

Intelligent Fusion Technology, Inc.

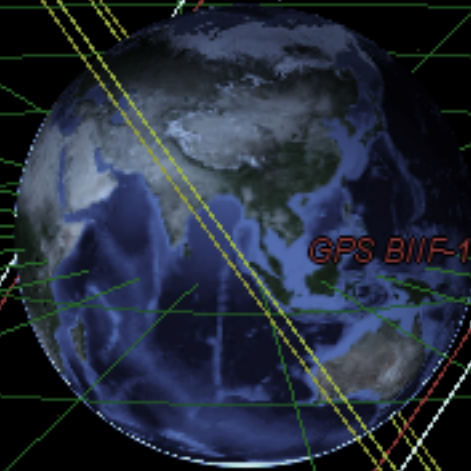
Engineering & Technology for America's Warfighters

GPS BIIF-7 (PRN 09)

GPS BIIF-4 (PRN 27)

GPS BIIF-10 (PRN 08)

GPS BIIF-8 (PRN 03)



MORE INFORMATION MORE ACCURACY

Areas of Expertise

- SATCOM & SATNAV
- Sensor data fusion & processing
- Target tracking & pattern analysis
- Unmanned & autonomous system
- ML/AI & data analytics
- Radar & mmWave
- Cybersecurity
- GUI and simulation platform



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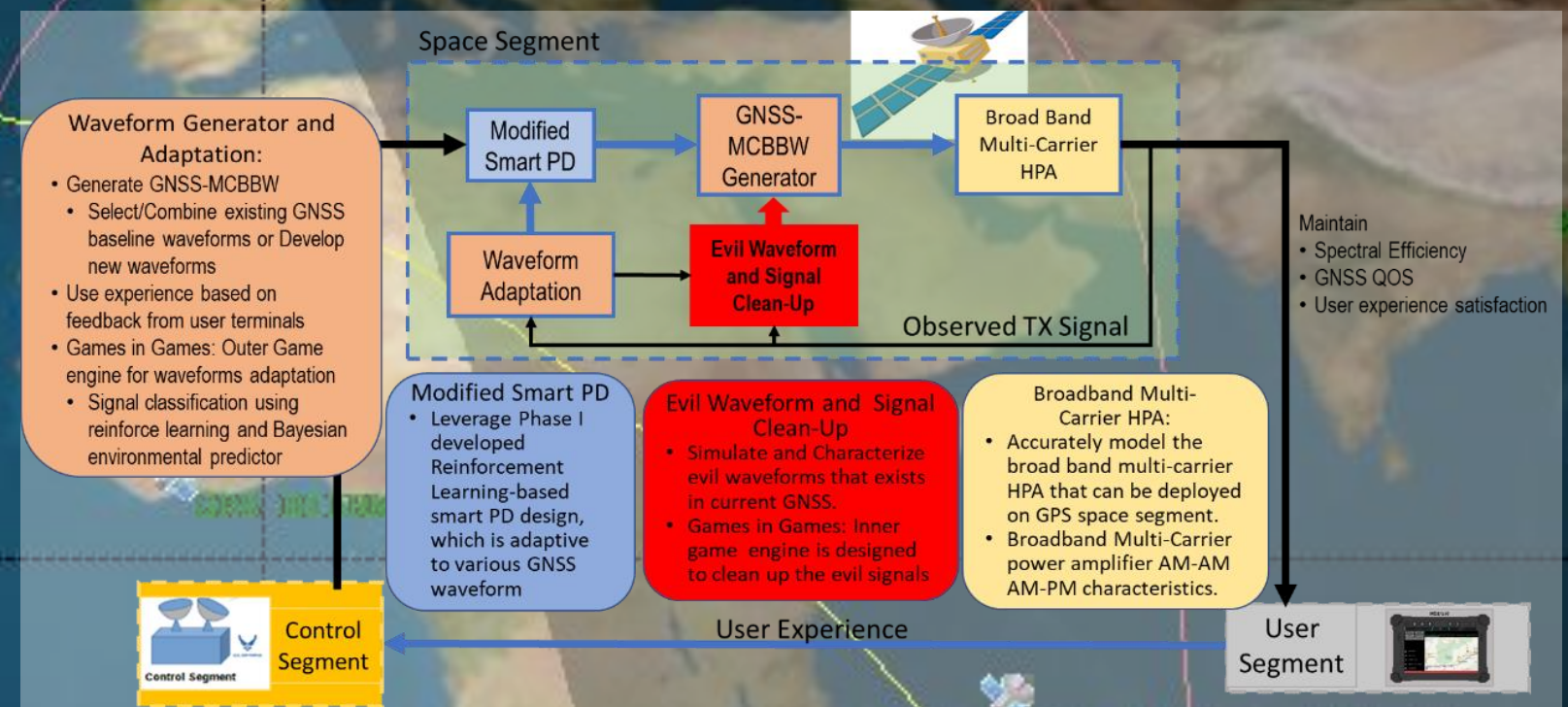
GNSS Multi-Carrier Broadband Constant Envelop Waveforms for Satellite-Navigation Applications (AFRL Phase II)

MAIN ACHIEVEMENT:

IFT's MCEW is designed to convert separate GNSS waveforms to a wideband multi-carrier CE modulation which can be demodulated using existing GNSS user equipment. MCEW has the benefits of enhancing the coherency of different GNSS bands and saving the number of High-Power Amplifiers (HPAs). A USRP testbed is developed to illustrate the MCEW.

Correlation loss (using existing receiver): 0.08dB
S-Curve Bias: 1.24 nanosecond

System of Systems (SOS) Framework



USRP Testbed

