

Communications and External Relations 24 April 2024

Members

Dana Goward, Chair Joe Burns, 1st Co-Chair Eileen Reilly, 2nd Co-Chair John Betz Pat Diamond David Grossman Vahid Madani Jeff Shane Greg Winfree William Shelton Bryan Chan Mike Hamel

Primary Audience

DOD Dep Sec Hicks DOT Dep Sec Trottenberg

NSC Director Durkovich

Influencer Audience Congress Public



Internal Recommendations Pending

- PNT Advisory Board website separate from GPS.gov
 - Pends NASA coord and action w/ NCO
- PNT Advisory Board LinkedIn Account
 - Pends NASA General Counsel opinion
- 75% of PNT Advisory Board meetings in DC area, close to city to enable officials to attend
 - Pends NASA analysis and response.
- Meet with SPG & Space Council's Users' Advisory Group's National Security Subcommittee
 - National security PNT concerns

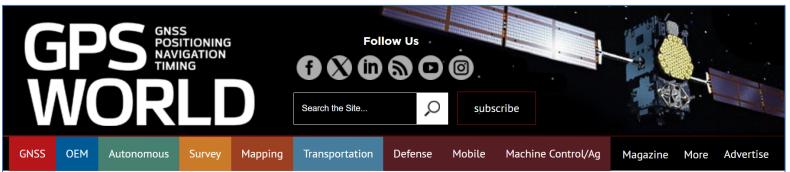


Raising Awareness

On line 28 March 2024

Print Edition April 2024

Communications and External Relations



PNT Advisory Board at 20: Still serving up big ideas

March 28, 2024 - By Dana Goward

Est. reading time: 2 minutes

- Quickly prototype a GNSS interference detection and reporting system.
- Implement an internet-based High Accuracy and Robustness Service (HARS)for GPS.
- Relax export controls that currently restrict use of adaptive anti-jam antennas.

These are just three of the efforts the U.S. government is pursuing as a result of recommendations from the President's National Space-based Positioning, Navigation and Timing (PNT) Advisory Board.

For 20 years the PNT Advisory Board has been providing the government independent expert advice about GPS and PNT.

Established by presidential directive in 2004 and administered under the Federal Advisory Committee Act by NASA, its charter has been regularly renewed. The charter provides that the board shall:



TUALAJ 4100-MINI

Precision in Protection: The Ultimate Anti-Jam Solution



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Communicating Recommendations

- GPS Infrastructure Program is fixed long term.
 - No appetite to modify GPS satellites, signals, control segment.
 - DOD & commercial LEO on-going
 - DOD litesat/nibblesat efforts seem to be in progress
 - Recommendations on infrastructure likely unproductive.
- Recommendations wrt GPS should be near-term, practical, and affordable
 - Examples: HARS, policies relative L-5 activation, responsible usage of more capable receivers.
 - Perhaps separate annex for longer term recommendations wrt infrastructure (satellites, signals, etc.)



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Communicating Recommendations

Compelling cause(s) for action

The United States is losing the PNT race to China.

- China has significant strategic and tactical hard power advantages.
 - Ex: Threats to US infrastructure.
- China 5-year plan to woo users away from GPS & US PNT, eroding American leadership.
- PNT crucial in great power competition.

Action needed

Whole of government effort

- Good work on-going in lots of places.
- Current PNT governance unsuitable for changed world.

