What do Surveyors and Other Spatial Professionals need from an Interoperable GNSS System of Systems?

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International Committee on Global Navigation Satellite Systems

What do Surveyors need?

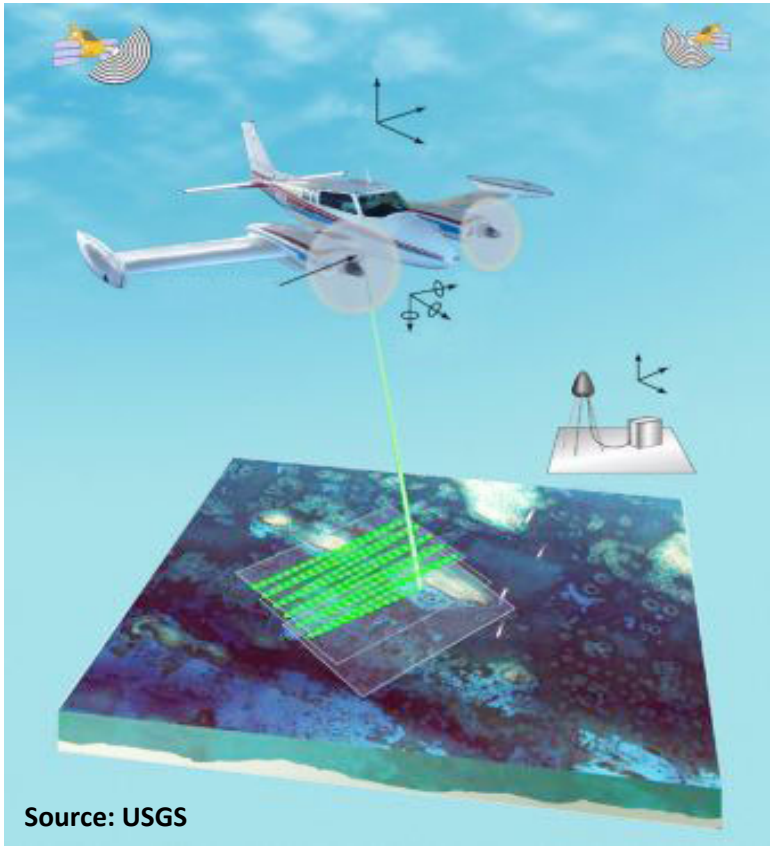
- Increasing accuracy with increasing reliability and increasing availability and with decreasing cost of equipment and infrastructure.

Thanks for your attention.

Presentation Outline

- Part 1:
  - Some Trends in Precise Positioning;
- Part 2:
  - How those trends drive what we need from an interoperable System of Systems;

