

FIG WORKING WEEK 2019

22-26 April, Hanoi, Vietnam

Presented by the FIG Working Week 2019,
April 22-26, 2019 in Hanoi, Vietnam

"Geospatial Information for a Smarter Life
and Environmental Resilience"



ORGANISED BY



PLATINUM SPONSORS





FIG WORKING WEEK 2019

22-26 April, Hanoi, Vietnam

"Geospatial Information for a Smarter Life and Environmental Resilience"



Positioning as a Service for Fit-For-Purpose Applications

Stephanie Michaud
Trimble Inc.

ORGANISED BY



PLATINUM SPONSORS





FIG WORKING WEEK 2019

22-26 April, Hanoi, Vietnam

"Geospatial Information for a Smarter Life and Environmental Resilience"



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

ORGANISED BY



PLATINUM SPONSORS





FIG WORKING WEEK 2019

22–26 April, Hanoi, Vietnam

"Geospatial Information for a Smarter Life and Environmental Resilience"



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



PLATINUM SPONSORS





FIG WORKING WEEK 2019

22–26 April, Hanoi, Vietnam

"Geospatial Information for a Smarter Life and Environmental Resilience"



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

Prep



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

Field



Time consuming process to update changes in the field

Quality Control



Multiple iterations required between field and office

Deliverables



Manual deliverable production and processing

ORGANISED BY



PLATINUM SPONSORS





FIG WORKING WEEK 2019

22–26 April, Hanoi, Vietnam

"Geospatial Information for a Smarter Life and Environmental Resilience"



Land projects typically involve system, process, and people 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



ORGANISED BY



PLATINUM SPONSORS





FIG WORKING WEEK 2019

22-26 April, Hanoi, Vietnam

"Geospatial Information for a Smarter Life and Environmental Resilience"



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

Modern Data Collection Platforms



- Easy to Use
- Low Cost
- Supports BYOD
- Rugged and reliable

Flexible Pricing Options



- Multiple price entry points
- Multiple accuracy levels

Scalable by Demand



- Start small, and scale
- Adjust accuracy requirements on the go
- Onboard larger workforce

ORGANISED BY



PLATINUM SPONSORS





FIG WORKING WEEK 2019

22-26 April, Hanoi, Vietnam

"Geospatial Information for a Smarter Life and Environmental Resilience"



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

ORGANISED BY



PLATINUM SPONSORS





FIG WORKING WEEK 2019

22–26 April, Hanoi, Vietnam

"Geospatial Information for a Smarter Life and Environmental Resilience"



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



ORGANISED BY



PLATINUM SPONSORS





FIG WORKING WEEK 2019

22–26 April, Hanoi, Vietnam

"Geospatial Information for a Smarter Life and Environmental Resilience"



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



ORGANISED BY



PLATINUM SPONSORS





FIG WORKING WEEK 2019

22-26 April, Hanoi, Vietnam

"Geospatial Information for a Smarter Life and Environmental Resilience"



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



- Catalyst Sub-meter: IP-delivered corrections coverage area (50 cm)
- Catalyst Sub-meter: Satellite-delivered corrections coverage area (50 cm)
- Catalyst Sub-meter: Trimble VRS Now and RTX Regional iono-model coverage areas (30cm)



- Catalyst Decimeter: IP-delivered corrections coverage area (10 cm)

ORGANISED BY



PLATINUM SPONSORS





FIG WORKING WEEK 2019

22–26 April, Hanoi, Vietnam

"Geospatial Information for a Smarter Life and Environmental Resilience"



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



ORGANISED BY



PLATINUM SPONSORS





FIG WORKING WEEK 2019

22–26 April, Hanoi, Vietnam

"Geospatial Information for a Smarter Life and Environmental Resilience"



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



ORGANISED BY



PLATINUM SPONSORS





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**

 Trimble

ORGANISED BY



PLATINUM SPONSORS

