



Homeland
Security

Homeland Security Geospatial CONOPS (GeoCONOPS)

NAPSG Webinar Presentation

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04 June 2014

- Homeland Security GeoCONOPS
 - **WHO** MANAGES THE HLS GeoCONOPS?
 - **WHAT** IS HLS GeoCONOPS?
 - **WHEN** IS THE HLS GeoCONOPS PUBLISHED AND UPDATED?
 - **WHERE** DO I ACCESS THE HLS GeoCONOPS?
 - **WHY** THE HLS GeoCONOPS IS IMPORTANT TO ME?

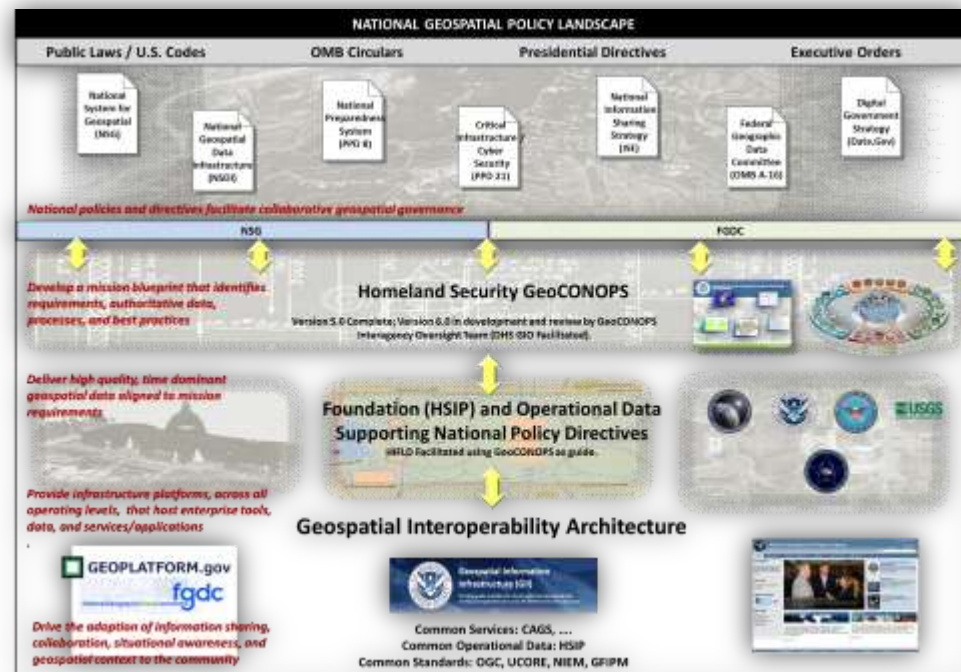
*Emphasis on reviewing the GeoCONOPS Website and getting
YOUR feedback!*

Geospatial Management Office (GMO)



Homeland Security

- Promote collaborative geospatial **governance**
- Deliver high quality, time sensitive, **geospatial information** aligned with mission requirements
- Provide a **shared geospatial delivery architecture** that hosts enterprise viewing tools, data, and analytic services/applications
- Advance interoperability through geospatial **technology** and **standards**
- Build **tradecraft** and standard operating procedures

