THE DREAM "Le Reve"

Refaat Rashad

The 22nd PNT Advisory Board Meeting Dec.5,6 2018

Crowne Plaza Redondo Beach, California

International Conference & Exhibition GNSS THE KEY TO INNOVATION 1-3 Oct. 2018 Concorde El Salam Hotel, Cairo

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James J. Miller

• Executive Director of the National Space-Based PNT Advisory Board,





Dr. Lisa Mazzuca

Dr. Lisa Mazzuca is the NASA Search and Rescue mission manager.



AIN Conference 1012







Nicho Award

Prof. Bradford Parkinson Stanford University



GNSS Interoperability Melaha Conference May 3-5, 2010 Cairo, Egypt

Raymond Clore

Senior Advisor for GNSS Issues Office of Space and Advanced Technology U.S. Department of State

U.S. Presentation from Melaha 2008 April 13, 2008, Michel Shaw NCO Director International Conference organized by the Arab Institute of Navigation Hurghada, Egypt. **Assured Availability of PNT**

Three Action Areas

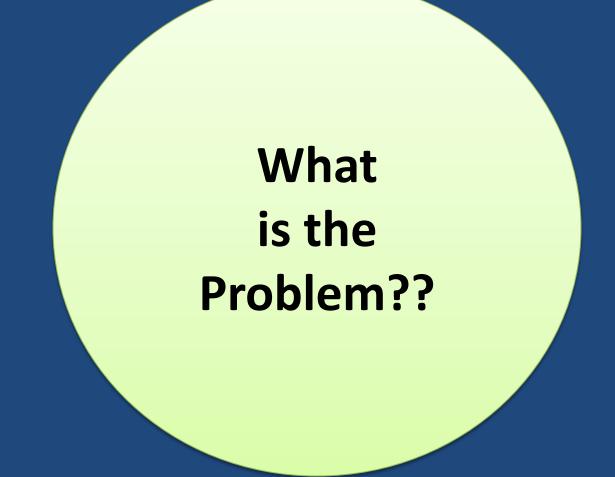
• **P**rotect the Clear and Truthful Signal

• **T**oughen User's Receivers

• Augment or substitute PNT sources

 I believe that the message has spread over and over nationally and internationally

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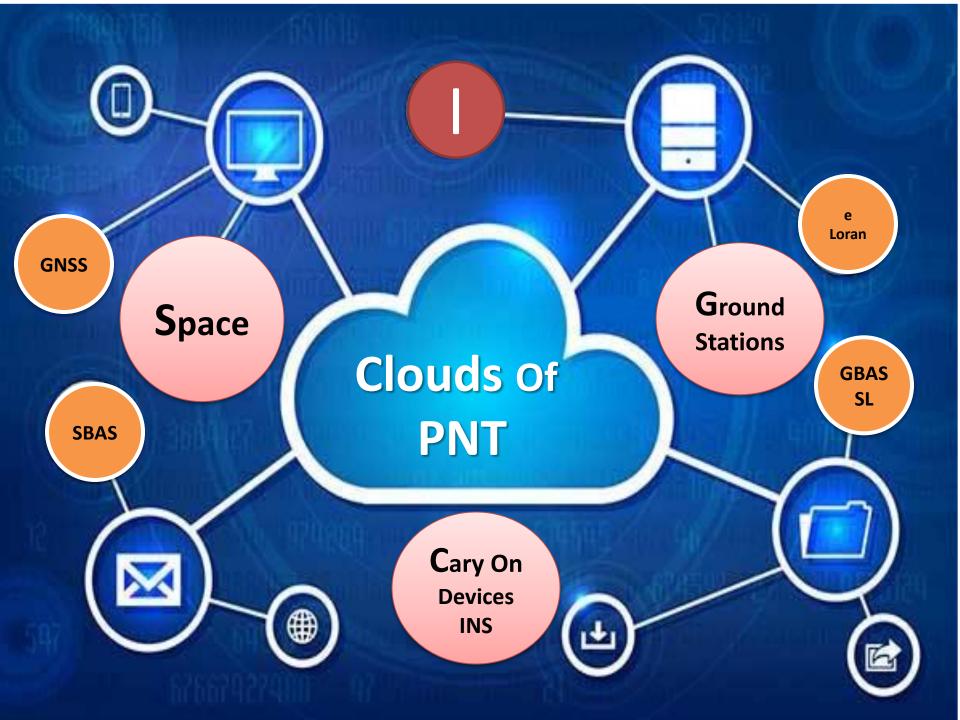
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 Society as a whole is facing numerous global threats, including climate change, a looming energy crisis, population growth, potential food shortages, increase the risk of insecurity and intensity of natural and man-made disasters.

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• How PNT can provide civil protection and humanitarian aid, and monitoring of atmospheric composition.

 How can PNT Support the selection of renewable energy production sites, monitoring of critical assets like nuclear plants, or protection of vital infrastructure like power plants or pipelines;

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- How can we use PNT for the best manage of our consumption and utilization of Earth's natural resources and protect the environment
- How PNT guarantee the safety, security and quality of life of future generations and respond effectively to disasters and crises?

 How PNT enables an improved understanding of Food security assessment; support to sustainable agricultural practices.

 How policy makers, researchers, commercial, private users, as well as the scientific community and civilians can benefit from the information provided by the different PNT applications.

 How PNT is used to monitor the marine environment and shipping routes to enhance knowledge, control of maritime traffic for safety and thus support the sustainable development of the marine economy.

 How PNT is Important to the Future Commercial Space era and the autonomous Vehicles.

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 How PNT can Innovate Services and provide high resolution maps in support of urban planning to assure balanced development of Smart Cities and contribute to the protection of natural and cultural heritage? Humanity
Safety
Security
Economy



PTA & IDM

Thank you

Sty home my root my love & my sea