NSGIS™
NORTHSOUTH GIS

A Practical Approach to GIS in Ports

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NSGIS

www.nsgis.com

Company

- NorthSouth GIS LLC
- Founded in 2005
- Headquarters in Los Angeles
- Geospatial Systems Integrator
- An integral member of the Ports industry
- Esri's leading partner in ports
- Esri Gold Partner since 2010

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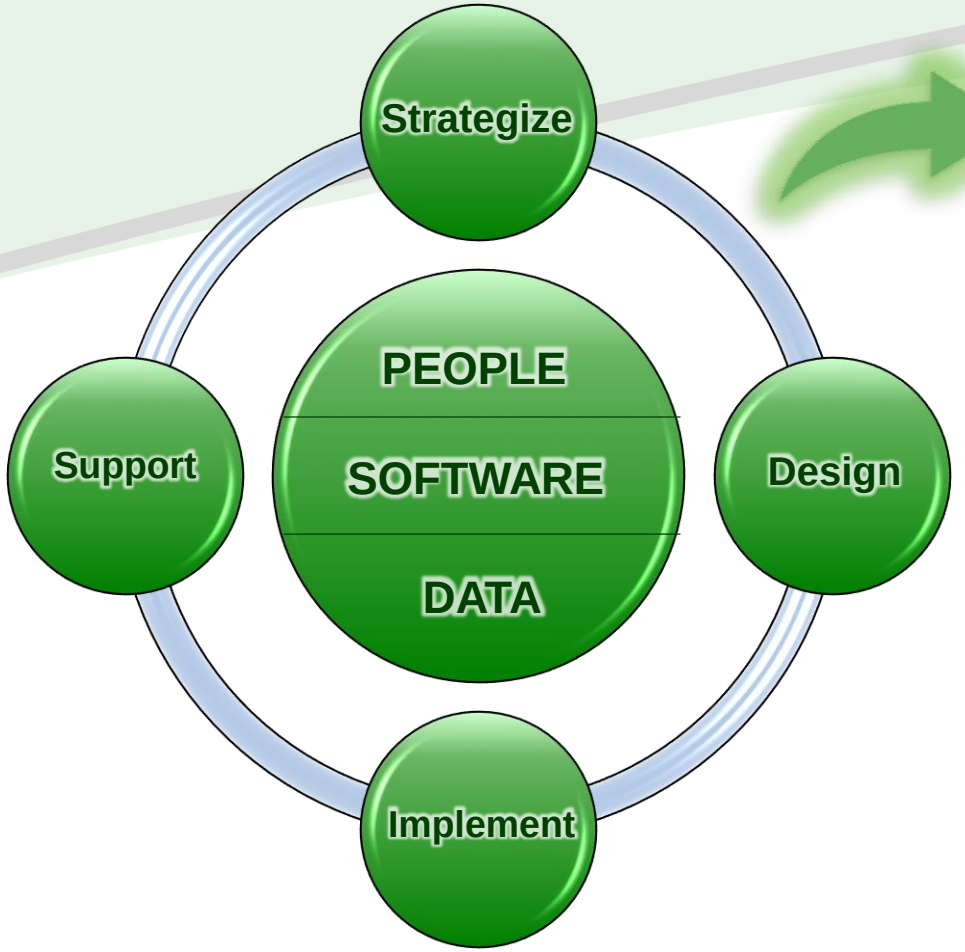
What We Do For Ports



Needs Assessments
Strategic Plans
Grants, RFPs, Contracts
Implementation Design
System Architecture
Software Implementation
Geodatabase Design
Data Conversion
Systems Integration
COTS Systems
Custom Development
Training and Outreach
Support
Staffing

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Strategic Planning

- Port of Houston
- Port of Vancouver
- Port Tampa Bay
- Port of San Diego

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Common Themes

- Governance
- IT & Engineering
- Standards
- Education
- Staffing
- Maps *and* Apps
- Integration
- Leases
- Berths
- Utilities
- Critical Infrastructure
- Vessels
- Documents

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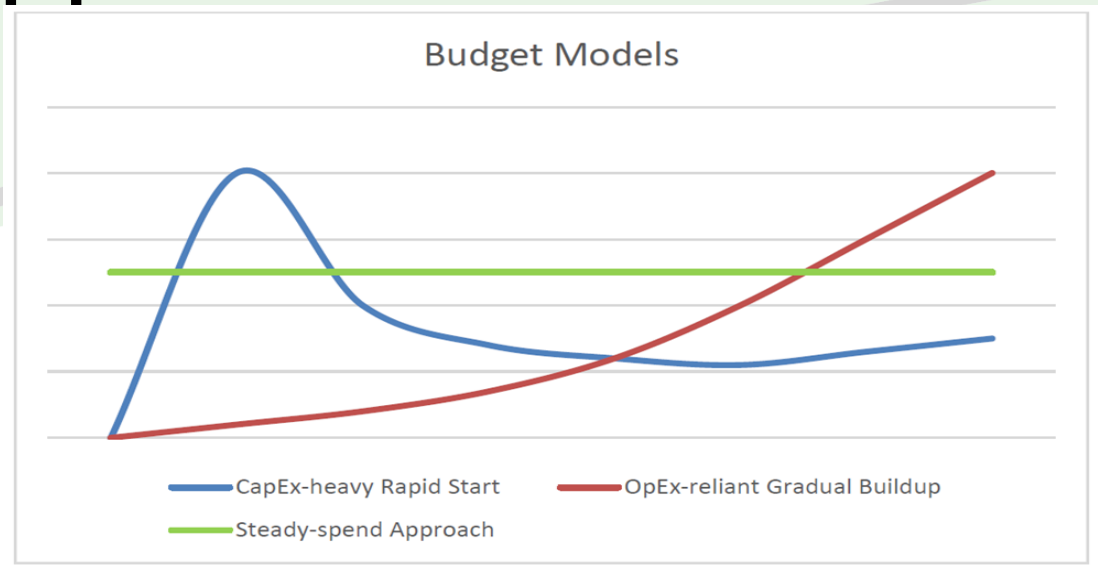
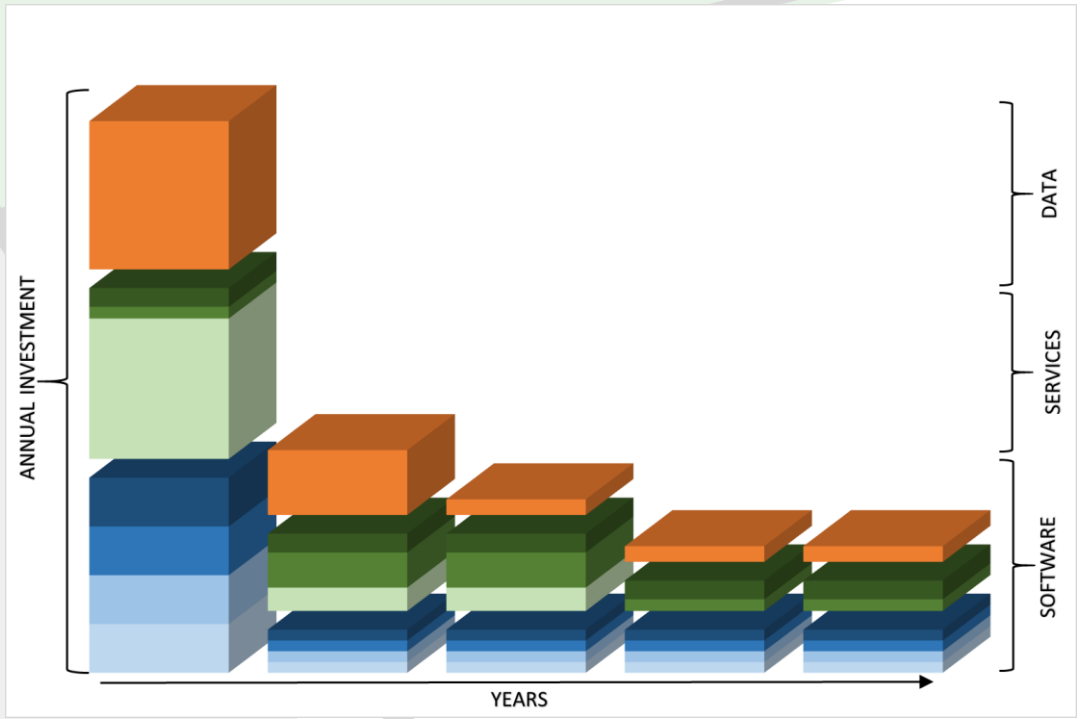
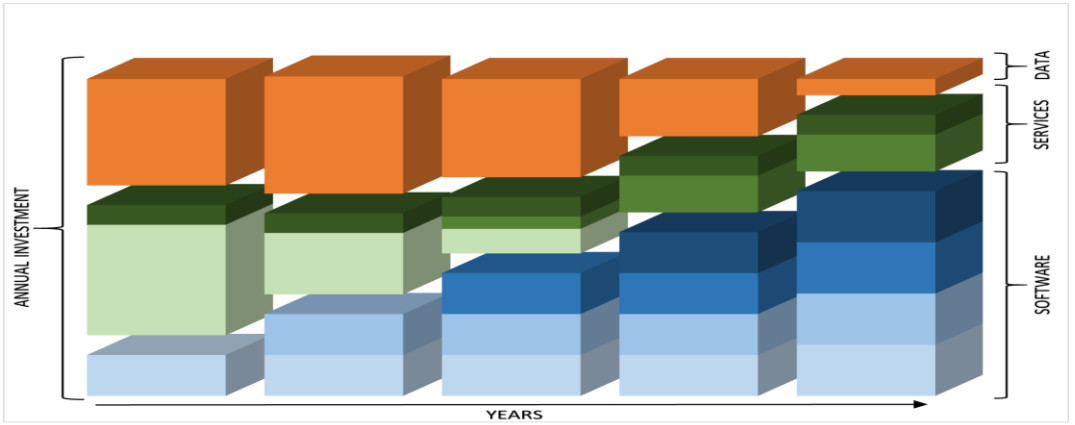
Common Approaches







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Ports

- Port of Los Angeles
- Port of Oakland
- Port of Stockton
- Port of Tacoma
- Port Tampa Bay
- Port of Vancouver
- Port of Long Beach
- Port of San Diego
- Port of Hueneme
- Port of Houston
- Port of Charleston