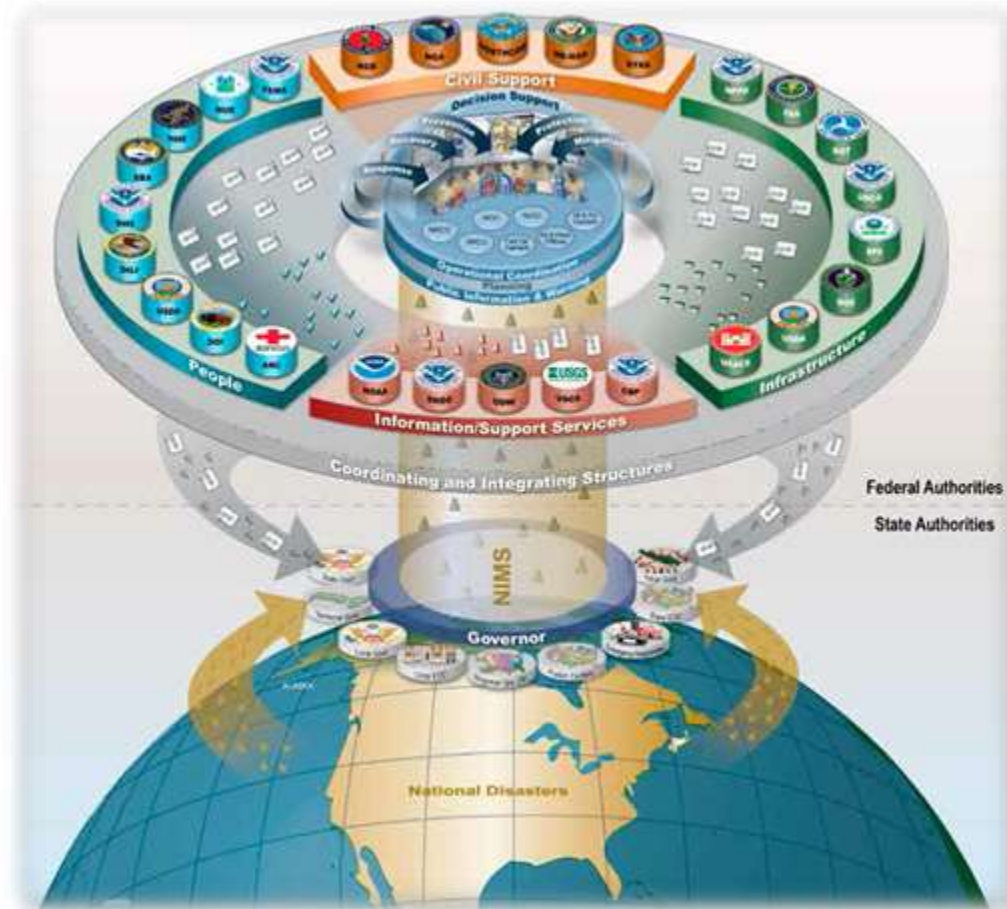


Driving toward a National framework for geospatial information sharing....

Geospatial – Technology, Tradecraft, Information, Policy

WHAT IS THE HLS GeoCONOPS?

