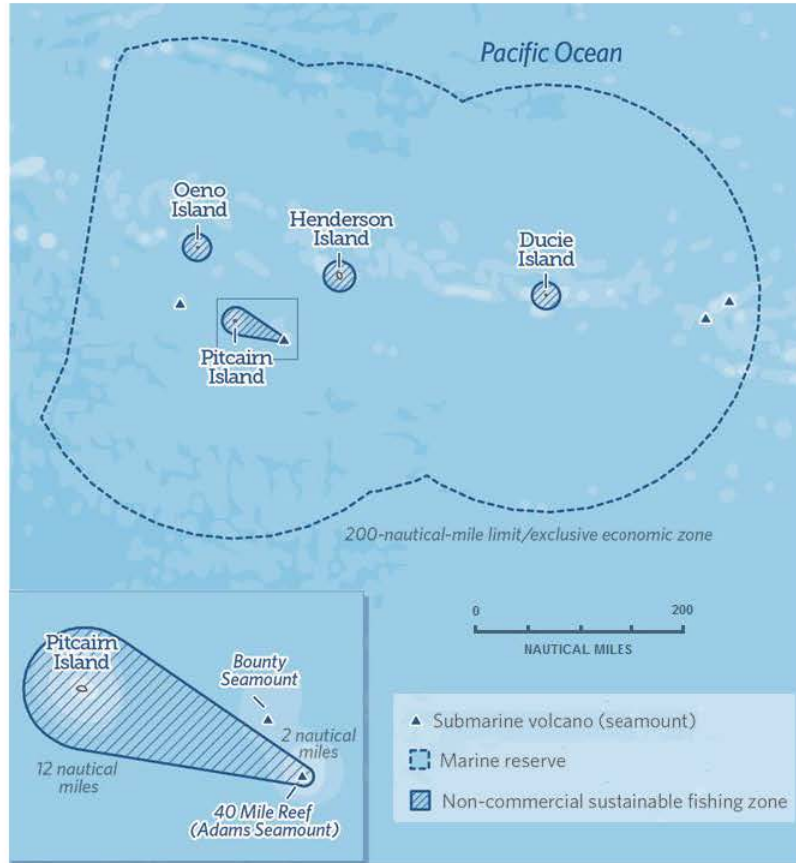


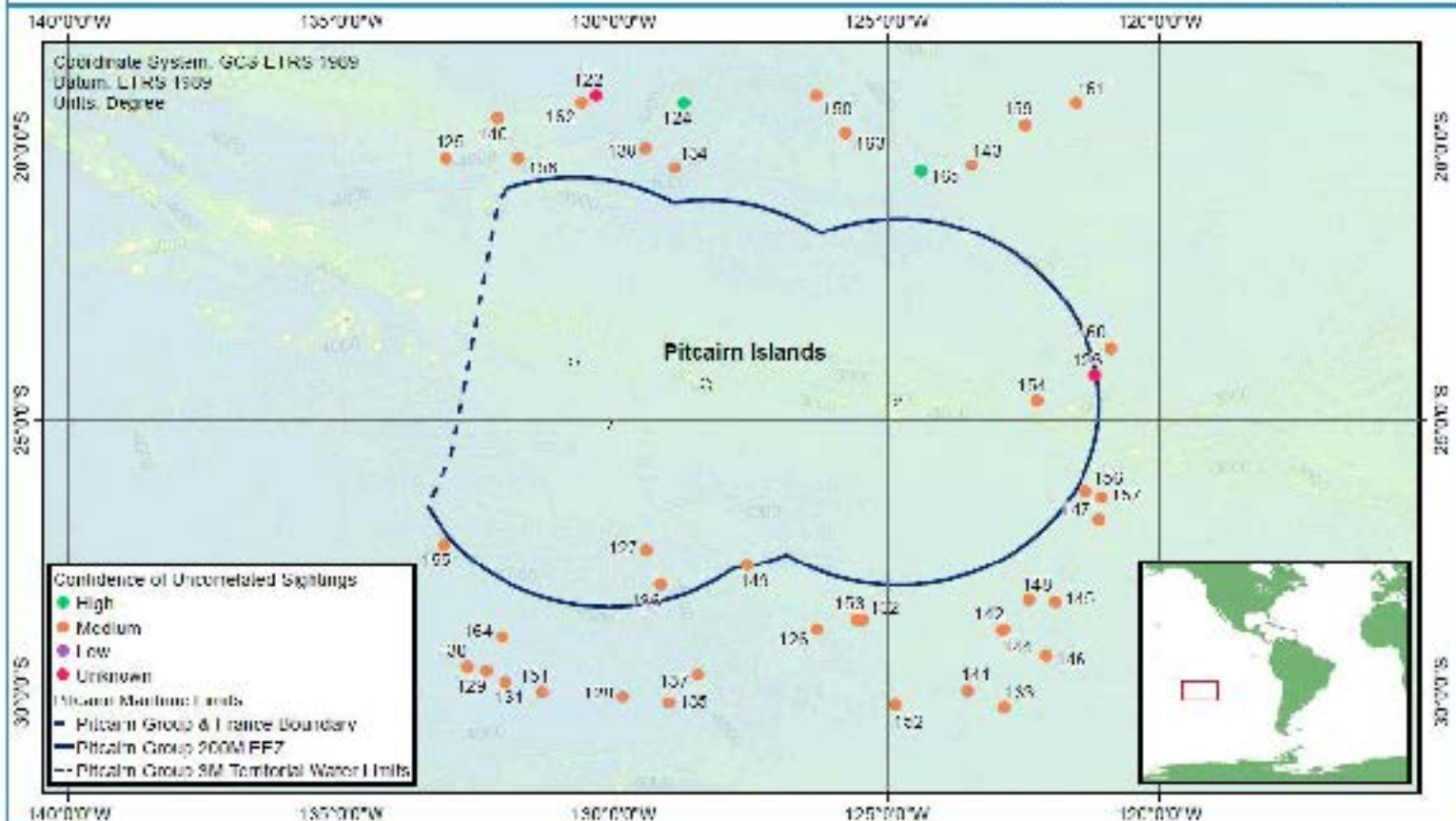
**Cost Effective Fisheries
Monitoring and
Surveillance for the
Overseas Territories.**