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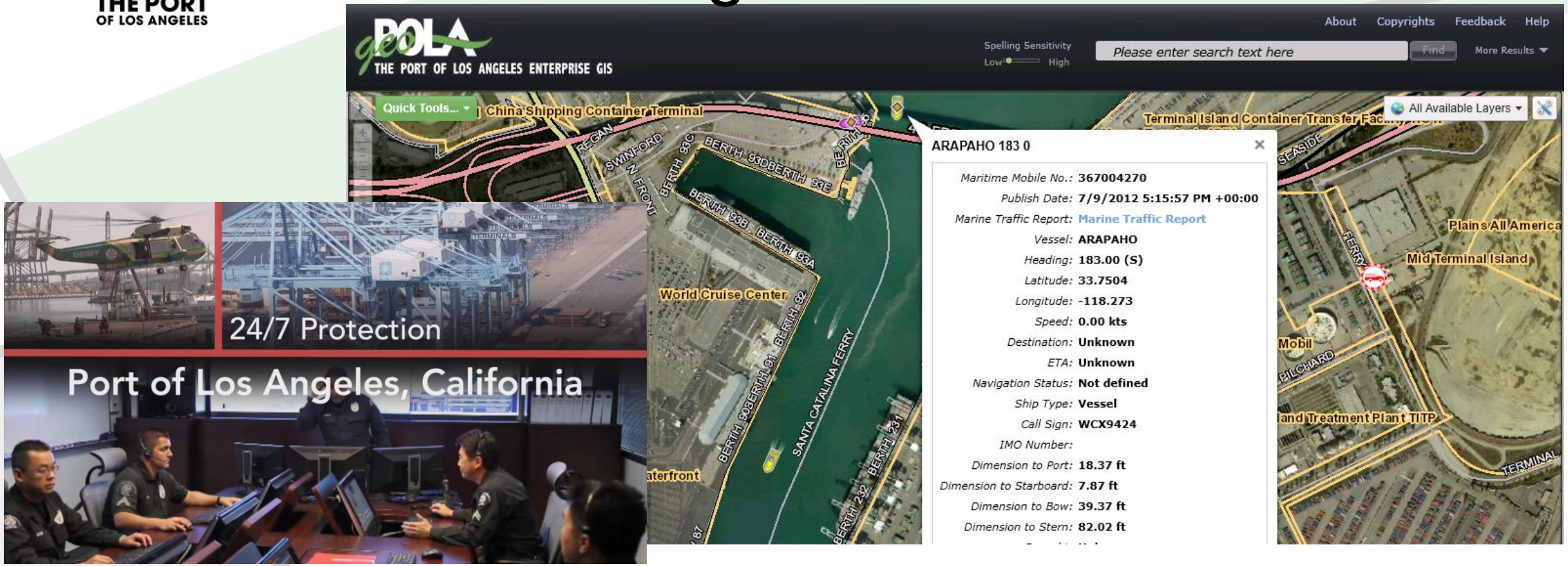
Port of Los Angeles



Los Angeles collaborates internally better because of NSGIS's enterprise approach and system integrations

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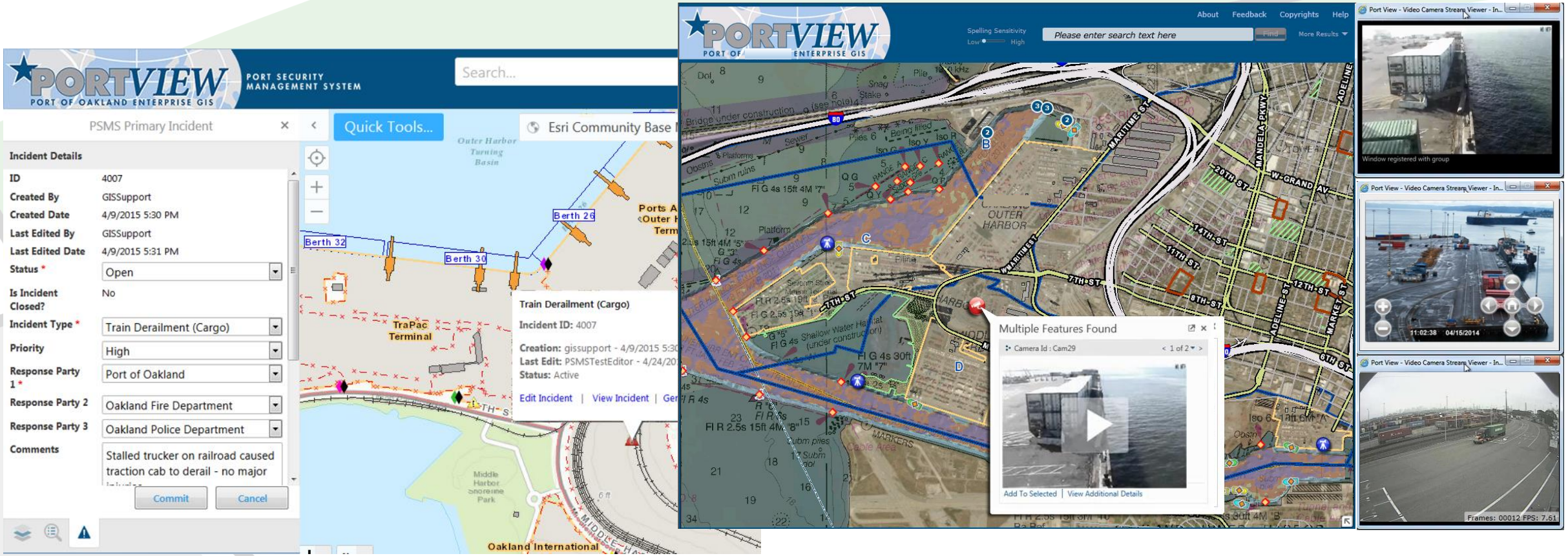
Port of Oakland



Oakland runs its 24/7 Security Operations Center with Enesgy™ for Ports

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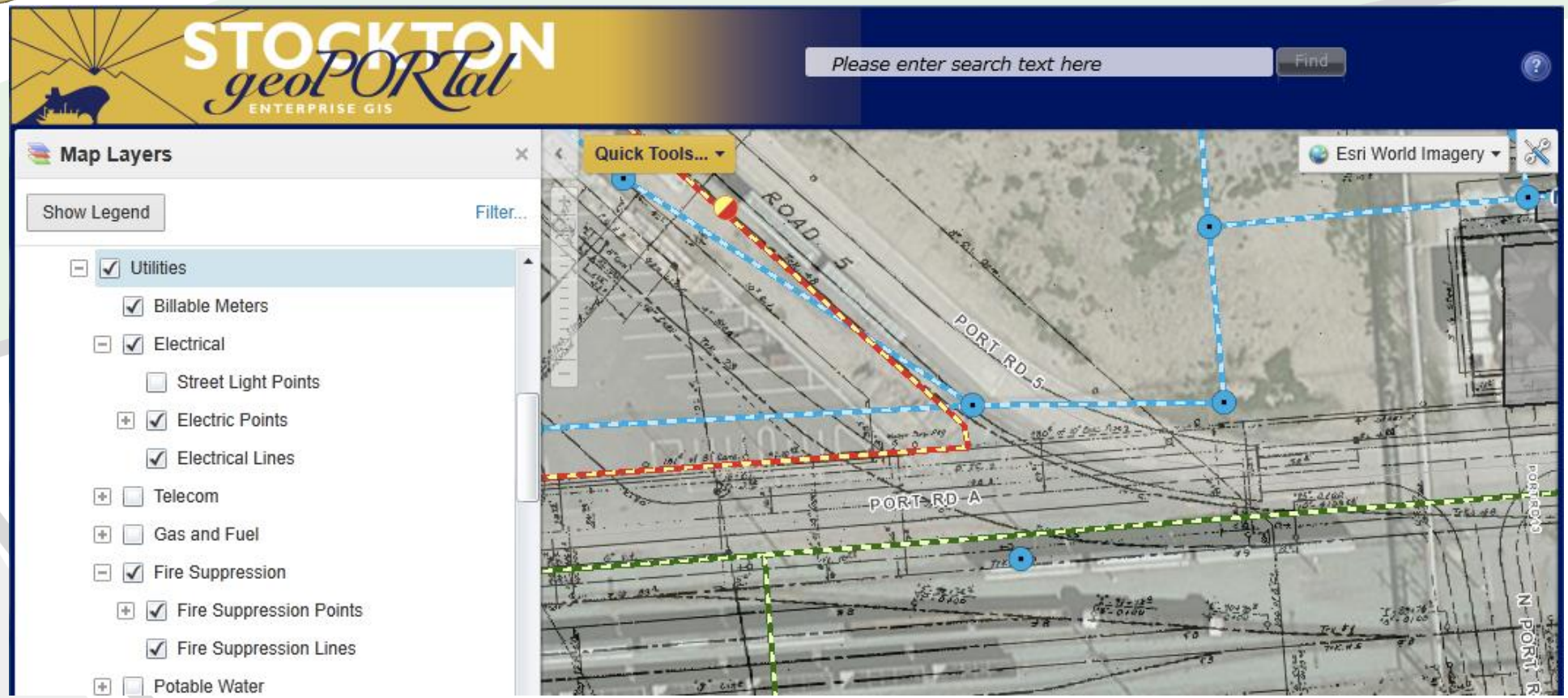
Port of Stockton



Stockton is ensuring their utility data is accurate by linking GIS to vintage paper and CAD as-builts

