



Civil GPS Service Interface Committee

at the

Munich Satellite Navigation Summit

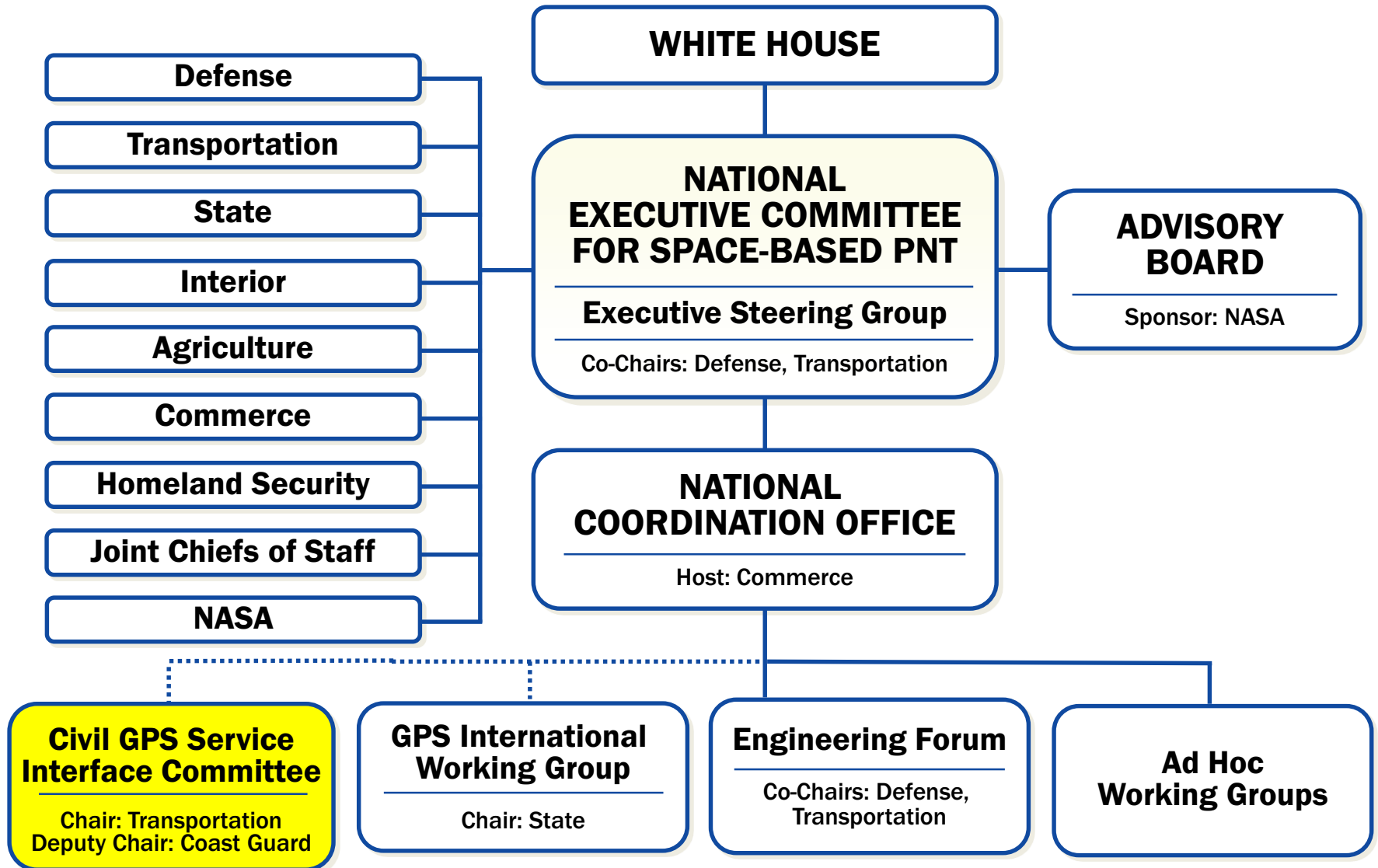
Alte Kongresshalle, Munich, Germany

March 27, 2019

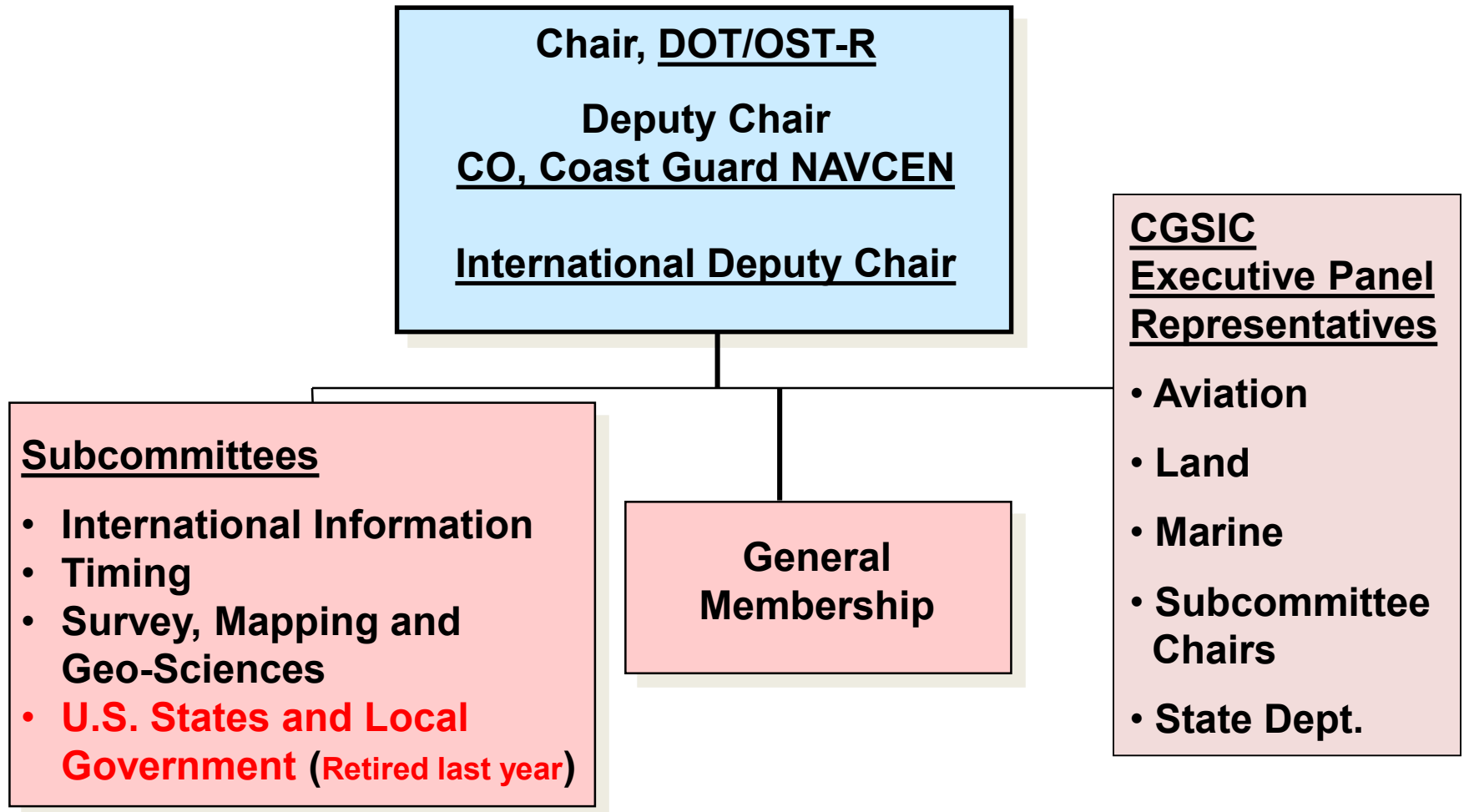
GPS Civil Users Need A Means For:

- Receiving system information (system status, health and modernization plans).
- Providing civil input/feedback (feedback on adequacy of signals for user needs, new applications).
- Global participation.
- Reporting interference/outages (process for interference detection and mitigation).
- Having an advocate (a means by which system users can be represented in all parts of the system planning and operation).

