



Impact of climate change on critical Pacific coastal areas

A new way to improve local strategies

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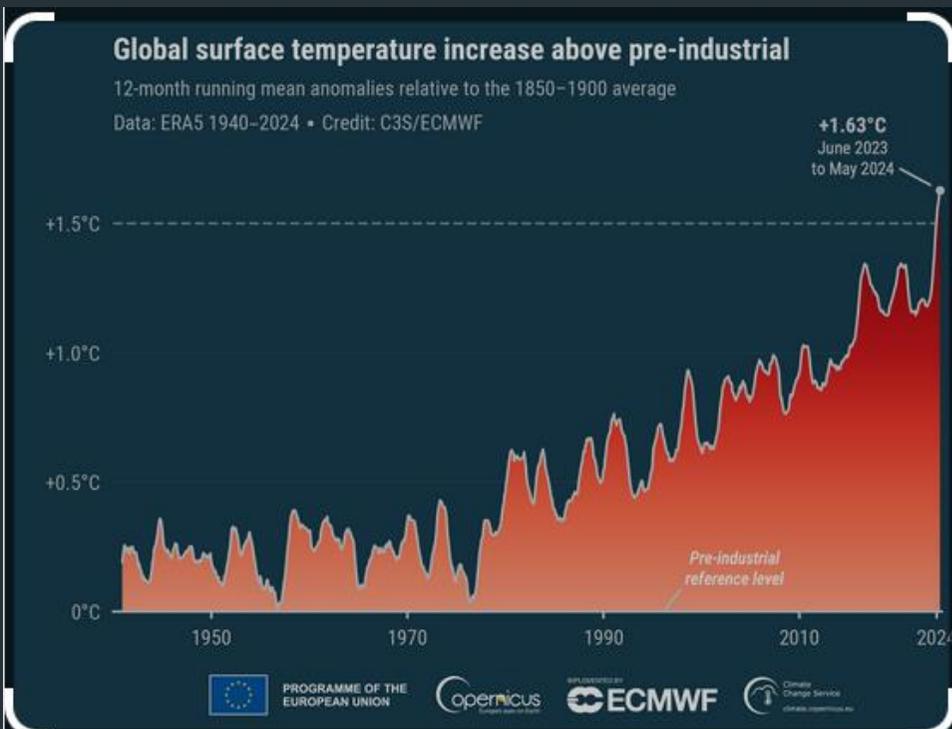


2024 Pacific Islands GIS & Remote Sensing User Conference



36 years

- Creation of the Intergovernmental Panel on Climate Change IPCC in 1988
- The first GIEC report was published in 1990
- UN Framework Convention on Climate Change was established in 1992



2024 is the first year above 1.5°C

Climate change

Unfortunately the impact is not linear



United Nations
Climate Change

2 months
average length
of drought

+1.5°C

This panel shows a lush, green landscape with a blue sky and white clouds, representing a baseline or low-temperature scenario.

4 months
average length
of drought

+2°C

This panel shows a landscape with yellowish-brown soil and sparse, dry vegetation, representing a moderate temperature increase.

10 months
average length
of drought

+3°C

This panel shows a severely arid landscape with reddish-brown soil and a dead, gnarled tree, representing a high temperature increase.

The same applies to
sea level rise and
cyclones

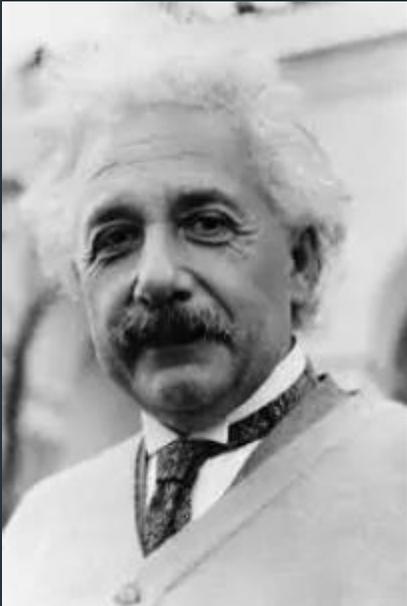


How to deal with?

We need to improve decisions at local scale



Strategic decisions have always been
powered
by up-to-date knowledge



“The world is dangerous to live
because of those who watch
and let it happen.”

