



Locata®

Local APNT is Verified

Brief Locata Overview – APNT Applications
First Look: USAF White Sands Results

A New Concept for the Positioning Industry...

 Locata = your own GPS.

Locata has created a technology that replicates a GPS satellite constellation – locally, on the ground

So... in any area a user wants to cover Locata “looks” the same locally as GPS, Glonass, Galileo, etc.

In a suitable receiver, Locata may be used in a navigation solution as “just another constellation”

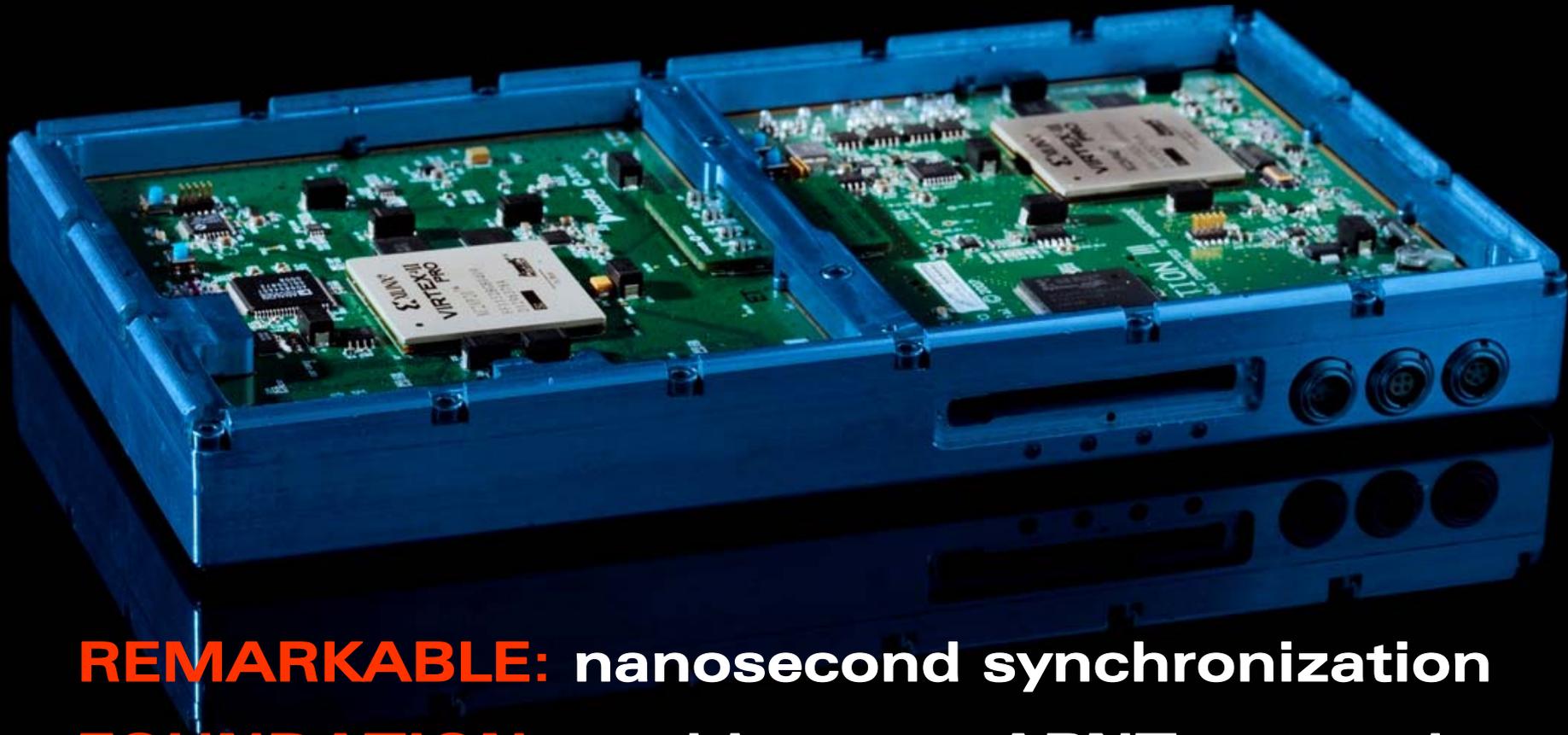
BUT... this “Local Constellation” is under local control.

