



How Accurate is My Field Data I collected?

IMAGIN Webinar Series

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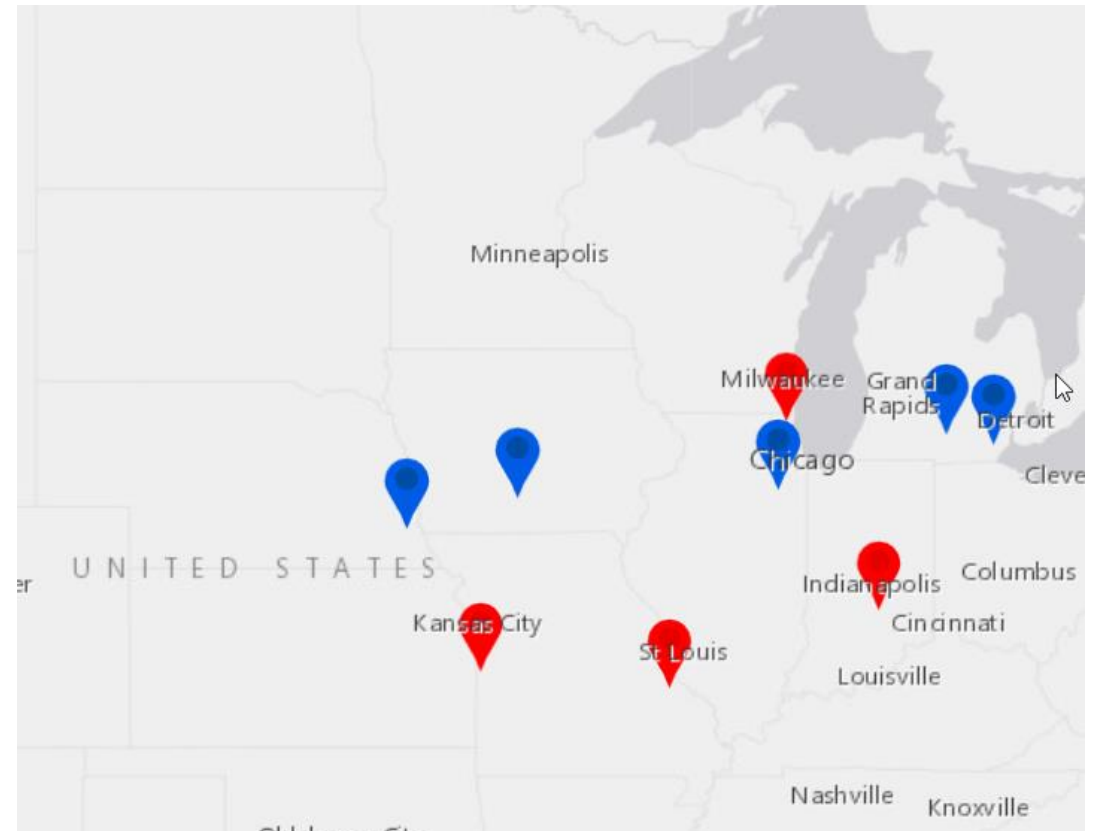
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Where are we located?

- Nebraska
- Kansas
- Missouri*
- Iowa
- Wisconsin
- Illinois
- Indiana
- Michigan

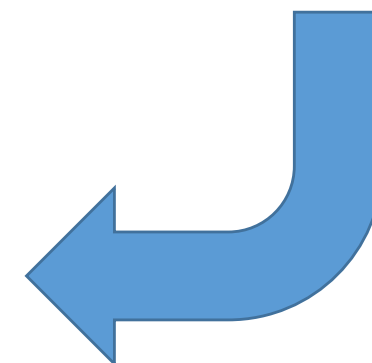


Today's agenda

Discuss the accuracy of data collected on a Smart Devices, the struggles it can create and how to remedy the challenges.