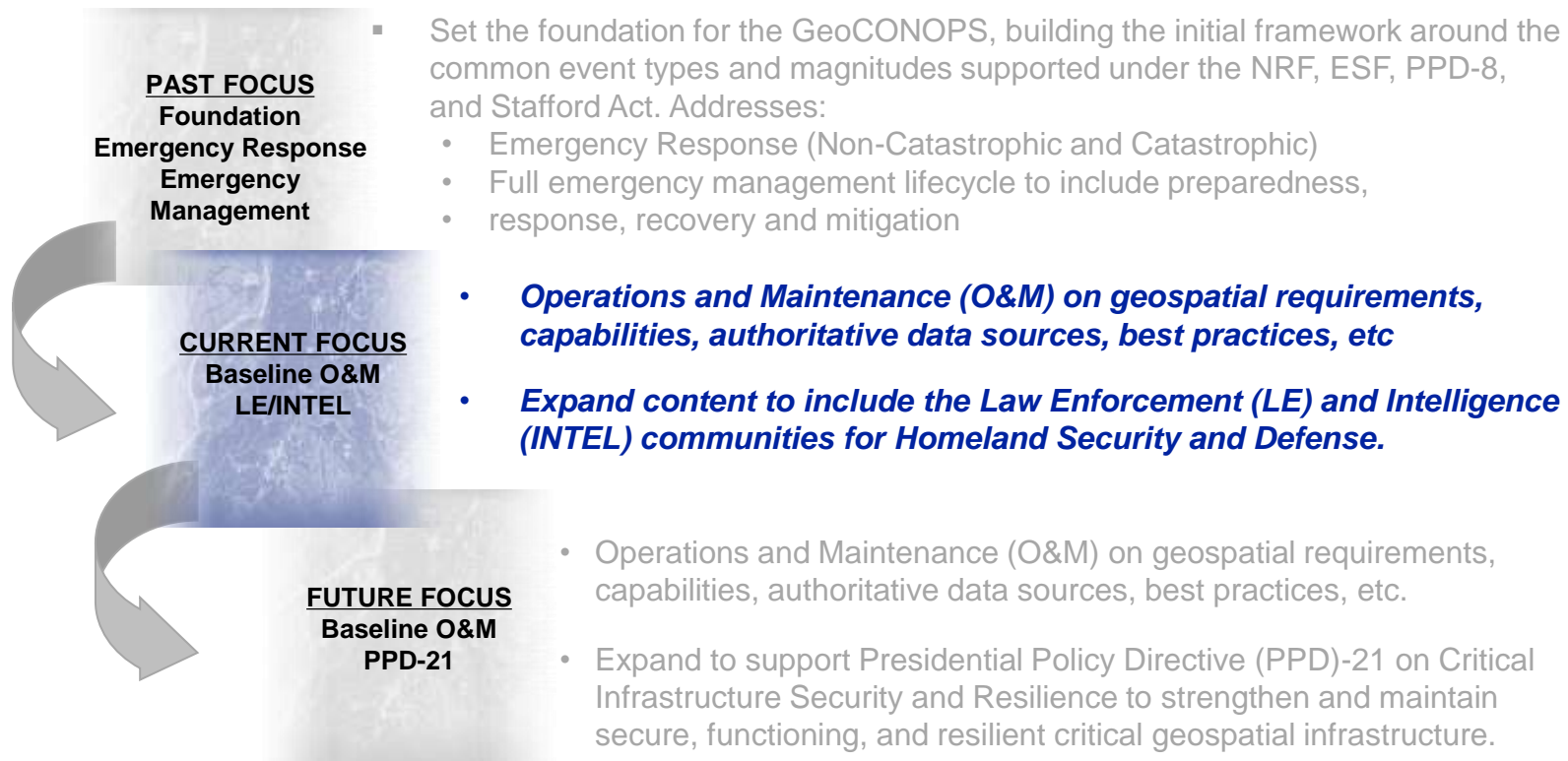
- Geospatial Mission blueprint of the resources and capabilities available for support in Homeland Security Enterprise
- Supports larger set of national initiatives and policies to align geospatial resources and capabilities
- Identifies points of coordination and collaboration
- Documents authoritative geospatial data sources
- Describes best practices
- Identifies technical capabilities
- Provides States/locals a key resource for understanding the larger geospatial community supporting Homeland Security (who, what, and when)



A whole of the nation approach....

- HLS GeoCONOPS is *managed and administered by the DHS GMO*
- HLS GeoCONOPS is *guided* and influenced *by the Geospatial Interagency Oversight Team (GIOT)*
 - Consists of 45 organizations within 20 agencies and partners





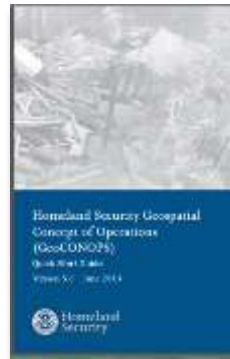
- **Conducting an annual Top-to-Bottom Review**
 - Minor edits across entire document
 - Adding/Updating Details
 - Full Review of Appendix B (Authoritative Data)
 - Revision of Appendix G – US National Grid
 - In-line with NAPSG Implementation Guide
- **New Annex - Intelligence and Law Enforcement (Intel/LE)**
 - Key engagements with DOJ, CBP, USSS, ICE, USCG, and IC
 - Contain scenario centered around the Amistad Dam
 - ***Published separately*** via DHS GII and IntelLink
- **New Appendix covering the FEMA Modeling and Data Work Group**



Printed Media



Fold-out Poster/Fact Sheet



Quick Start Guide



Full Print Version

Online Resources



Web/CBT Training



Website
(Available Now!)