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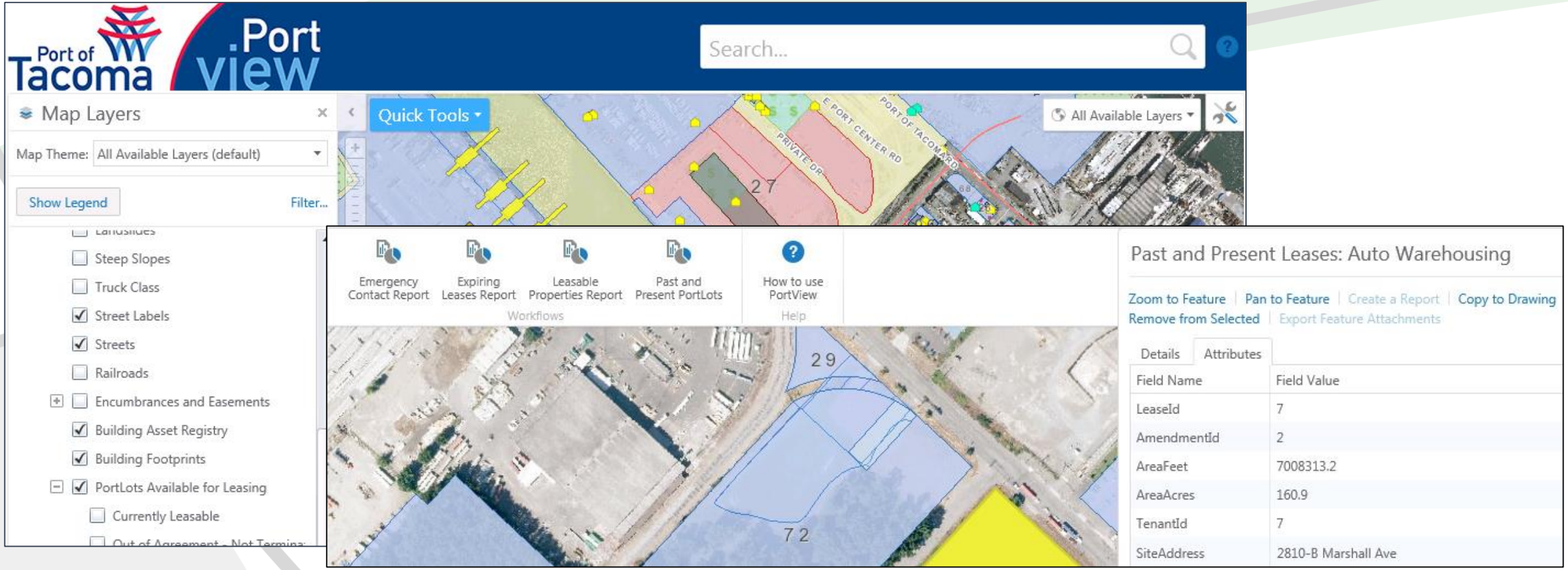
Port of Tacoma



Tacoma is managing its real estate better with the NSGIS Land Assets Data Model for Ports

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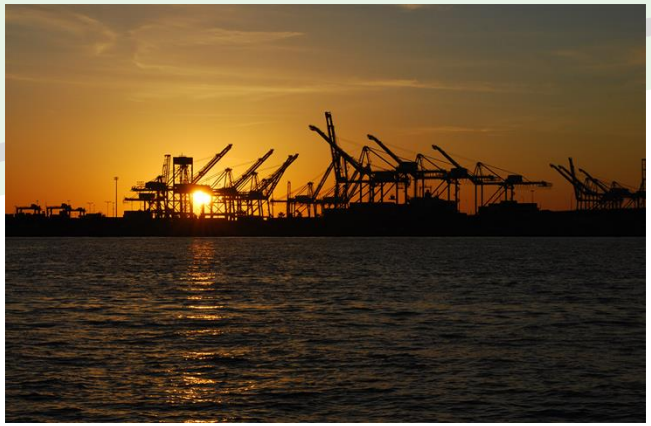
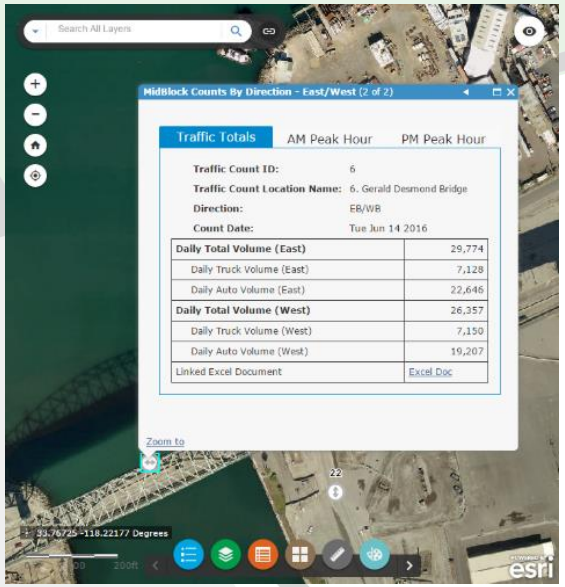
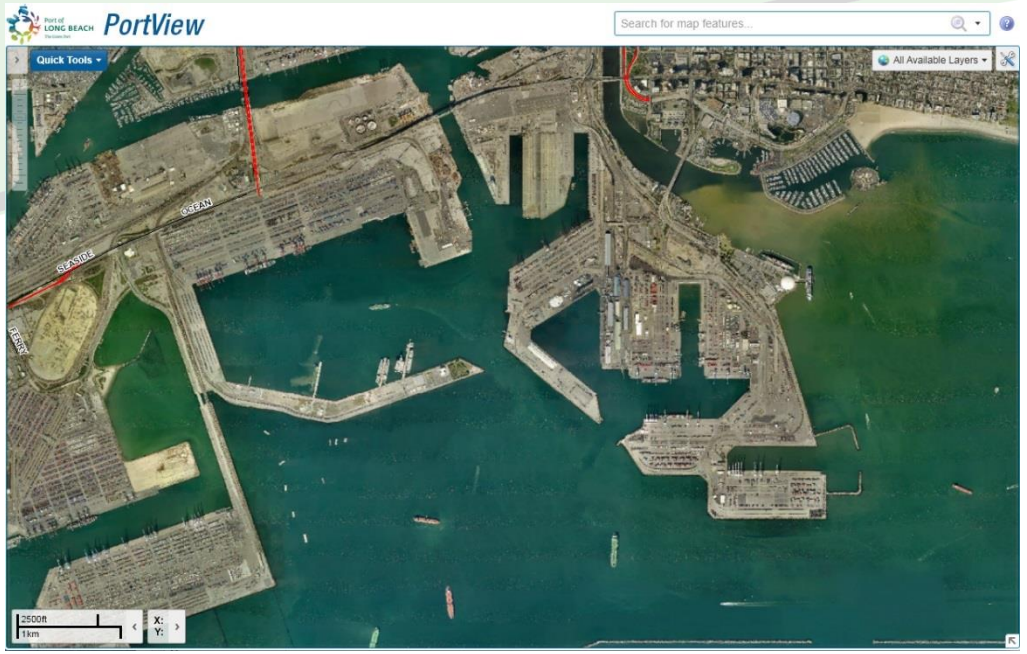
Port of Long Beach







Long Beach uses NSGIS to support its extensive enterprise GIS system and has deployed Enesgy™ for Ports

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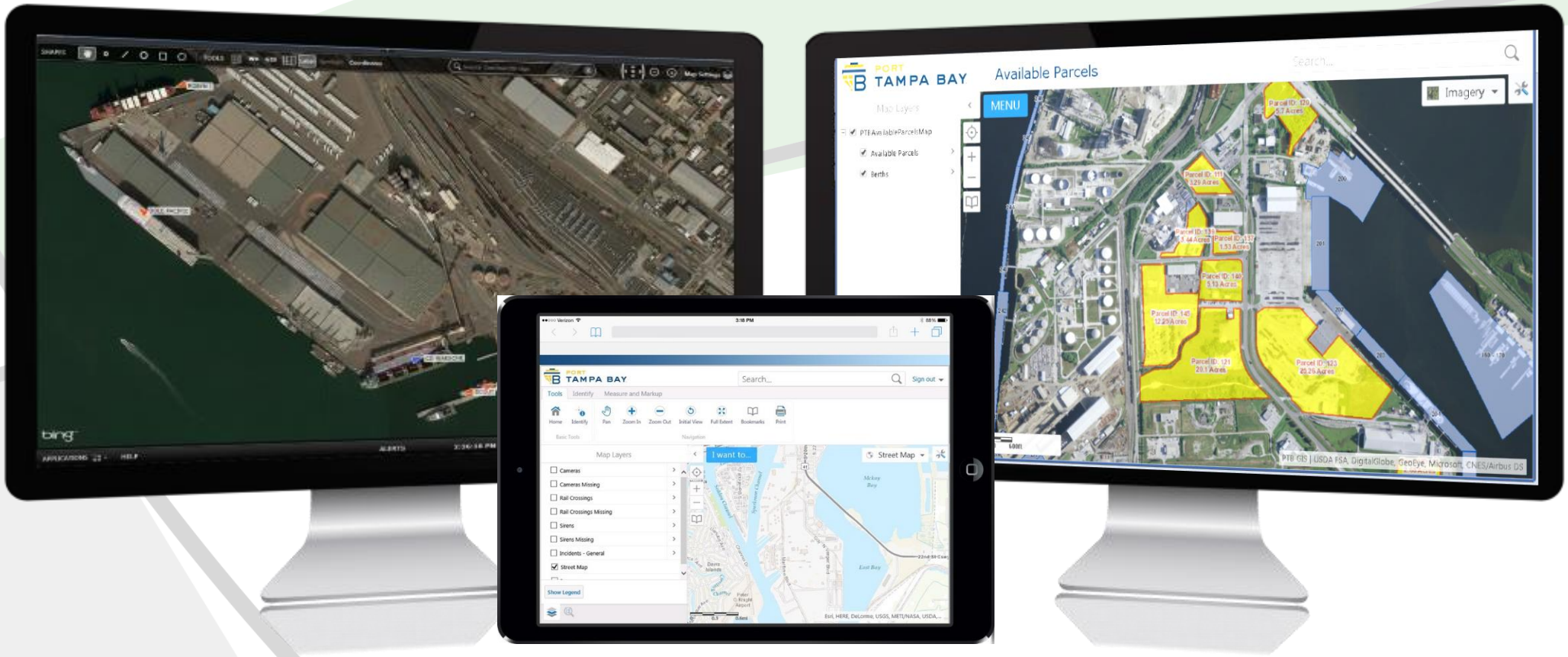
Port Tampa Bay



Tampa is more resilient to disaster now because of its use of geospatial technologies

