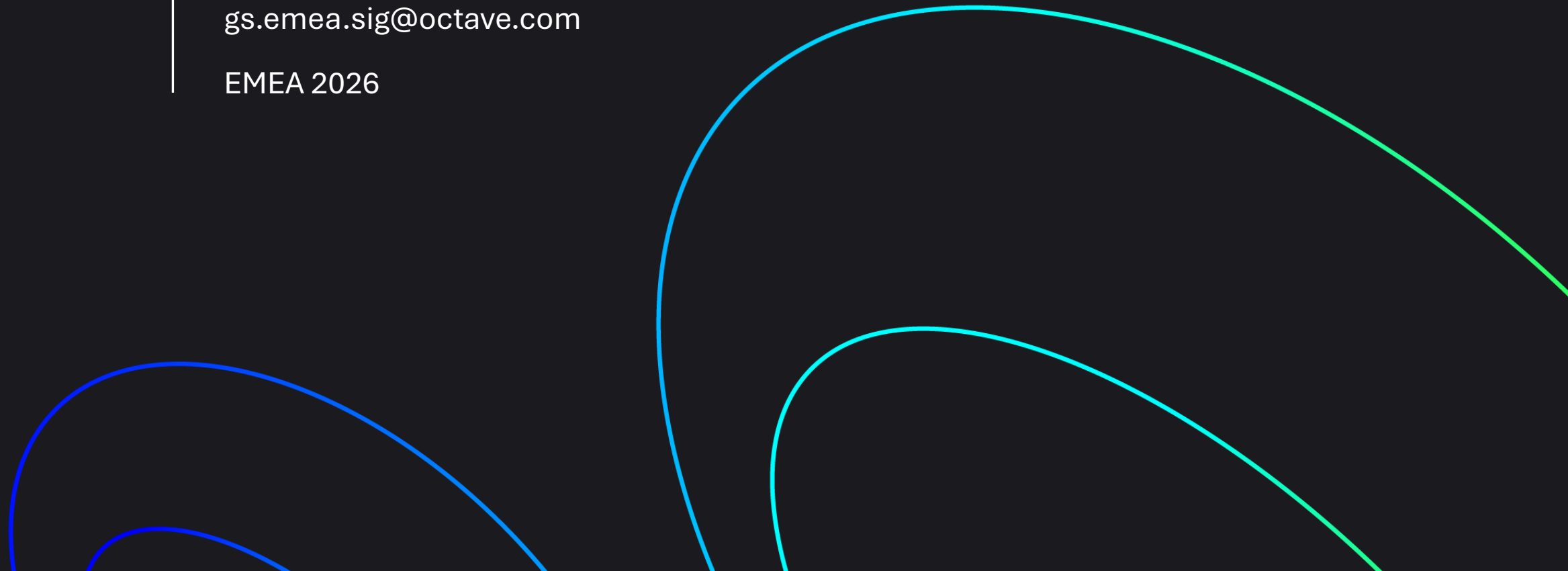
Digital reality solutions for defence and intelligence

gs.emea.sig@octave.com

EMEA 2026



Intelligence at scale

For the physical world



Design

intelligence modelled

Build

intelligence materializes

Operate

intelligence compounds

Protect

intelligence is durable

Octave defence capabilities: A unified thread of intelligence

DESIGN
Simulation and engineering

DESIGN WITH PRECISION
Use 3D modeling and simulation to catch errors before deployment in the field.

ENGINEERING ANALYSIS AND VALIDATION
Rigorous digital model stress testing.

BUILD
Supply chain and resource management

MISSION-READY SUPPLY CHAINS
Coordinate resources & projects over entire supply chain

CONSTRUCTION MANAGEMENT
Construction planning to keep large-scale defence projects on schedule.



PROTECT
Incidents, physical security and cybersecurity

HARDEN INFRASTRUCTURE
Deploy physical security and cyber integrity solutions to manage facilities, and security.

INCIDENT RESPONSE
React to events, dispatch resources and mange resources via cloud based C2.

OPERATE
Asset management and real-time monitoring

SITUATIONAL AWARENESS
Real-time monitoring and mission monitoring.

DIGITAL TWINS
Reduce downtime, boost maintenance efficiency and make smarter decisions.

Design with precision

DIGITAL MODELING AND SIMULATION

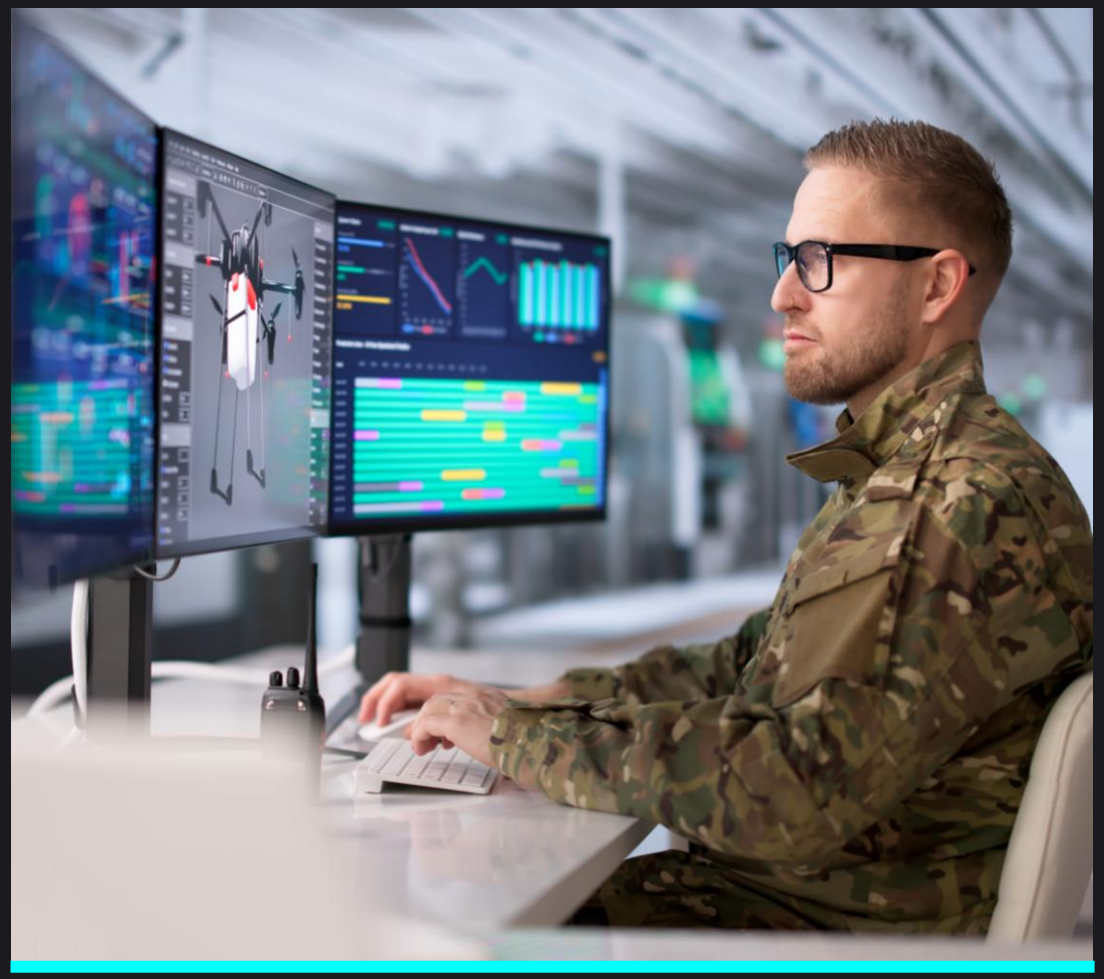
Catch errors in a digital model before they become costly failures in the field using 3D modeling and engineering analysis.

