





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























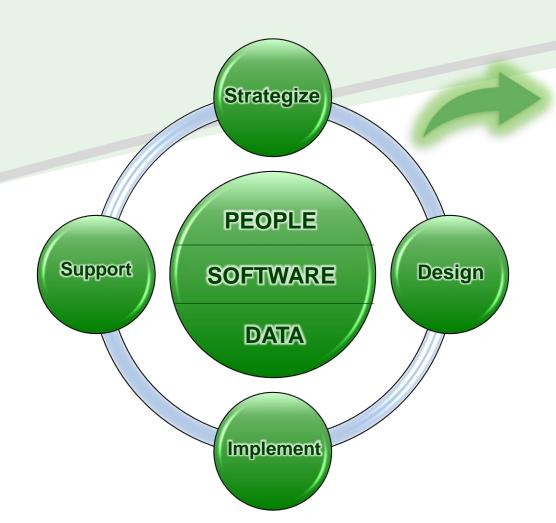








What We Do For Ports



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

HOME

NSGIS

PORTS

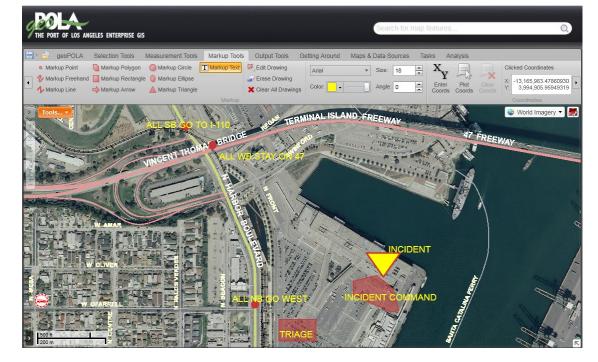
ENESGY

DEMO

Safety and Security

- Pre-plans
- Incident analysis
- Field communications
- Cameras coverage
- Crime statistics
- Data exchange
- Disaster planning and resiliency
- Mass notification

Event planning mockup







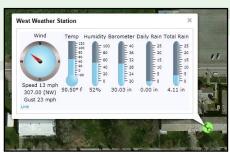






Domain Awareness

- Situational Awareness
- Live data feeds
- Security integration
- Access from field, incident command
- ICS, escalated data sharing











NSGIS

PORTS

ENESGY

DEMO

Ports

- Port of Los Angeles
- Port of Oakland
- Port of Stockton
- Port of Tacoma
- Port Tampa Bay
- Port of Vancouver











TAMPA BAY • Port of Charleston

















© Copyright NorthSouth GIS LLC , 2009-2017. All rights reserved









Risk exposure: Moderate

Security: Large port police

Role: Enforcer

GIS: @ IT entire enterprise

Funding: Grants

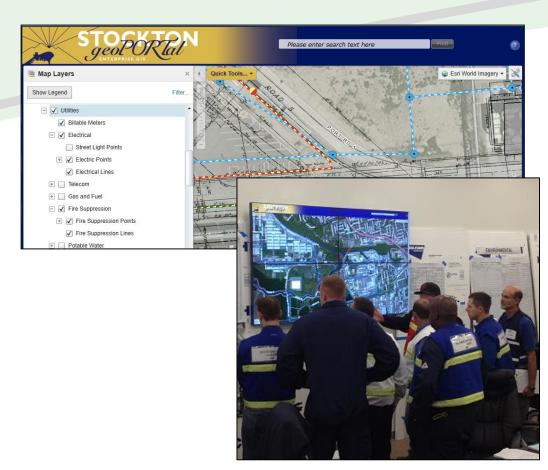
Tools:

Situation awareness system – CommandBridge (ARES)

GIS map viewer – Enesgy (NSGIS)

Event planning, document retrieval – Enesgy (NSGIS)

Mass Notification System – HipLink (HipLink)



Stockton took a phased approach capable of taking advantage of grant, if and when available

HOME

NSGIS

PORTS

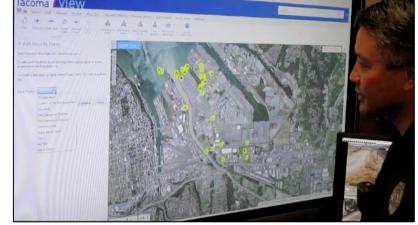
ENESGY

DEMO



- Risk exposure: Moderate
- Security: Port police plus security
- Role: Enforcer
- GIS: @ IT entire enterprise
- Funding: Grants and operations
- Tools:
 - GIS map viewer Enesgy (NSGIS)
 - Event planning, document retrieval Enesgy (NSGIS)





Tacoma integrates AIS and video into a police-only GIS viewer, available in office and in cars

