



Position, Navigation, and Timing (PNT) Workshop
May 24-25, 2022
Virtual/Building 3, NASA Ames Research Center, Moffett Field, CA
Agenda

May 24 (DAY 1)			
Time (PT)	Item	Presenter	Purpose
8:00-8:15	Welcome	DR. Parimal Kopardekar, NARI Director	Opening Comments – Why Alternate PNT, why Now?
8:15-8:30	Workshop Purpose/Goals	Wes Ryan, NARI Program Manager	Clear Purpose and Expected Outcomes
8:30- 8:45	FAA Comments	Steve Bradford/Ken Alexander	FAA Statement of Need - R&D Efforts Regarding PNT
8:45- 9:15	Overview of NASA PNT Work	TBD - Jim Murphy, Paul Nelson (cyber), Steve Young (SWS)? – NASA. Mike Guminsky – GPS denied	Existing NASA Efforts for PNT R&D
Break			
9:30-10:30	Description of PNT Needs and Vision for New Capabilities – Sean Memmen - Moderator	Industry Panel <ul style="list-style-type: none"> • uAvionix - Christian Ramsey • NextNav – Ganesh Pattabiraman • Spirent - Jeremy Bennington • Satelles – Mike O’Connor • Near Earth Technologies – Sanjiv Singh • BNSF – Jim Barrett 	What new missions are desired & where is technology now to meet that vision? Emerging Technology – How can sensor fusion systems meet the need?
10:30- 11:15	Facilitated Discussion for Sample use Case #1	Low Altitude Rotorcraft Logistics – Barriers and Opportunities	Explore Opportunities and Barriers in PNT technology and services
Lunch			
12:00-1:30	Mural Collaboration Session	Breakout 1 – <i>Performance & Use Cases</i> Breakout 2 – <i>Assurance & Vulnerabilities</i>	Explore Barriers and Opportunities in Specific Areas
1:30 – 2:00	Regroup - Discussion from Breakouts	Recap/Report out of what each breakout learned (Top 5)	Identify actionable steps and areas for future work
May 25 (DAY 2)			
8:00-9:00	Recap of Prior Day	Wes Ryan, NARI Program Manager	Summary of the prior day and review of agenda for 5/25



9:00 – 9:45	Facilitated Discussion for Sample use Case #2	Low Altitude Fixed Wing Logistics – Barriers and Opportunities	Explore Opportunities and Barriers in PNT technology and services
Break			
10:00- 11:30	Mural Collaboration Session	Breakout 1 – <i>Performance & Use Cases</i> Breakout 2 – <i>Assurance & Vulnerabilities</i>	Explore Barriers and Opportunities in Specific Technical Areas
Lunch			
12:15-12:45	Regroup - Discussion from Breakouts	Recap/Report out of what each breakout learned (Top 5)	Identify actionable steps and areas for future work
12:45-1:30	Summary of Findings	Capture of “top ten” areas that could inform future work in SDOs, future collaboration, etc.	Future partnerships with Industry, NASA & FAA
Break			
1:45-2:15	Next Steps & responsibilities	Team – Wes & Lannie	What did we learn and what comes next? Who is doing it? What partnerships can we generate?
2:15-2:30	Closing Remarks	DR. Parimal Kopardekar, NARI Director	