Meet a LocataLite



Meet a LocataLite

UNIQUE: world-first device



REMARKABLE: nanosecond synchronization

FOUNDATION: enables new APNT networks



Locata Highlights...

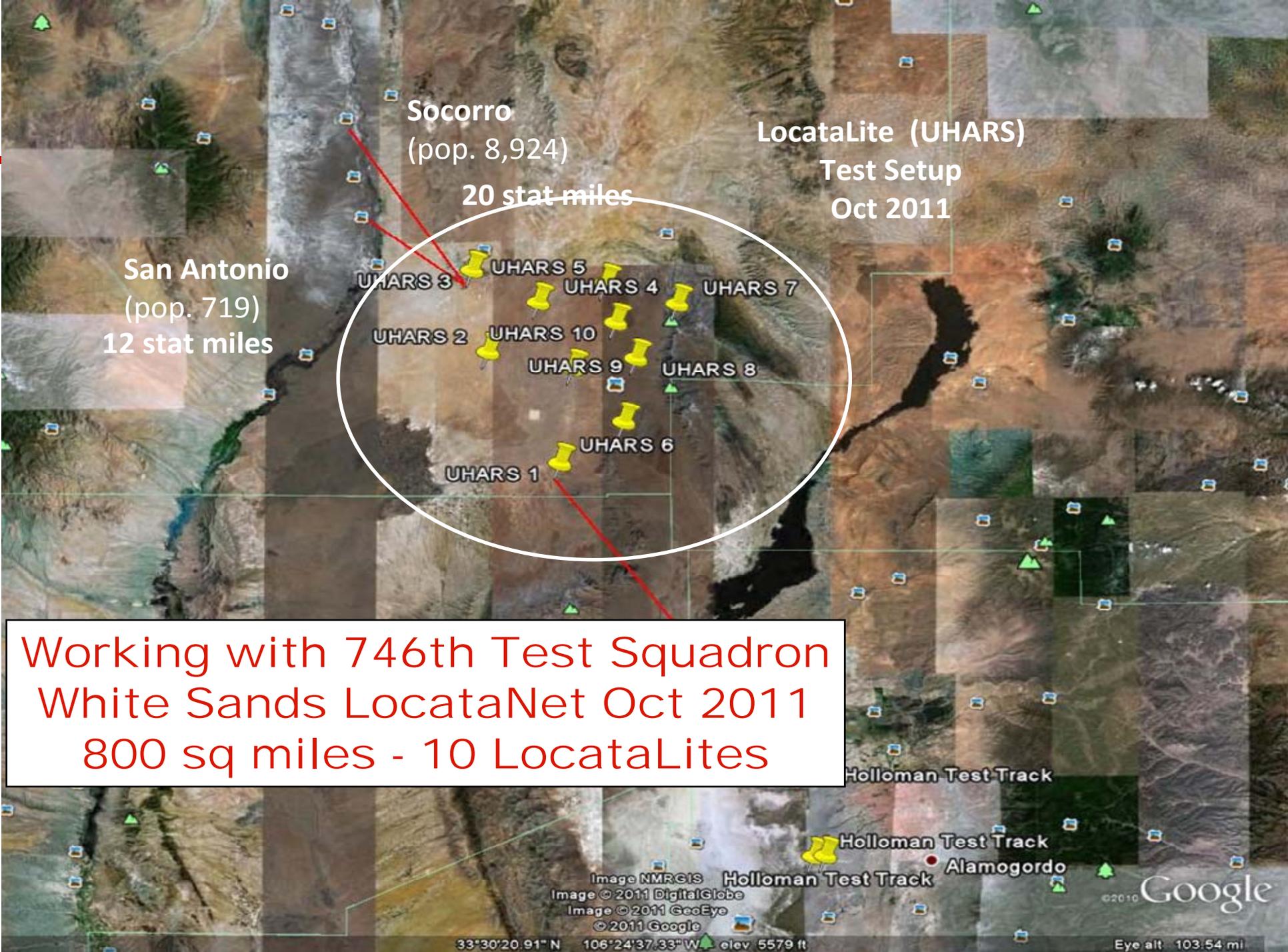
An important advance in the “art”

