Platform, focusing on generating decision-relevant information from the available data sources and potentially including new scenarios/downscaled climate information
3. Undertaking **capacity building** for the understanding and application of climate information, PRECIS system for technical users (NMS) and integration of climate information into decision making for high-level decision makers in other ministries (sectoral focus)

The key partners (NMS) from each partner country have been identified:



Climate Information



Understanding impact and potential actions



Disaster risk

Fiji - NDMO, Ministry of Waterways, Ministry of Lands and Mineral Resources
Vanuatu - MCCA/NDMO, Ministry of Lands and Natural Resources
Solomon Islands - MECCM Climate Change Unit, Ministry of Lands, Housing and Survey

Understanding impact and potential actions



Food security

Fiji - Ministry of Sugar, Ministry of Agriculture, Ministry of Waterways, Ministry of Lands and Mineral Resources
Vanuatu - MAFF/BB Department of Agriculture, Ministry of Lands and Natural Resources
Solomon Islands - MECCM Climate Change Unit, Ministry of Agriculture

Other areas/sectors (to be defined during the project)
 Ministries of Infrastructure, Fisheries, Forestry, etc.

