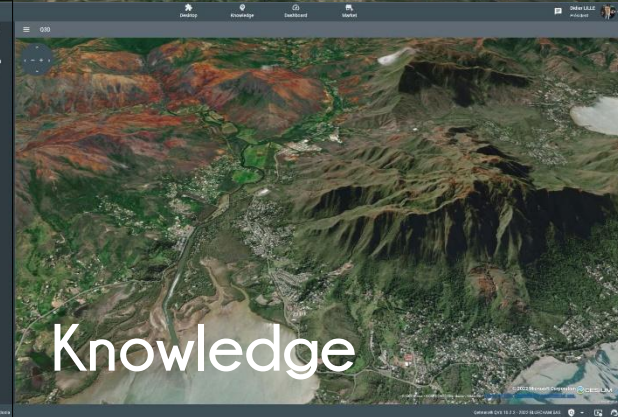


# Pacific Geospatial Conference 2022



SMART Digital Platforms



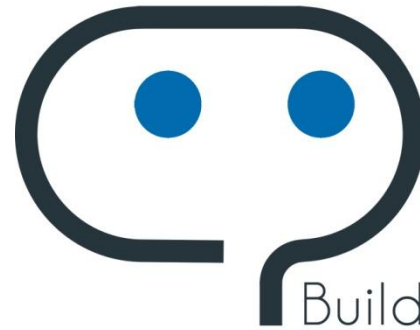
**NewSpace Technologies to fasten change detection linked to urban uncontrolled growth**

Rémi ANDREOLI, Chief Operating Officer, BLUECHAM SAS

# WHAT



*High added-value*



ehnelo

Build your own solutions



# URBAN UNCONTROLLED GROWTH

- Health and security issues
- Vulnerability to cyclones
- Vulnerability to drought
- Water supply concerns
- Administrative management

*The solution proposed is to detect early installation in order to propose alternative solutions to population before they settle.*





# EXAMPLE OF NIRAN CYCLONE



Impacts of Niran cyclones on uncontrolled settlements, March 2020 – SecureWatch FirstLook.

