

Tuvalu Electric Vehicle Webinar

Tuesday, August 30, 2022, 10:00am-12:00am (Tuvalu time)

Feasibility Study for Low Emission Land Transport in Vanuatu

Kisato Nagakuro

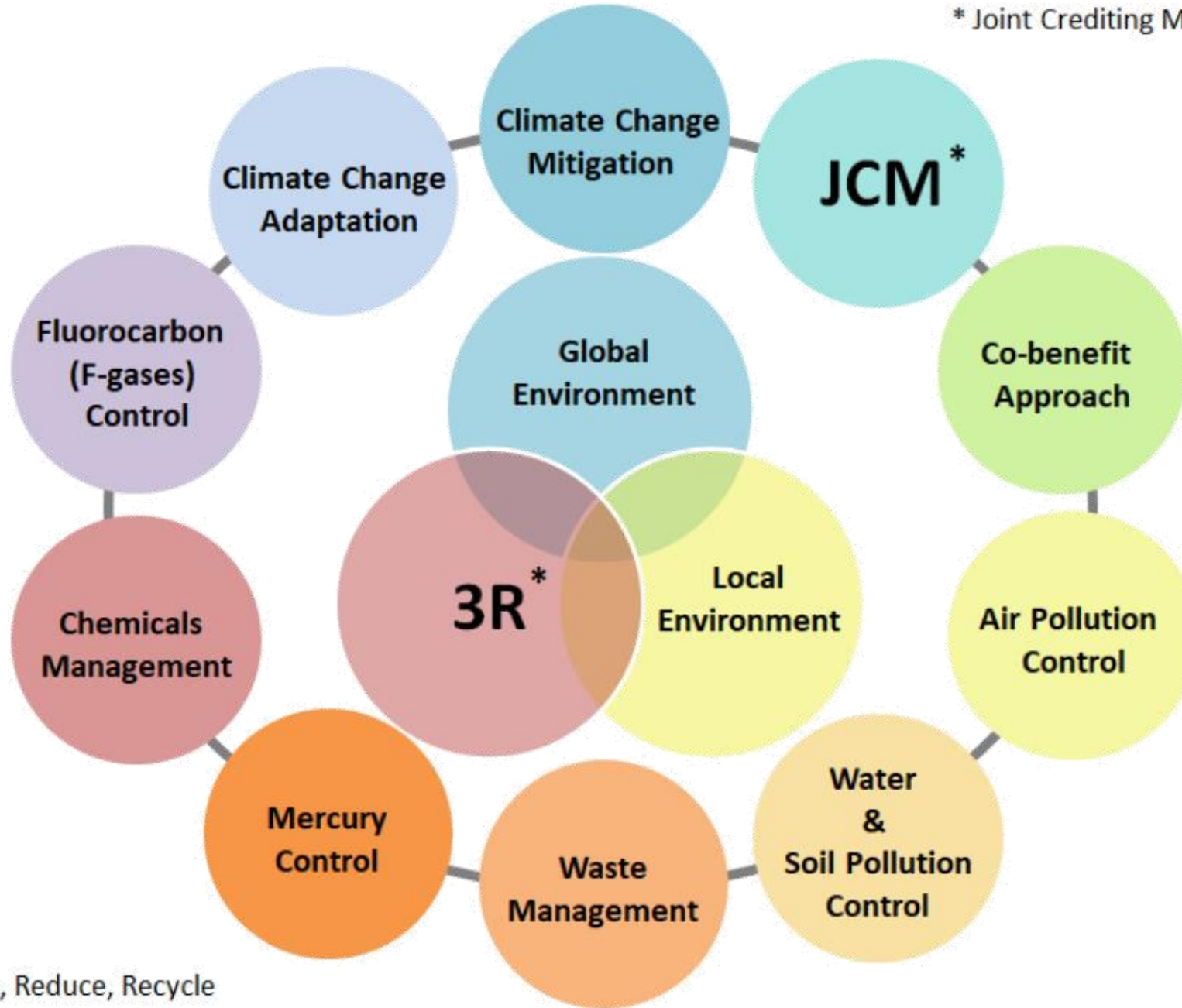
Researcher

Overseas Environmental Cooperation Center, Japan (OECC)



What OECC is...