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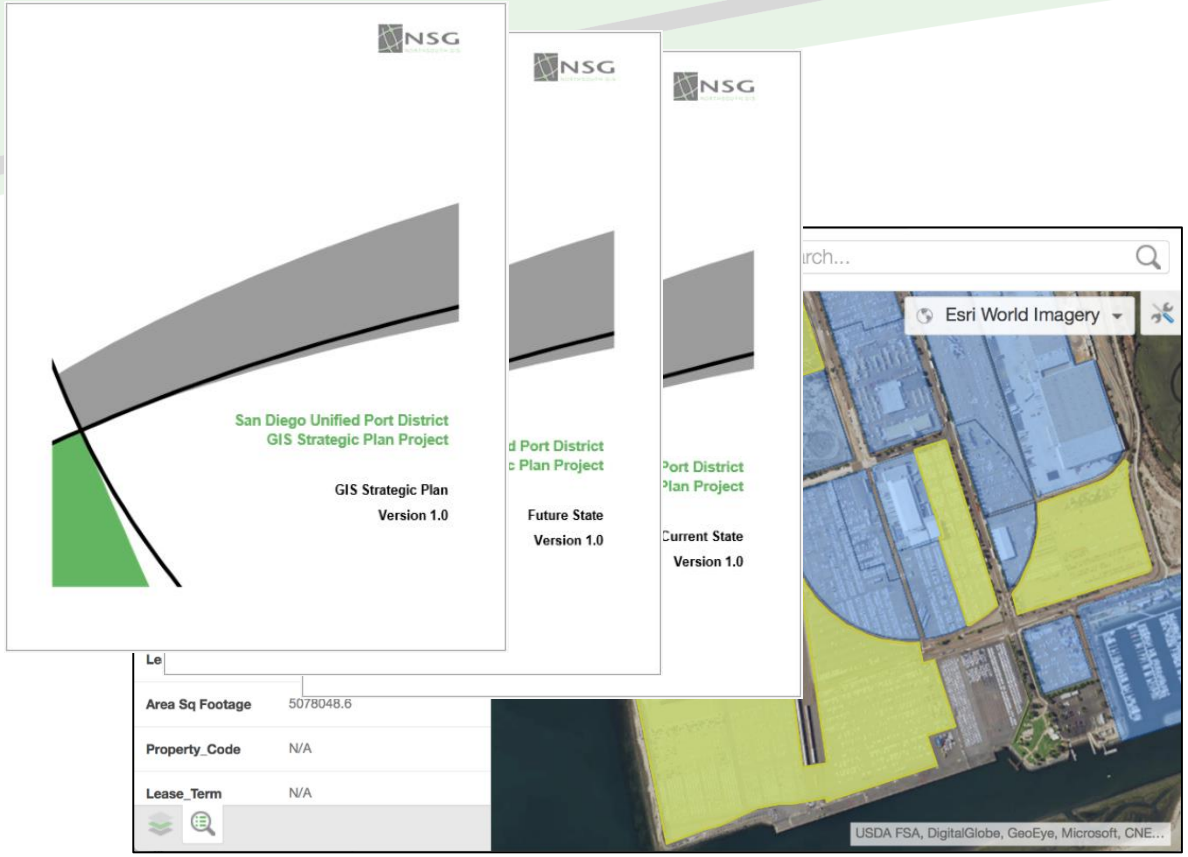
Port of San Diego



San Diego has made significant improvements in asset management and situational awareness with GIS

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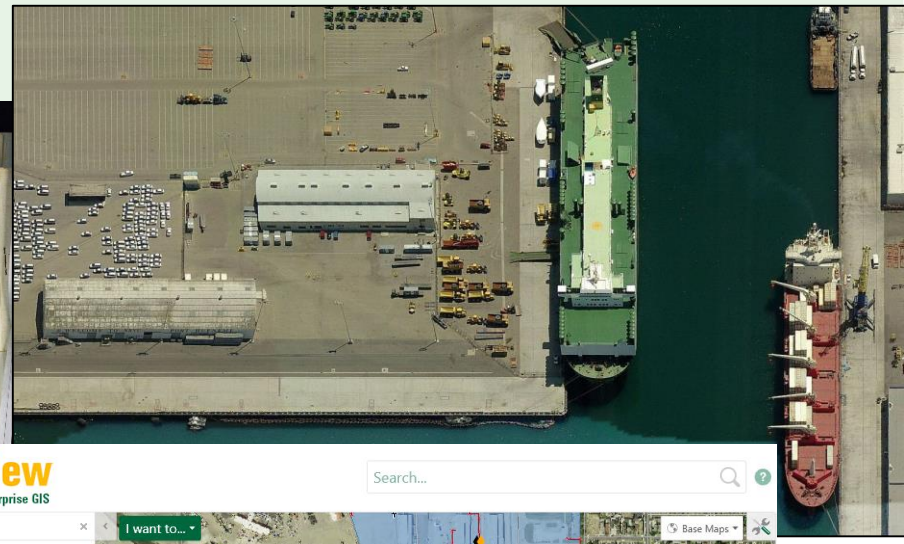
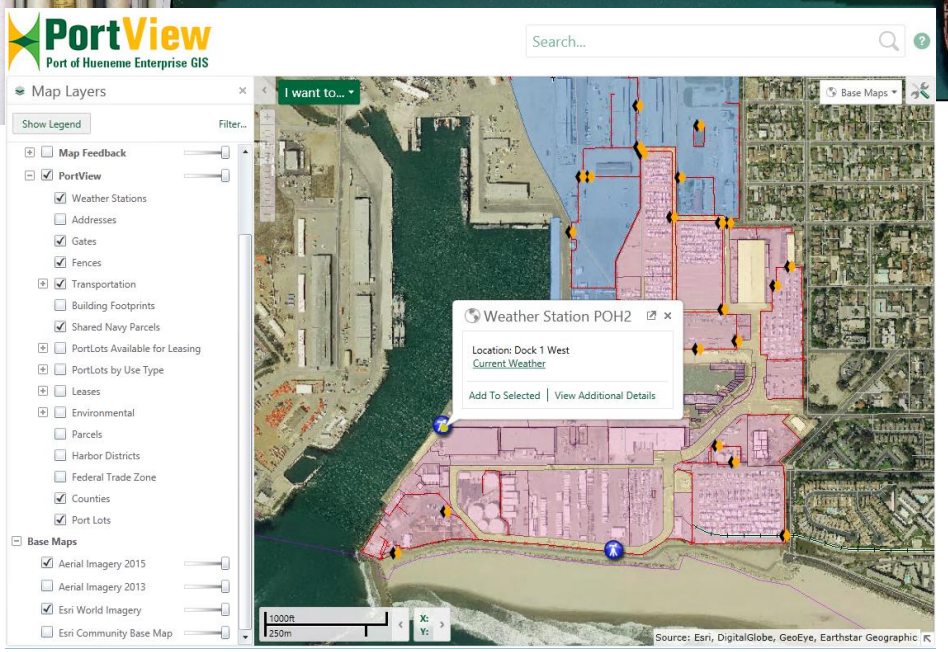
Port of Hueneme

- Esri-based Enterprise GIS infrastructure
- Data conversion and field verification
- Enesgy™ for Ports software implementation
- Port-specific GIS map viewer (*PortView*)
- Data assessment and data conversion project
- Training
- Staff augmentation and off-site support





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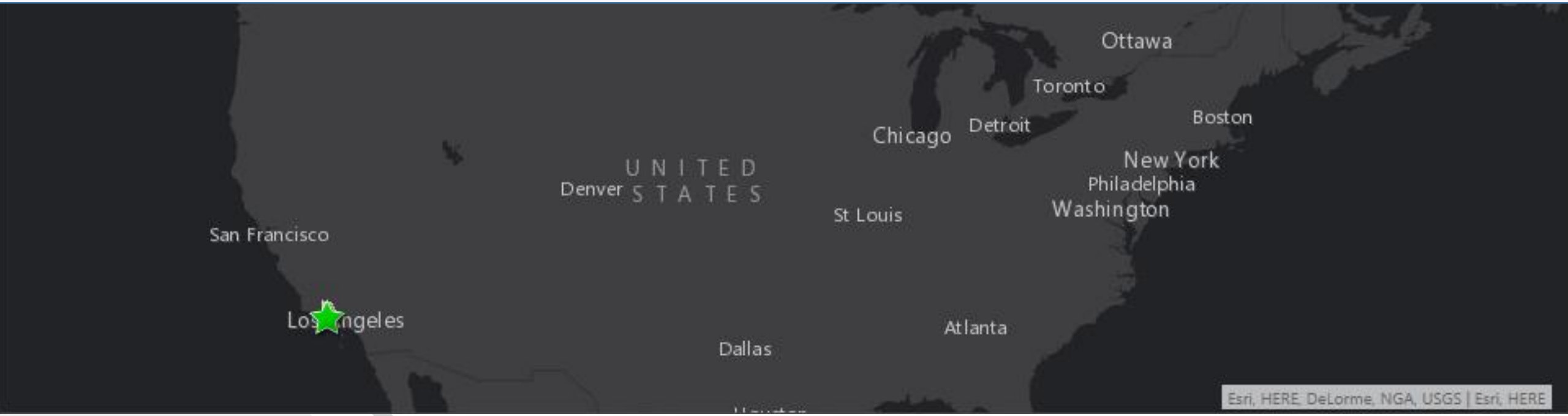
Port of Hueneme

- A regional economic engine
- Contributing to the local economy
- Powering local businesses

Click Here to Unlock Map



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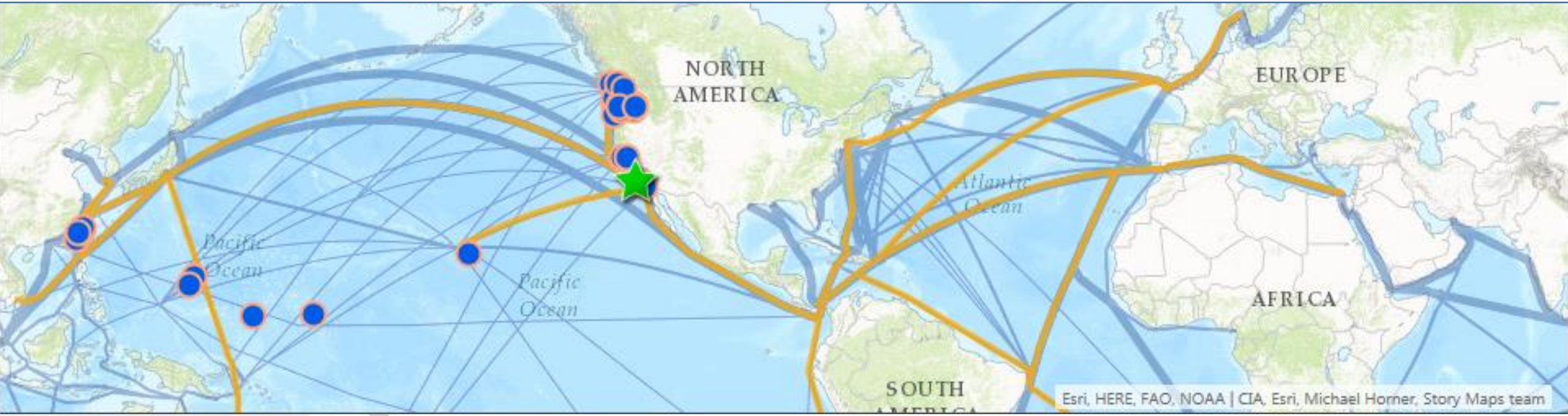
Port of Hueneme

