

Alternative Position, Navigation & Timing (Alt-PNT) Technologies Demonstration Day

NEW LOCATA TECHNOLOGY: HIGH-LEVEL VIEW

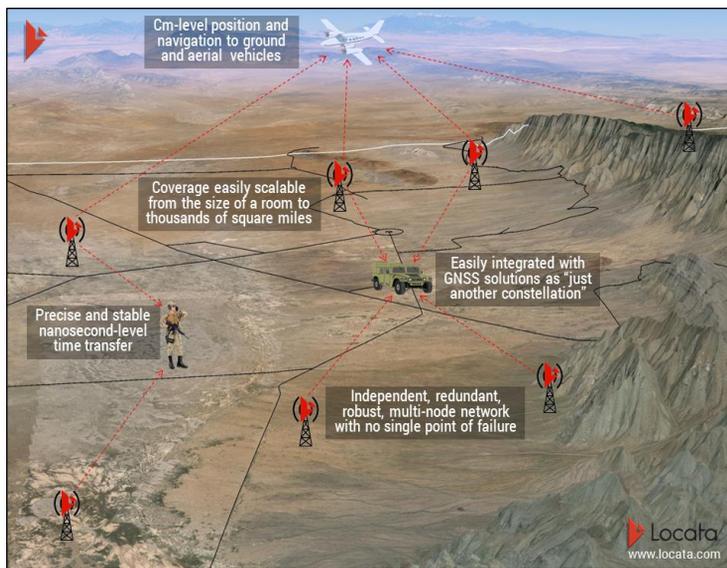
Locata has invented, developed and commercialized new technology which delivers accurate non-GNSS-based capabilities. Our inventions address all the GNSS-type functions required for resilient, high-accuracy Positioning, Navigation *and* Timing (PNT) services.

Locata is a terrestrially-based system that provides timing and ranging signals from which a user can position, navigate, synchronize assets – *or do all at once*. In practice, Locata creates scalable terrestrial networks (LocataNets) which can be independent “local ground-based replicas” of space-based, survey-grade GNSS position & timing services. Importantly, Locata operates at non-GPS frequencies and at much higher power levels than satellite signals. That means LocataNets can be *designed* to deliver unfailing reliability over defined areas by generating powerful, controlled, tailored signals at virtually any power, frequency, or density level an application needs. Locata provides a degree of flexibility which is impossible to achieve via legacy satellite-based GNSS, fibre-based timing, or any other technology we know of. **Most importantly: Locata’s superb performance enables improvements to PNT – delivering what’s needed for next-gen applications like autonomous vehicles, indoor positioning, synchronizing cell networks, and more.**

Locata’s business model is based on technology transfer to selected partners via product integration or IP license. Locata tech is being sold successfully into many government, industrial & commercial markets, via partnerships with globally-significant companies that have negotiated access to Locata technology. Note: today most Locata partnerships are under NDA restrictions, so very little “publicity” is available about our current large installed sites, around the world. However, today’s Tech Performance Report – presented by independent EC engineers – will mark Locata beginning to emerge from our “stealth mode”.

We believe the performance results reported independently here today by the EC engineers will categorically show that Locata delivers real, stand-alone, high-accuracy Alt-PNT that is a game-changer.

Locata’s innovations deliver the following capabilities, which our partners leverage into their products:



- **High-precision Carrier-Phase Positioning** ~ cm-level resolution
- **Time Synchronization:** sub-nanosecond precision & 1×10^{-15} frequency stability – over the air, over fibre, over coax
- **Lower-precision “Coarse” Positioning:** ~ decimetre-level resolution
- **PNT outdoors (local & wide area) or indoors:** - or transition from one environment to the other
- **New Multipath Mitigation Antenna Technology:** enabler for indoor, urban, industrial & consumer uses
- **Much more to come....**

Enquires: ceo@locata.com