DESIGN AND ANALYSIS

Leverage tools like engineering analysis & design tools for high-fidelity engineering & geographic simulations of defence assets.

MISSION REHEARSAL AND ANALYSIS

Reduce risk by briefing with real world data showing differing scenarios.



Build on schedule

SOVEREIGN SUPPLY CHAIN COORDINATION

Manage billion-dollar defence projects with resource management tools that ensure construction and production remain on budget.

MATERIAL READINESS

Use planning and scheduling software tools to ensure materials and resources are exactly where they need to be for military infrastructure projects.

MONITOR CHANGE

Use remote sensing techniques to know of ground works, infrastructure works and damage in your adversaries' territories.



Operate without surprises

REAL-TIME ASSET PERFORMANCE

Transform reactive maintenance into proactive mission readiness through digital twins with real-time monitoring and quality assurance.

ISR (INTELLIGENCE, SURVEILLANCE, RECONNAISSANCE)

Leverage automation and AI to transform vast amounts of geospatial data into actionable intelligence for field operations.

SITUATIONAL AWARENESS

Build high-performance visualization for real-time tracking of assets and threats across land, sea and air using software toolkits.



Protect what matters most

CRITICAL INFRASTRUCTURE

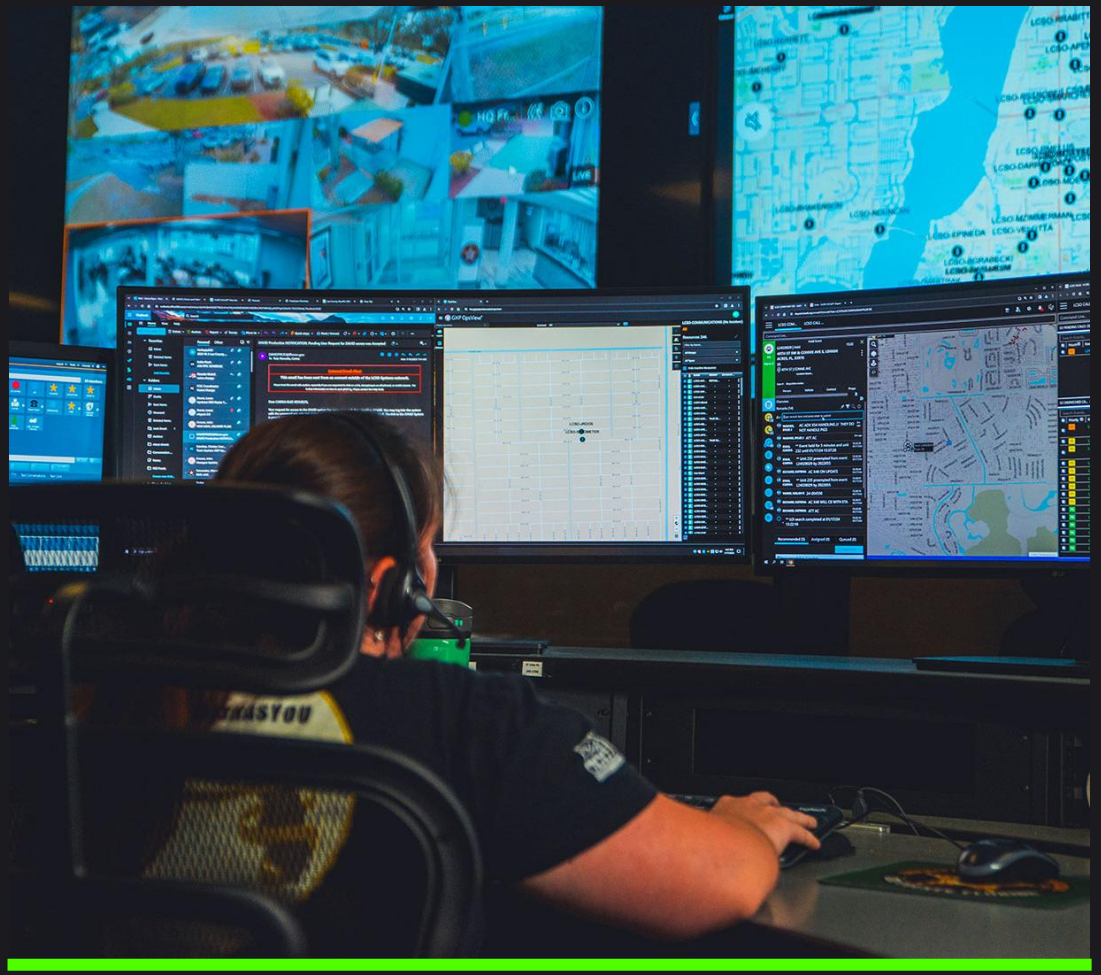
Ensure sites are secured beyond, around and within their perimeter using physical security monitoring and alerting.

CYBERSECURITY FOR INDUSTRIAL CONTROL

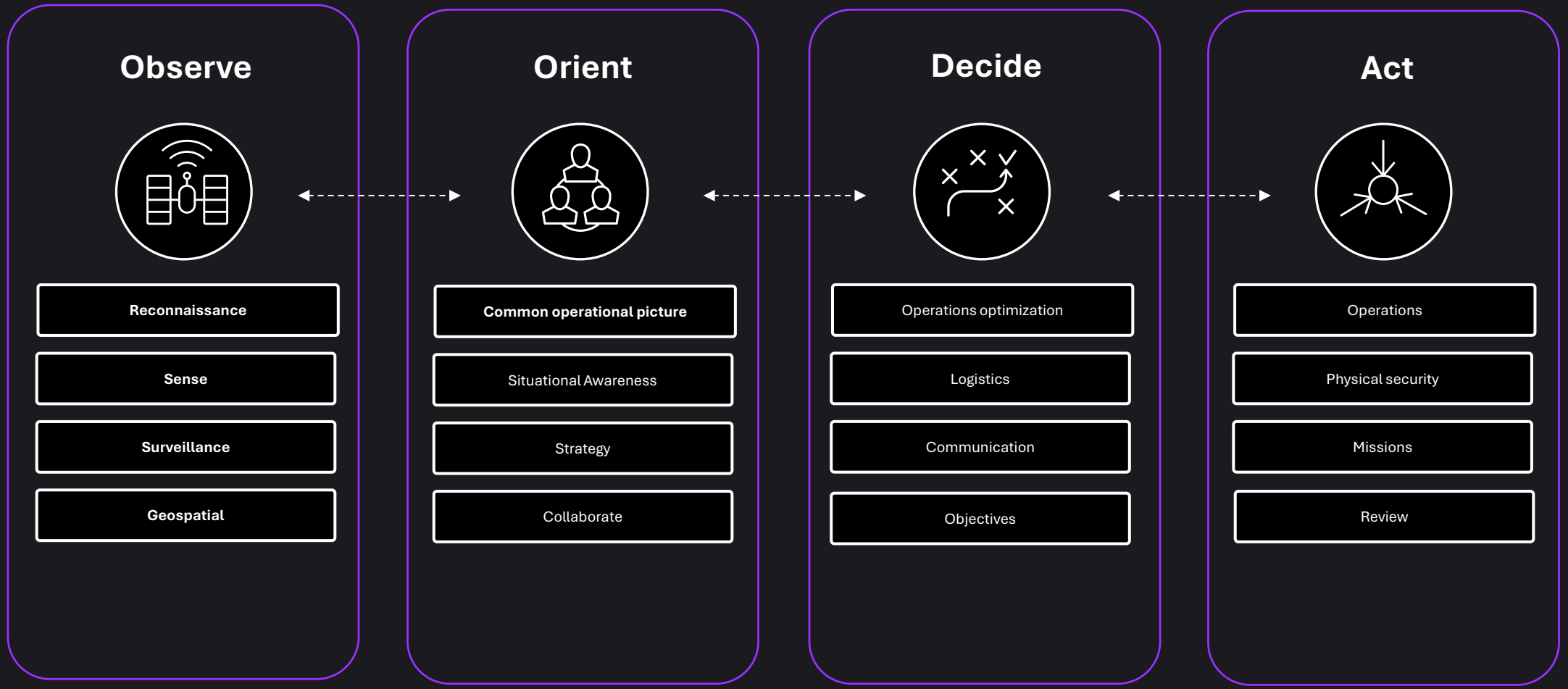
Protects the underlying, operational technology of mission-critical facilities from digital threats.

