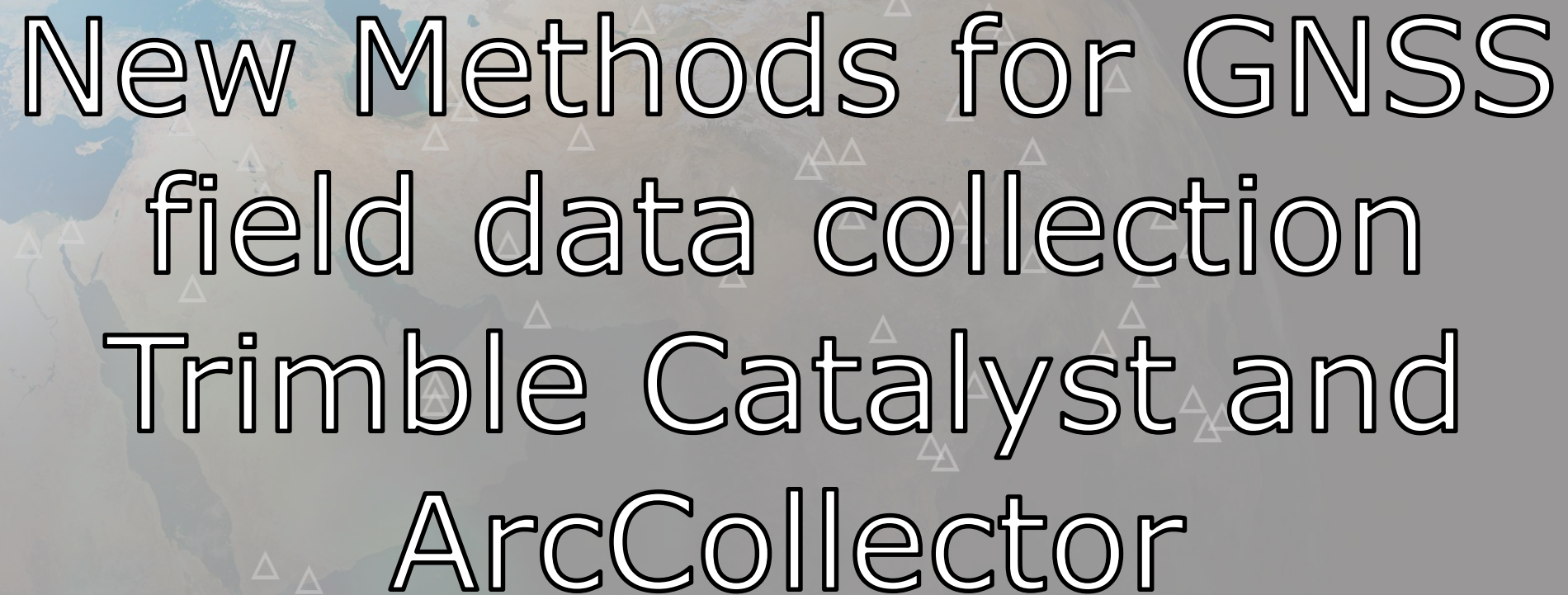


April 11, 2018



# New Methods for GNSS field data collection Trimble Catalyst and ArcCollector

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**One**Compass

Compass**Com**

Compass**Tools**

Compass**Data**

Compass**Drone**<sup>TM</sup>

Compass**QSI**





# 24 years of Esri Geospatial Excellence



## CompassTools

Trimble GPS Products  
GPS Equipment Service  
Equipment Rental  
Training , Support  
Esri Business Partner



## CompassData

GIS , Survey , Geodesy  
Geospatial Data Content  
Remote Sensing  
V&V Software Products  
UAS  
Mobile Mapping  
Digital Globe Reseller  
Esri Business Partner



## CompassCom

Mobile Resource  
Management  
GPS,GIS and Wireless  
Mobile software  
development  
Esri Business Partner  
Esri Developer



## CompassDrone

Airframes  
Software  
Training  
Services  
Global DJI Industrial  
Dealer  
Esri DJI2FMV