U.S. Space-Based PNT Organization Structure



Civil GPS Service Interface Committee (CGSIC)



CGSIC is the World-Wide Forum Between Civil GPS Users and U.S. Government Service Providers

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58th Meeting of the Civil GPS Service Interface Committee



**At the Institute of Navigation GNSS+ 2018 Conference
Hyatt Regency Miami
Miami, Florida
September 24-25, 2018**



Possible further operational interfaces with similar Service Centres already operational in other regions



China
BEIDOU



European Union
Galileo



Russian Federation
GLONASS



United States
GPS



India
IRNSS



Japan
QZSS

GPS Program activity

- New Satellite: SVN-74/PRN-04
 - Extensive on-orbit testing
 - Wait for USABINIT NANU
- GPS Week Number Rollover event
06/07 April
- GPS Issue of Data, Clock software modification
 - “Sometime in Summer 2019”
 - Should be transparent to IS-GPS-200 compliant receivers



Interference Reporting

U.S. process starts with problem report to NAVCEN, FAA or FCC

- Service Center triage to confirm problem
- Initial interagency conference call to provide for a coordinated government response, discussion on way ahead
- Priority assigned will determine level of response and agencies involved

Purpose: The Coast Guard Navigation Center will use this information to disseminate navigation safety notices and updates to individuals upon request and to receive reports of aid to navigation outages, issues or discrepancies.

Routine Uses: Coast Guard personnel will use this information to disseminate safety notices and updates and to aid in the repair or investigate reports of navigation outages, issues or discrepancies. Any external disclosures of data within this record will be made in accordance with DHS/ALL-002, Department of Homeland Security General Contact Lists, 73 Federal Register 71659, November 25, 2008, and DHS/USCG-013, Marine Information for Safety and Law Enforcement System of Records, 74 Federal Register 30305, June 25, 2009.

Disclosure: Furnishing this information is voluntary; however, failure to furnish the requested information may hinder your request for navigation safety related information.

* Denotes a required field

1) * Your Name:

2) * Email Address:

3) * Telephone number: [i.e. - (703) 313-5900]

4) Preferred method and time to be contacted if additional information is necessary:

5) * What was the start time and date of the GPS disruption? Date: Time:

Zone:

6) * Is the GPS disruption ongoing?

7) * Where did the disruption occur? (LAT/LONG; Nearest City or landmark)

Lat	Long	City/Landmarks
<input type="text"/>	<input type="text"/>	<input type="text"/>

8) GPS user equipment make and model (receiver manufacturer and model, antenna type, etc...)?

Remaining Characters

9) GPS installation type (aviation, marine, surveying, agriculture, transportation, timing)? Other:

10) What was the elevation of the GPS antenna? Above Ground Level Above Sea Level

11) What GPS frequency are you using? (press Ctrl while selecting to select multiple satellites)

L1 (1575.42 MHz)
L2 (1227.6 MHz)

12) How many satellites were being tracked at the time of the disruption?

13) Which satellites were being tracked at the time of the disruption? (press Ctrl while selecting to select multiple satellites)

Don't Know
SVN23/PRN32
SVN24/PRN24

Interference Report Form:

<https://www.navcen.uscg.gov/?pageName=gpsUserInput>

CGSIC International Information Subcommittee

CGSIC Overview – *Rick Hamilton, Executive Secretariat, Civil GPS Service Interface Committee*

GPS Program Status and Modernization – *First Lieutenant Daniel Barnes, U.S. Air Force GPS Directorate*

GNSS Dependencies in Transportation – *Karen Van Dyke, U.S. Department of Transportation, Chair, Civil GPS Service Interface Committee*

The Expanding Civil Space User Segment: Reaching for New Frontiers – *Joel J. K. Parker, U.S. National Aeronautics and Space Administration (NASA)*

GNSS Update from the Department of Commerce – *Jason Kim, U.S. Department of Commerce*

GPS International Activities – *David Turner, Office of Space and Advanced Technology, U.S. Department of State*

Speaker panel Q&A