- A small but very efficient global trading partner
- Excellent access to the largest economy in the US
- Avoids the pains of working in Los Angeles, Long Beach and Oakland

Click Here to Unlock Map



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Port of Hueneme

- Highway access to the Los Angeles Metro and to California's Central Coast
- Rail access to entire United States
- 70NM from LA/Long Beach, 400NM from Oakland

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Starting Point

- 1,000s of paper maps and CAD drawings

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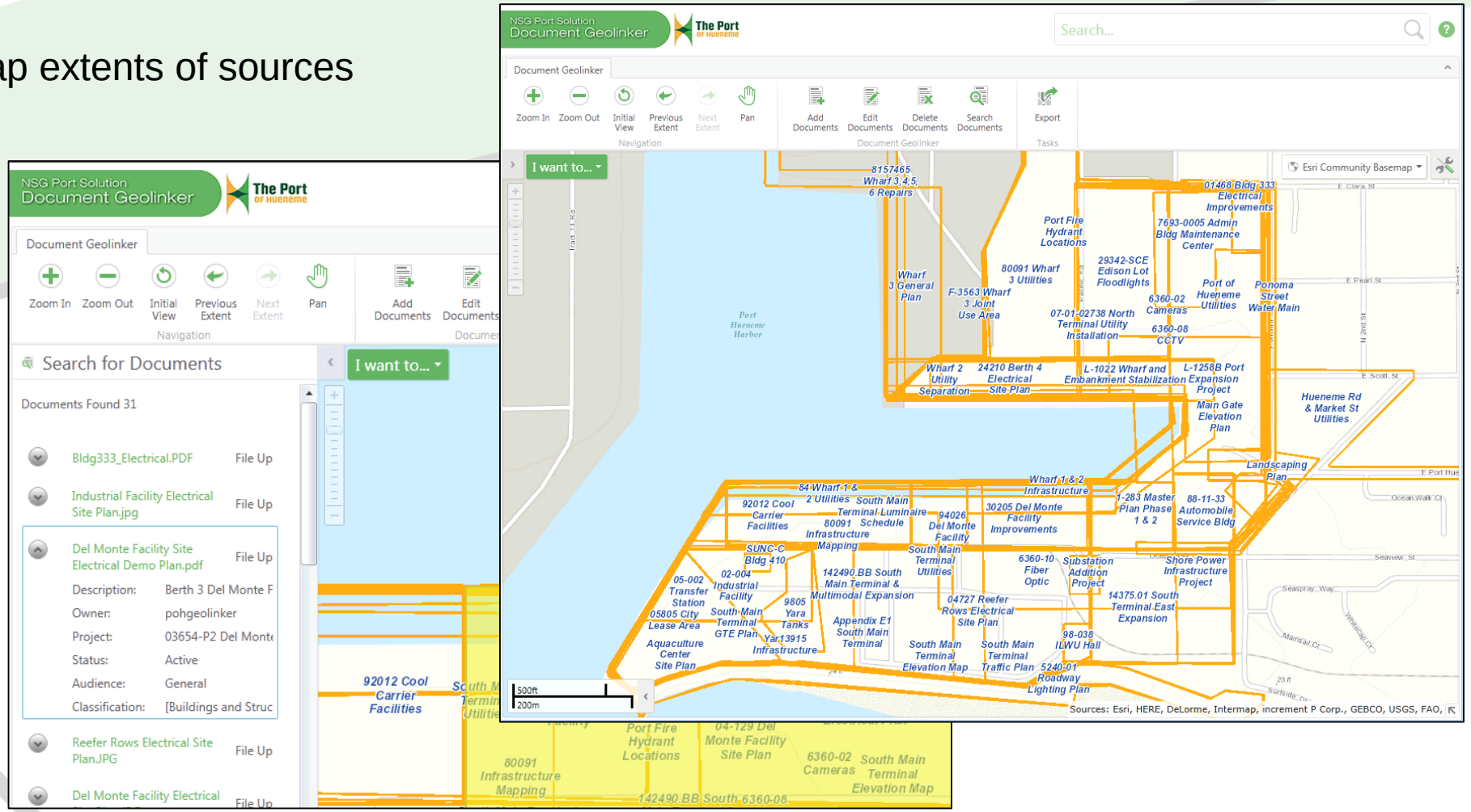
Data Assessment

- Used GIS to map extents of sources
- Worked with port to prioritize data for conversion



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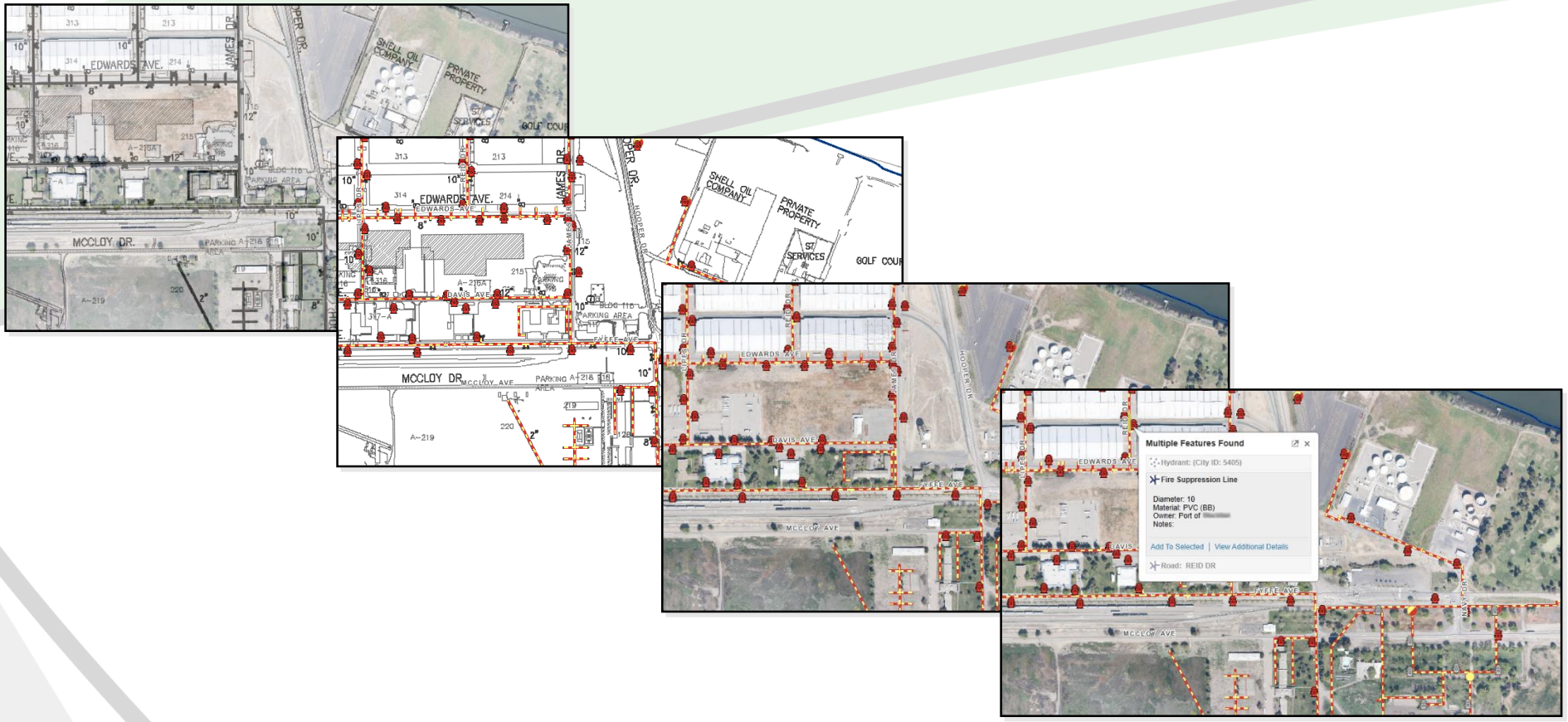
The Port of Hueneme

Data Conversion



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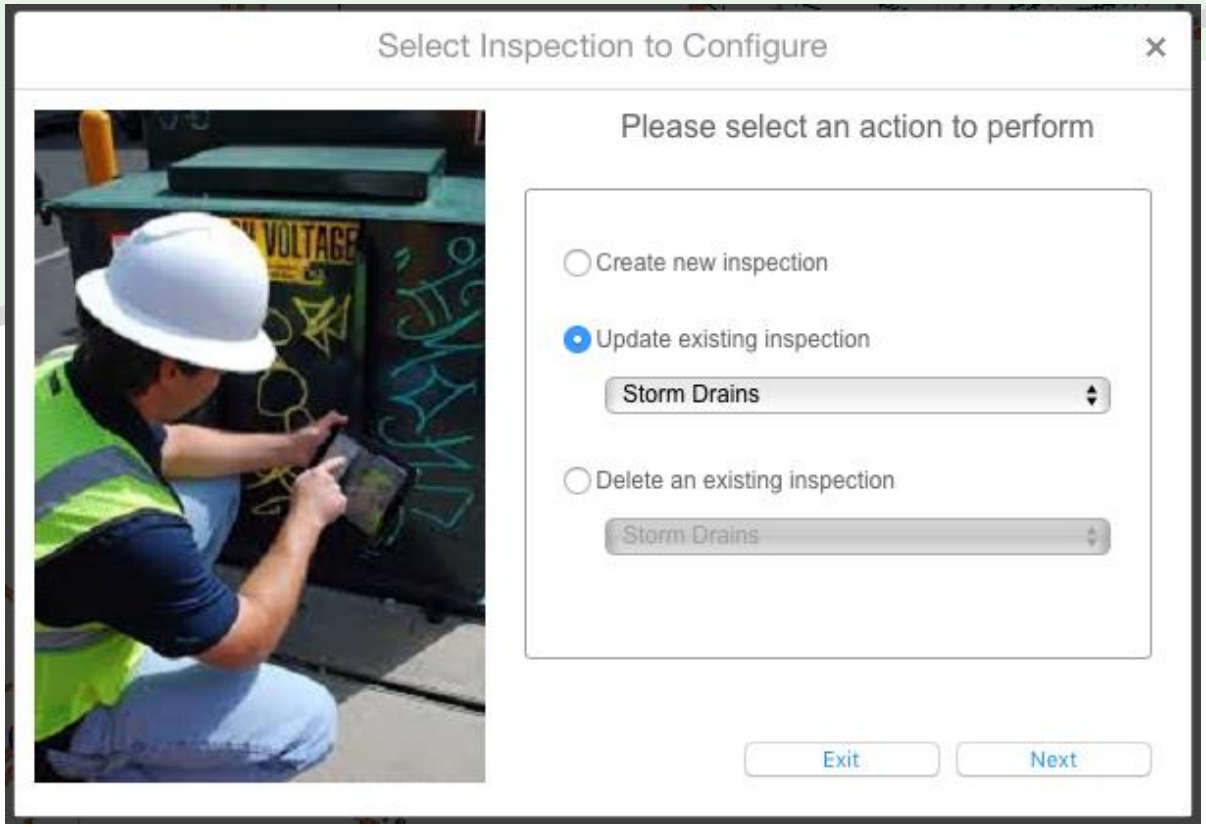
Data Verification



