

PTA Subcommittee Update

PTA Subcommittee 16 November 2022

PTA Subcommittee Members and Charter

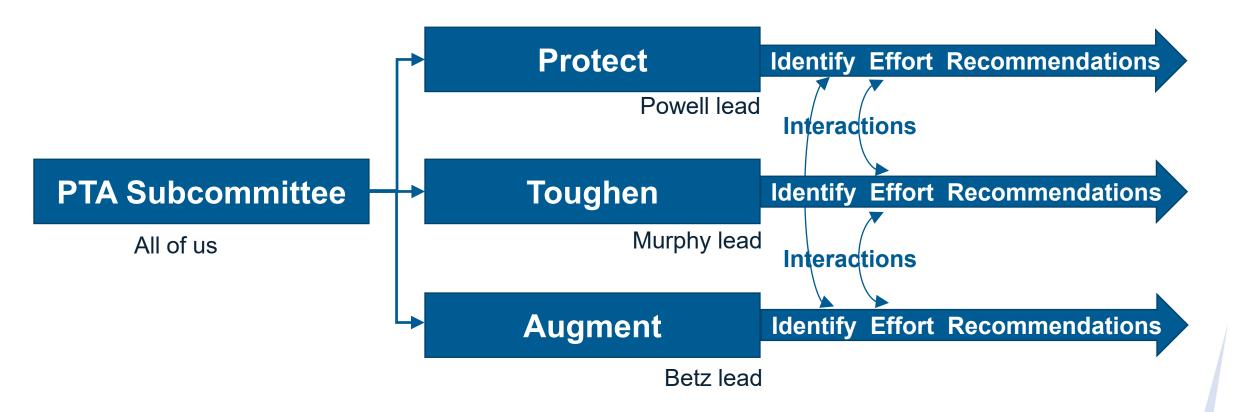
Members:

- John Betz, Chair
- Tim Murphy, 1st Vice-Chair
- Tom Powell, 2nd Vice-Chair
- Scott Burgett
- Pat Diamond
- Renato Filjar
- Michael Hamel
- Larry James
- Vahid Madani
- Todd Walter

Role/ Study Areas:

- Protect: Transparent & balanced spectrum management
- Toughen: Ensure ITAR does not unduly constrain civil & Commercial interests
- Augment: GDGPS, Complementary PNT, GNSS Signal Monitoring

PTA Subcommittee Parallel Focus



Identify and work with key implementers of our recommendations—not just the EXCOM

PTA

Protect Working Group Update

- Activity
 - Fact-finding session 1: 14 June Logan Scott
 - Fact-finding session 2: 21 October James Aviles and Karen Van Dyke
- Outcome
 - Logan Scott "J911" concept
 - Uses smartphones to crowdsource GPS interference
 - Requires wireless carrier, regulator support
 - SPD-7 directs DOT to conduct Interference Detection for civil PNT
 - Focusing on GNSS Interference Detection, Monitoring, Location, and Attribution
 - Multiple airport interference events in 2022: DEN, LGA, DFW, some unresolved

Protect Working Group Update (cont.)

Outcome

- DOT developing adjacent band spectrum monitoring capability
 - Will conduct "before" and "after" surveys prior to any service deployments
 - Interference metrics and mobile monitoring system
 - Ready for deployment if and when transmissions begin

Way Ahead

- Recommend hybrid approach to GPS, adjacent band spectrum protection
 - Seek regulator support for smartphone-based in-band interference detection
 - Support DOT initiatives to monitor, protect adjacent band spectrum

Toughen Working Group Update

Activity

- Fact-finding session 1: 3/18/2022
- Fact-finding session 2: 4/21/2022
- Fact-finding session 3: 7/20/2022
- Fact-finding session 4: 11/2/2022
- Fact-finding session 5: Planned

Outcomes

- FFM1 Current export control regimes reviewed and clarified. This included some information regarding the established processes for modifying controls.
- FFM2 General discussion of potential improvements export controls and decision to pursue a white paper.

Protect Working Group Update (cont.)

- Outcomes (continued)
 - FFM3 Presentations from 4 CRPA manufacturers about their current products and how export controls are potentially hampering future products.
 - Broader participation by industry and government
 - FFM4 Presentations from 2 CRPA manufacturers
 - Even more interest from industry
 - Participation by State Department and DTCA
 - Draft White Paper Capture the learnings so far and make preliminary recommendation
 - Circulated to select members of the committee at this meeting
 - Needs considerable work

Protect Working Group Update (cont.)

- Way Ahead
 - FFM5 Presentations from more CRPA manufacturers
 - Discuss pros/cons of potential changes to trade controls
 - Continue White Paper development