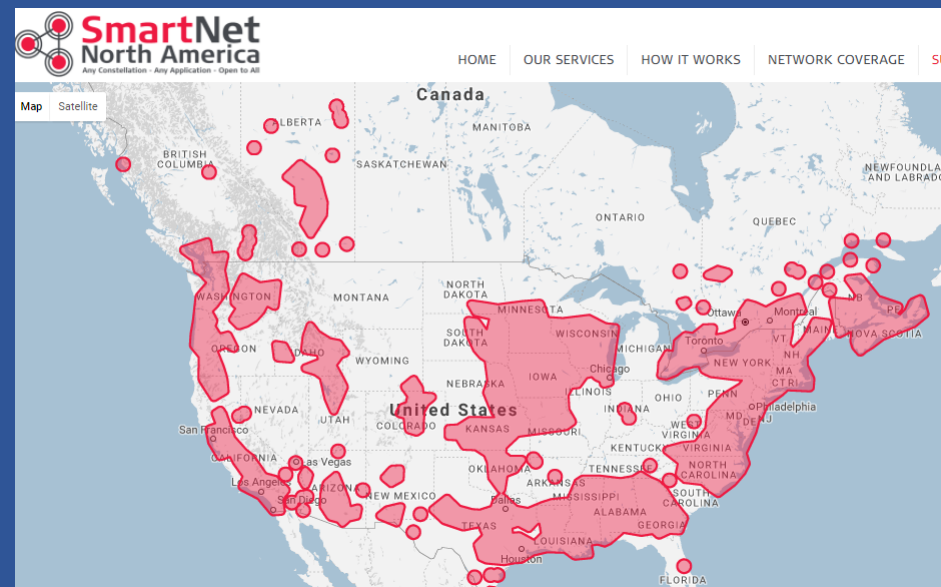
Synergies





OmniSTAR®

VRS Now



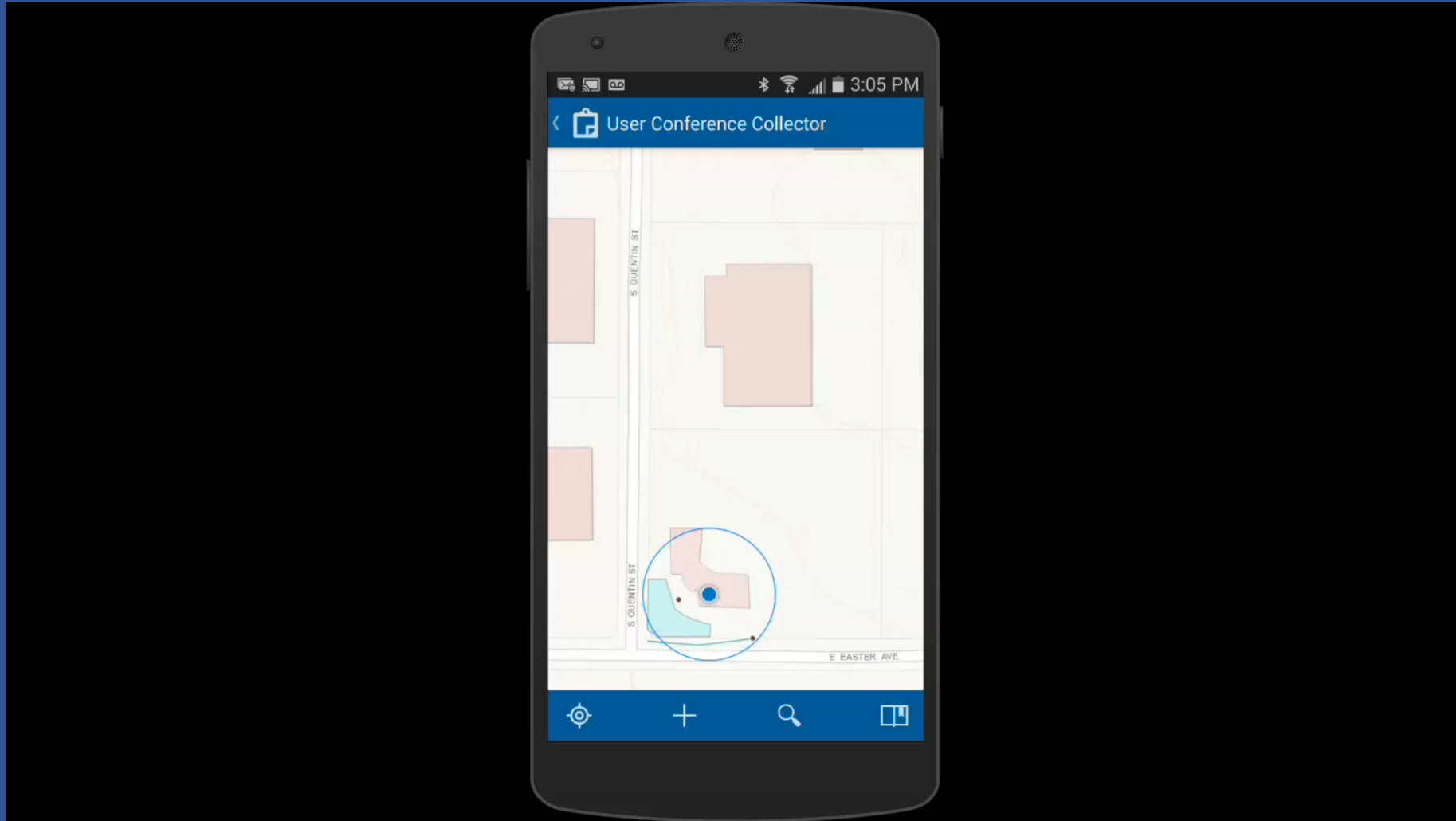
RTX Service	Horizontal Accuracy	Convergence Time
<u>ViewPoint RTX</u>	<u>Submeter</u>	< 5min
<u>RangePoint RTX</u>	20"/50cm	< 5min
<u>CenterPoint RTX</u>	1.5"/4cm	< 30 min