Albert Einstein

Data is no longer enough to improve decisions at local scale



DATA is raw information

KNOWLEDGE is
interpretation of that data
to create meaning

We propose QVX(*) as a
new way to improve local
strategies:

(*) The only horizontal cloud platform
All at the same place

14 countries already covered

Climate change impact
Strategy

Dialogue and sharing
Network

Knowledge access
Apps

Geo intelligence
Deep learning

Real time geosat big data
EO satellites



Why QVX is Pacific-focused?

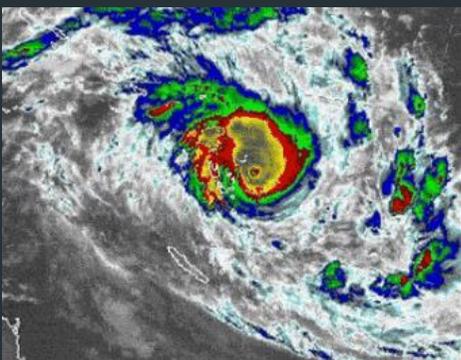


QVX has grown in the Pacific facing climate change impact

European projects	1996-1998
Prototypes	1999-2007
Qöhnelö platform	2008-2016
QVX Smart Digital P.	2017-2023
World QVX	> 2024



GEO
Canberra
Ministerial
submit



PAM 2015 - Satellite streaming World 1st

Impact of climate change on Critical Pacific coastal areas



QVX is the only horizontal platform for
decision-makers

What are the benefits
of such a framework
for me?

I benefit from satellites while minimizing my carbon footprint



**Billions of
geosat data
every day**

How can I benefit?

- 🗨 Remote access to world databases
- 🗨 Remote access to my DATACUBE
- 🗨 Cross-reference data
- 🗨 Multi-satellites easy tasking
- 🗨 Download to my system when I need it

TAHATAI Neo Fench Polynesia
Massive Stellite Data Instant Access



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Critical Pacific coastal areas

I benefit from satellites while minimizing my carbon footprint



The screenshot displays the QVX satellite monitoring interface. On the left, a sidebar contains navigation options: MSDIA, Q3D, PRISM, UCM, and SMART. The main control panel includes a 'Tools' menu, a 'Time' selector set to '2021-04-30', and an 'Options' slider. The central area shows a satellite image of a coastal region with a bay and forested hills. A 'RESET LAYERS' button is located at the bottom left of the control panel. The bottom right corner of the image features the 'SCO SPACE FOR CLIMATE OBSERVATORY' logo and the text '© TAHATAI Neo SCO labelled'. The bottom status bar shows 'QHUB French Polynesia' on the left and 'Qehnelo® technology - QVX 11.16.0' on the right.

Remi ANDREOLI
Chief Operating Officer



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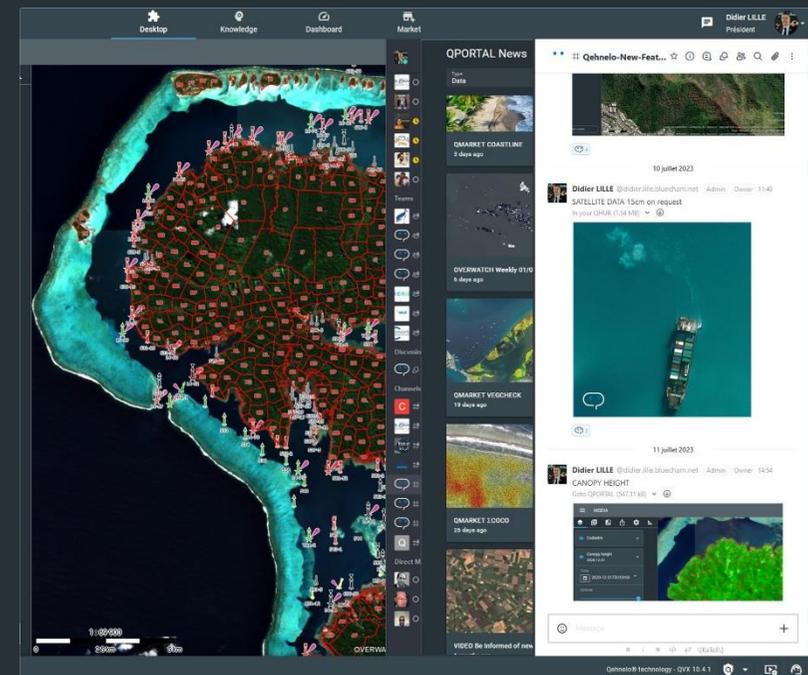


Hundreds of
algorithms in
constant evolution

How can I
manage?

