









Positioning as a Service for Fit-For-Purpose Applications

Stephanie Michaud Trimble Inc.









Good Morning!

Stephanie Michaud, P.Eng

- Portfolio Manager- Geospatial Solutions For Land Administration
- Based in Colorado, USA
- with Trimble since 2011
- Originally from Canada
- +1 (303) 466-3647

stephanie_michaud@trimble.com







An estimated 70 percent of the land in the developing world is undocumented

- An estimated 25% of the world's urban population live in homes to which they have no legal rights
- The majority of farmers around the world do not have legal rights to their land
- Unrecognized rights to land deny stability and opportunity for socio-economic prosperity







ORGANISED BY



The current cadastral workflow, from prep through deliverable production, is fraught with inefficiencies.

Prep



Field







Deliverables

Getting data/equipment to the right people at the right time

Time consuming process to update changes in the field

Multiple iterations required between field and office

Manual deliverable production and processing





ORGANISED BY





Land projects typically involve <u>system</u>, <u>process</u>, and <u>people</u> changes that span large geographies

- Digitization of paper systems
- Multi-Purpose, or Fit-for-Purpose
 Cadastre
- Census, demographic and statistics review
- As-Built validations
- Property valuation
- Community Involvement













To address these challenges, it is paramount that we provide fit-for-purpose solutions and technology





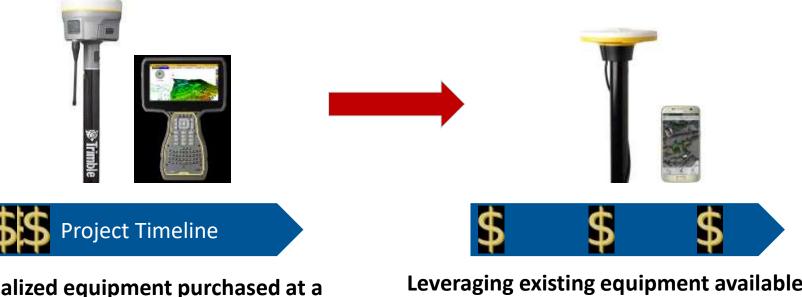








Introducing the concept of Positioning as a Service: where your accuracy is flexible and 'on demand'



Specialized equipment purchased at a one time fixed cost, and fixed accuracy Leveraging existing equipment available, and purchasing subscriptions over time as your project demands



rimble







Positioning as a Service now introduces an unparalleled level of flexibility for data collection

- Decouples traditional hardware and software components
- Takes advantage of smartphone computing power
- Drastically reduces the cost of physical hardware
- Monthly configurability
- Pairs with custom apps on your smartphone













Trimble Catalyst combines hardware, and subscription services to deliver a flexible solution for data collection

- Hardware
 - Trimble Catalyst Antenna
 - Android Smartphone Device
- Monthly Subscriptions
 - Trimble Catalyst accuracy level
 - meter, sub-meter, decimeter, or centimeter
 - Catalyst enabled software
 - Penmap, Terraflex, ESRI Collector, SDK
- Benefits: low cost, flexible, scalable





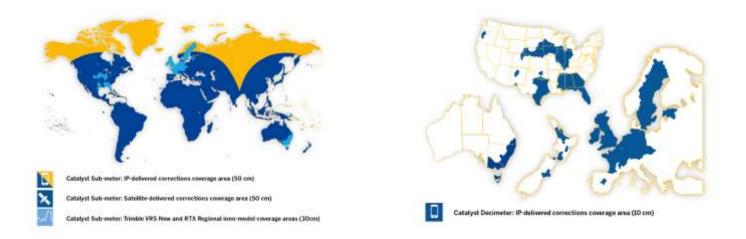






Depending on your application and project stage, you can adjust your subscription accuracy range, cost and users

	۲	٠	•
1 Meter	Sub-meter	Decimeter	Precision



ORGANISED BY







The Catalyst solution was piloted by Cadasta in the DRC for mapping parcel boundaries



6 Crews



Trimble Catalyst, Open Data toolkit and BYOD Smartphones



Capturing valuable data for use in the Cadasta management platform



Both sub-meter and decimeter accuracy levels used over 3 months











Of course fit-for-purpose solutions are based on your project needs, so there are many other configurations available!









FIG WORKING WEEK 2019 22–26 April, Hanoi, Vietnam

"Geospatial Information for a Smarter Life and Environmental Resilience"

Thank you! Questions?

Stephanie Michaud Trimble Inc. stephanie_michaud@trimble.com



Trimble Fit-for-Purpose Solutions

esri

PLATINUM SPONSORS



Trimble

ORGANISED BY

