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

56th Civil GPS Service Interface Committee Meeting
Portland, Oregon

Harold W. Martin III
Director
National Coordination Office
European GNSS Agency estimates:

- Numbers of receivers globally 2014 - 3.6B**
  - 1 GPS device for every person on Earth by 2019, 9B by 2023
- GNSS receivers may grow faster than today’s estimates:
  - UAVs, Internet of Things, intelligent transportation systems, logistics tracking applications
- Estimates say over half of existing receivers already support 2 or more GNSS
- Multi GNSS “future” is here...Now

** European GNSS Agency (GSA), GNSS Market Report 2015. Includes one or more devices that use both GPS and one or more other GNSS

GPS Global Use is Growing
GPS Enables Everyday Life

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, promote transparency in civil service provisioning and enable market access
- 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
- Protect radio-navigation spectrum from disruption and interference
EXCOM Strategic Focus Areas

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