



SPACE-BASED POSITIONING  
NAVIGATION & TIMING  
NATIONAL COORDINATION OFFICE



# U.S. Space-Based Positioning, Navigation & Timing (PNT): A Policy Update

## ***Civil GPS Service Interface Committee (CGSIC)***

***Savannah, Georgia  
21 September 2009***

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U.S. National Coordination Office**



# Introduction

- **Over the past decade, GPS has grown into a global utility providing space-based positioning, navigation and timing (PNT)**
  - **Consistent, predictable, dependable policy and performance**
  - **Augmentations improve performance even further**



- **Like the Internet, GPS has become a critical component of the global information infrastructure**
  - **Scalable applications enabling broad new capabilities**
  - **Facilitating innovations in efficiency, safety, environmental, public security, and science**



# Overview



- **U.S. Space-Based PNT Policy**
- **U.S. Space-Based PNT Organization/Staffing**
- **Key Accomplishments**
- **Summary**



# U.S. Space-Based PNT Policy



***GOAL: Ensure the U.S. maintains space-based PNT services, augmentation, back-up, and service denial capabilities that...***

ASSURES SERVICE

Provide uninterrupted availability of PNT services

MEETS DEMANDS

Meet growing national, homeland, economic security, and civil requirements, and scientific and commercial demands

LEADS MILITARILY

Remain the pre-eminent military space-based PNT service

STAYS COMPETITIVE

Continue to provide civil services that exceed or are competitive with foreign civil space-based PNT services and augmentation systems

INTEGRATES  
GLOBALLY

Remain essential components of internationally accepted PNT services

LEADS TECHNICALLY

Promote U.S. technological leadership in applications involving space-based PNT services