# HOW



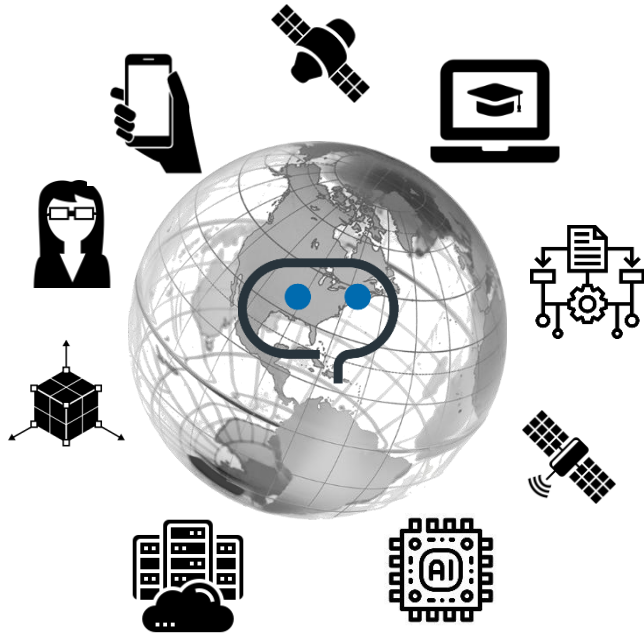
*High added-value*





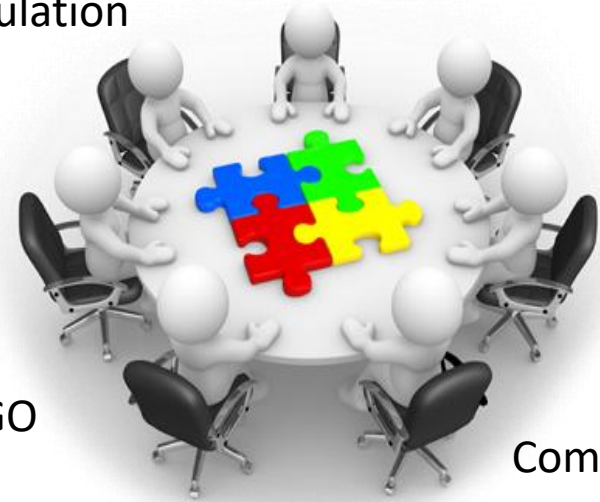
# ONE STEP FORWARD

Real time knowledge sharing for better decisions



Population

Decision makers



NGO

Companies

Sciences





# THE NEW GENERATION OF DECISION-SUPPORT SYSTEMS

## SMART Digital Platforms to adress complex issues

- Interoperability
- Deep Learning
- GEO Sat Big Data
- Community
- Market Place

QVX 2022 ONBOARDING

Didier LILLE  
CEO BLUECHAM

Garanteed  
It should work

FULL CLOUD  
No installation required  
Latest browser version is required

Qehnelo  
Build your own solutions

Qehnelo™ Onboarding Playlist, enjoy:  
<https://www.youtube.com/channel/UC->

Qehnelo™ VX © 2022 BLUECHAM SAS

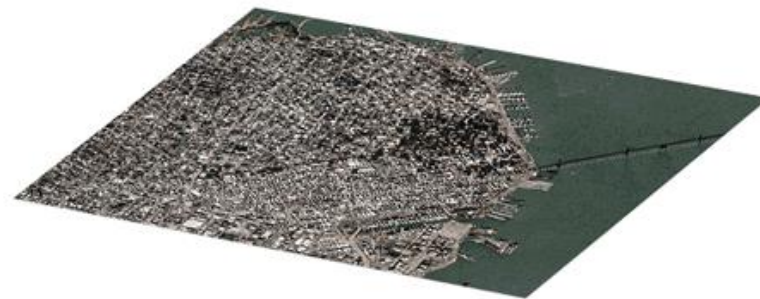




# METROLOGY

The right data at the right time

- Very High Resolution
- DataCube
- Analysis-Ready



**MAXAR**







# UBAN CHANGE MONITORING

Detect early changes from space

- Land clearing
- New buildings or building extensions
- New traditional gardens or gardens extension



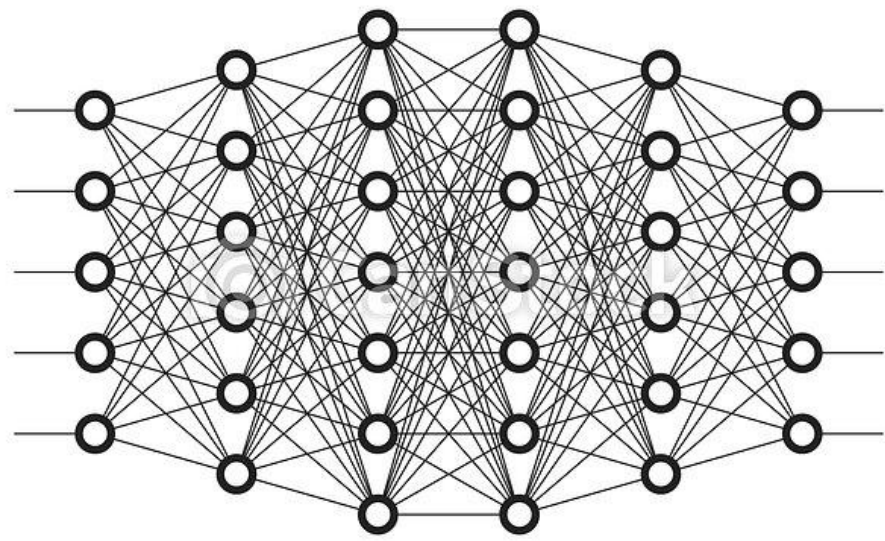
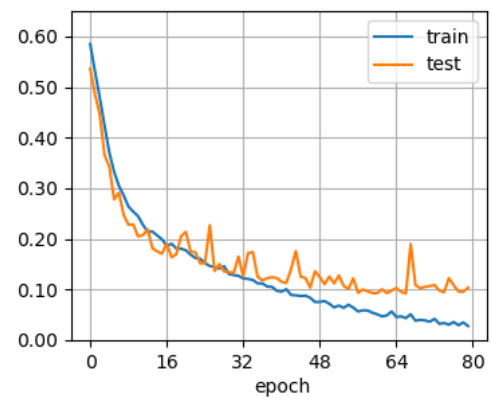
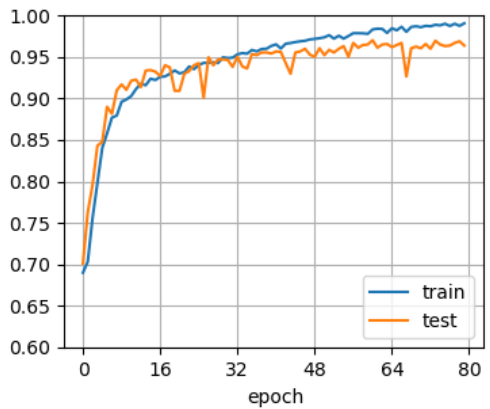
*Worldview-2/3, GeoEye-1 images, August 2022, October and November 2022, Processing Qehnelo QVX - UCM*