HOME

NSGIS

PORTS

ENESGY

DEMO



Port of Long Beach

- Risk exposure: Very high
- Security: Large security force (and PD detail)
- Role: Enforcer, "Enabler", inter-agency aggregator
- GIS: @ IT entire enterprise, @ Security
- Funding: Grants & operations
- Tools:
 - Situation awareness system VirtualPort (POLB/Esri)
 - GIS map viewer ArcGIS (Esri)



Long Beach has implemented one of the most ambitious initiatives to use geospatial technologies in port security

HOME

NSGIS

PORTS

ENESGY

DEMO



Port of San Diego

- Risk exposure: Very high
- Security: Large port police, regional collaboration
- Role: Direct & contract enforcement, local leader
- GIS: @ IT, mostly for security, facilities, real estate
- Funding: Operations, grants
- Tools:
 - Situation awareness system CommandBridge (ARES)
 - GIS map viewer ArcGIS (Esri)
 - Crime analysis CrimeView (TriTech)
 - Incident planning, document retrieval Enesgy (NSGIS)
 - GIS-powered CAD Intergraph (Hexagon)





San Diego makes extensive use of geospatial technologies in its port security and public safety operations

HOME

NSGIS

PORTS

ENESGY

DEMO



Risk exposure: Modest

Security: Contract security

Role: Awareness

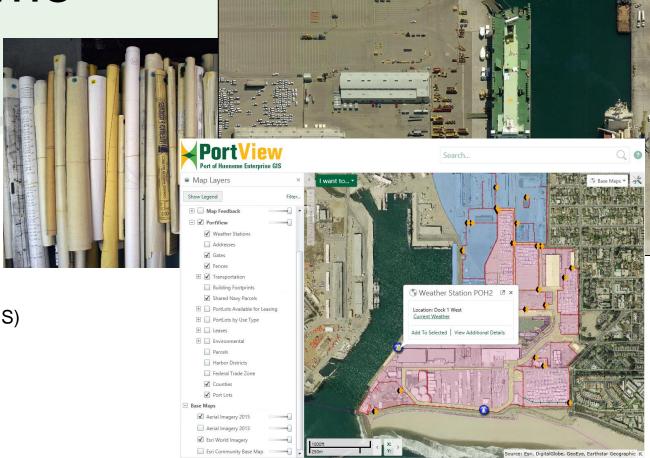
GIS: @ Engineering

Funding: Grants

Tools:

GIS map viewer – Enesgy (NSGIS)

Event planning, document retrieval – Enesgy (NSGIS)



Hueneme focuses on making information available as a means of increasing both safety and security