INCIDENT RESPONSE AND MILITARY POLICE

Includes dispatch, records and more to protect personnel and national infrastructure.



Delivering scalable outcomes across mission-critical workflows



Octave provides a complete ecosystem for digital defence



ACQUISITION



VISUALISATION



SIMULATION



AUTOMATION



COLLABORATION



UNDERSTANDING

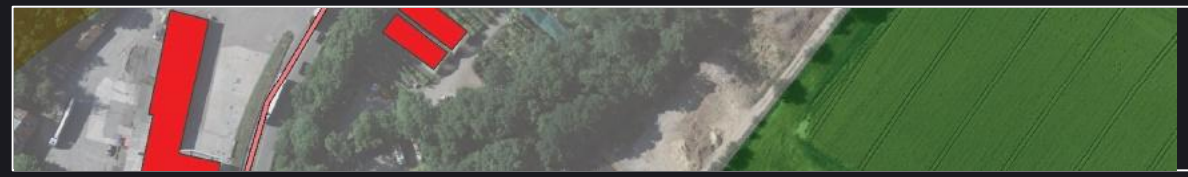


MISSION



INTEGRATION

Octave’s geospatial capabilities for defence and intelligence



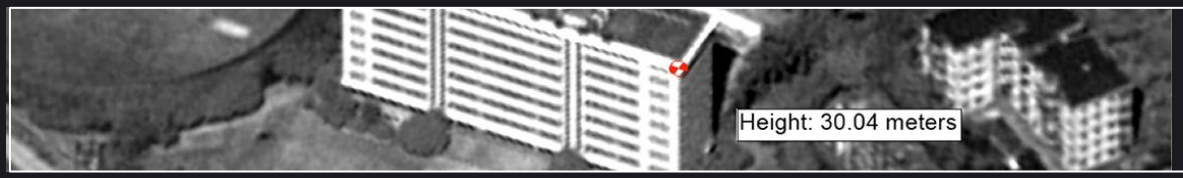
Data analysis and map production



Geospatial intelligence exploitation



Motion video exploitation



Real-time situational awareness

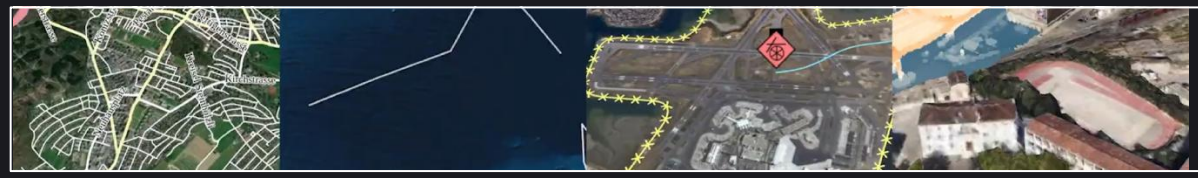


Geospatial data management

Octave’s geospatial capabilities for defence and intelligence



Collaboration



Software development kit



Perimeter security



Reality capture



Base management

Defence and intelligence capabilities: Land, air, sea, cyber, space and joint security forces

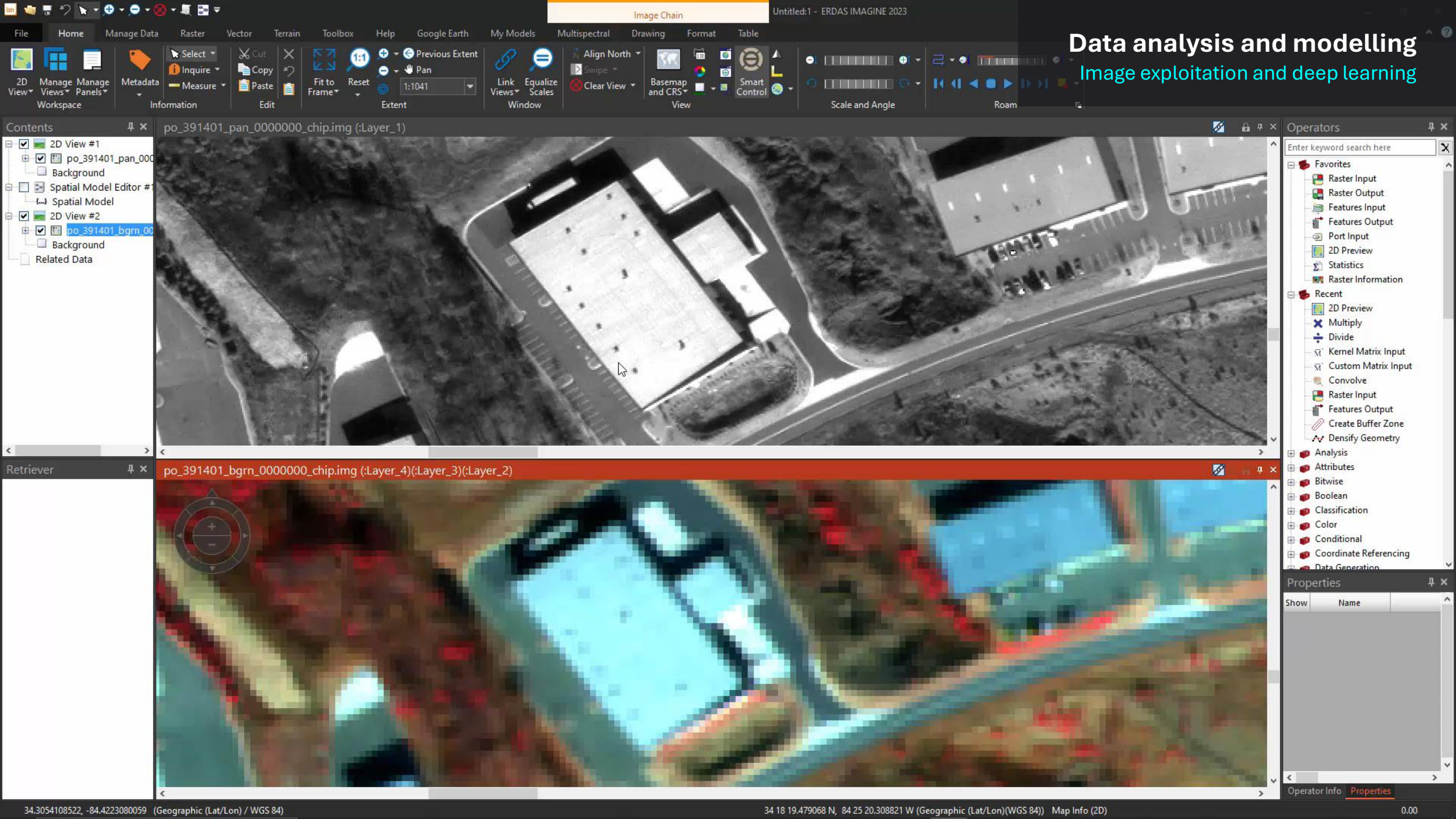
- GEOINT, mapping and charting
- C2, C4ISR, C6ISR, GEOINT
- Administration solutions
- Unmanned operations
- Missile defence
- Surveillance and security
- Battle management
- Modelling and simulation
- Dismounted applications for future soldiers
- Coastal surveillance and maritime operations
- Mission preparation, planning, simulation and execution

