



SPACE-BASED POSITIONING
NAVIGATION & TIMING
NATIONAL COORDINATION OFFICE

National Policy Update

Space-Based PNT Advisory Board
June, 2015

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Space-Based Positioning, Navigation and Timing

GPS enables a diverse array of applications



Space Applications



Surveying & Mapping



Power Grids



Precision Agriculture



Transit Operations



NextGen



Disease Control



Intelligent Vehicles



TeleComm



Trucking Shipping



Personal Navigation



Oil Exploration



Fishing & Boating



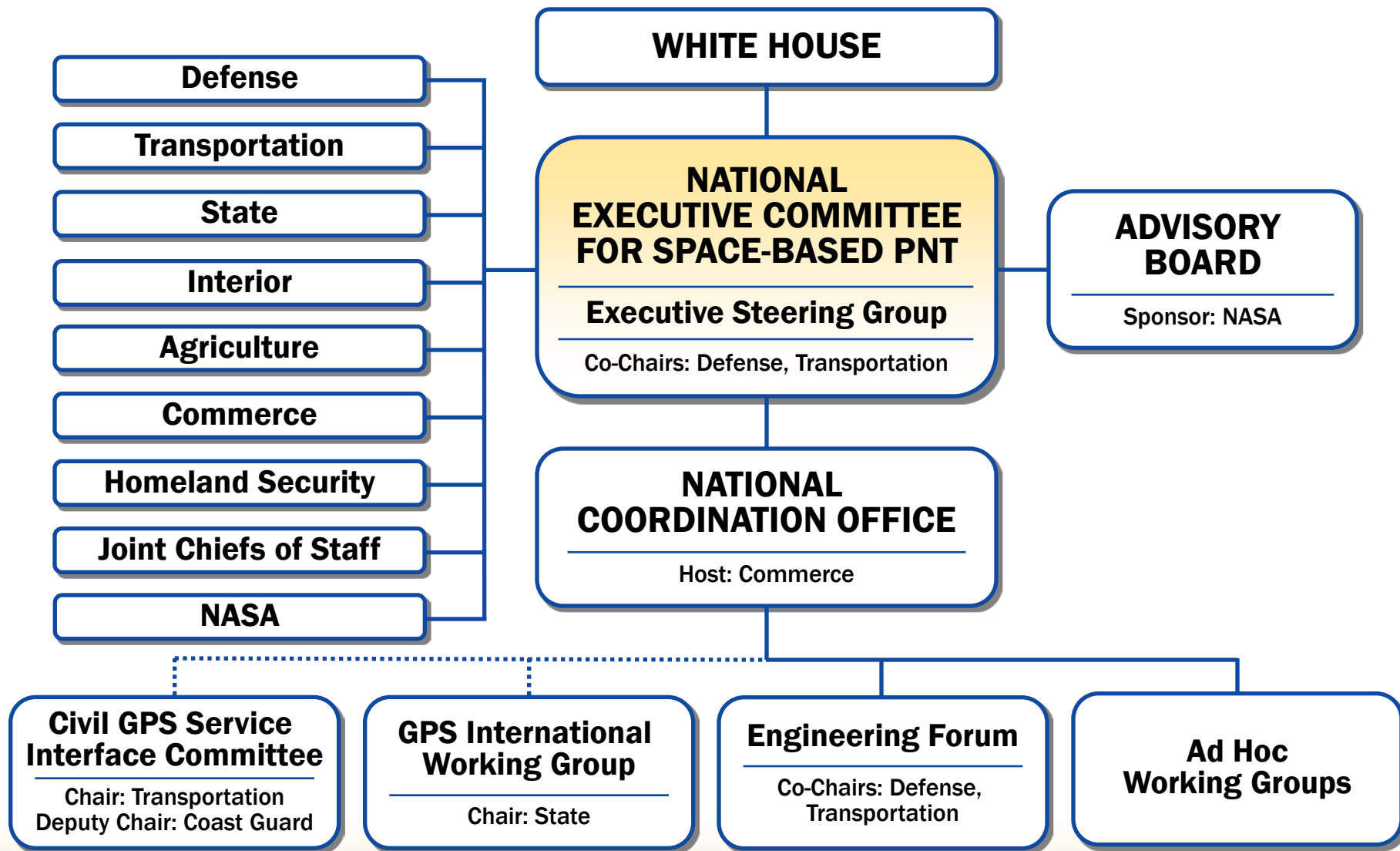
U.S. Policy

The U.S. must maintain its leadership in the service, provision and use of Global Navigation Satellite Systems (GNSS)

- Continuous, worldwide, free of direct user fees
- Encourage compatibility and interoperability with foreign GNSS services and promote transparency in civil service provisioning
- Operate and maintain constellation to satisfy civil and national security needs
 - Foreign PNT services may be used to augment and strengthen the resiliency of GPS
- Invest in domestic capabilities and support international activities to detect, mitigate and increase resiliency to harmful interference



U.S. Space-Based PNT Organization Structure





EXCOM Strategic Focus Areas



- **GPS Sustainment and Modernization**
- **International Cooperation**
- **Spectrum Management**
- **Critical Infrastructure PNT Resilience**
- **Outreach**



Complementary PNT (CPNT)

- **EXCOM looked at need for complement to GPS**
 - Assessment driven by many factors: from policy to technology
 - U.S. coverage for GPS outage from natural or man-made events
- **Current Activity: Identify and assess alternatives**
 - Assessed a broad mix of terrestrial RF and autonomous PNT technologies
- **Decision timeline: No earlier than summer 2015**
 - Supports FY17 investment decisions
- ***Federal Register* Notice published 23 March for public stakeholder engagement**



Public Comment/Stakeholder Outreach



- DOT issued a *Federal Register* Notice in conjunction with Complimentary PNT (CPNT) Team seeking:
 - Brief description of PNT application(s)
 - PNT performance required for a complementary PNT capability
 - Availability and coverage area required for a CPNT capability