\$400

\$750

\$1,250

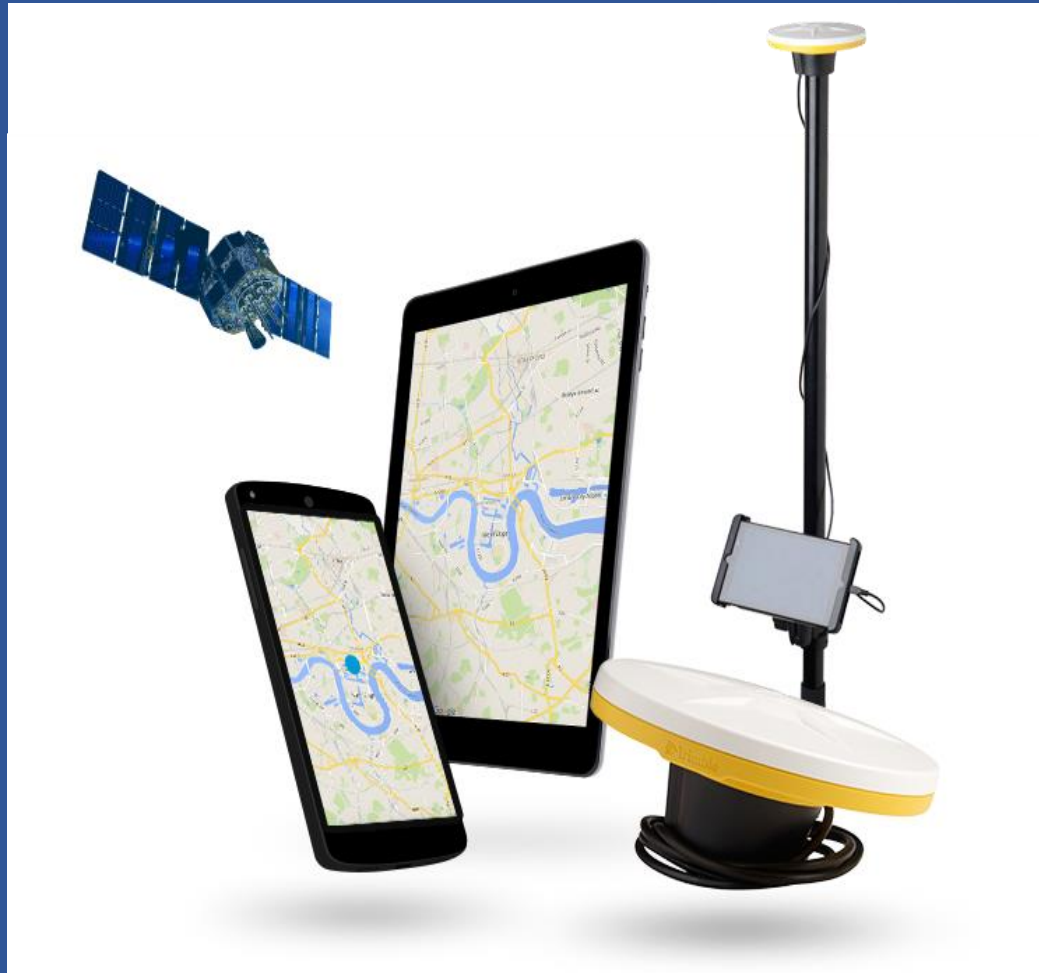
From \$45 per month





## Disruptive Technology

1<sup>st</sup> significant change to data collection





TerraFlex Mobile  
Trimble Inc.



Penmap for Android  
Trimble Inc.



UAV Ground Control  
Trimble Inc.



K-Mobile  
K-Mobile



Collector for ArcGIS  
ESRI



ArpentGIS Mobile  
D3E Electronique



Augview  
Augview



Fulcrum  
Fulcrum Mobile Solutions



NextGIS Mobile  
NextGIS



Mobile Data Collection  
GIS Cloud



MapIt GIS  
Andrzej Bleniek



TerraGo Edge  
TerraGo Technologies, Inc.



Cartegraph One  
Cartegraph



Geo Area  
CEGMA Team



GPS Field Area Measure  
Studio Noframe



Maps, Nav & Directions  
We love maps



GPS Navigation  
Sygic



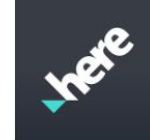
CoPilot GPS  
ALK Technologies



NAVIGON  
Garmin Wurzburg GmbH



Navmii GPS World  
Navmii



HERE WeGo  
HERE Apps LLC



Google Maps  
Google Inc.



DroneDeploy  
DroneDeploy



WineFlight  
UAV-IQ Precision Agriculture



Trimble Ag Mobile  
Trimble Inc.

Android only today, iOS summer 2018

\$350



**Trimble Catalyst DA1 Antenna**  
(with microUSB data cable and push-fit 3/8" thread adapter)



**Battery Pack**  
External rechargeable USB battery pack



**Pole Mount**  
Battery pack pole mount for 1.25" diameter poles







**Carry Pouch**  
Trimble branded canvas antenna carry pouch

Requires a pole or backpack or pistol grip  
Requires cables



# Subscription Accuracy Levels: Monthly

 <b>1 Meter</b>  <b>\$40/Month</b> Per User/Plus Tax  Meter accuracy in optimal conditions  <b>coverage area</b>	 <b>Submeter</b>  <b>\$120/Month</b> Per User/Plus Tax  30cm-75cm accuracy in optimal conditions  <b>coverage area</b>	 <b>Decimeter</b>  <b>\$200/Month</b> Per User/Plus Tax  Up to 10cm accuracy in optimal conditions  <b>coverage area</b>	 <b>Precision</b>  <b>\$350/Month</b> Per User/Plus Tax  1cm-2m accuracy in optimal conditions  <b>coverage area</b>
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Bucket or Invoice or Credit Card coming soon