MISSION SIMULATION — MISSION PLANNING — MISSION EXECUTION — MISSION DEBRIEF & ANALYSIS



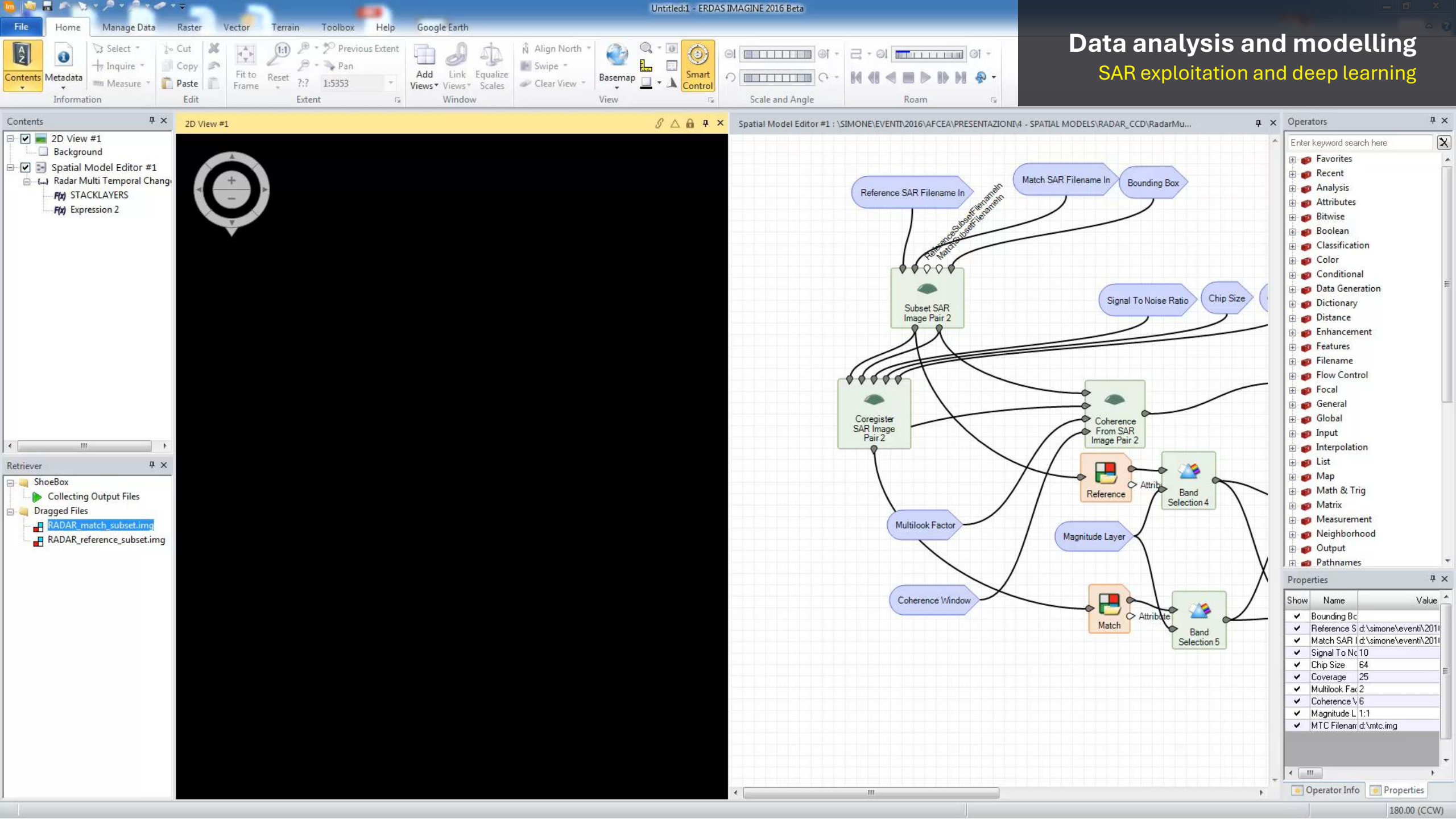
Data analysis and modelling

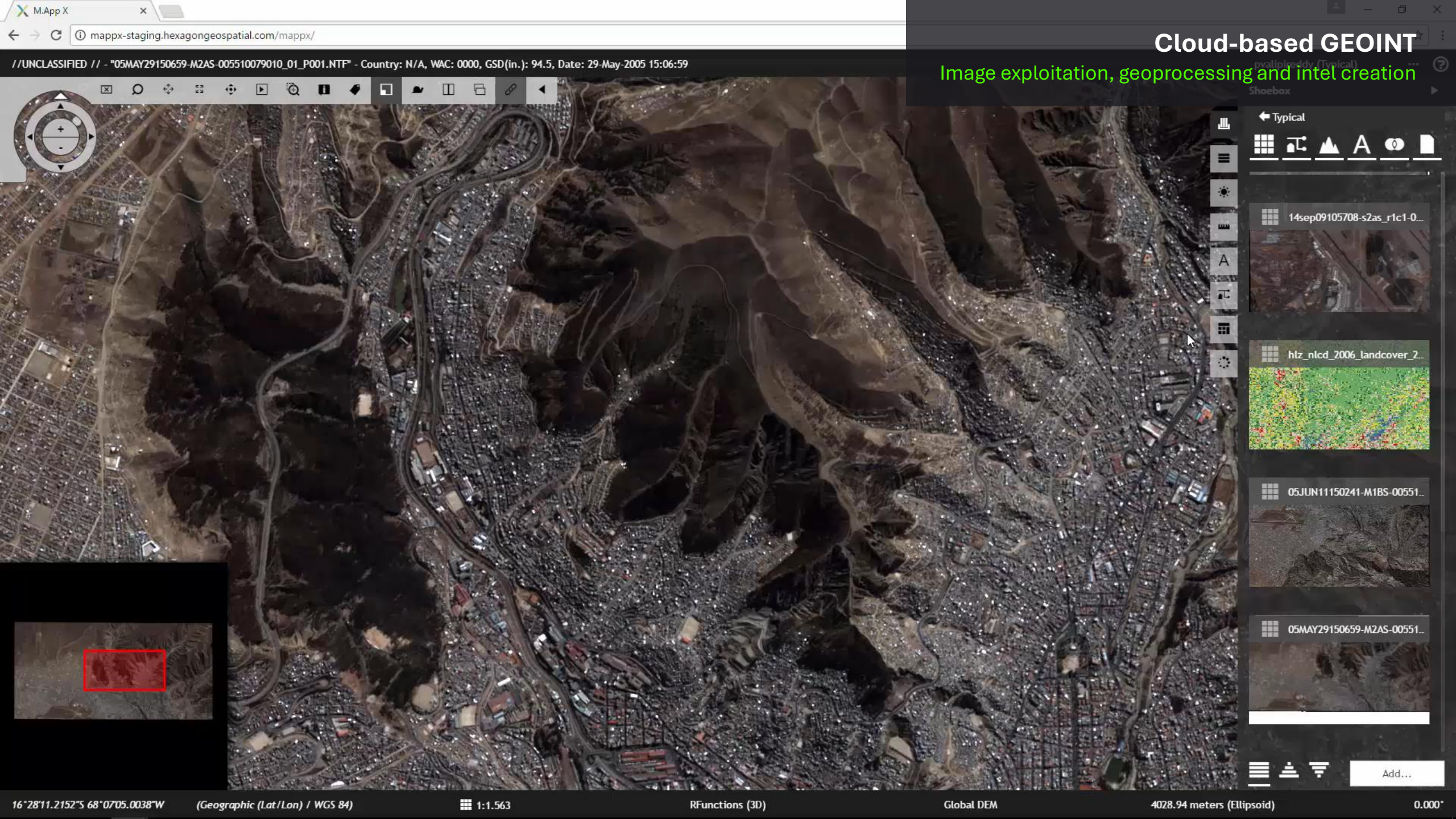
Image exploitation and deep learning



Data analysis and modelling

SAR exploitation and deep learning




M.App X
mappx-staging.hexagongeospatial.com/mappx/
//UNCLASSIFIED // - "05MAY29150659-M2AS-005510079010_01_P001.NTF" - Country: N/A, WAC: 0000, GSD(in.): 94.5, Date: 29-May-2005 15:06:59
Cloud-based GEOINT
Image exploitation, geoprocessing and intel creation
Typical
14sep09105708-s2as_r1c1-0...
hlz_nlcd_2006_landcover_2...
05JUN11150241-M1BS-00551...
05MAY29150659-M2AS-00551...
Add...
16°28'11.2152"S 68°07'05.0038"W
(Geographic (Lat/Lon) / WGS 84)