Mobile View

Co-sponsored Products

- Geospatial Standard Operating Guide
- Coastal Oil Spill Geospatial SOG Annex
- WildFires Geospatial SOG Annex
- US National Grid Geospatial SOG Annex
- Incident Symbology Report of Findings
- Capabilities & Readiness Assessment Tool



- Available now from GeoPlatform~!
- Provides entire content of the HLS GeoCONOPS
- Users can Search document content and data listing
- Data catalog is searchable by PPD-8 or ESF missions
- Cross platform mobile views will be available after formal designation of URLs



- GeoCONOPS compliments/supports a larger set of national initiatives and policies to help align key geospatial resources and capabilities
- GeoCONOPS provides States/locals a key resource for understanding the larger geospatial community supporting Homeland Security (who, what, and when)
 - Build better understanding between operators, technicians, and consumers
 - Promote the tradecraft and Advance the technology and innovation
- GeoCONOPS serves as a strategic resource for planning and a tactical resource for finding available data, tools, and best practices

Thank You!



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Key Resources:

Web Links:

Geospatial Information Infrastructure	https://gii.dhs.gov	(requires an HSIN user account)
GeoCONOPS Online (Beta)	https://www.geoplatform.gov/geoconops-home	
GeoCONOPS Print Downloads	https://www.geoplatform.gov/sites/default/files/geoconops/GeoCONOPS_v5.pdf	
Geospatial Standard Operating Guides	http://www.napsgfoundation.org/blog/napsg-blog/148-napsg-standard-operating-guidance-documents	
Capabilities & Readiness Assessment Tool	http://carat.napsgfoundation.org/	
Homeland Infrastructure Level Data Work Group:	www.hifldwg.org	
Geospatial Resources Community	https://hsin.dhs.gov/fed/gis	

Training Links:

GeoCONOPS Overview:	https://training.fema.gov/EMIWeb/IS/courseOverview.aspx?code=IS-60
GeoCONOPS In-Depth:	https://training.fema.gov/EMIWeb/IS/courseOverview.aspx?code=IS-61
GeoCONOPS In-Use:	https://training.fema.gov/EMIWeb/IS/courseOverview.aspx?code=IS-62
Geospatial Information Infrastructure (GII):	https://training.fema.gov/EMIWeb/IS/courseOverview.aspx?code=IS-63

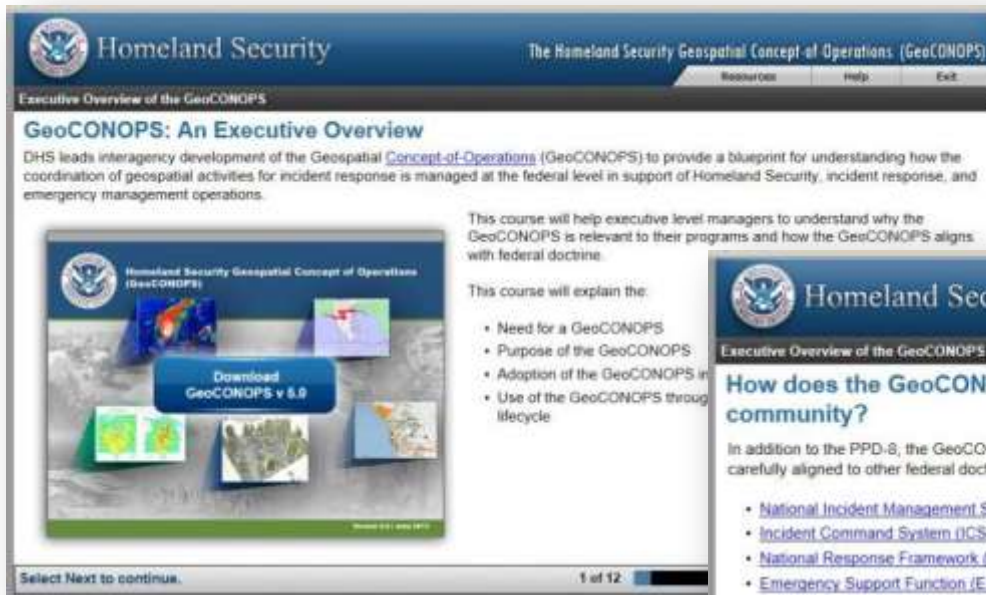
- Training is Presented in Three Modules:
 - **Executive Overview** – *For Decision Makers and Executives*
 - **GeoCONOPS in Depth** – *Importance to Federal Doctrine and the National Preparedness Lifecycle*
 - **GeoCONOPS in Use** – *For Emergency Managers, Incident Commanders and Geospatial Practitioners*
- Courses are Available on FLETC and FEMA EMI