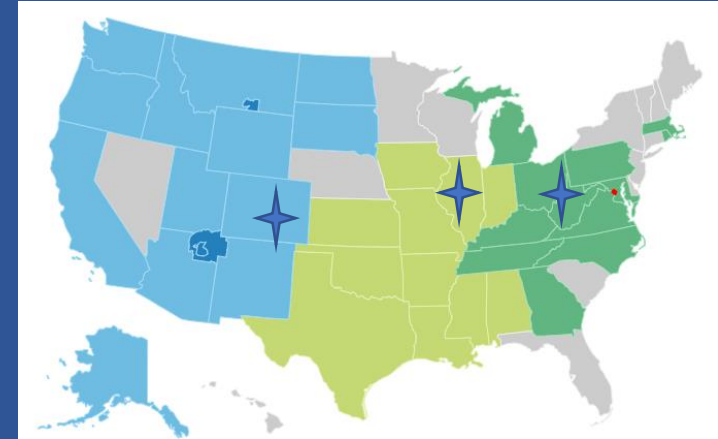
National Organization – Power Esri users

Challenges:

- Multiple locations
- Timeliness of data
- Continuity of data
- Data accuracy

Solution:

- Multiple locations: ArcGIS online / ArcCollector – one common server
- Timeliness of data: Near instant data transmission with connectivity or significantly reduced time when offline
- Continuity of data: Standardized schema, data sets, versioning, etc
- Data accuracy: Standardized minimum accuracy, option for higher accuracy\*\*

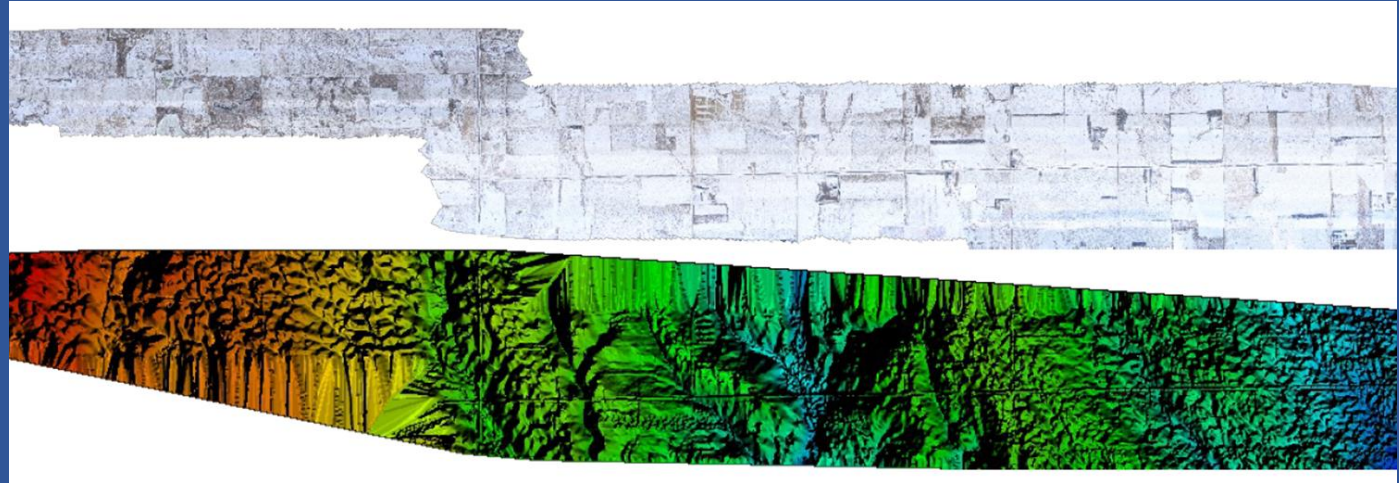


High accuracy GCP's for Aerial imagery

Challenges: Extremely high value project

Extreme RUSH project

Extreme weather conditions



Solution: Trimble Catalyst Precision solution was purchased three days before project

Collected 24 miles of GCP's in real-time in one-day (extreme weather conditions)

Exported GCP's directly into Esri Drone2Map



## Disruptive Technology

Traditional GNSS data collection

Anyone that collects data weekly, monthly or ...

Great for Capitol expenditure, amortize over 2-3-4 years

Catalyst GNSS data collection

Great for Project Job costing, short term or seasonal work

Ramp up quickly with low cost, scales easily

Great for non-GIS data collection, where we can finally have accuracy



USB Switcher app – big deal for Geo 6000/7X, Juno's