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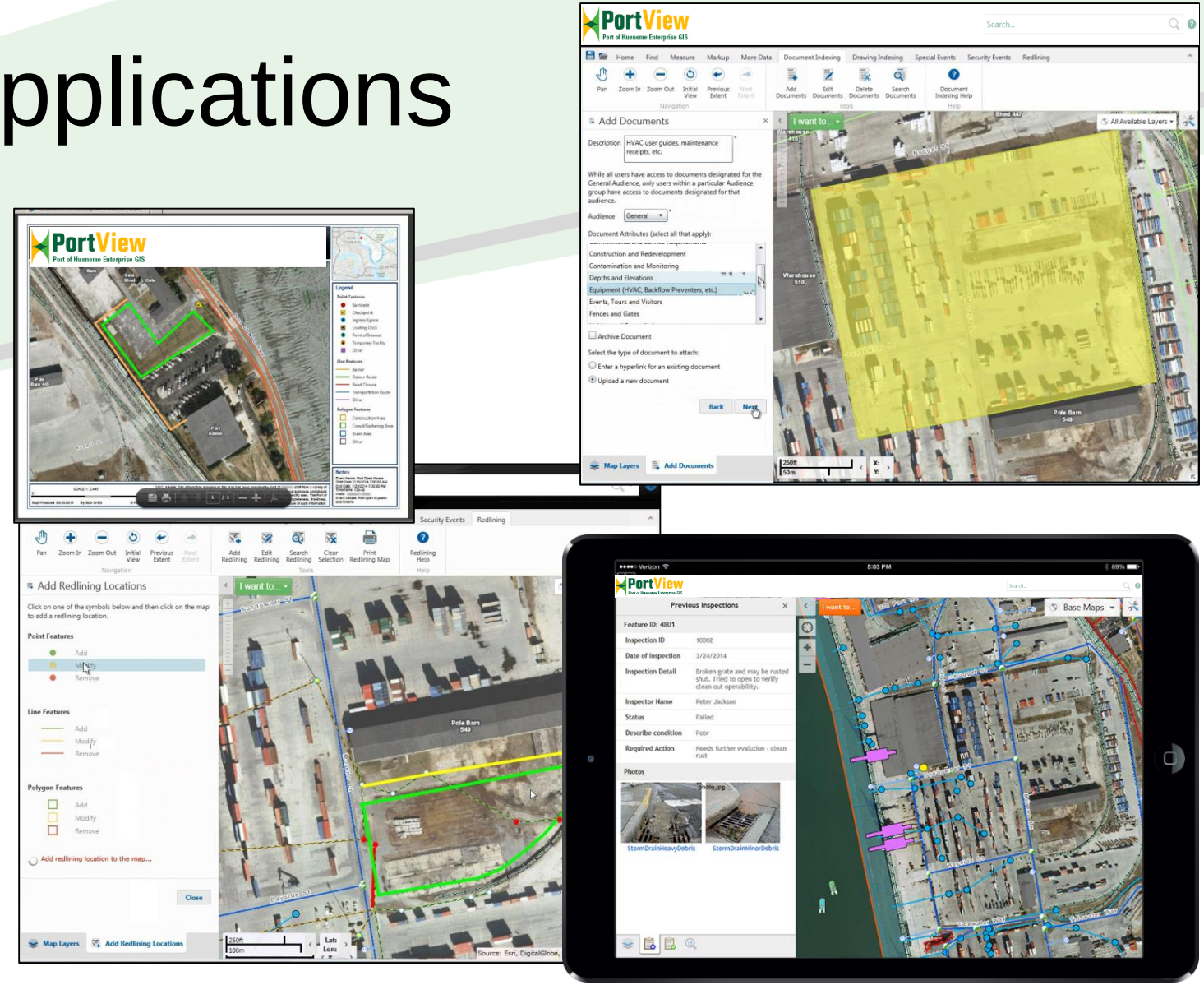
The Port of Hueneme

Applications

- Platform-agnostic map viewers
- AIS vessel data
- ArcGIS Online tools: Collector, Survey 1-2-3, Story Map
- Enesgy Events
- Enesgy Documents
- Enesgy Map Feedback
- Enesgy Inspections
- Enesgy Incidents



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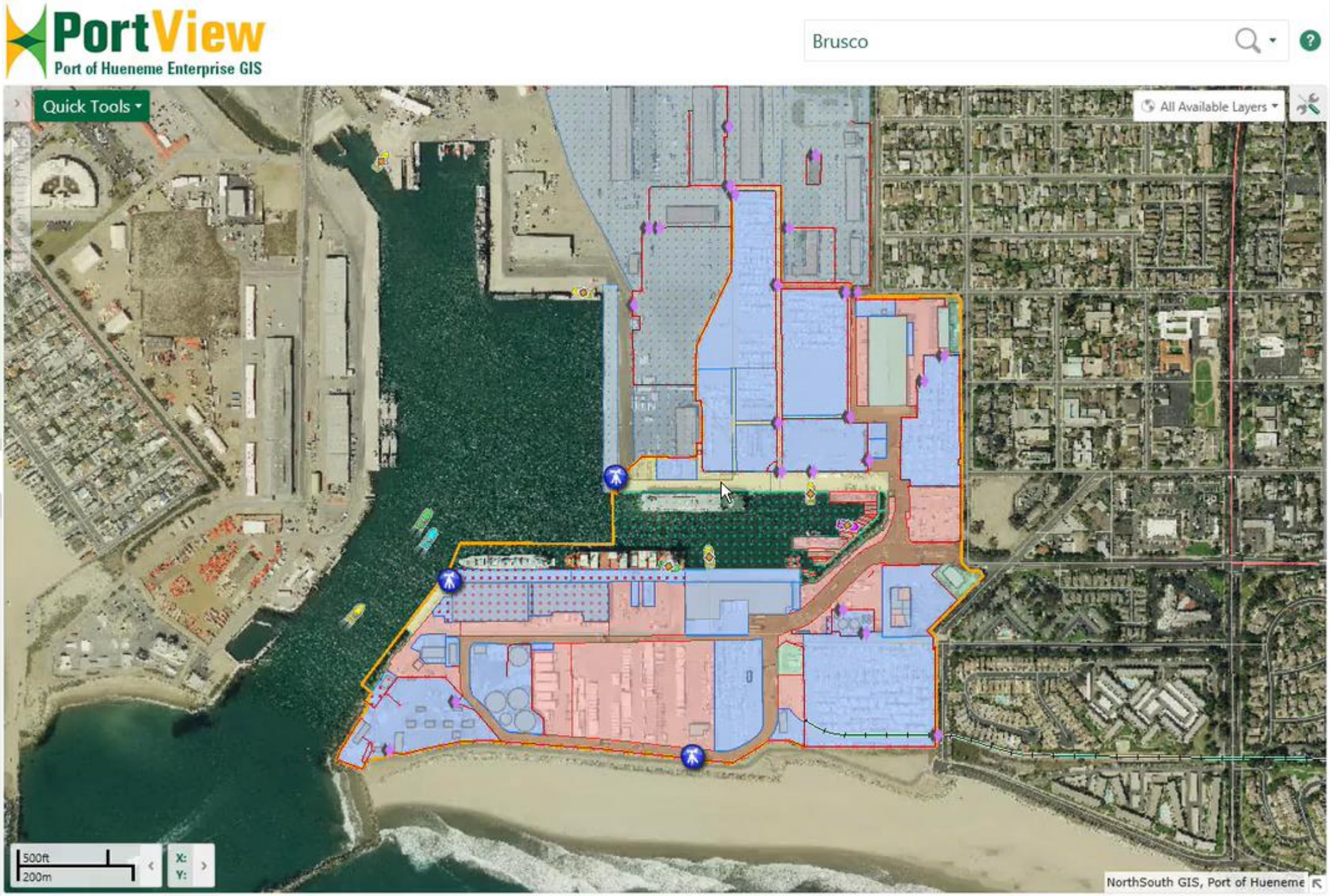
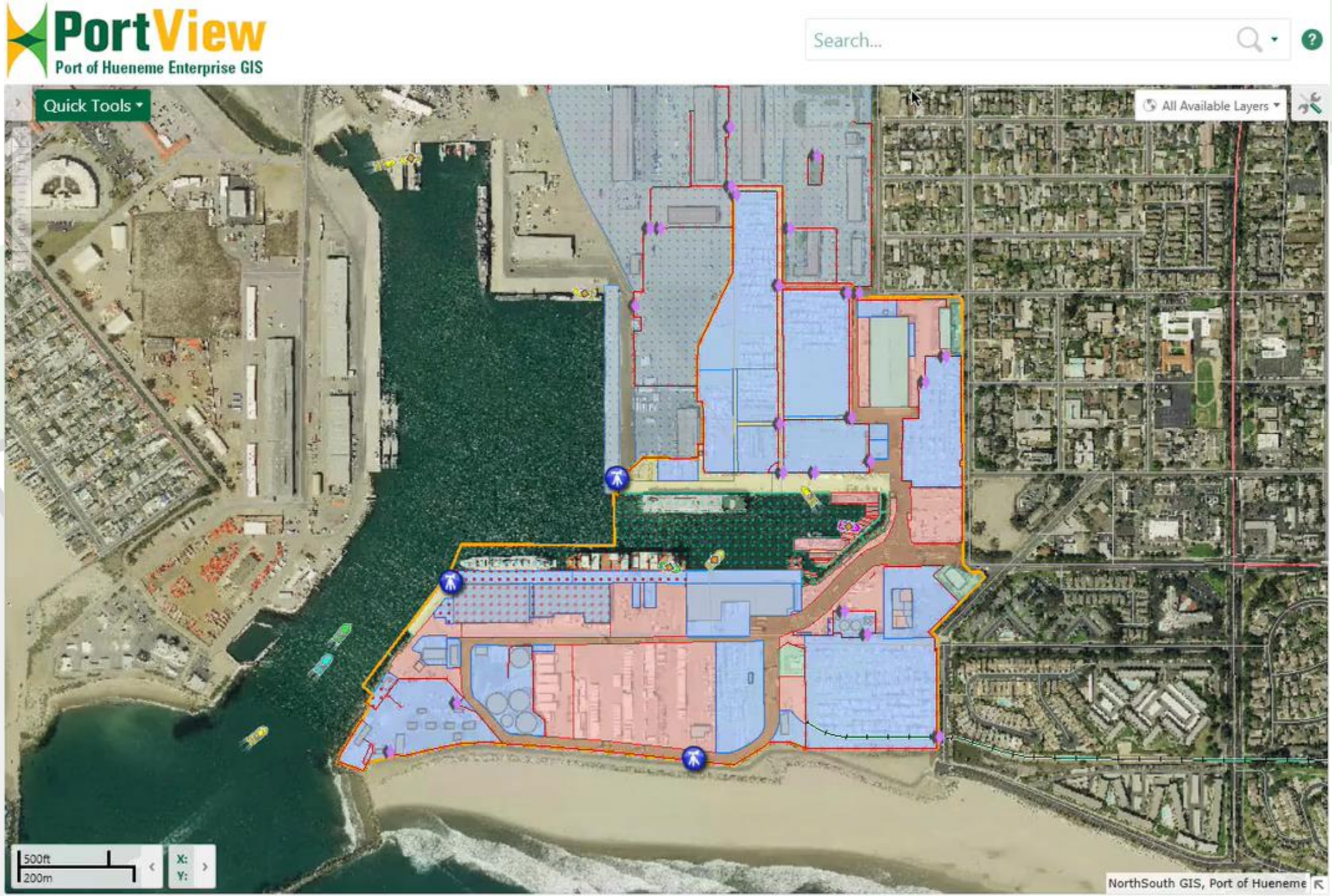

