U.S. Space-Based Positioning, Navigation and Timing (PNT)

57th Meeting of the Civil GPS Service Interface Committee
Portland, Oregon

26 September 2017

Ken Alexander, Senior Advisor
on behalf of
Harold W. Martin III, Director
National Coordination Office
GPS Improves Economy & Efficiency of Everyday Operations

Applications
- Aviation
- Search and rescue
- Surveying & mapping
- Trucking & shipping
- Agriculture
- Offshore drilling

- Fishing & boating
- Military
- Scientific
- Timing
- Tracking
- Exploration

GPS is a Global Utility
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
National Space-Based PNT Organization

WHITE HOUSE

NATIONAL EXECUTIVE COMMITTEE FOR SPACE-BASED PNT

Executive Steering Group
Co-Chairs: Defense, Transportation

NATIONAL COORDINATION OFFICE
Host: Commerce

ADVISORY BOARD
Sponsor: NASA

Defense
Transportation
State
Interior
Agriculture
Commerce
Homeland Security
Joint Chiefs of Staff
NASA

Civil GPS Service Interface Committee
Chair: Transportation
Deputy Chair: Coast Guard

GPS International Working Group
Chair: State

Engineering Forum
Co-Chairs: Defense, Transportation

Ad Hoc Working Groups
Strategic focus areas include:

- GPS Sustainment and Modernization
- International Cooperation
- Spectrum Management
- Critical Infrastructure
- PNT Resilience
- Complementary PNT
- Outreach and Education
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**GPS: Accessible, Accurate, Interoperable**