* Joint Crediting Mechanism



*Reuse, Reduce, Recycle

Introducing the CTCN



Sources of Finance

Voluntary donor countries

GEF

Adaptation Fund

GCF

Climate Technology Center (CTC)

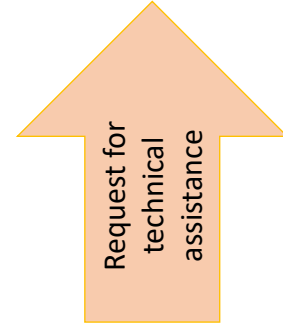
- UNEP, in collaboration with UNIDO manage the CTCN (host institution)
- 11 core research institutes (consortium partners) support its operation.



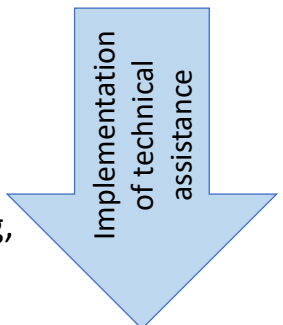
Network members (N)

Private companies, research institutions, NGO/NPO, public institutions, international organizations, etc

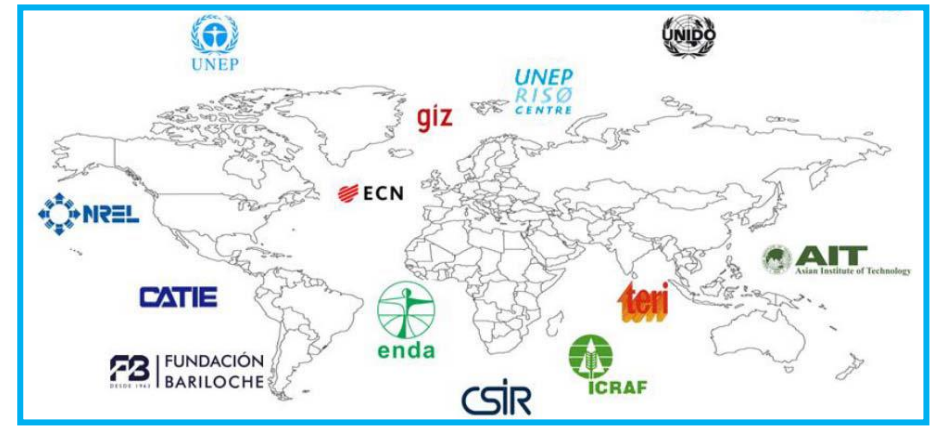
- Matchmaking
- Provide implementation costs (\$50,000-\$250,000 per project)



- Feasibility study and demonstration
- Technology selection
- Policy review support
- Training, experience sharing, etc.



Developing countries



Global Registries (Network)