- 17 years in development – stealth mode
- Launched at ION Portland – Sept 2011
- Powerful partnerships already in place
- 88 granted patents; hundreds more coming
- Industrial systems being deployed – *now!*
- Locata ICD published: **integrators welcome**
- **MORE.... on our website**

USAF - Holloman AFB, New Mexico

Sole-source contract to cover > 2,500 sq. miles White Sands





Socorro
(pop. 8,924)

LocataLite (UHARS)
Test Setup
Oct 2011

20 stat miles

San Antonio
(pop. 719)
12 stat miles

UHARS 3 UHARS 5 UHARS 4 UHARS 7
UHARS 2 UHARS 10 UHARS 9 UHARS 8
UHARS 6
UHARS 1

Working with 746th Test Squadron
White Sands LocataNet Oct 2011
800 sq miles - 10 LocataLites

Holloman Test Track

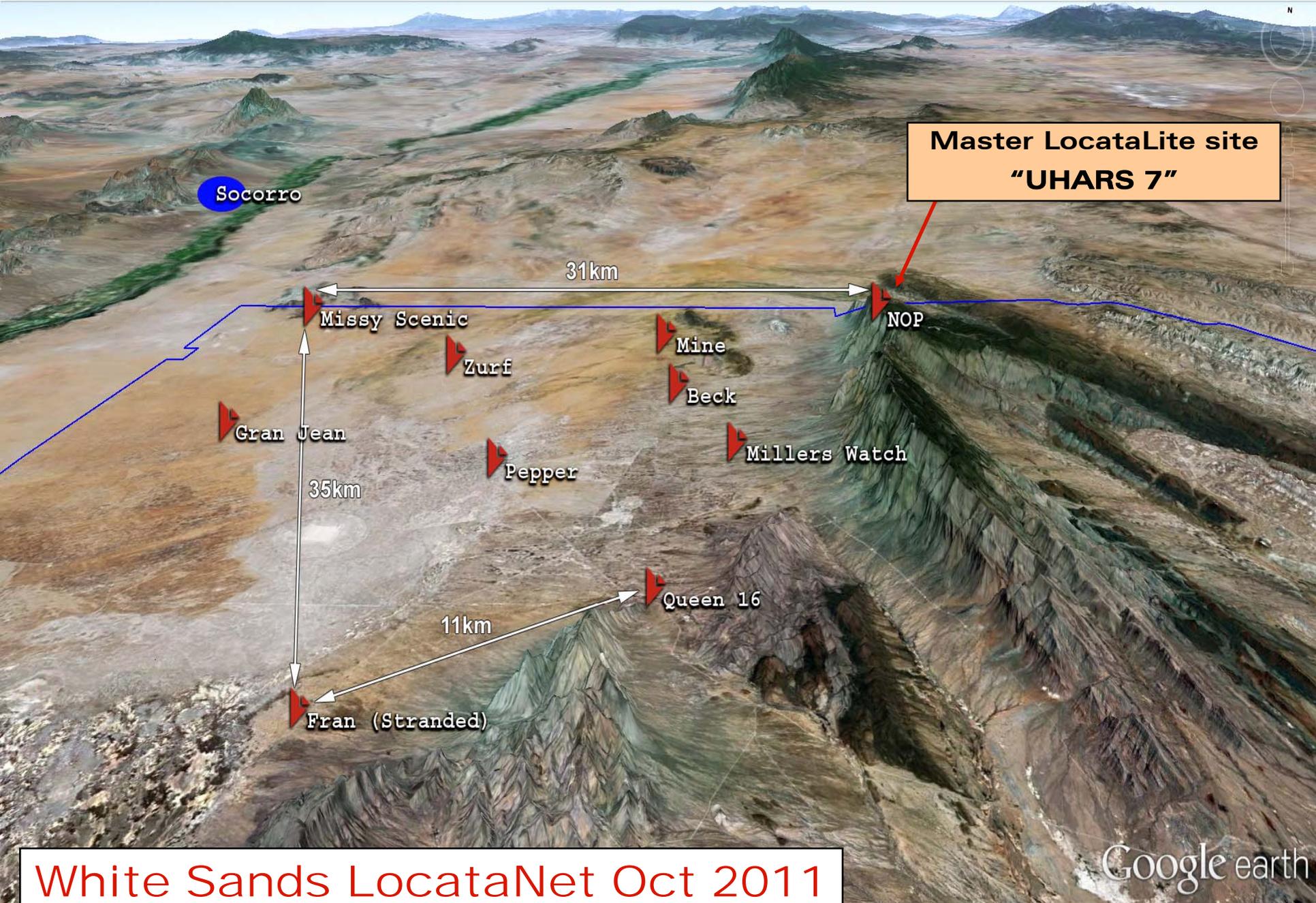
Holloman Test Track
Alamogordo

Image NMRGIS
Image © 2011 DigitalGlobe
Image © 2011 GeoEye
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33°30'20.91" N 106°24'37.33" W elev 5579 ft

Eye alt 103.54 mi



Master LocataLite site
"UHARS 7"

Socorro

31km

Missy Scenic

NOP

Zurf

Mine

Beck

Gran Jean

Millers Watch

35km

Pepper

11km

Queen 16

Fran (Stranded)

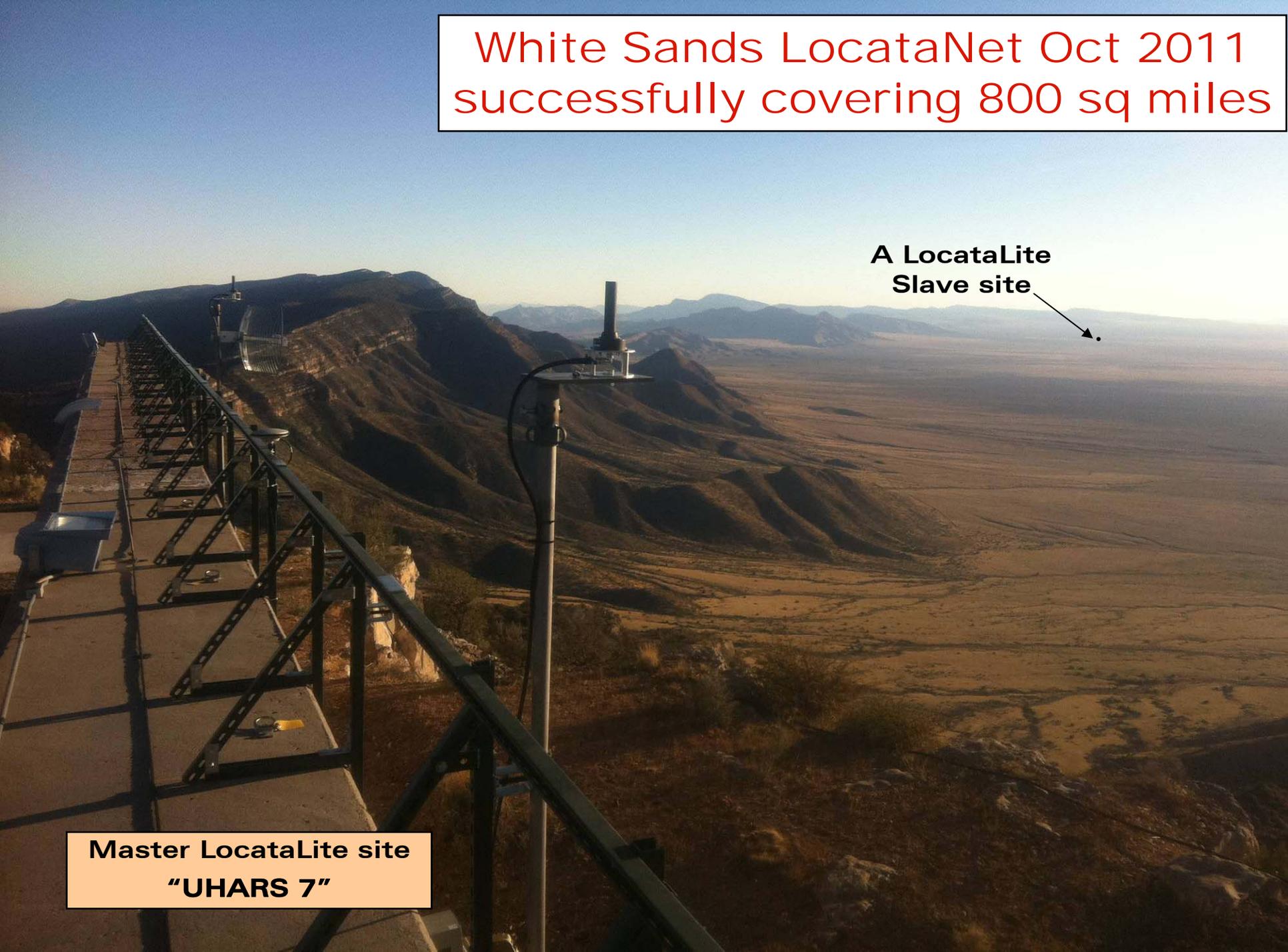
White Sands LocataNet Oct 2011
800 sq miles - 10 LocataLites