 - Willingness to equip with an eLoran receiver
 - Current/planned availability of e-Loran user equipment
 - Other non-eLoran PNT technologies or operational procedures currently available or planned
- Widely circulated to stakeholder communities
- Comments posted on www.regulations.gov when received

Synopsis of Comments Provided At End of Comment Period



Thank You !

GPS.gov Official U.S. Government Information about the Global Positioning System (GPS) and related topics

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APPLICATIONS:

- Applications
- Agriculture
- Aviation
- Environment
- Marine
- Public Safety & Disaster Relief
- Rail
- Recreation
- Roads & Highways
- Space
- Surveying & Mapping
- Timing

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GPS Applications

Like the Internet, GPS is an essential element of the global information infrastructure. The free, open, and dependable nature of GPS has led to the development of hundreds of applications affecting every aspect of modern life. GPS technology is now in everything from cell phones and wristwatches to bulldozers, shipping containers, and ATMs.

GPS boosts productivity across a wide swath of the economy, to include farming, construction, mining, surveying, package delivery, and logistical supply chain management. Major communications networks, banking systems, financial markets, and power grids depend heavily on GPS for precise time synchronization. Some wireless services cannot operate without it.

GPS saves lives by preventing transportation accidents, aiding search and rescue efforts, and speeding the delivery of emergency services and disaster relief. GPS is vital to the Next Generation Air Transportation System (NextGen) that will enhance flight safety while increasing airspace capacity. GPS also advances scientific aims such as weather forecasting, earthquake monitoring, and environmental protection.

Examples

- Agriculture
- Aviation
- Environment
- Marine
- Public Safety & Disaster Relief
- Rail
- Recreation
- Roads & Highways
- Space
- Surveying & Mapping
- Timing

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***GPS: Continuous improvement,
predictable, dependable performance***