2017: 341

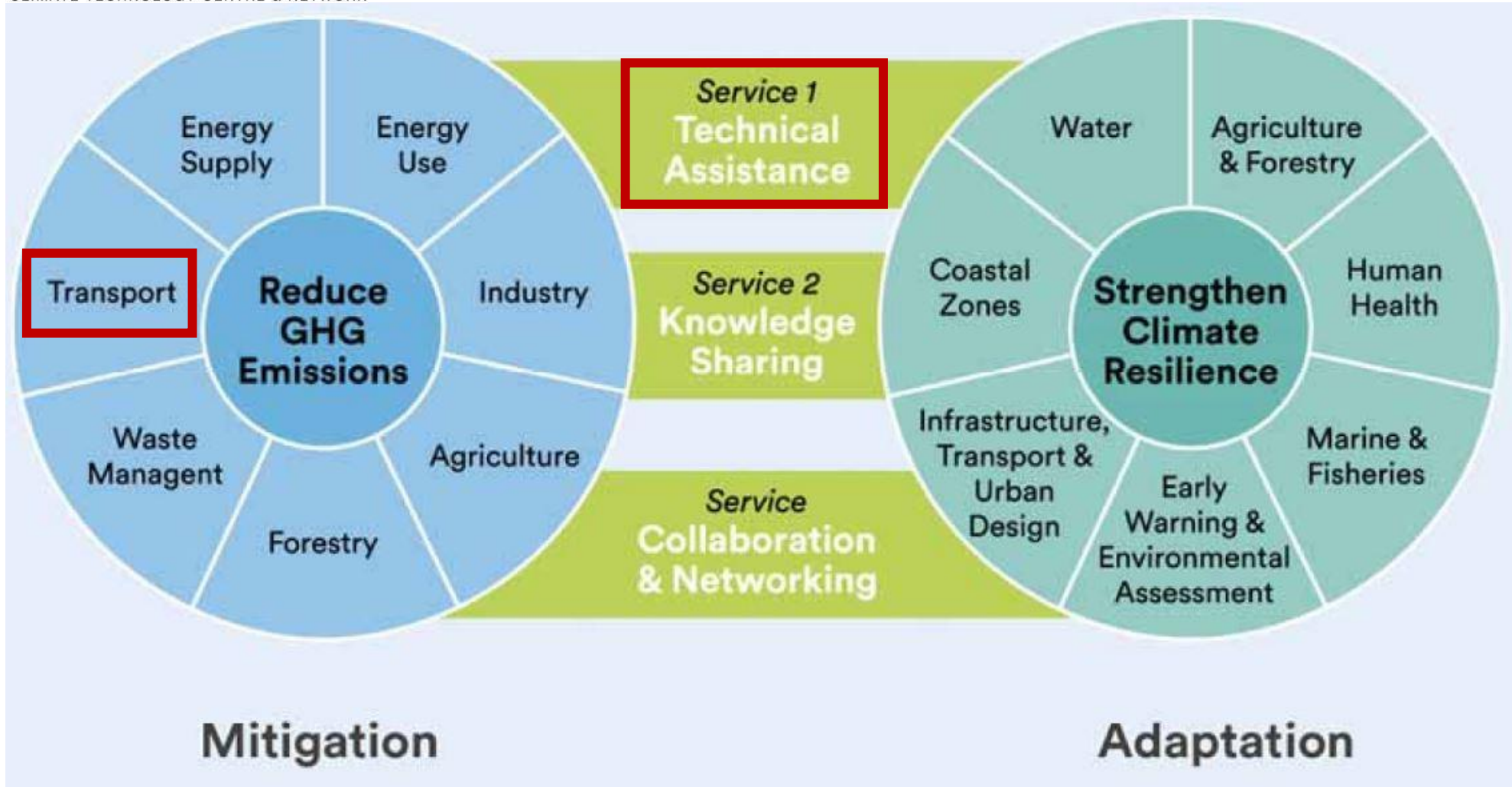
2021: 649

Academic, research, funding, NGOs, private companies, and public institutions can register as network organizations.

Since 2014



What Project outline is...



Feasibility study for low emission land transport sector in Vanuatu



This technical assistance advances the following Sustainable Development Goals:



Context

Vanuatu is a small island country in the Pacific which depends almost entirely on imported fossil fuel for its energy and transport needs. The continuous reliance on these fossil fuels is not only unsustainable for Vanuatu but goes against Vanuatu's national climate change mitigation ambition as reflected in its Nationally Determined Contributions, its Climate Change and Disaster Risk Reduction Policy, its National Energy Roadmap and Vanuatu's Sustainable Development Plan.

There is very little information available on the land transport sector. The public transportation system in Vanuatu is still inefficient due to no transport routing systems established. The public transportation system is owned by individuals with no control from the central or provincial governments. This makes the number of buses and taxes uncontrollable leading to more air pollution and increased emission of greenhouse gases.

Vanuatu lacks the policy and legislative framework to control the importation of inefficient vehicles into the country. The lack of education and awareness on the importation and use of low emission vehicles is a barrier to the rapid uptake of energy efficient vehicles into the country.