1:1,563
RFunctions (3D)
Global DEM
4028.94 meters (Ellipsoid)
0.000°

Map and chart production

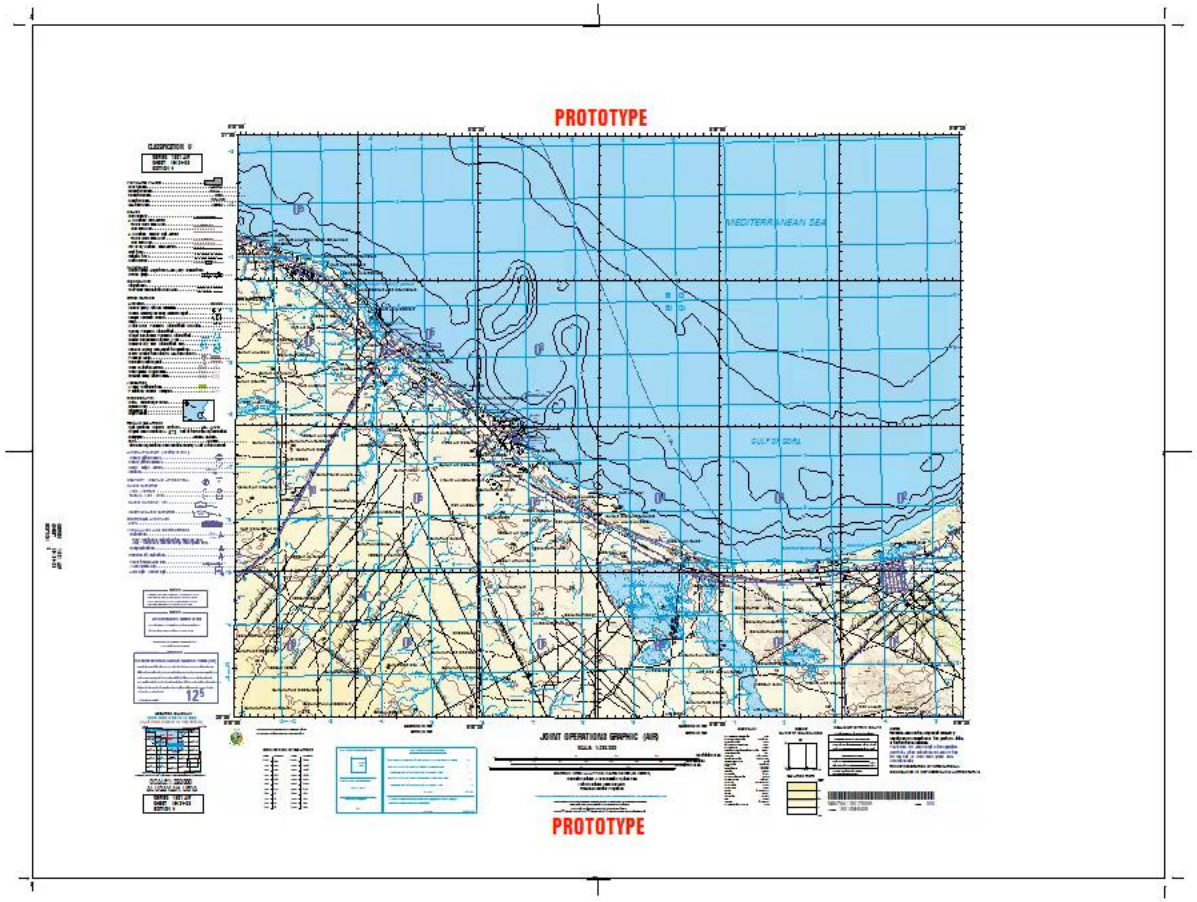
Automation of production workflows

GeoMedia Professional - NH_3405_2.gws - [NH 34-05]

Home | Manage Data | Analysis | Vector | Labeling | Raster | Toolbox | Grid | Collection | Image Pro | GI ToolKit | Video Pro

Select | Unselect All | Selection
Map Display | Coordinate System | Select Set | Geometry | WMS Info | Properties and Information
Measure Distance | Measure Angle | Measure
Legends | Styles | Legend
Insert | Edit | Delete | Undo | Redo | Edit
Display Location | Locations
Explorer | Explorer
Fit | Zoom to | Pan | Update | Extent
Arrange Windows | Add / Show Windows | NH 34-05 | Window
Properties