# UBAN CHANGE MONITORING

Detect early changes from space

- Building detection > 95%
- Gardens detection > 85%

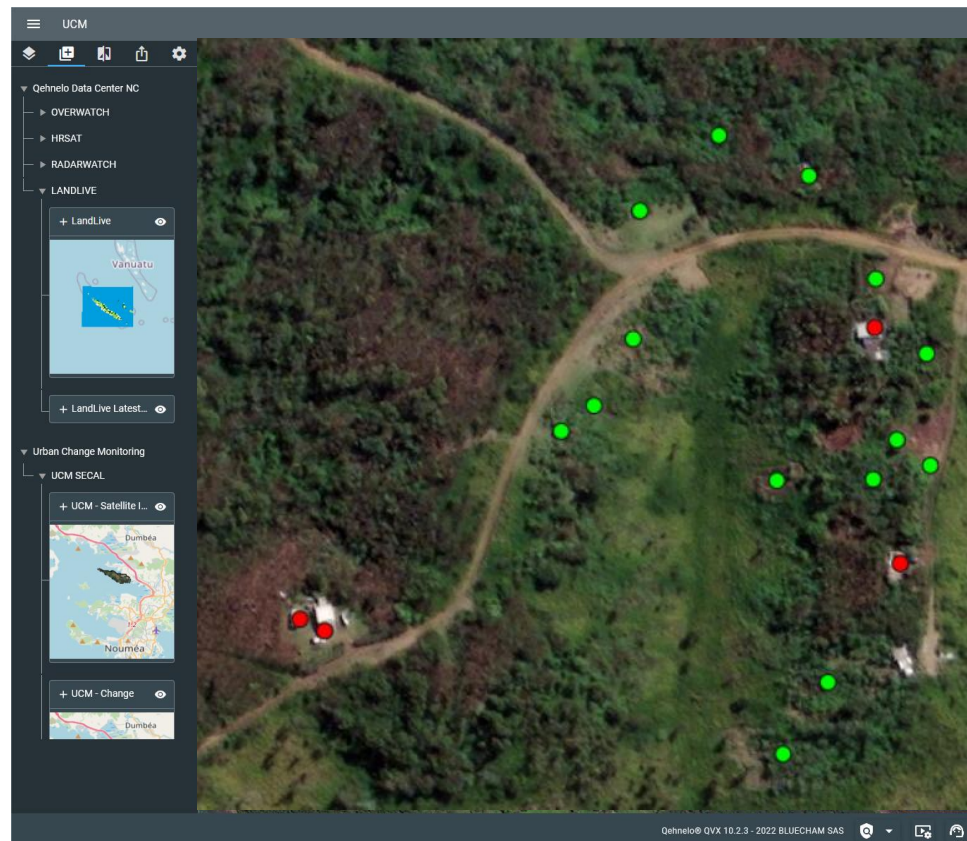




# UBAN CHANGE MONITORING App

Weekly detection

- Artificial Intelligence
- Interoperability
- Security

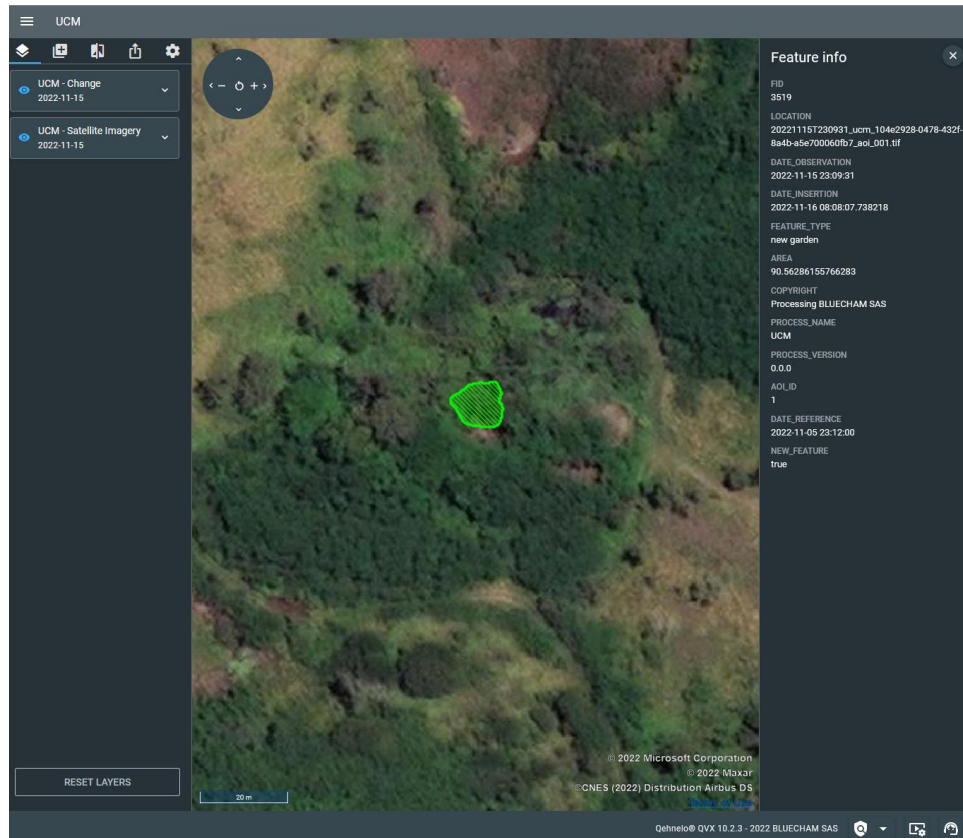




# UBAN CHANGE MONITORING App

## Identification

- Reference date