Google earth

White Sands LocataNet Oct 2011
successfully covering 800 sq miles

A LocataLite
Slave site

Master LocataLite site
"UHARS 7"



746TS Aircraft fitted with
Locata antenna and receiver



746TS Aircraft fitted with
Locata antenna and receiver



Locata Antenna



Results?

Locata NGBPS Technology Demo

White Sands Missile Range

USAF Example Results...

Flight - Sunday Oct 30, 2011

NOTE: Distribution Statement A

Approved for public release.

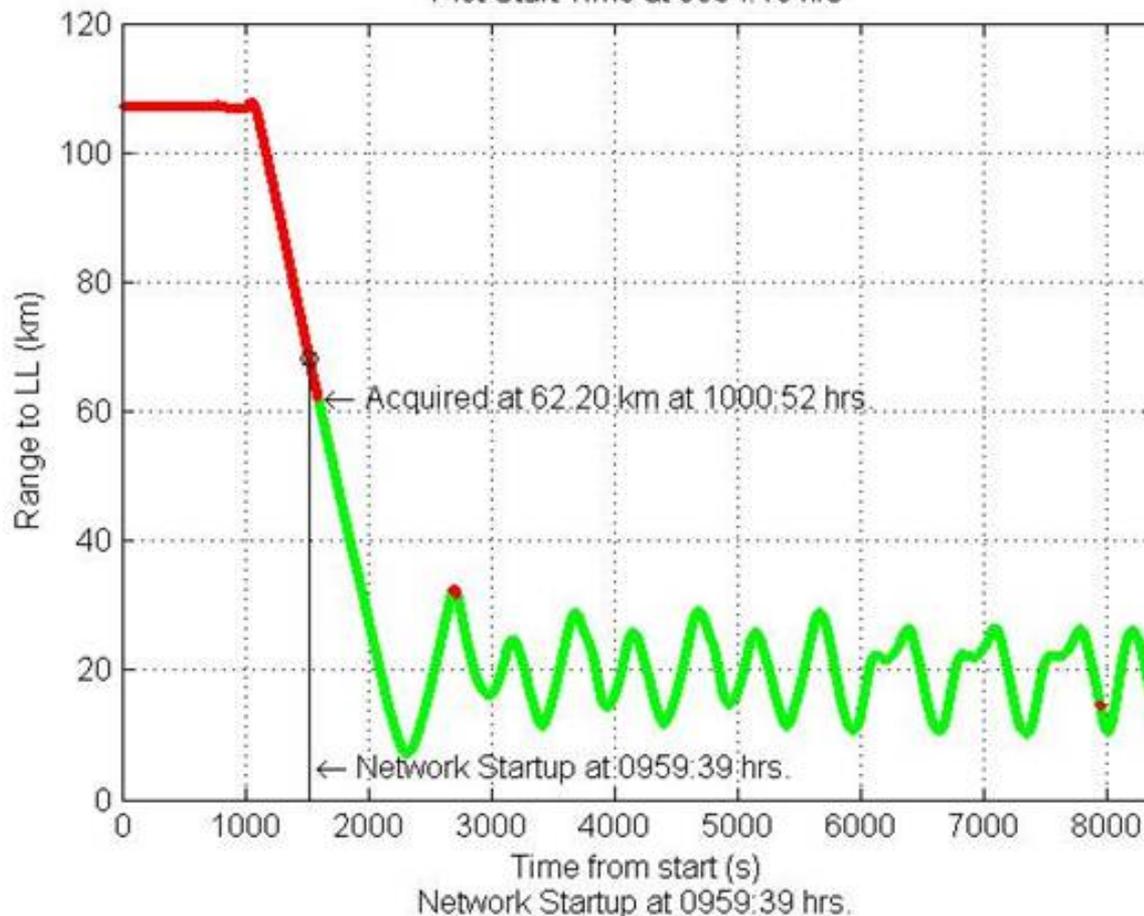
Distribution is unlimited.