NH 34-05
- NH 34-05
  - Margin
  - Map
  - Labels
  - Shaded_Relief



Display Order | Groups

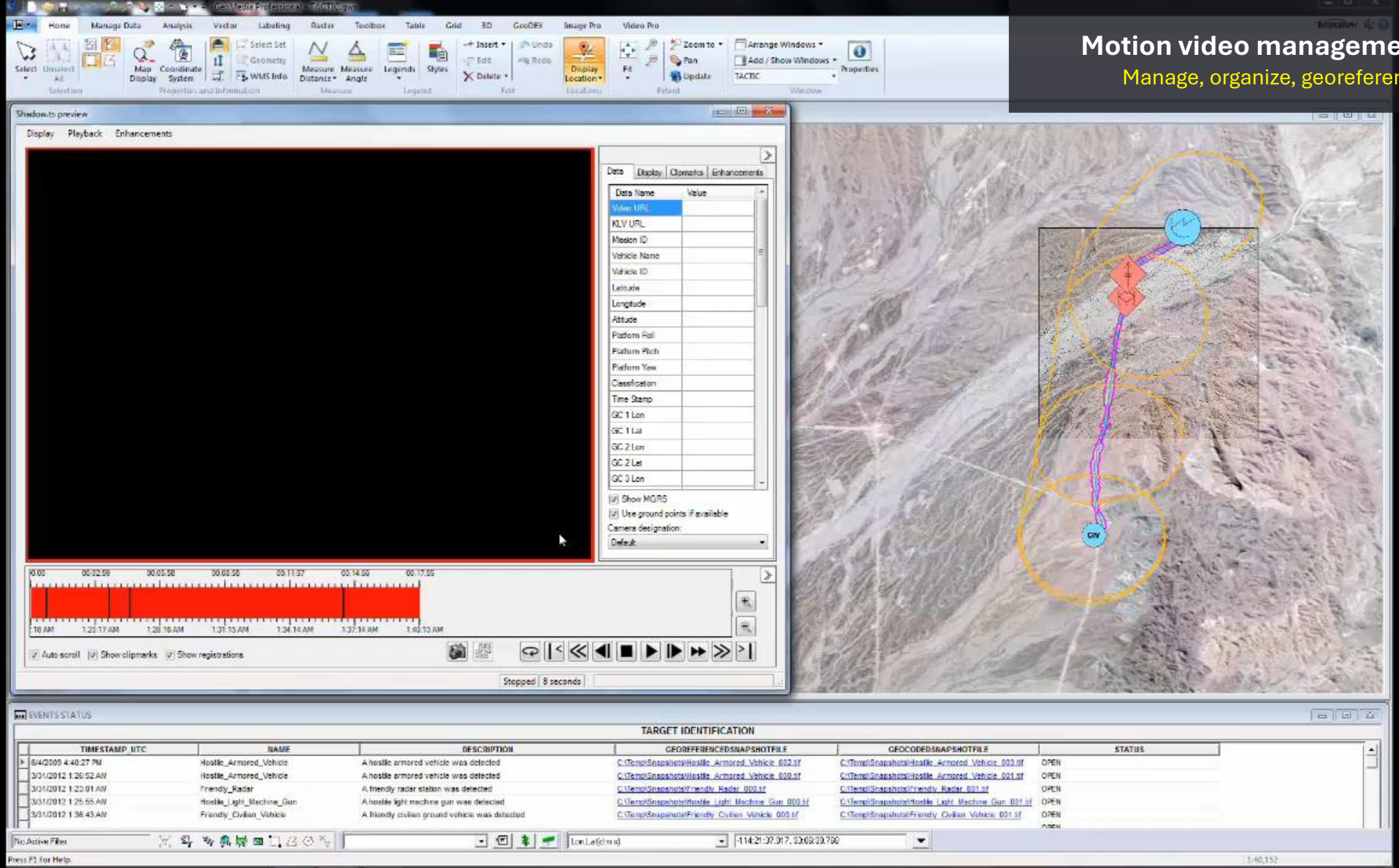
No Active Filter

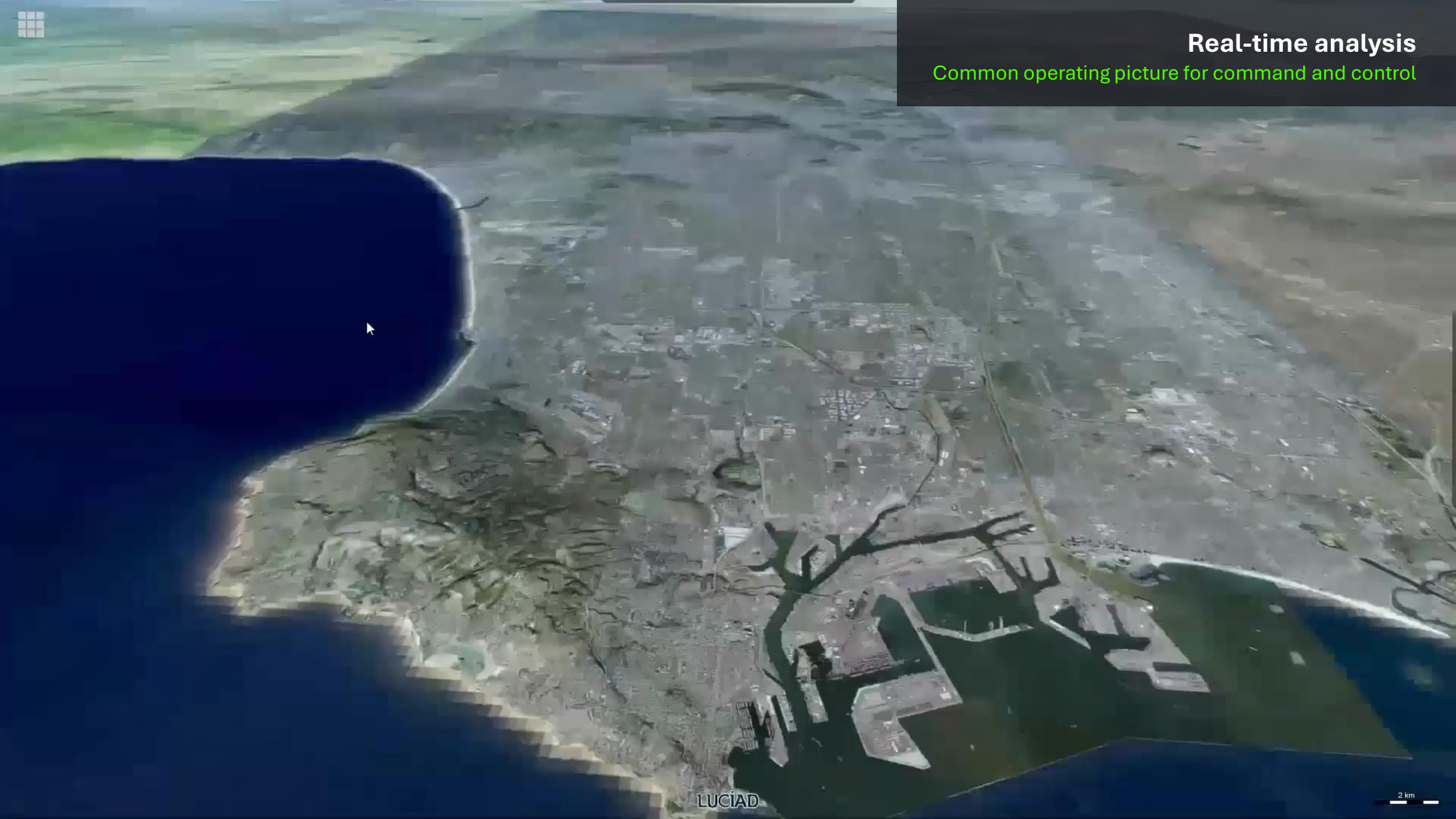
Lon,Lat(d:m:s) 20:31:38.091, 29:41:25.780