- Cloud access to algorithms
- Regular update by specialists
- Online elastic computing power
- Automatic capitalization of results
in Long Time Series for historic
and deep-learning

Automatic coastal zone analysis



Critical Pacific coastal areas

I benefit from science





Tools Data Dashboard Services
Remi ANDREOLI
Chief Operating Officer


QPORTAL News

Type
Data



MARK ALL READ



PRISM SEA-CHLA
10 minutes ago



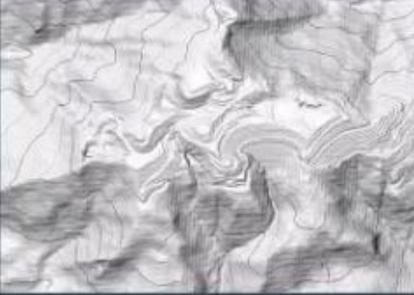
PRISM SEA-CHLA
22 minutes ago



UCM: Nouvelle analyse disponible
8 hours ago



SMART: Nouvelle analyse disponi...
4 days ago



MNT AW3D Poya disponible!
5 days ago



MSOIL : Q3 Ouaco disponible
7 days ago



MSOIL : Q3 Ngo disponible
7 days ago



MSOIL : Q3 Nakety disponible
7 days ago



Critical Pacific coastal areas

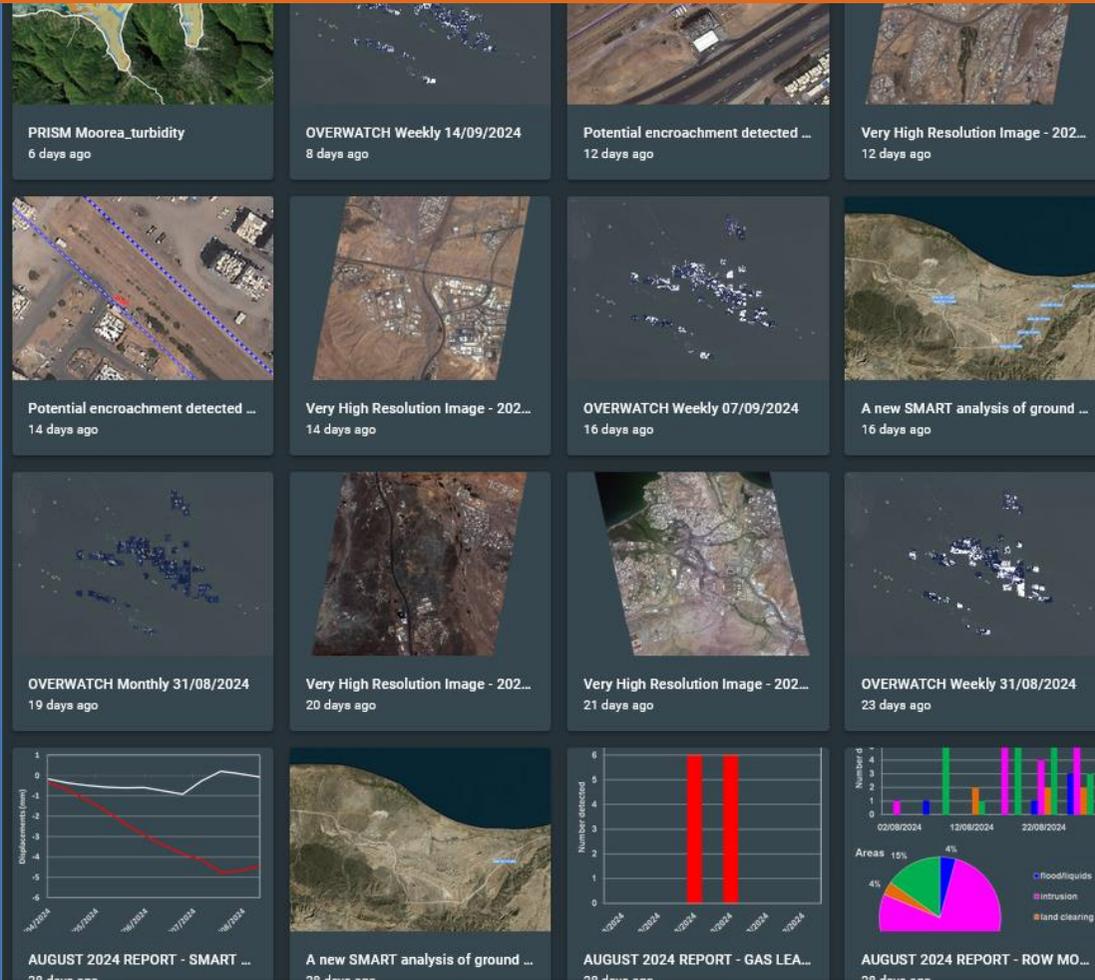
I benefit from on-line ready to use Apps