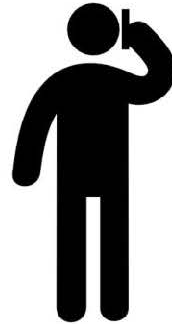
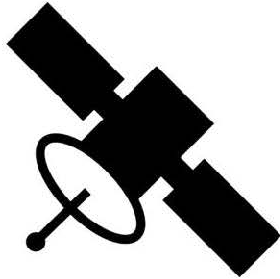
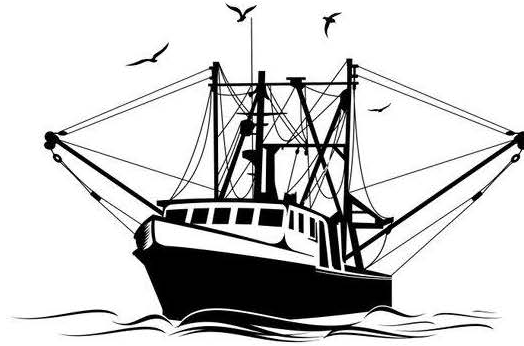
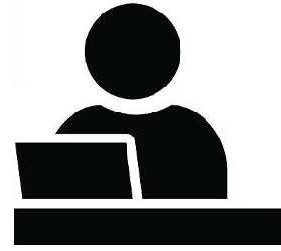