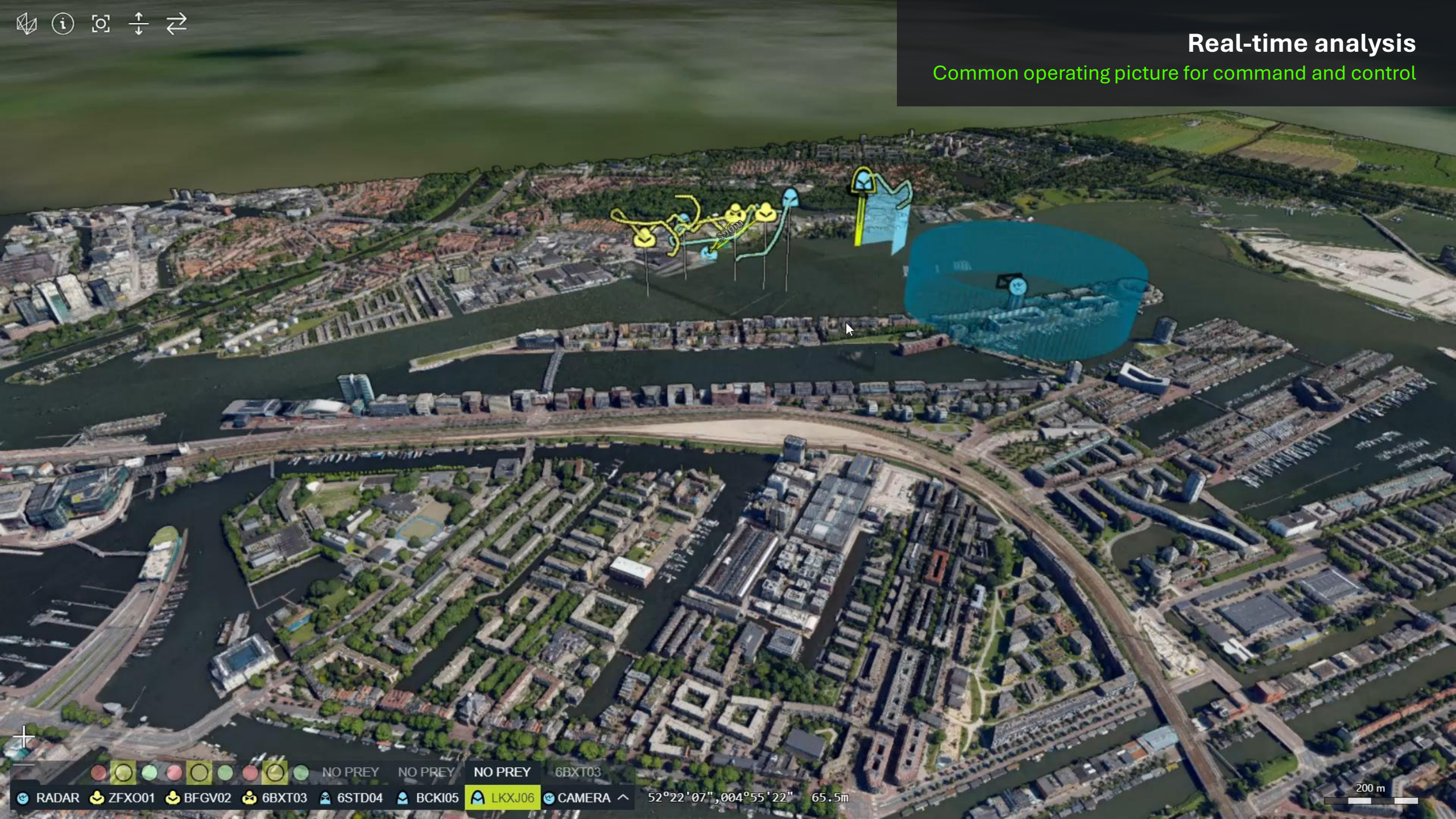
Press F1 for Help

Motion video management

Manage, organize, georeference

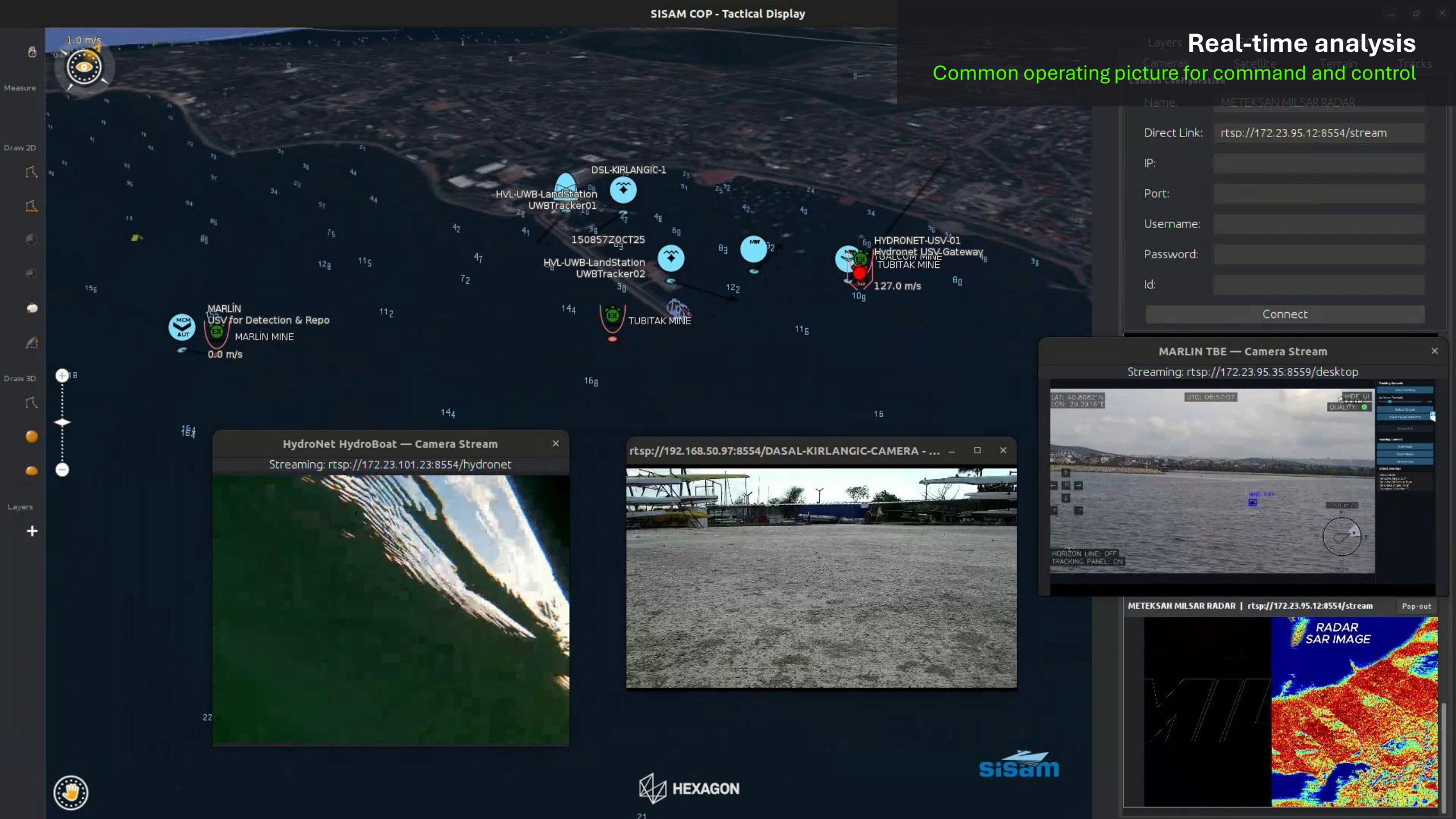



Real-time analysis
Common operating picture for command and control
LUCIAD
2 km


Real-time analysis
Common operating picture for command and control
NO PREY
NO PREY
NO PREY
6BXT03
RADAR
ZFXO01
BFGV02
6BXT03
6STD04
BCKI05
LKXJ06
CAMERA
52°22'07",004°55'22"
65.5m
200 m