HOME

NSGIS

PORTS

ENESGY

DEMO



Starting Point

1,000s of paper maps and CAD drawings











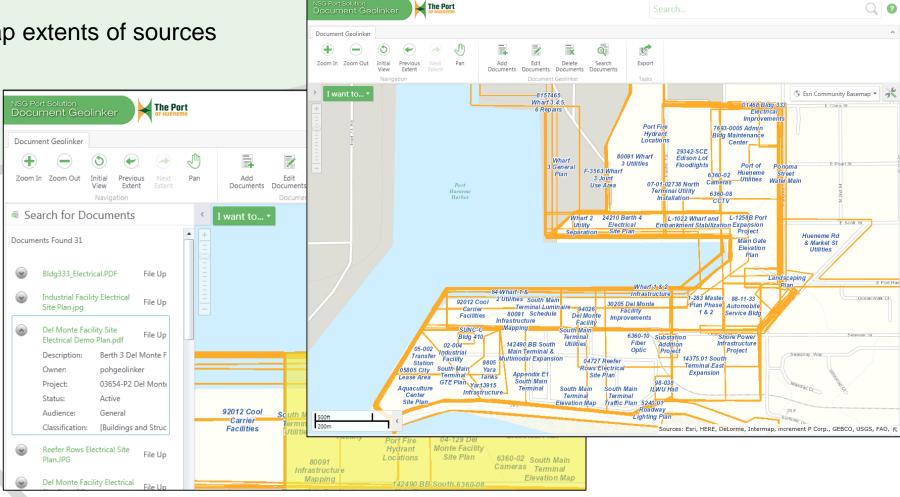




Data Assessment

Used GIS to map extents of sources

Worked with port to prioritize data for conversion



HOME

NSGIS

PORTS

ENESGY

DEMO



Data Conversion



HOME

NSGIS

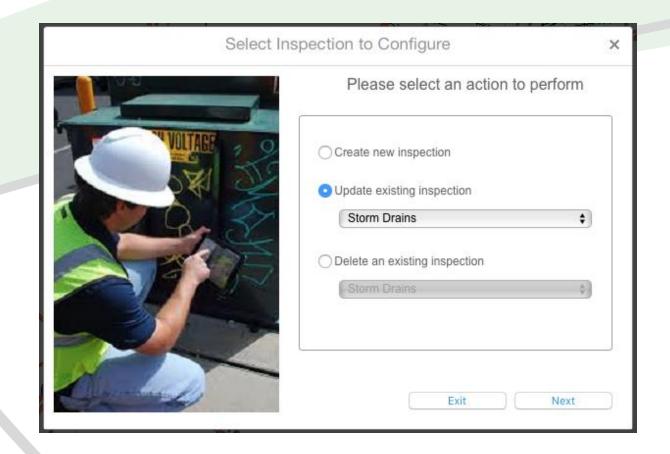
PORTS

ENESGY

DEMO



Data Verification





HOME

NSGIS

PORTS

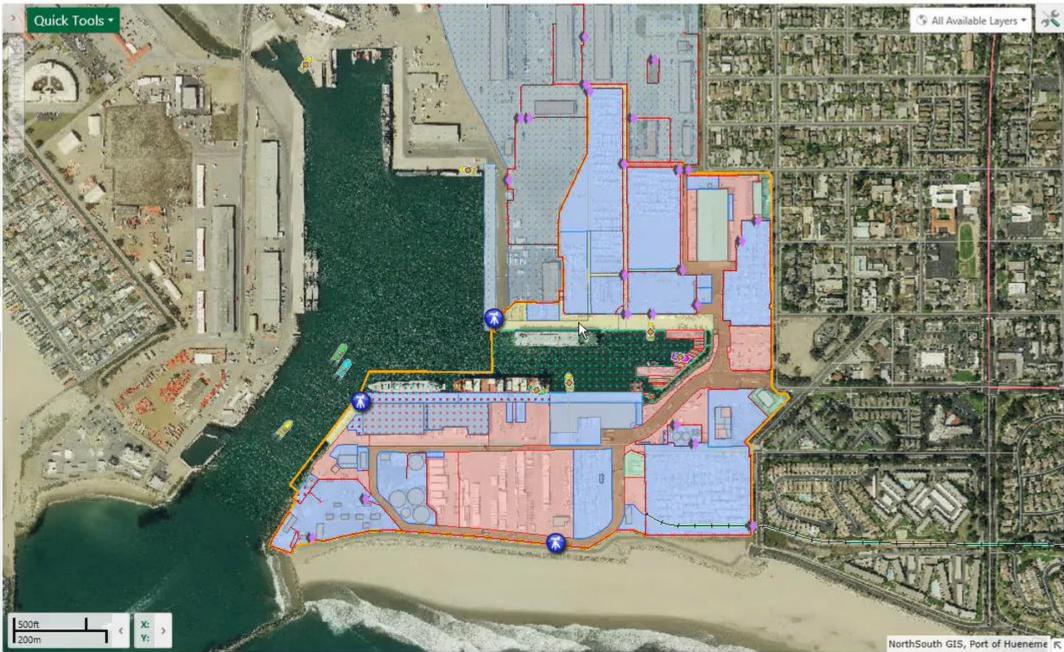
ENESGY

DEMO











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 and Incidents**



∠PortView

HOME

NSGIS

PORTS

© Copyright NorthSouth GIS LLC, 2009-2017. All rights reserved.

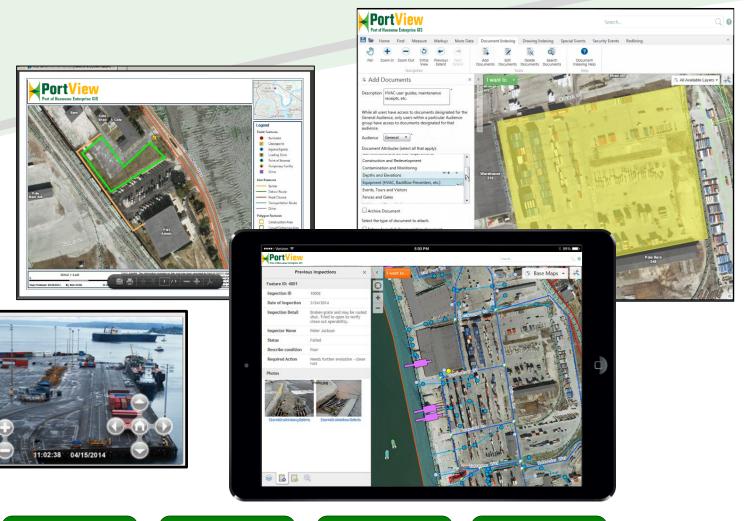
ENESGY

DEMO



Enesgy[™] Geospatial Solutions for Ports





HOME

NSGIS

PORTS

ENESGY

DEMO



- ports@nsgis.com
- http://ports.nsgis.com
- www.enesgy.com

NorthSouth GIS LLC 244 S. San Pedro Street, Suite 202 Los Angeles, CA 90012

Tel: (800) 866-5013 USA Tel: +1 (310) 606-2783 Int'l

Fax: (213) 802-1398





NSGIS