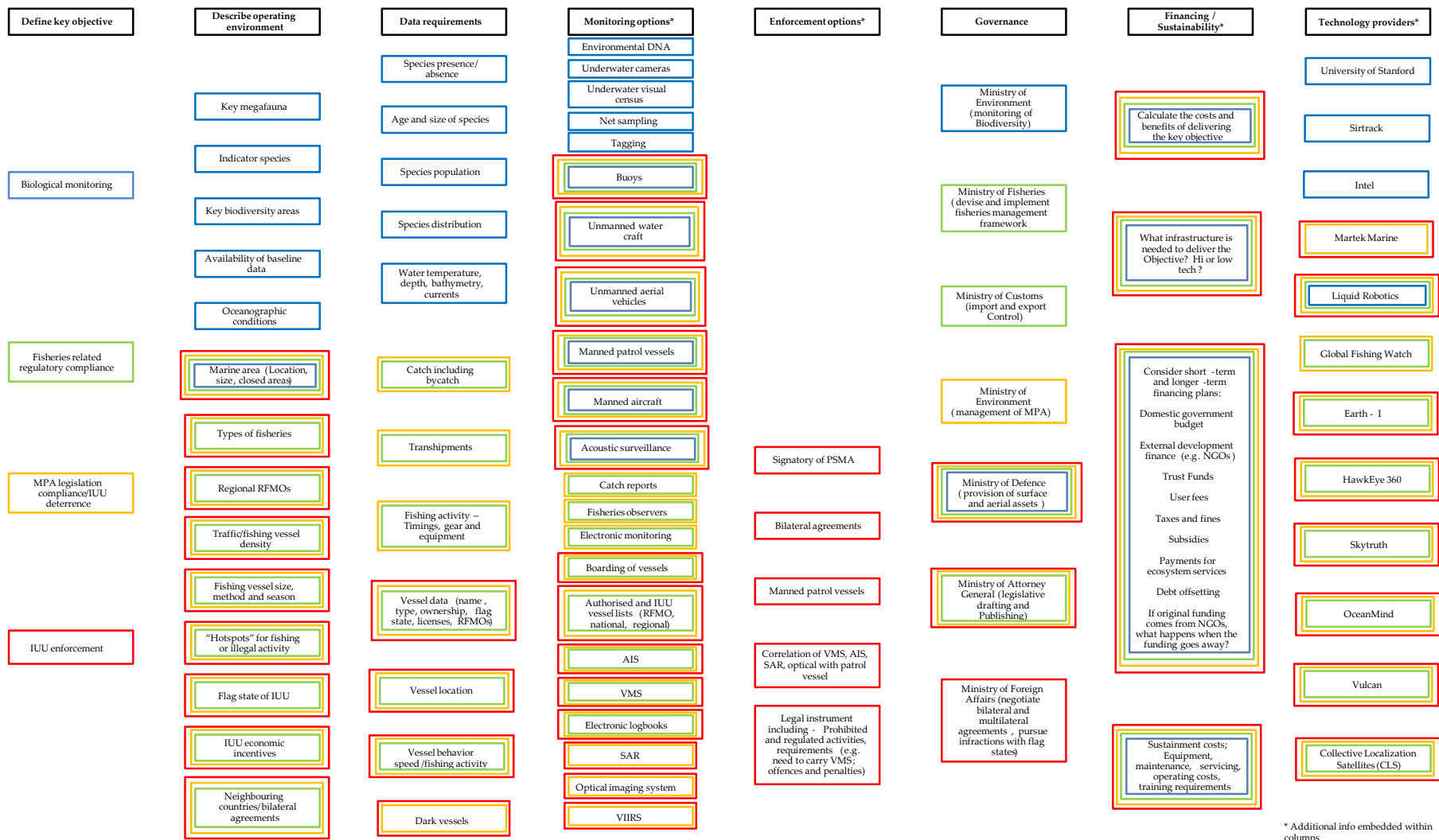


Uncorrelated Sightings, Pitcairn Islands

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* Additional info embedded within columns

Define key objective

Describe operating environment

Data requirements

Monitoring options*

Enforcement options*

Governance

Financing / Sustainability*

Technology providers*

IUU enforcement

Marine area (Location, size, closed areas)

Types of fisheries

Regional RFMOs

Traffic/fishing vessel density

Fishing vessel size, method and season

"Hotspots" for fishing or illegal activity

Flag state of IUU

IUU economic incentives

Neighbouring countries/bilateral agreements

Vessel data (name, type, ownership, flag state, licenses, RFMOs)

Vessel location

Vessel behavior speed /fishing activity

Dark vessels

Buoys

Unmanned water craft

Unmanned aerial vehicles

Manned patrol vessels

Manned aircraft

Acoustic surveillance

Boarding of vessels

Authorised and IUU vessel lists (RFMO, national, regional)

AIS

VMS

Electronic logbooks

SAR

Optical imaging system

VIIRS

Signatory of PSMA

Bilateral agreements and engagement

Manned patrol vessels

Correlation of VMS, AIS, SAR, optical with patrol vessel

Legal instrument including - Prohibited and regulated activities, requirements (e.g. need to carry VMS, offences and penalties)

Ministry of Defence (provision of surface and aerial assets)

Ministry of Attorney General (legislative drafting and Publishing)

Ministry of Foreign Affairs (negotiate bilateral and multilateral agreements , pursue infractions with flag states)

Calculate the costs and benefits of delivering the key objective

What infrastructure is needed to deliver the Objective? Hi or low tech?

Consider short - term and longer -term financing plans:
Domestic government budget
External development finance (e.g. NGOs)
Trust Funds
User fees
Taxes and fines
Subsidies
Payments for ecosystem services
Debt offsetting
If original funding comes from NGOs, what happens when the funding goes away?