From individual points to point clouds



Use of Airborne and Terrestrial Laser Scanners is exploding

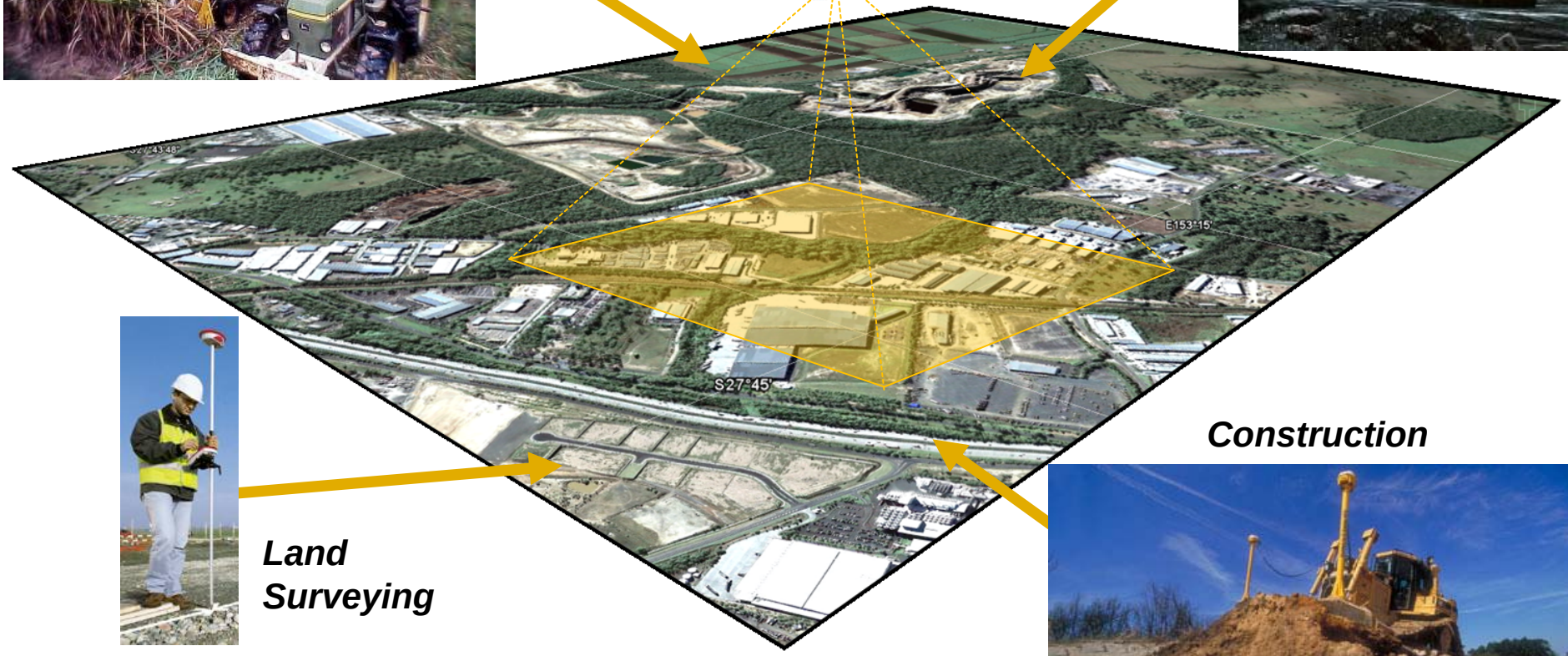
Individual point clouds need to join and/or overlay

From Static to Dynamic

Agriculture

Aerial Surveying

Mining



Land Surveying

Construction

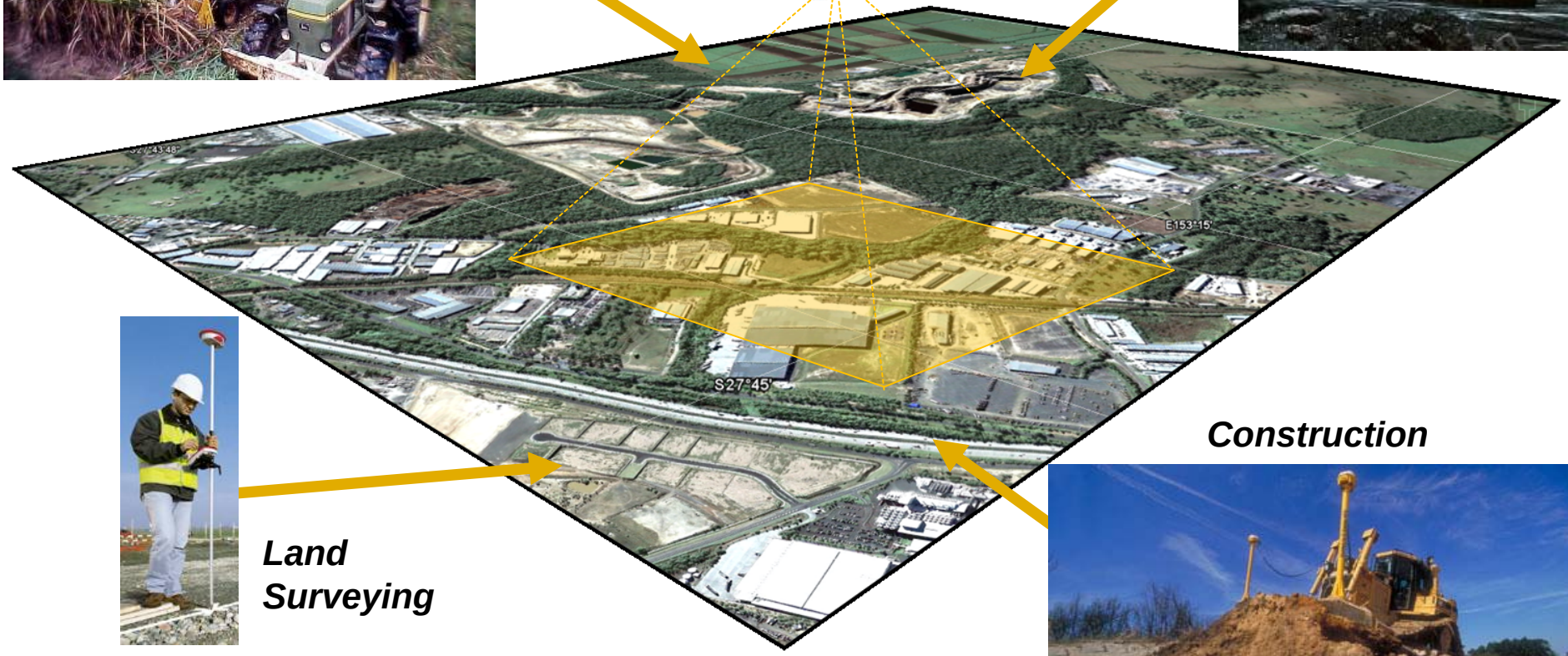
How to check a moving platform?