The image displays three screenshots of the GeoCONOPS training modules. The top screenshot shows the 'Executive Overview' module, titled 'What is the purpose of the GeoCONOPS? To serve as a mission blueprint'. It includes a video player and four interactive graphics: a globe, a pie chart, a map, and a technical diagram. The middle screenshot shows the 'GeoCONOPS in Depth' module, titled 'GeoCONOPS: A Common Framework Toward Achieving National Preparedness'. It features a list of bullet points and a video player showing a man speaking. The bottom screenshot shows the 'GeoCONOPS in Use' module, which is partially obscured and shows a video player with a man speaking.

Module 1: GeoCONOPS Overview

Designed to Provide an Executive or Decision Maker with an Overview of the Content and Value of the GeoCONOPS to the Emergency Management Community



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The Homeland Security Geospatial Concept of Operations (GeoCONOPS)

Executive Overview of the GeoCONOPS

GeoCONOPS: An Executive Overview

DHS leads interagency development of the Geospatial [Concept-of-Operations](#) (GeoCONOPS) to provide a blueprint for understanding how the coordination of geospatial activities for incident response is managed at the federal level in support of Homeland Security, incident response, and emergency management operations.

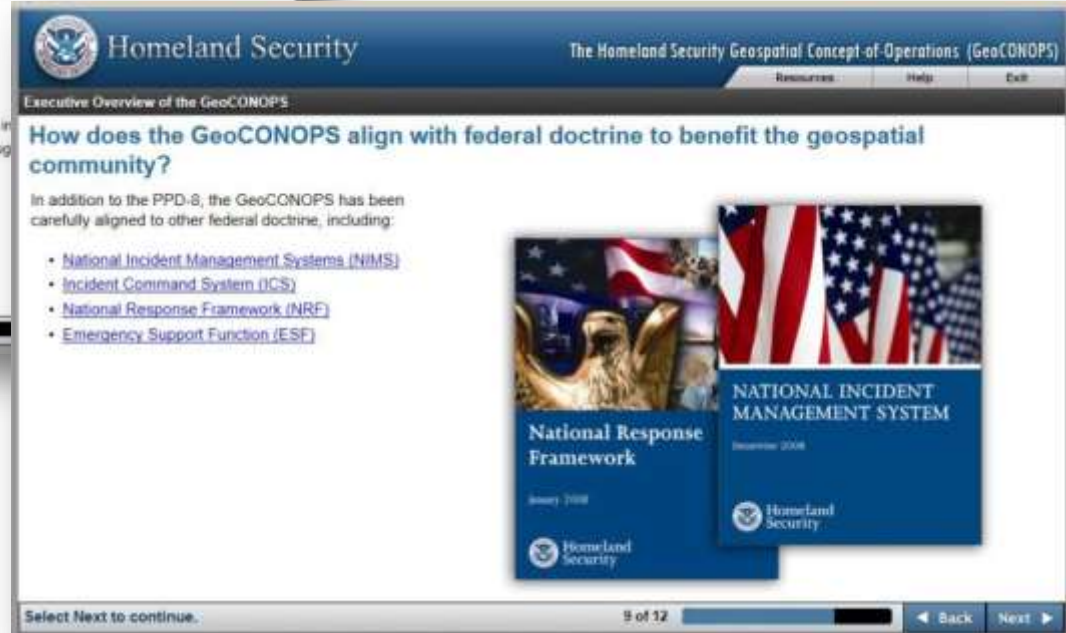
This course will help executive level managers to understand why the GeoCONOPS is relevant to their programs and how the GeoCONOPS aligns with federal doctrine.

This course will explain the:

- Need for a GeoCONOPS
- Purpose of the GeoCONOPS
- Adoption of the GeoCONOPS in
- Use of the GeoCONOPS through lifecycle

Download GeoCONOPS v 8.0

Select Next to continue. 1 of 12




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Executive Overview of the GeoCONOPS

How does the GeoCONOPS align with federal doctrine to benefit the geospatial community?

