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**From:** pnt-eo@list.nist.gov on behalf of Brian Manning <brian@xonospace.com>  
**Sent:** Wednesday, June 17, 2020 10:48 AM  
**To:** pnt-eo@list.nist.gov  
**Subject:** [pnt-eo] RFI: Profile of Responsible Use of Positioning, Navigation, and Timing Services

To whom it may concern,

This email is regarding the NIST RFI regarding public and private sector technologies regarding resilient PNT.

Our company was recently founded in 2019 with the ultimate goal of enabling modern intelligent systems such as autonomous and aerial vehicles to operate safely in any environment, anywhere on Earth. To accomplish this we are developing a constellation of small, powerful PNT satellites in Low Earth Orbit to deliver robust and precise PNT services.

Our system is designed to offer mobile users (both civilian and government) a high security signal with more than a 10x increase in position accuracy over GPS and 100x increase in signal strength with minimal impact to user equipment. This meets or exceeds even the most stringent position and timing requirements put forth in the recent report on PNT from April 8, 2020 titled: "Report on Positioning, Navigation, and Timing (PNT) Backup and Complementary Capabilities to the Global Positioning System (GPS)." Given the rapid convergence of our system it is applicable to real-time navigation even for high-velocity users. Our system is being designed in a manner as suggested in the aforementioned report such that it could be integrated into existing chipsets, and under normal operation the enhanced capabilities would only be available to subscribers but in an emergency could be activated for all users.

We fully understand the financial challenges of launching a new dedicated PNT constellation, however our analysis has indicated that the rapidly falling cost of satellite components and access to space combined with the increased demand for high-performance PNT from sectors such as automotive and aerospace results in a business model that is commercially viable even at a very low cost to the end user.

We have published an initial white paper that is available on our website detailing our system's operation under normal operating conditions. It is worth noting that even in the event of a complete GNSS failure of all of the major constellations, Xona's system is designed in such a manner that it can continue to provide a PNT services and act as a fully independent backup.

Our company is dedicated to increasing the resilience of our PNT infrastructure so that it may continue to provide the massive economic benefits that GPS has enabled for so many years. We would be more than happy to discuss any details of our system in more detail should you be interested.

Best Regards,  
**Brian Manning**

CEO & Co-Founder  
The logo for Xona Space Systems features the word "Xona" in a stylized, teal font with a white outline, followed by "space" and "systems" in a smaller, teal font stacked vertically.

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