From Post Processed to Real Time

Agriculture

Aerial Surveying

Mining

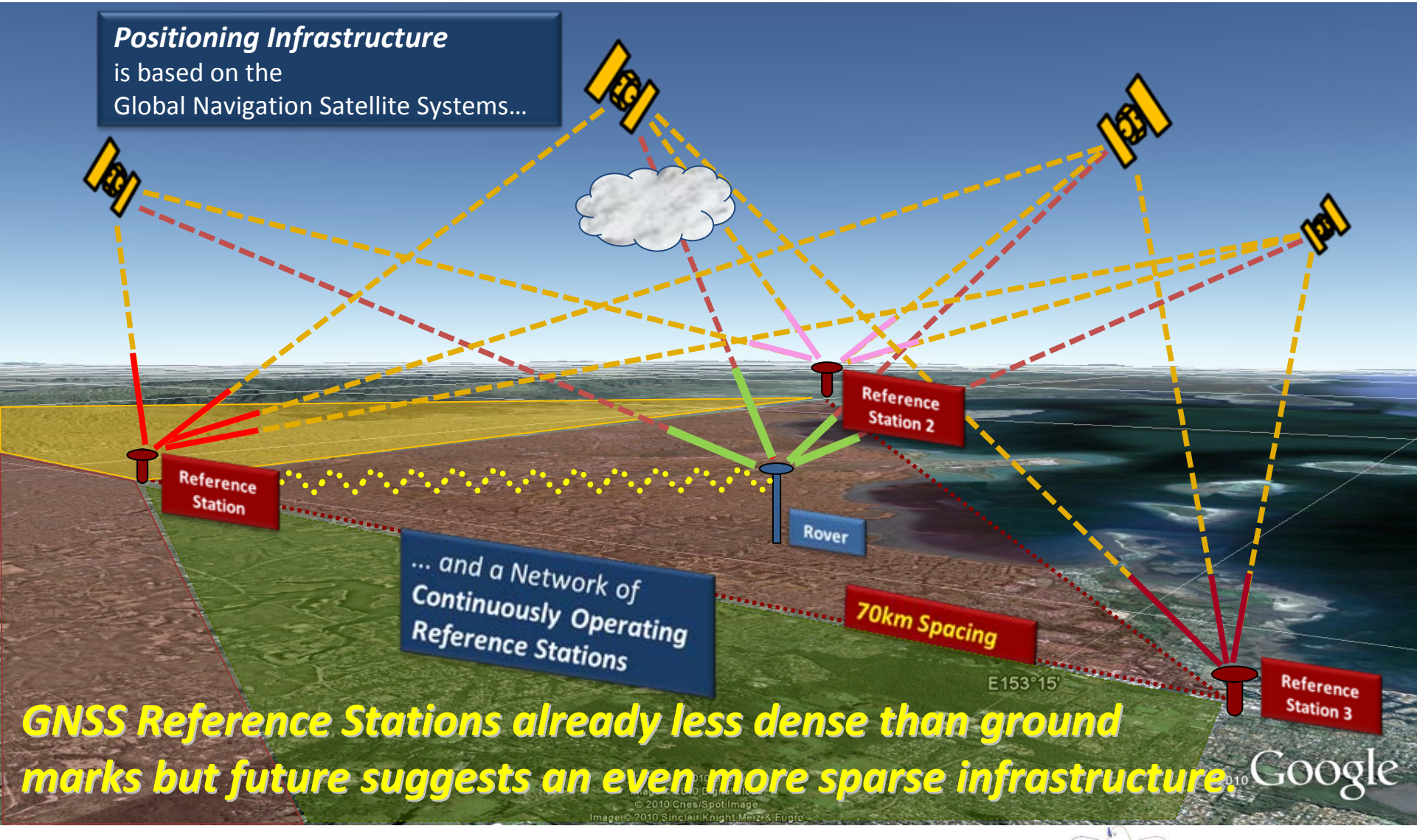


Land Surveying

Construction

A problem and an opportunity?