PortView
Port of Hueneme Enterprise GIS
Brusco
Quick Tools
All Available Layers
500ft
200m
X:
Y:
NorthSouth GIS, Port of Hueneme

Data


PortView
Port of Hueneme Enterprise GIS
Search...
Quick Tools
All Available Layers
500ft
200m
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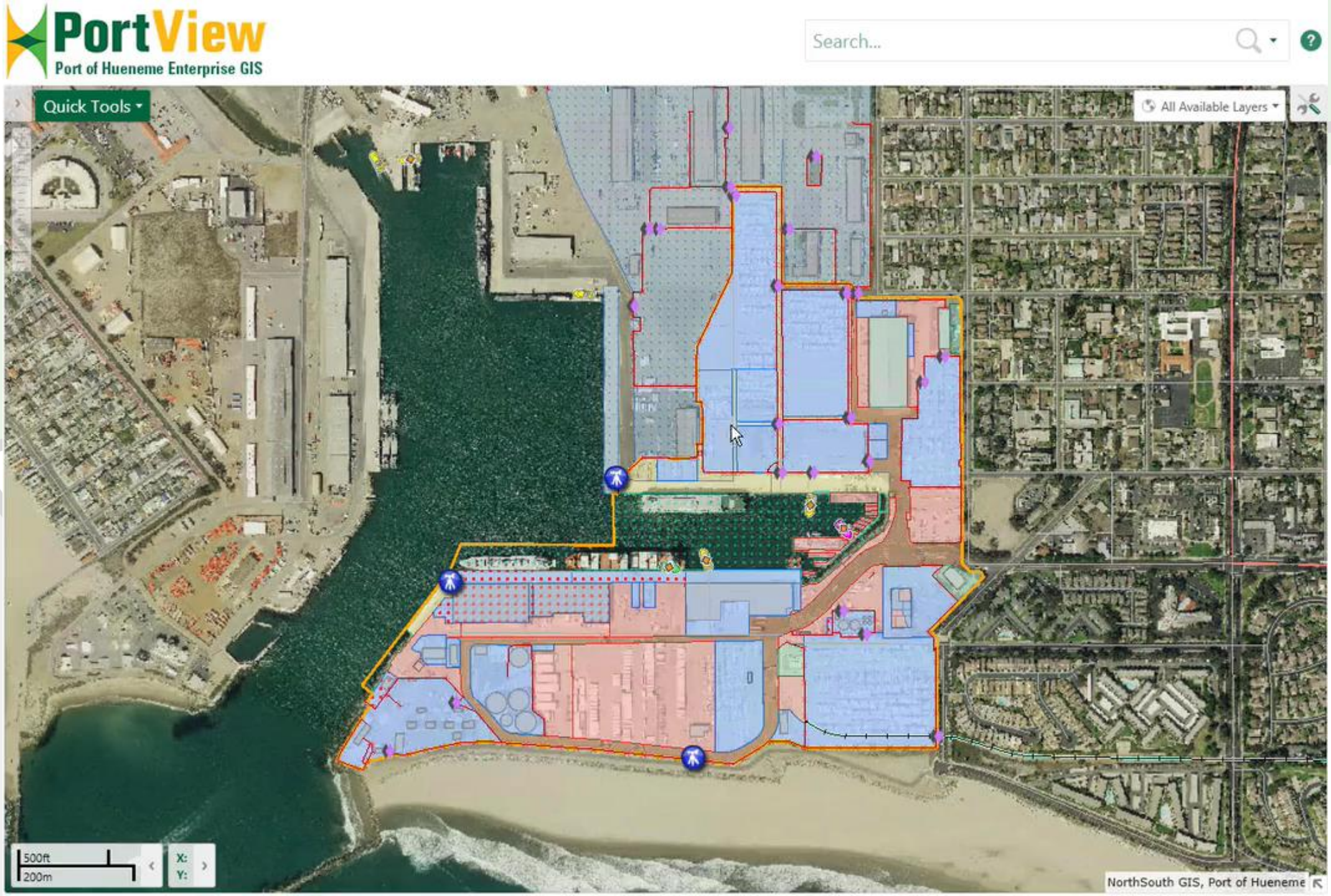
NorthSouth GIS, Port of Hueneme

Search


PortView
Port of Hueneme Enterprise GIS
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Quick Tools
All Available Layers
500ft
200m
X:
Y:
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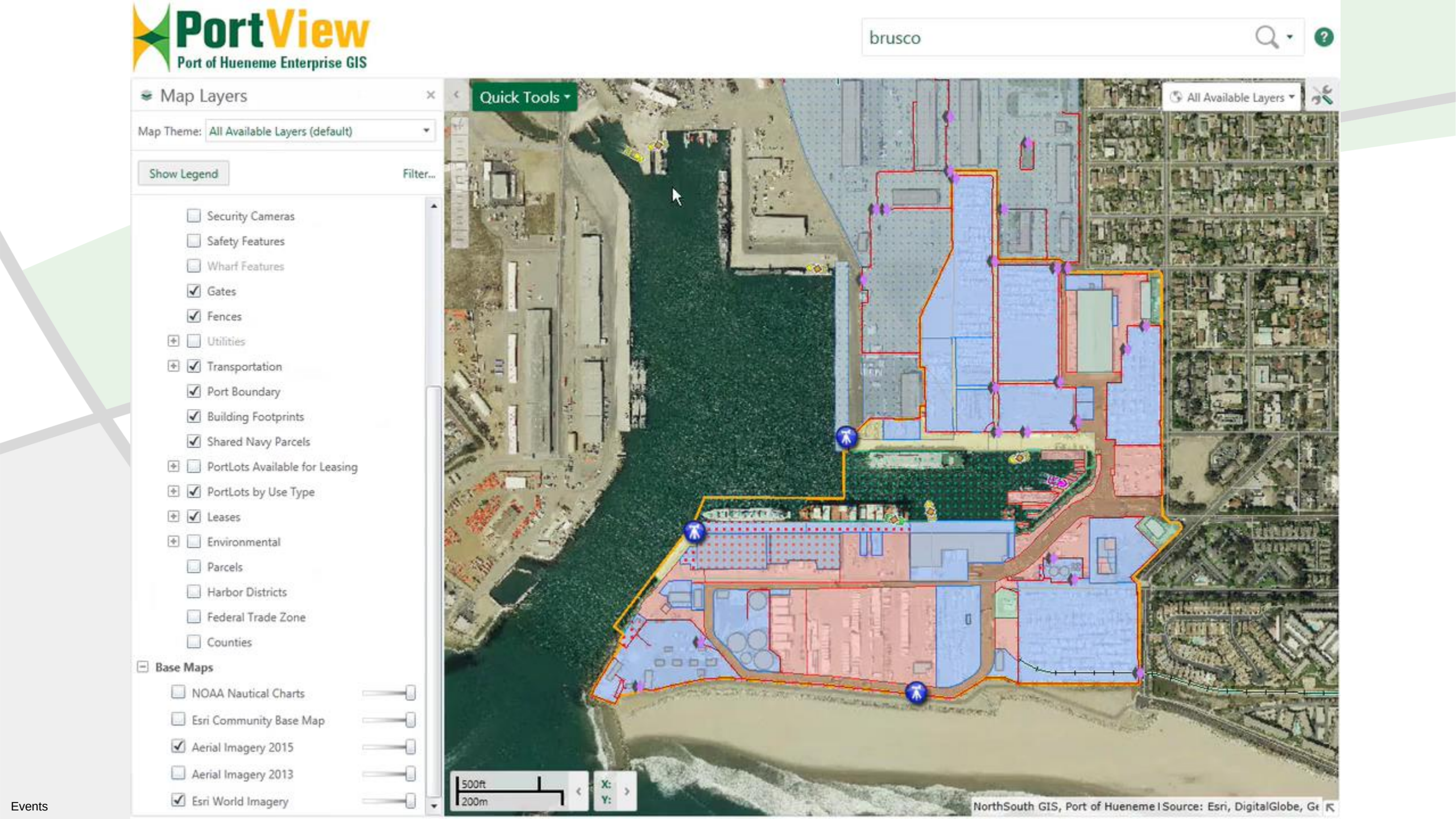
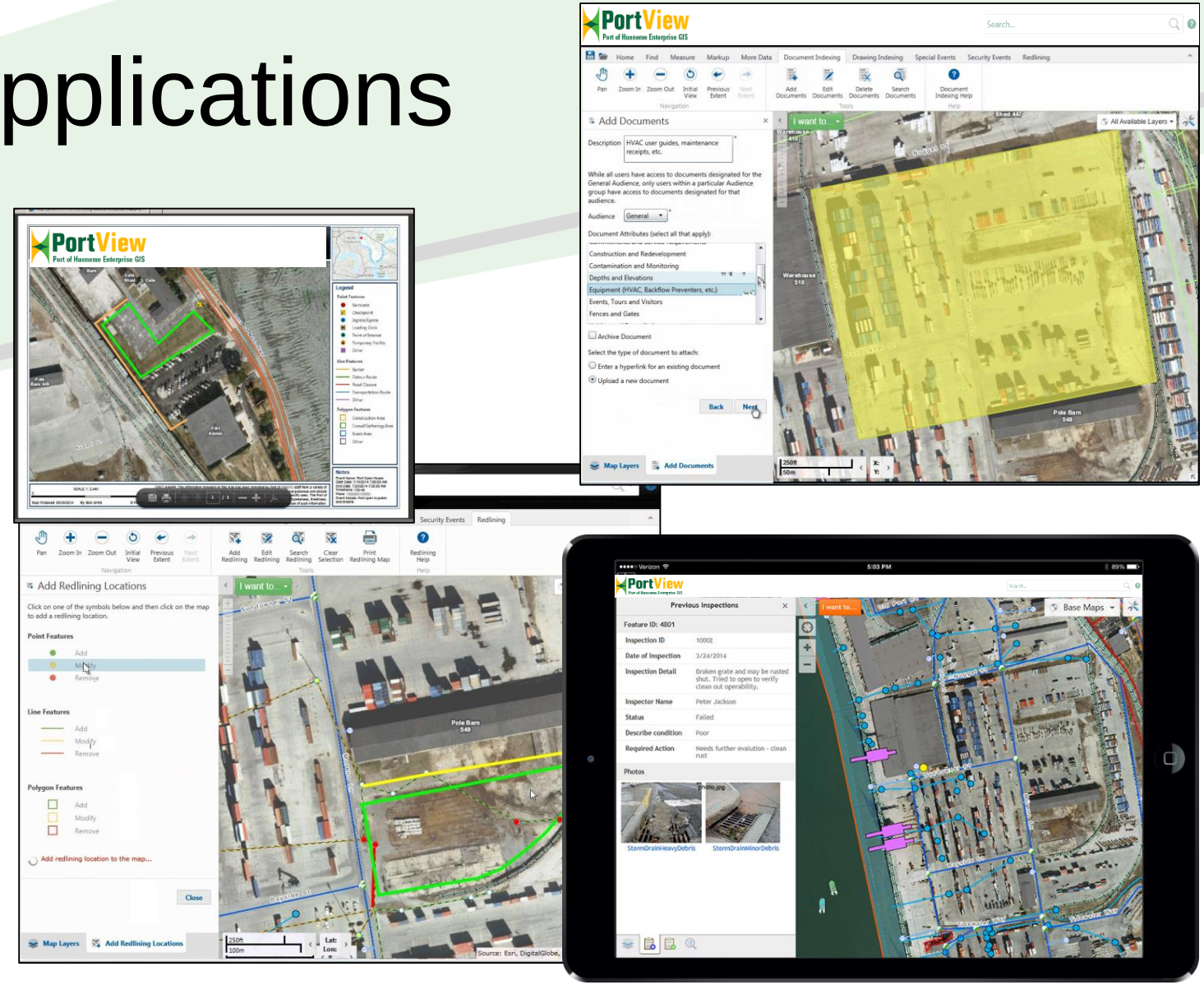
Docs