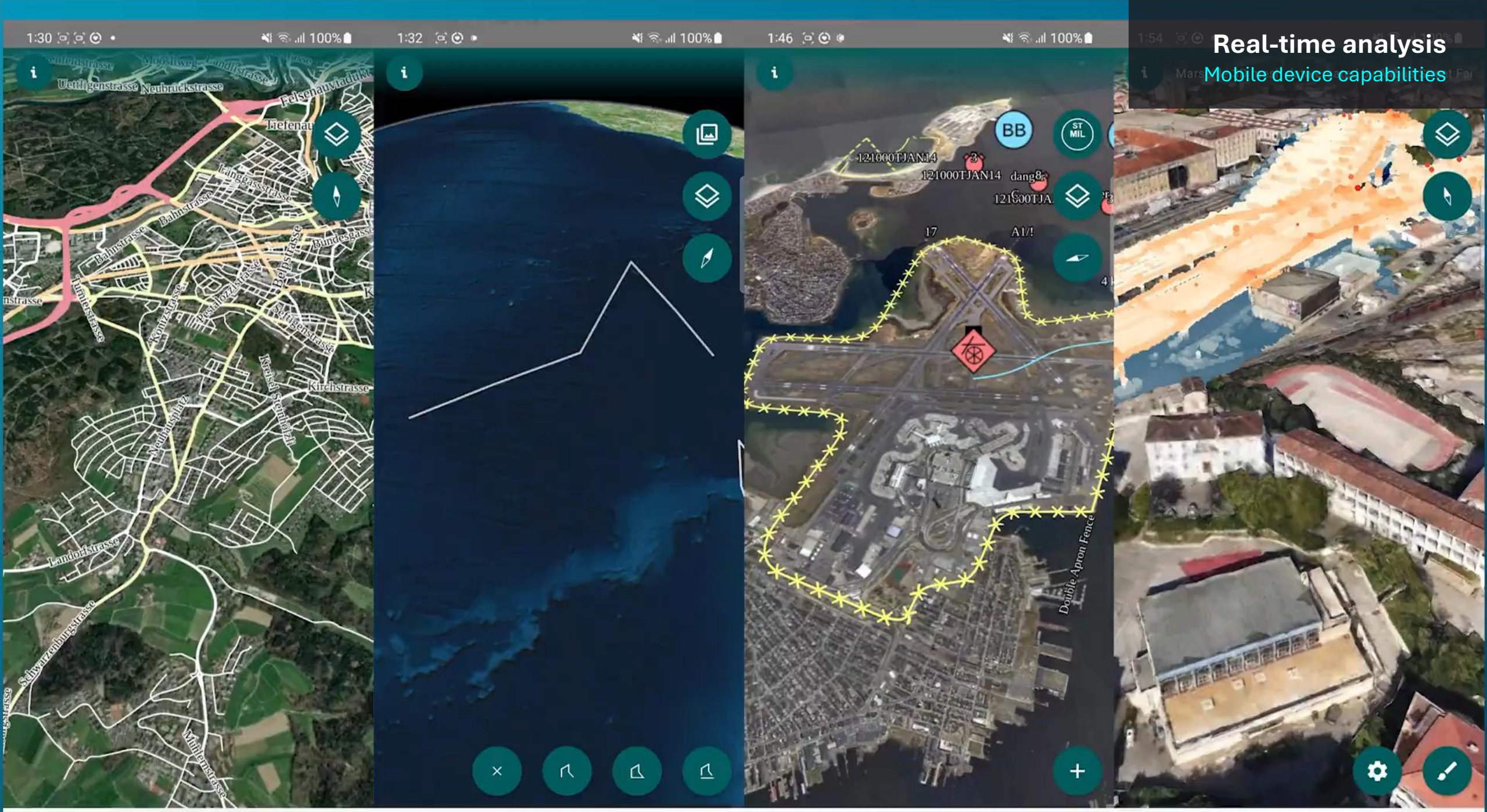
Real-time analysis

Common operating picture for command and control



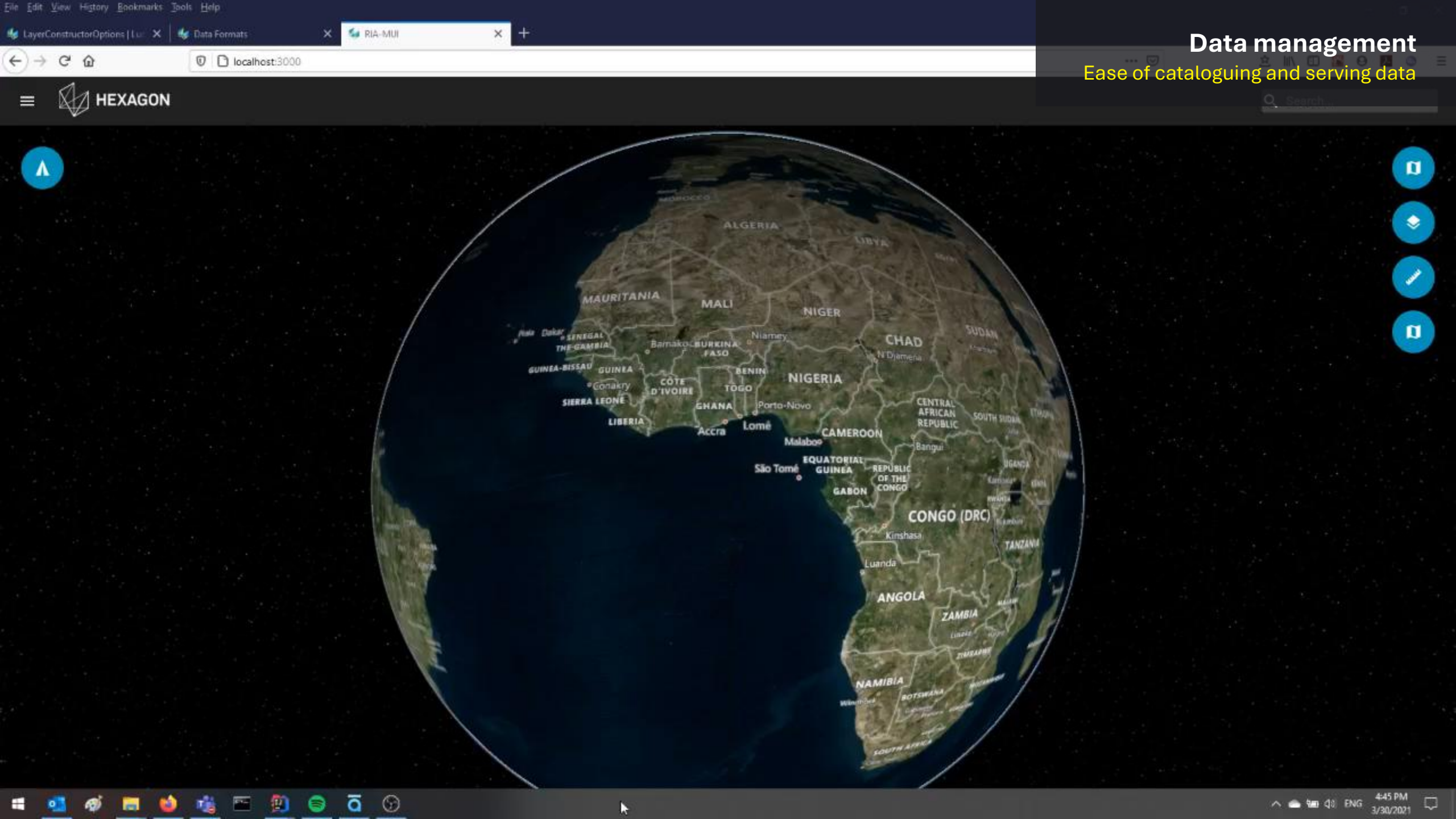
Real-time analysis

Mobile device capabilities



Data management

Ease of cataloguing and serving data



Octave’s software defined defence

Observe

Orient

Act



AUTOMATE
INTELLIGENCE
EXTRACTION



Decide

Positioning

Location intelligence

Thank you

gs.emea.sig@octave.com

