



SPACE-BASED POSITIONING  
NAVIGATION & TIMING

NATIONAL COORDINATION OFFICE

*U.S. Space-Based  
Positioning, Navigation and Timing (PNT)  
Policy Update:*

**RADIO-FREQUENCY INTERFERENCE -  
CRITICAL INFRASTRUCTURE/PNT RESILIENCE**

June, 6, 2016

Robert Crane  
Senior Homeland Security Advisor  
National Coordination Office

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Advancing The Trilateral Europe-U.S.-Japan Space Security Partnership  
International Conference – June 5–7, 2016

The Ministry of Foreign Affairs of the Czech Republic  
Czernin Palace, Prague



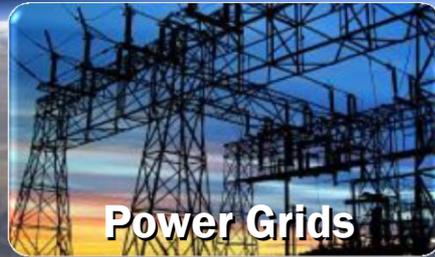
# GPS Enables a Diverse Array of Applications



**Space Applications**



**Surveying and Mapping**



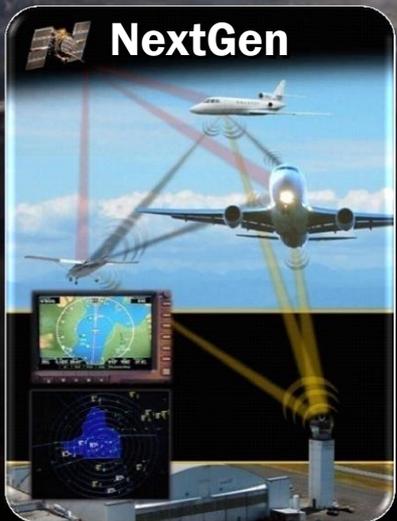
**Power Grids**



**Precision Agriculture**



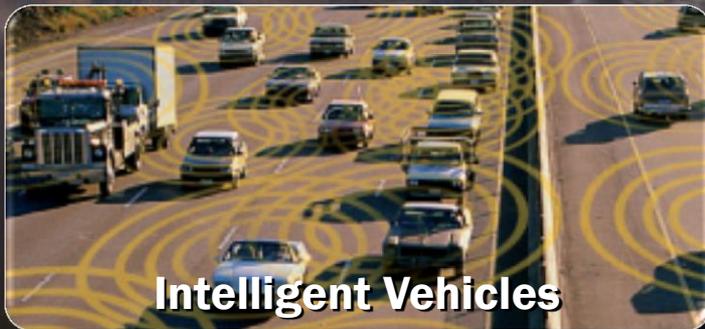
**Transit Operations**



**NextGen**



**Disease Control Mapping**



**Intelligent Vehicles**



**TeleComm**



**Trucking**



**Personal Navigation**



**Shipping**



**Oil Exploration**



**Fishing and Boating**



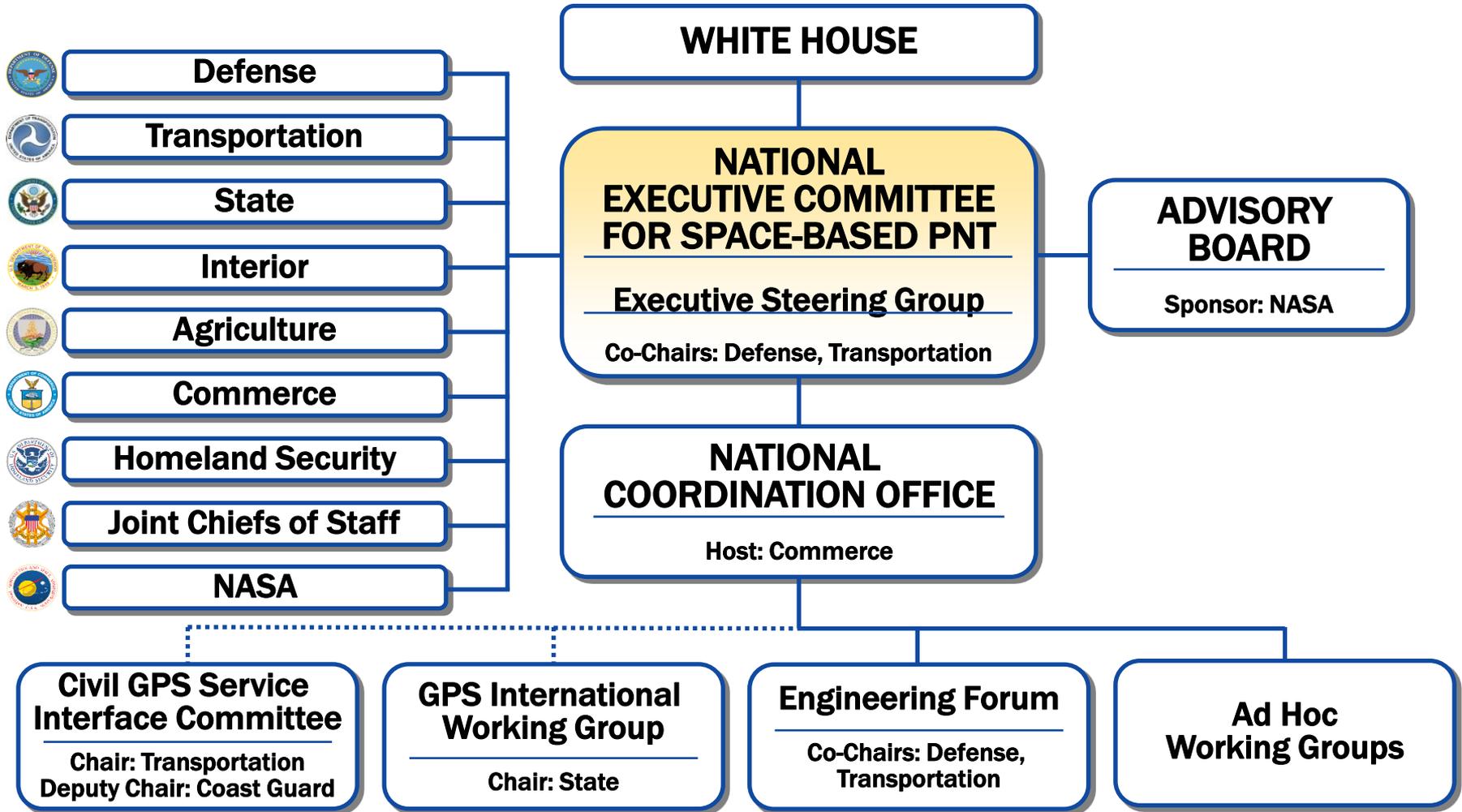
## U.S. Policy

### *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 provision
- Operate and maintain the GPS 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 to GPS



# National Space-Based PNT Organization





# EXCOM Strategic Focus Areas



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



# Thank You!



## Stay in touch with

[WWW.GPS.GOV](http://WWW.GPS.GOV)

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