From Dense to Sparse Infrastructure



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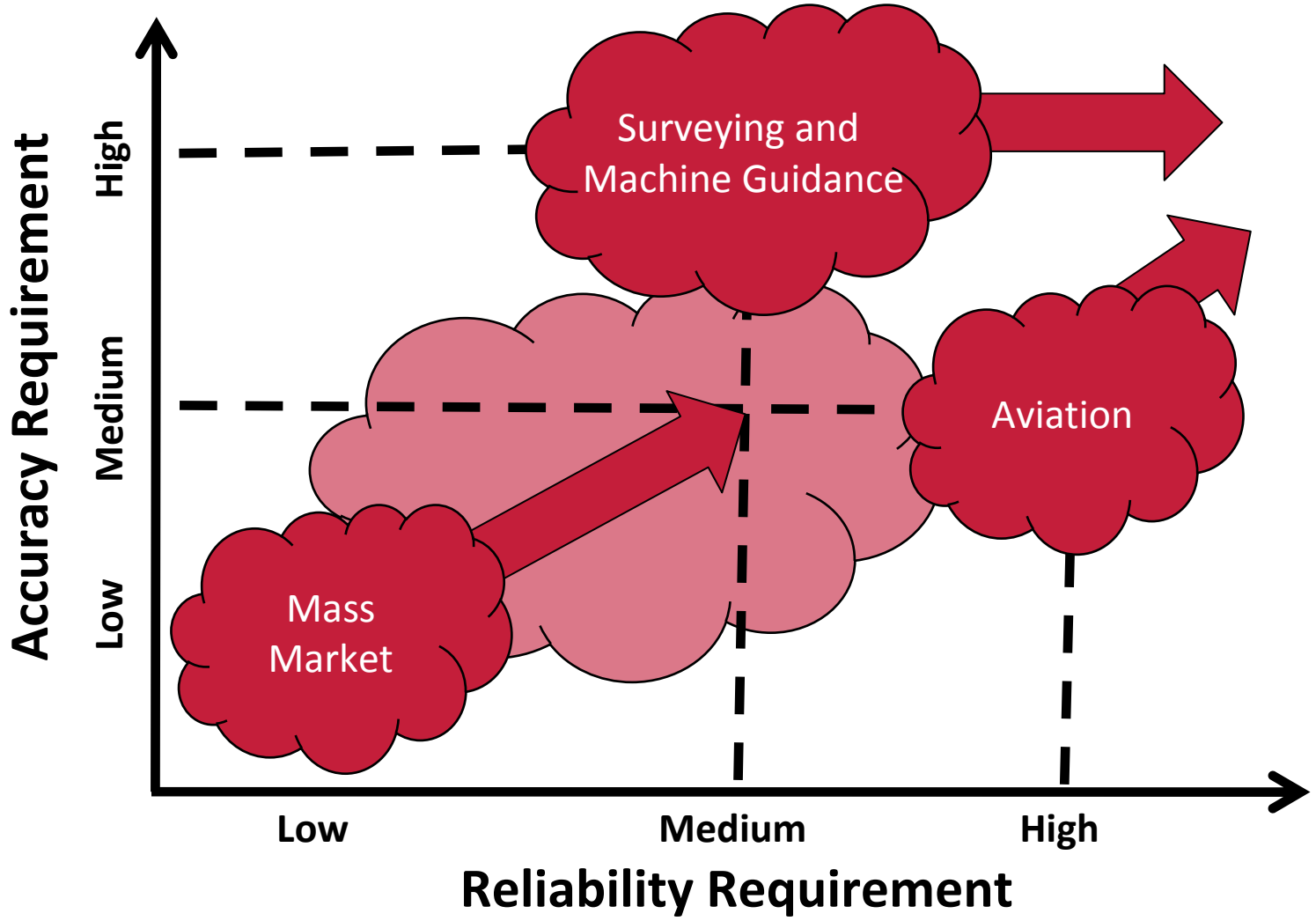
From Relative to Absolute

In fact we need both relative and absolute to work together!

From Useful to Necessary



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So What Do we Need?