PA number: 96ABW-2012-0116

Results: Acquire & Track

Locata NGBPS Technology Demo

Acquisition of First Signal (NOP) for Sunday, Oct. 30th
Plot Start Time at 0934:19 hrs

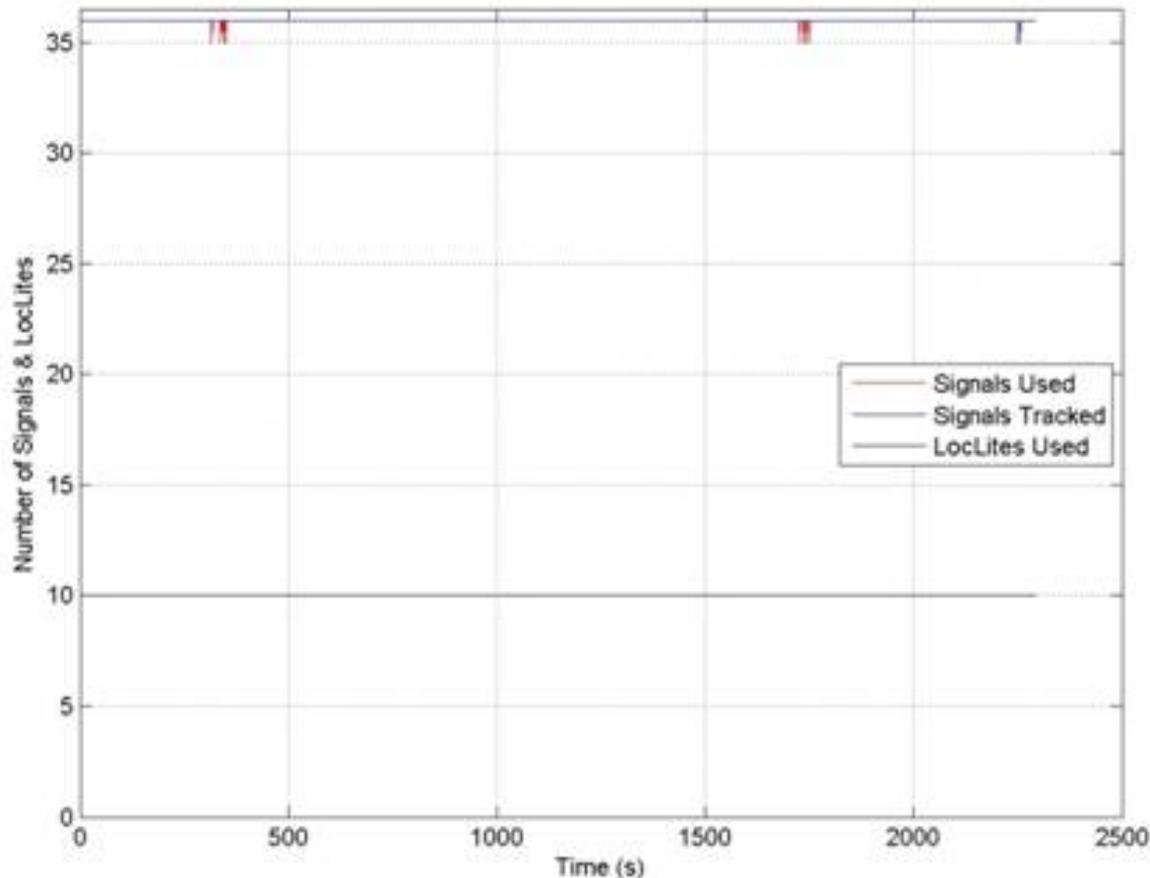


**Example Flight
Oct 30, 2011:**

**Locata Signal
Acquired &
Tracked at
~40 miles**

Results: Signals "In View"

Locata NGBPS Technology Demo



**Example Flight
Oct 30, 2011:**

**Locata Signals
Available to
Aircraft @
25,000 ft ASL
& @ 195 knts
*35 or 36***