PortView
Port of Hueneme Enterprise GIS
brusco
Map Layers
Map Theme: All Available Layers (default)
Show Legend
Filter...
Security Cameras
Safety Features
Wharf Features
Gates
Fences
Utilities
Transportation
Port Boundary
Building Footprints
Shared Navy Parcels
PortLots Available for Leasing
PortLots by Use Type
Leases
Environmental
Parcels
Harbor Districts
Federal Trade Zone
Counties
Base Maps
NOAA Nautical Charts
Esri Community Base Map
Aerial Imagery 2015
Aerial Imagery 2013
Esri World Imagery
Quick Tools
All Available Layers
500ft
200m
X:
Y:
NorthSouth GIS, Port of Hueneme | Source: Esri, DigitalGlobe, Ge

Events

Applications

- Platform-agnostic map viewers
- AIS vessel data
- ArcGIS Online tools: Collector, Survey 1-2-3, Story Map
- Situation and event planning tool
- Document Geolinker
- Map quality feedback tool
- In-field asset inspection extension
- Incident reporting extension



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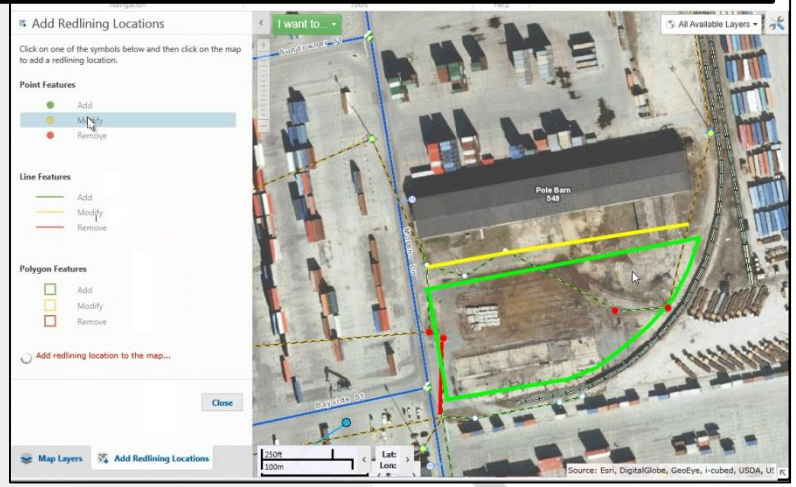
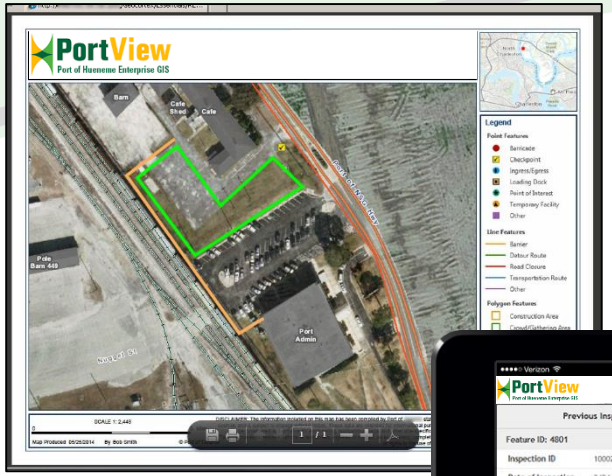
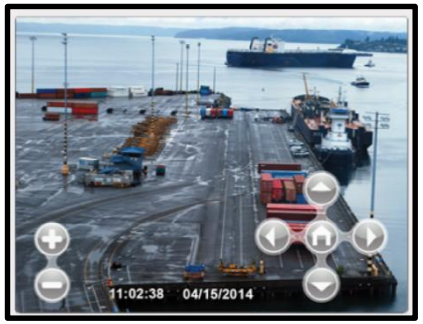
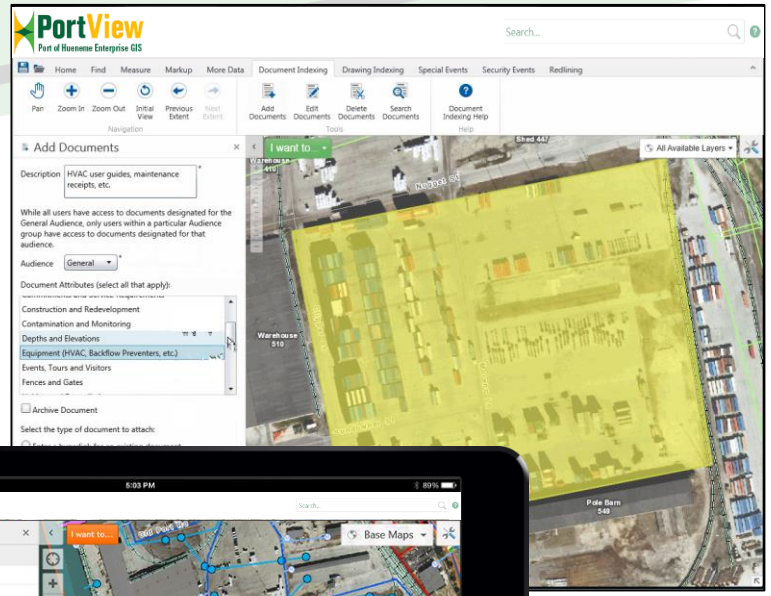
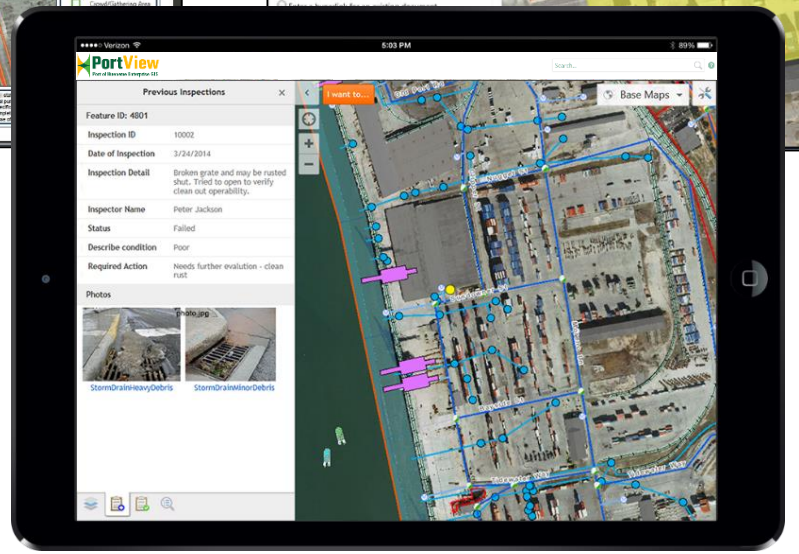
Enesgy™ by NSGIS™ Geospatial Solutions for Ports











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