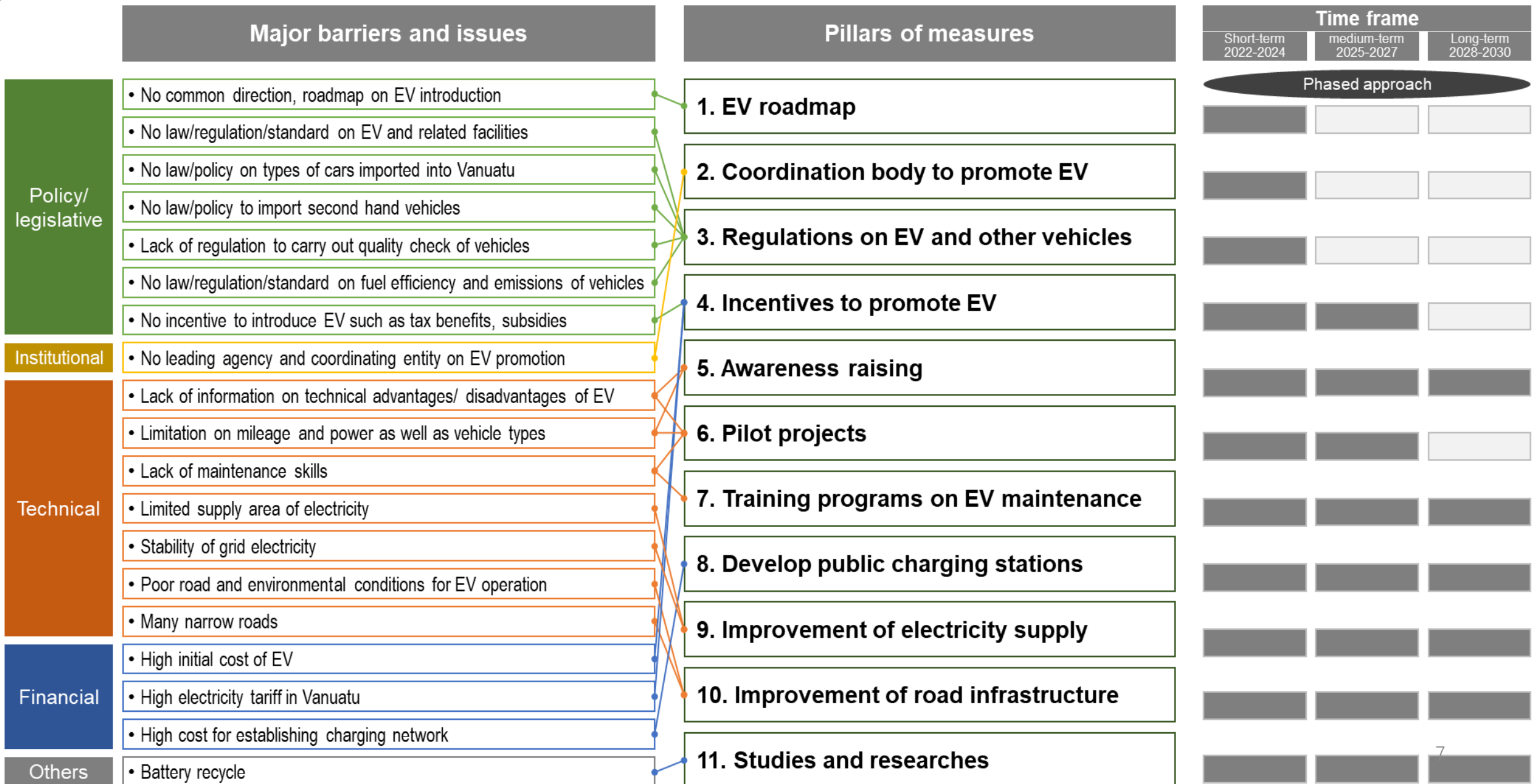
- Structured interviews to stakeholders and experts
- Conduction of 2 times stakeholder's consultation
- Multi-Criteria Decision Analysis (MDCA)
- Literature review
- Cost-benefit analysis

Identified major barriers/issues (in relation to EV)

