



Engineering Applications of Integrated Wireless Band Pseudolite and GNSS System

Lukasz K Bonenberg, Gethin W Roberts, Craig M Hancock



XXIV FIG International Congress

Reasons for the integration GNSS accuracy based on the visibility and the geometric distribution of the satellites – depends on time and locations. The base of the integration GNSS accuracy based on the visibility and the geometric distribution of the satellites – depends on time and locations. The base of the integration GNSS accuracy based on the visibility and the geometric distribution of the satellites – depends on time and locations. The base of the integration of the satellites – depends on time and locations.

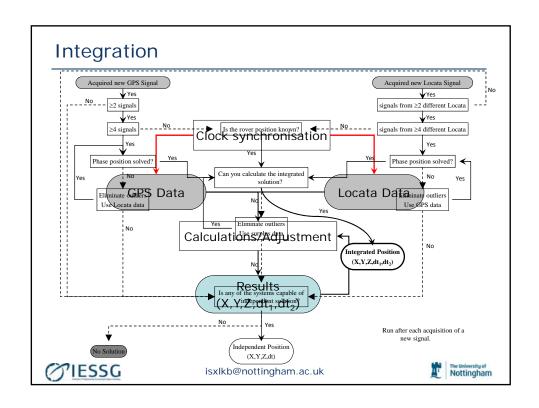
LocataLite

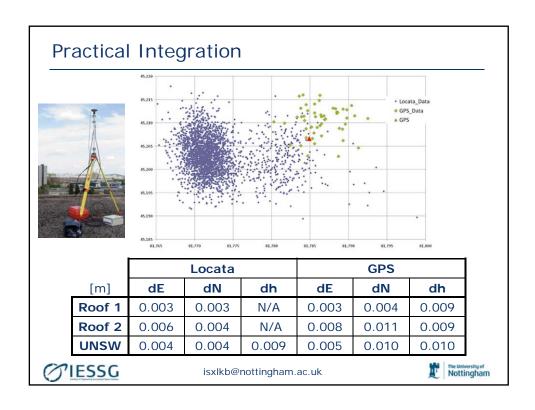
- · Terrestrial positioning system.
- Transmitts of the 2.4 GHz license free ISM Band.
- TimeLoc procedure synchronise LocataNet up to nanosecond level (10-9 s).
- Utilisation of multiple digital signals and TDMA to combat near-far effect, multipath and noise.





isxlkb@nottingham.ac.uk





Summary

GNSS position is heavily dependent on the number and geometric distribution of the available satellites. One possible solution is the deployment of a supporting system.

Locata/GNSS integration will enhance system geometry, especially vertical component.

Final system is expected to provide seamless position on a centimetre level.

Final system is expected to provide QA for both systems.



isxlkb@nottingham.ac.uk