# U.S. Space-Based PNT Policy

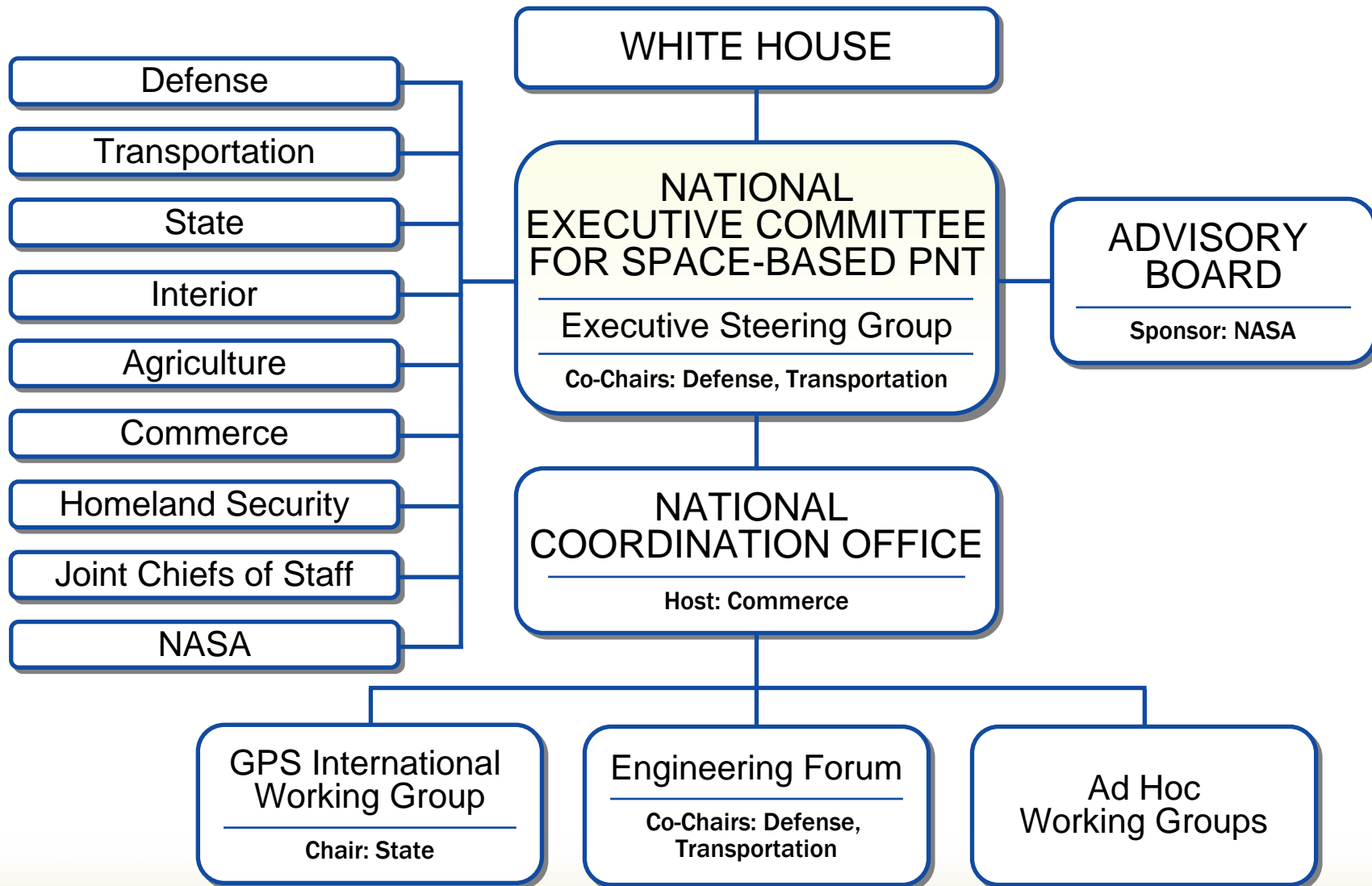


- Provide GPS and augmentations **free of direct user fees** on a continuous, worldwide basis
- Provide open, **free access to information** needed to develop user equipment
- **Improve performance** of GPS and augmentations
- Seek to ensure international systems are **interoperable** with civil GPS and augmentations or, at a minimum, are compatible

***Policy stability and transparency improve industry confidence and investment***



# U.S. Space-Based PNT Organizational Structure





# National Executive Committee and Coordination Office for Space-Based PNT



- **Executive Committee (EXCOM) Co-Chairs**
  - Deputy Secretary of Defense                      - William J. Lynn, III
  - Deputy Secretary of Transportation                - John D. Porcari
  
- **National Coordination Office (NCO) Staff**
  - Director    - Vacant
  - Deputy Director     - Colonel Robert Hessin, USAF
  - DoD    - Lt Col Scott Boushell, USAF
  - DOT     - Mr. Ken Alexander
  - State     - Ms. Maureen Walker
  - DOC     - Mr. Jason Kim
  - Mr. Knute Berstis
  - NASA     - Mr. Brian Ramsay
  - DHS    - Mr. John Merrill \*
  - DOI & USDA    - Vacant



# National Space-Based PNT Advisory Board



- **Conducts assessments & makes recommendations to EXCOM in support of national policy goals and objectives**
- **Twenty members (including 5 international members)**
  - **Chaired by Dr. James Schlesinger**
  - **Published Final Report on 2007-2008 taskings**
  - **Minutes from May 2009 meeting posted on [PNT.gov](http://PNT.gov)**
- **Next meeting – November 5-6, 2009 in Alexandria, VA**





# Key Accomplishments

(Since last CGSIC Meeting)



- **Published final notice on semi-codeless GPS sunset**
  - September 2008
- **Updated SPS Performance Standard**
  - September 2008
- **Published first WAAS Performance Standard**
  - October 2008
- **Submitted Biennial Report to Congress**
  - October 2008
- **State/NASA hosted 3<sup>rd</sup> Int'l Committee on GNSS (ICG)**
  - December 2008
- **DoD, DOT, DHS published 2008 Federal Radionavigation Plan**
  - January 2009
- **NASA renewed Charter for Advisory Board**
  - January 2009



# Key Accomplishments

(Since last CGSIC Meeting)



- **FY09 Omnibus signed with \$20.7M Civil Funding for GPS**
  - March 2009
- **Launched GPS IIR-20(M) to bring L5 signal into use**
  - March 2009
- **DOT released Civil Monitoring Performance Specification**
  - April 2009
- **Air Force released OCX Request for Proposal**
  - May 2009
- **USTR submitted report to Congress on Galileo market access**
  - July 2009
- **Opened QZSS monitoring station at NOAA site in Guam**
  - August 2009



# Web-Based Information



- **[PNT.gov](http://PNT.gov)** – established to distribute information on the U.S. National Executive Committee to include:
  - U.S. Policy, Executive Committee membership, Advisory Board and frequently asked questions
  - All recent public presentations (including this one)
- **[GPS.gov](http://GPS.gov)** – established to provide public information about GPS applications
  - Available in English, French, Spanish, Arabic and Chinese
  - Hardcopy brochure also available upon request
  - Contains additional links to various other web sites



# Summary

- **U.S. supports free access to civilian GNSS signals with public domain documentation necessary to develop user equipment**
- **GPS is a critical component of the global information infrastructure**
  - **Compatible with other satellite navigation systems and interoperable at the user level**
  - **Guided at a national level as multi-use asset**
- **The U.S. policy promotes open competition and market growth for commercial GNSS**
- **Next ESG meeting scheduled for 15 October 2009**
- **Next EXCOM tentatively scheduled for 19 November 2009**

***GPS is a Global Public Service providing consistent, predictable, dependable performance***



# Contact Information

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