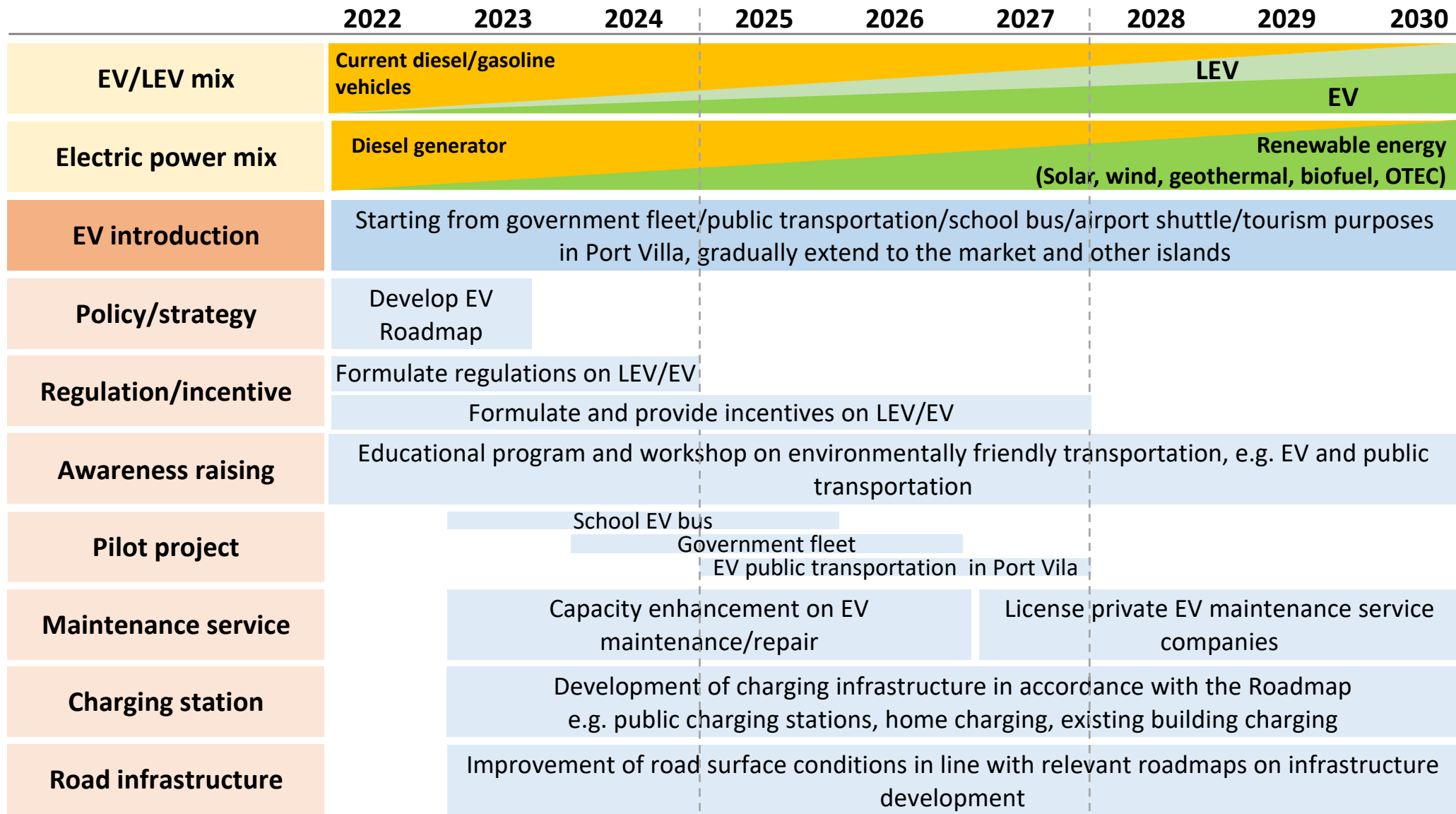
19 barriers/issues from 5 major aspects related with EV.

Policy/ legislative	No common direction, roadmap on EV introduction	No law/ regulation/ standard on EV and related facilities	No law/policy on types of cars imported into Vanuatu	No law/policy to import second hand vehicles	Lack of regulation to carry out quality check of vehicles	No law/ regulation/ standard on fuel efficiency and emissions of vehicles	No incentive to introduce EV such as tax benefits, subsidies
Technical	Lack of information on technical advantages/ disadvantages of EV	EVs seem limitation on mileage, power, vehicle types	Lack of maintenance skills	Limited supply area of electricity	Stability of grid electricity	Poor road and environmental conditions for EV operation	Many narrow roads
Institutional	No leading agency and coordinating entity on EV promotion	Financial	High initial cost of EV	High electricity tariff in Vanuatu	High cost for establishing charging network		
Others	Battery recycle Environmental impacts						

Proposed 11 pillars of measures corresponding to barriers



Promotion time frame of EV uptake toward 2030



EV: Electric vehicles such as battery electric vehicles and plug-in hybrid electric vehicles

LEV: Low emission vehicles which have higher fuel economy and low pollutant emissions than current diesel/gasoline vehicles

Image of electric bus



Source: Hino Motors, Ltd.



Source: BYD Company Ltd.

CTCN

Response project:
(Up to USD 250,000)

- Feasibility study

PROJECT
READINESS

GCF

Project implementation

Micro	Up to 10M
Small	Above 10M and up to 50M
Medium	Above 50M and up to 250M
Large	Above 250M

Thank you for watching!

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