Results: Position vs USAF Truth

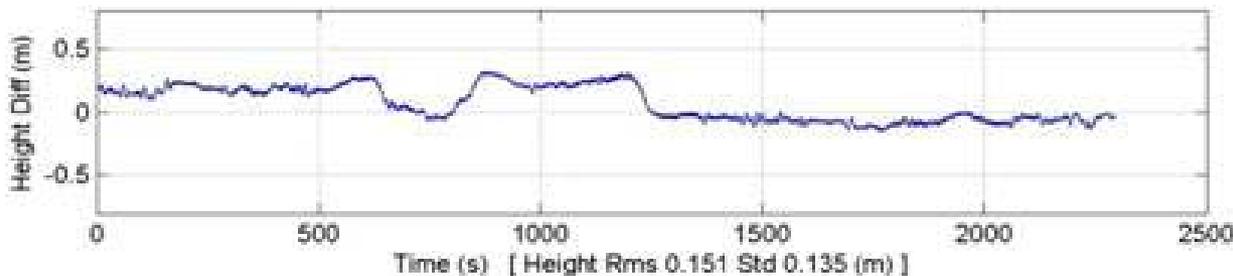
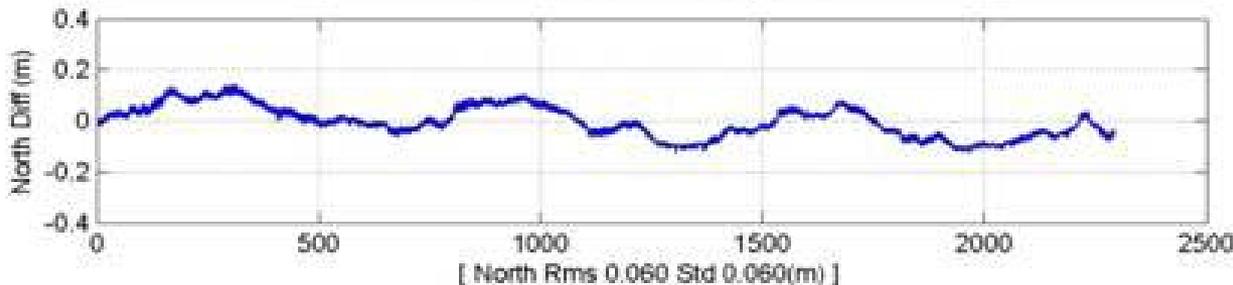
Locata NGBPS Technology Demo

**Example Flight
Oct 30, 2011:**

**Locata vs USAF
Generated Truth
≤30 mile range
Carrier Solution**

E: ~6cm (2.5")
N: ~6cm (2.5")
H: ~15cm (6")

Ref - Locata [3D Rms 0.174 Std 0.160 (m)]





Locata

A NEW TOOLBOX
for the industry....



**A technology advance that truly delivers
a LOCAL APNT**



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