- Observation date
- New garden
- Area calculation

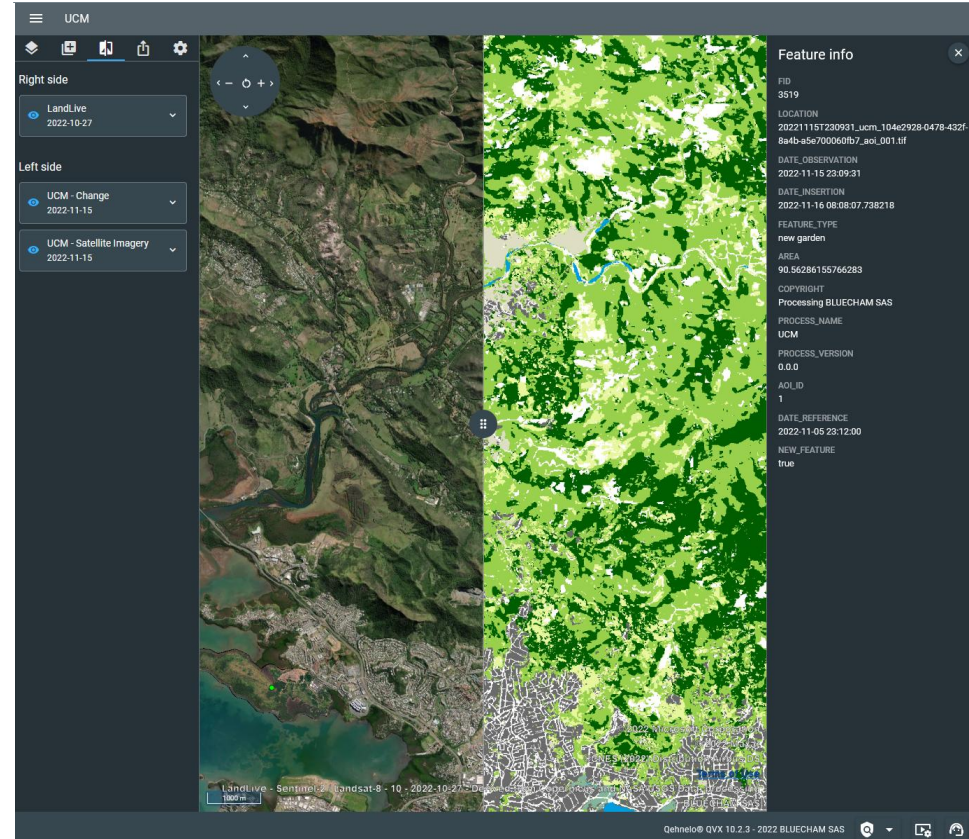




# UBAN CHANGE MONITORING App

## Comparison

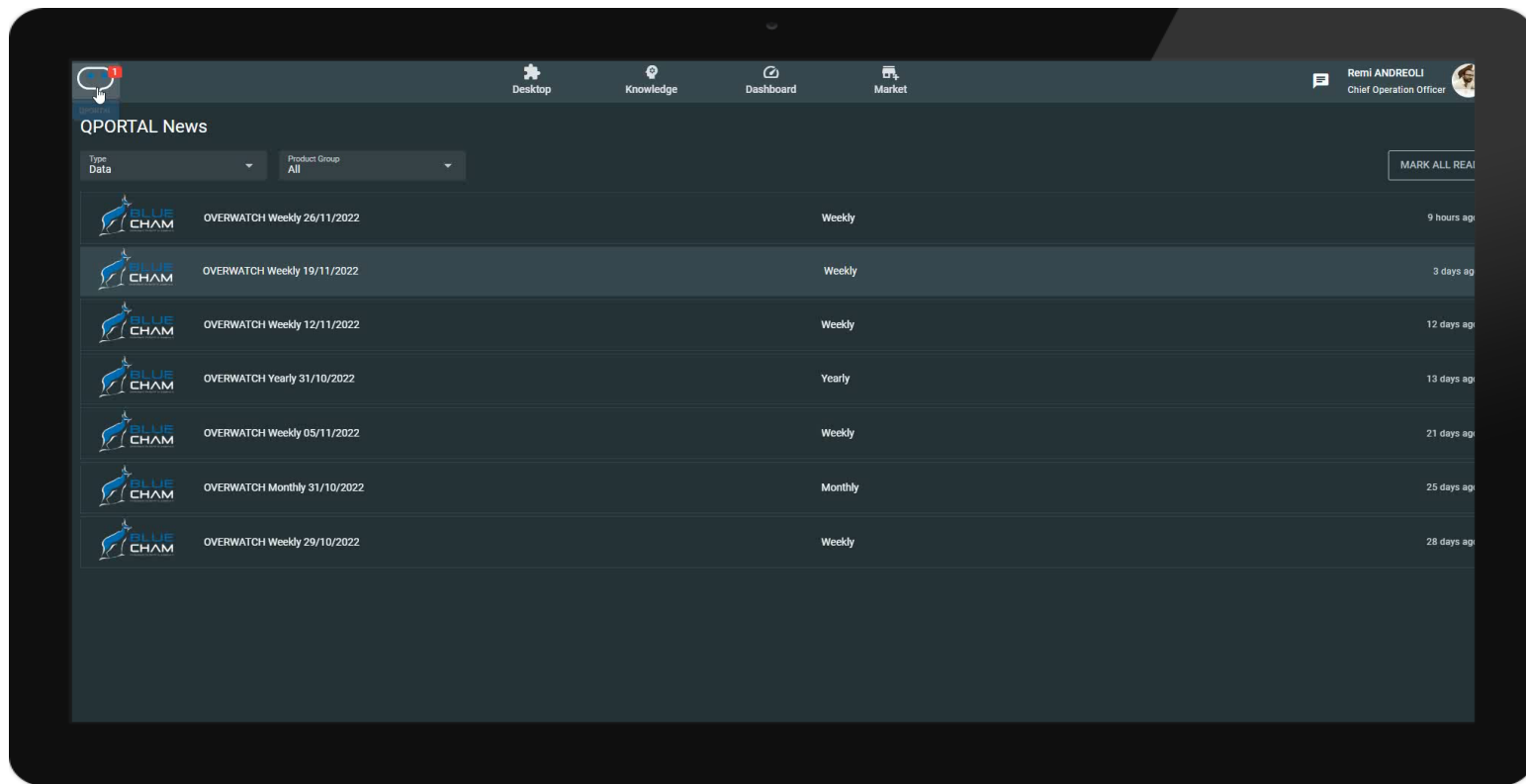
- Comparison
- Understanding the lanscape
- Long time series
- Statistics





# UBAN CHANGE MONITORING app

In action



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

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# SMART DIGITAL PLATFORMS

Worldwide





## Pacific Geospatial Conference 2022

Vinaka

**NewSpace Technologies to fasten change detection linked  
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Rémi ANDREOLI



**BLUE  
CHAM**

Comprendre la Terre pour mieux la préserver