In addition to the PPD-8, the GeoCONOPS has been carefully aligned to other federal doctrine, including:

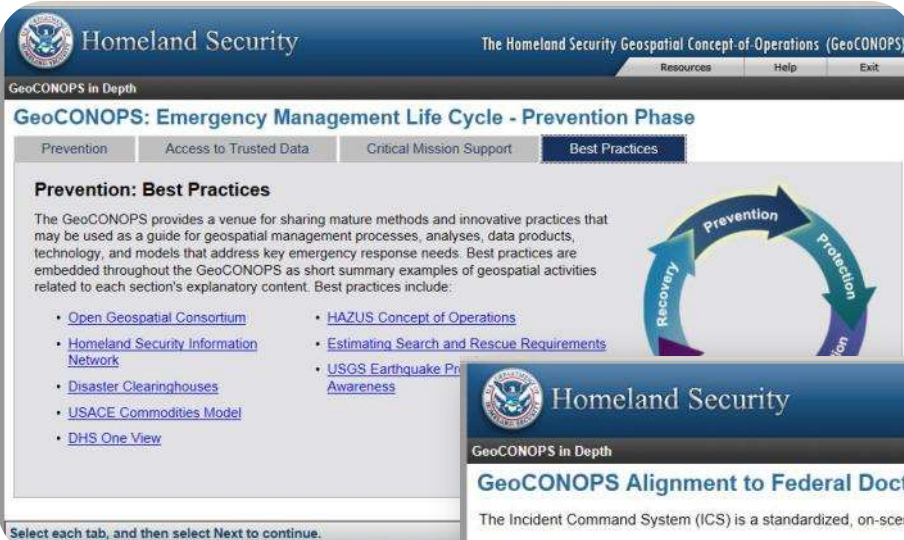
- [National Incident Management Systems \(NIMS\)](#)
- [Incident Command System \(ICS\)](#)
- [National Response Framework \(NRF\)](#)
- [Emergency Support Function \(ESF\)](#)



Select Next to continue. 9 of 12

Module 2: The GeoCONOPS In Depth

An In-Depth Look at the **Key Values** of the GeoCONOPS and Its Contribution to the Preparedness Life Cycle and to Federal Doctrine:



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GeoCONOPS in Depth


GeoCONOPS: Emergency Management Life Cycle - Prevention Phase

Prevention Access to Trusted Data Critical Mission Support **Best Practices**

Prevention: Best Practices

The GeoCONOPS provides a venue for sharing mature methods and innovative practices that may be used as a guide for geospatial management processes, analyses, data products, technology, and models that address key emergency response needs. Best practices are embedded throughout the GeoCONOPS as short summary examples of geospatial activities related to each section's explanatory content. Best practices include:

- [Open Geospatial Consortium](#)
- [HAZUS Concept of Operations](#)
- [Homeland Security Information Network](#)
- [Estimating Search and Rescue Requirements](#)
- [Disaster Clearinghouses](#)
- [USGS Earthquake Preparedness Awareness](#)
- [USACE Commodities Model](#)
- [DHS One View](#)



Select each tab, and then select Next to continue.



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GeoCONOPS in Depth

GeoCONOPS: A Product of the Entire Geospatial Community

The GeoCONOPS is a product of the entire geospatial community for all hazards, all threats, and has been developed through the input and commitment of this community.