Sustainment costs; Equipment, maintenance, servicing, operating costs, training requirements

Martek Marine

Liquid Robotics

Earth - 1

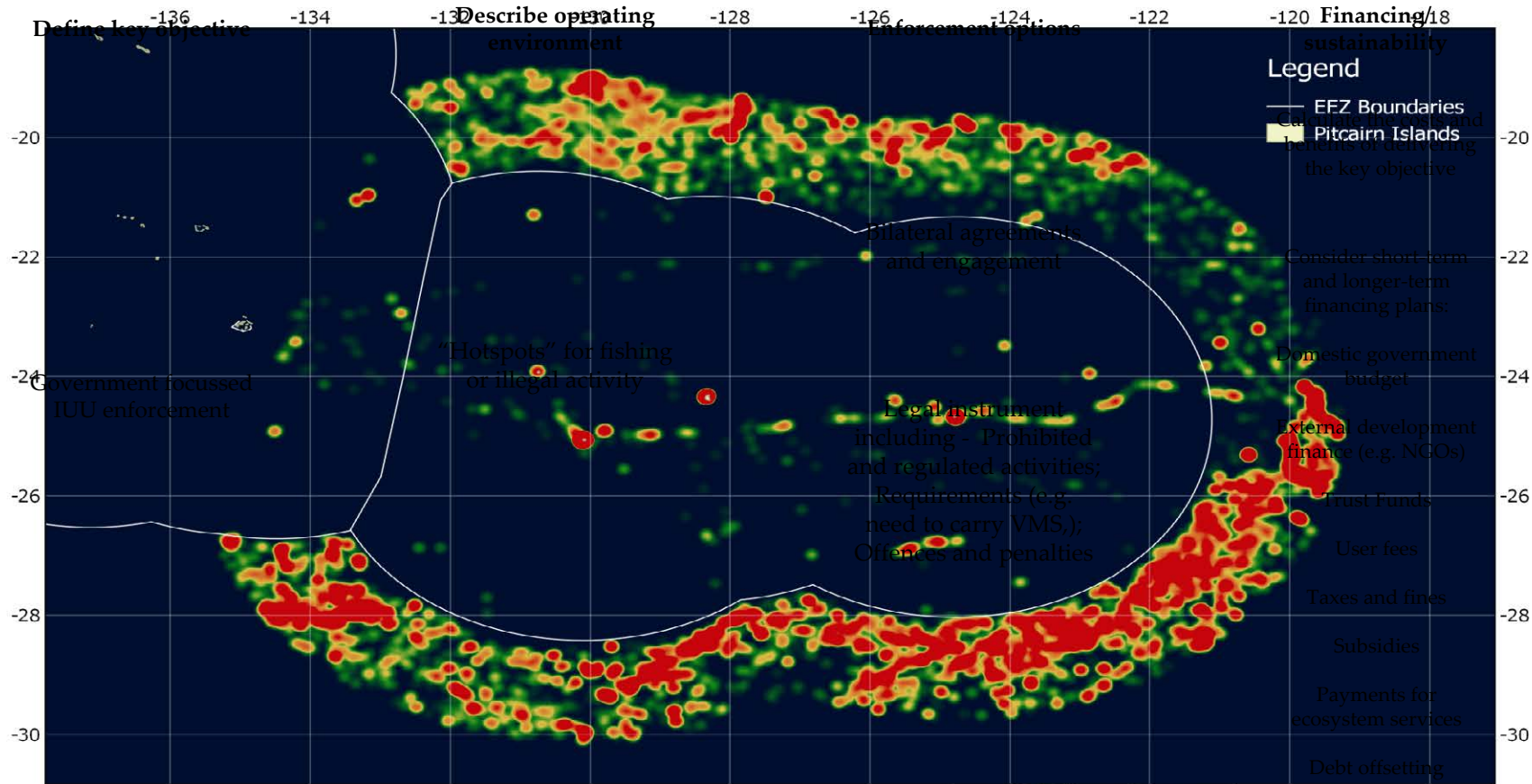
HawkEye 360

Skytruth

OceanMind

Vulcan

Collective Localization Satellites (CLS)



Pitcairn Island Exclusive Economic Zone

Heatmap of AIS activity between 0.25 and 5 Kts (fishing activity speed range)
November 2013 - October 2016



If original funding comes from NGOs, what happens when the funding goes away?

EYES ON THE SEAS



Thank you