I wish easy access to knowledge

How can I do?

-  Risks
-  Coastline monitoring
-  Maritime traffic
-  Water quality



Real time alerts and notifications portal



Critical Pacific coastal areas

I benefit from on-line ready to use Apps

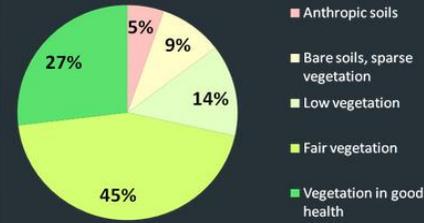


Human Activities Pressure Report

23 minutes ago

Analysis Report Summary:

Anthropic soils	144,9 ha	5%
Bare soils, sparse vegetation	252,4 ha	9%
Low vegetation	371,9 ha	14%
Fair vegetation	1207,1 ha	45%
Vegetation in good health	727,2 ha	27%
TOTAL	2703,5 ha	100%



- Older than 2016
- 2016
- 2017
- 2018
- 2019
- 2020
- 2021
- 2022
- 2023
- 2024
- Greater than 2024

- No significant changes
- Positive change
- Negative change



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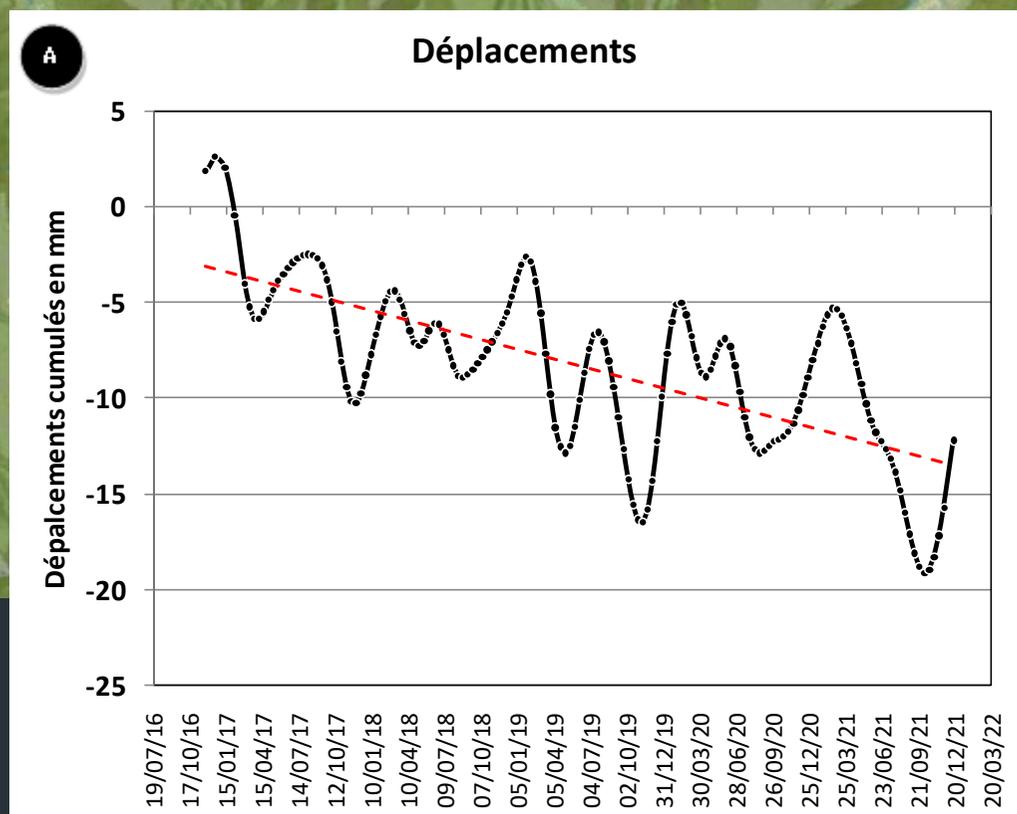
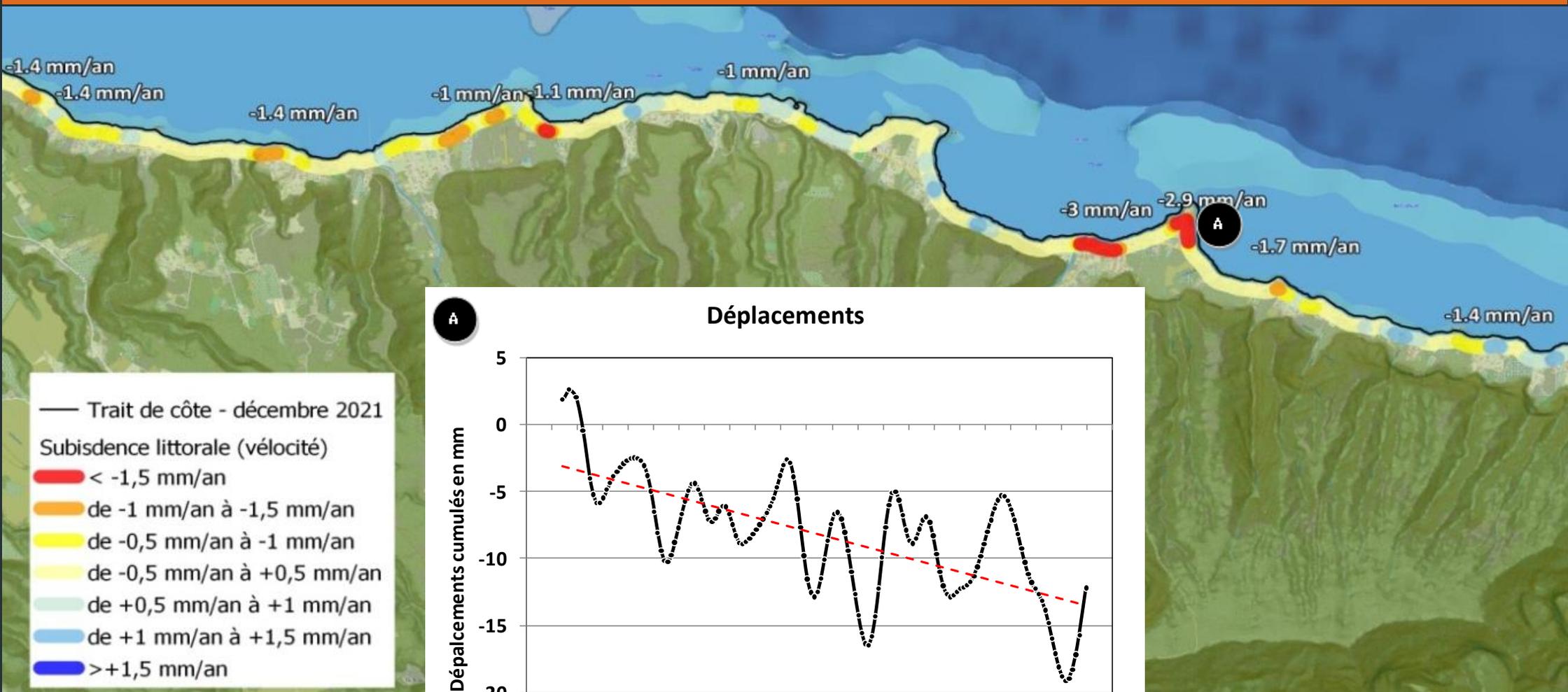
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Critical Pacific coastal areas

I benefit from on-line ready to use Apps



Critical Pacific coastal areas

QVX horizontal platform



Working alone on complex issues is not a good idea

How can I do?

- Link complementary topics
- My workgroup is on-line
- Experienced users are on-line
- Decision-makers, scientists and technicians understand each other
- Webinars Capacity Building

QVEE & participating Apps



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The world is
changing and so
are the systems

VINAKA VAKALEVU



Let's build together
a better future.
Join us

<https://linkedin.com/showcase/qvx2024>