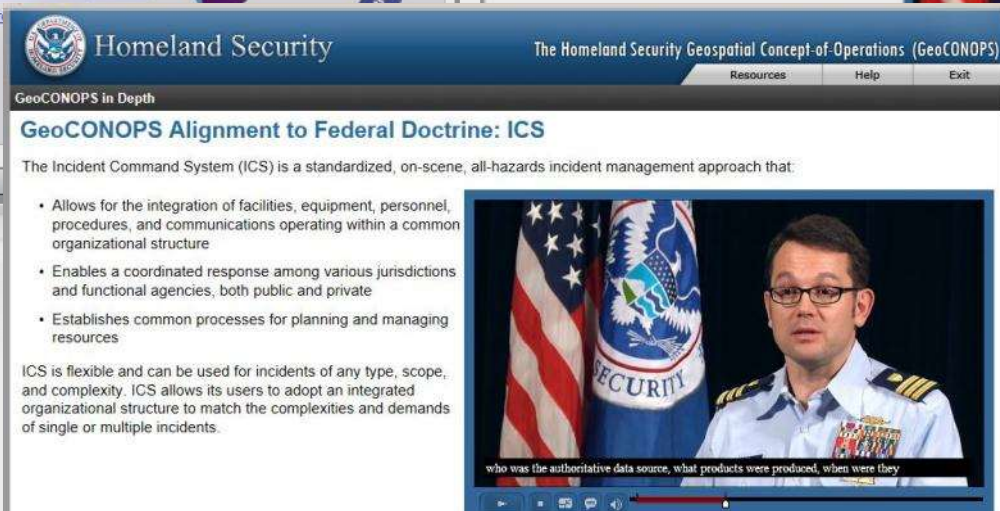
The GeoCONOPS is a forum where the geospatial community comes together to establish commitments to one another, to provide mission-essential information, and to learn about tools and techniques used by others in the community.



...and it wasn't just a product that was put together by one person...

...to view a video interview of Patrick Stewart, Assistant Secretary for Policy and Planning, Department of Homeland Security and Border Protection.

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GeoCONOPS in Depth

GeoCONOPS Alignment to Federal Doctrine: ICS

The Incident Command System (ICS) is a standardized, on-scene, all-hazards incident management approach that:

- Allows for the integration of facilities, equipment, personnel, procedures, and communications operating within a common organizational structure
- Enables a coordinated response among various jurisdictions and functional agencies, both public and private
- Establishes common processes for planning and managing resources

ICS is flexible and can be used for incidents of any type, scope, and complexity. ICS allows its users to adopt an integrated organizational structure to match the complexities and demands of single or multiple incidents.



...who was the authoritative data source, what products were produced, when were they...

Points of Collaboration-Authoritative Data-Best Practices – Technical Capabilities

An In-Depth Look at the **Key Values** of the GeoCONOPS for Emergency Managers, Incident Commanders and Geospatial Practitioners – Presented Using the New Madrid Earthquake Scenario That is Part of the GeoCONOPS:



The screenshot displays two overlapping screenshots of the GeoCONOPS web application. The top-left screenshot shows a vignette titled "How can mission managers use the GeoCONOPS during a natural disaster?" with a sub-heading "Vignette: New Madrid Earthquake". It includes text about applying geospatial technologies and a video player with a "Play" button. The bottom-right screenshot shows a vignette titled "How does the GeoCONOPS support geospatial practitioners?" with a sub-heading "The GeoCONOPS provides a protocol to guide workflow during an incident." It lists requirements for coordination, staffing, technology, geospatial capabilities, and modeling/simulation, and includes a video player with a "Play" button.

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GeoCONOPS in Use

How can mission managers use the GeoCONOPS during a natural disaster?

Vignette: New Madrid Earthquake

This vignette, drawn from the GeoCONOPS, explores the details of applying geospatial technologies following an earthquake in the New Madrid seismic zone, and shows a linkage to the National Response Framework.

This low-probability, high impact incident is an effective demonstration of the relevance of the GeoCONOPS in supporting a natural catastrophic incident with no prior notice.

Select the **Play** button to view a video vignette of how the GeoCONOPS can be used to support an earthquake incident.

Note: This video is 6 minutes in duration.

Watch the video, then select Next to continue. 11 of 13

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GeoCONOPS in Use

How does the GeoCONOPS support geospatial practitioners?

The GeoCONOPS provides a protocol to guide workflow during an incident.

The GeoCONOPS provides guidelines for geospatial mission support issues such as:

- [Coordination requirements](#) that allow for geospatial activities to operate efficiently in support of incident response
- [Staffing requirements](#) to adequately support small and large events
- [Technology requirements](#) that describe the level of effort required for hardware and software maintenance
- [Geospatial capabilities](#) across the emergency management and homeland security environments
- [Modeling and simulation capabilities](#) to provide predictive, prescriptive, and virtual analysis

Watch the video, then select Next to continue. 9 of 13

Points of Collaboration-Authoritative Data-Best Practices – Technical Capabilities