Workplace Trends - BYOD

- Company owned devices
- Employee owned devices
- Company owned devices, issued to individual employees

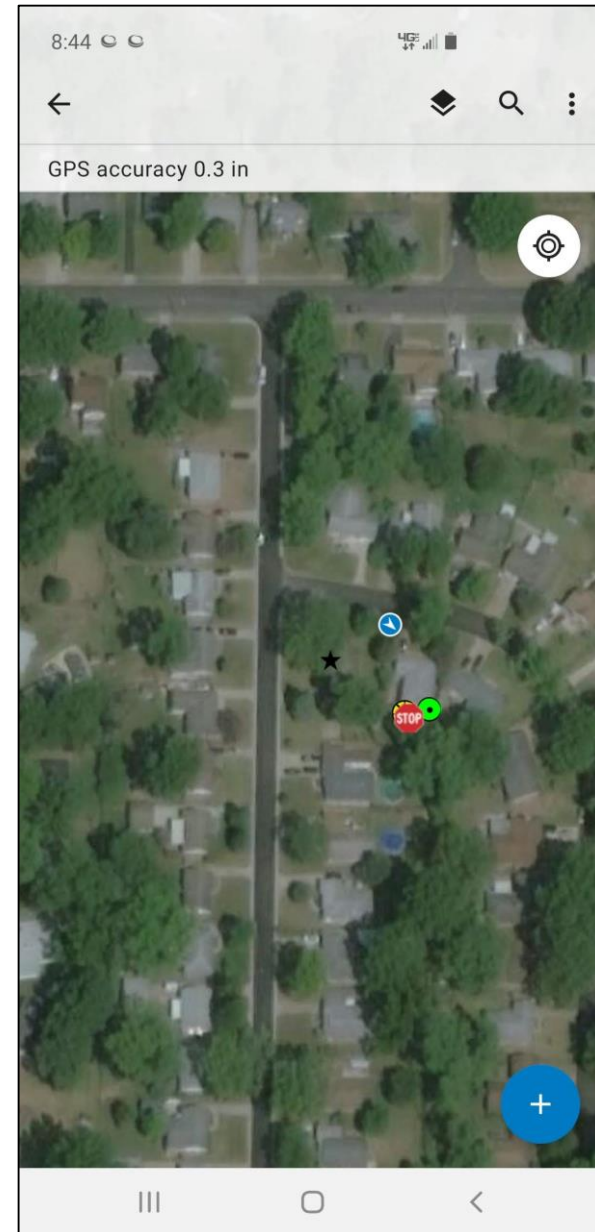


What is ESRI Field Maps?

- A smart device application used in the field to collect and update spatial data
- Puts mapping in the hands of field workers to improve the accuracy of your spatial data
- Use your smartphone or tablet to collect in real time or disconnected

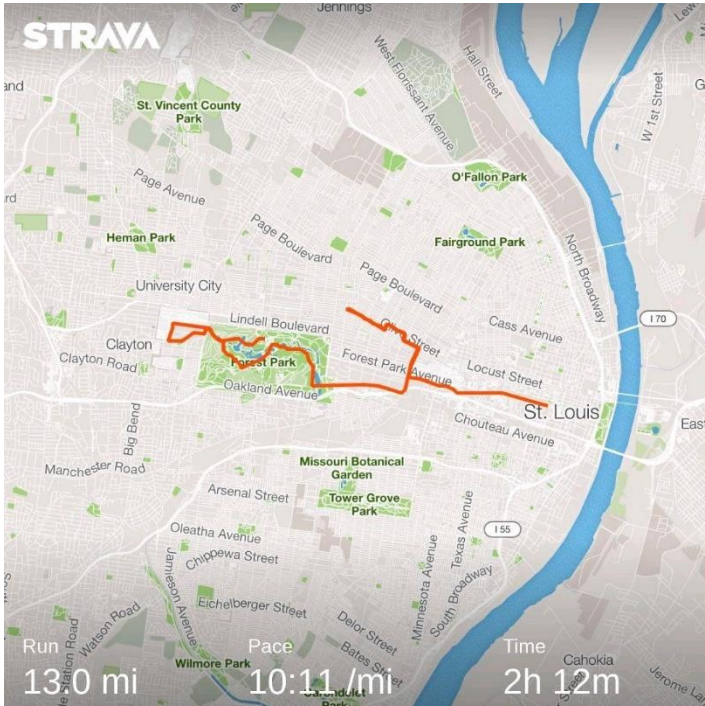
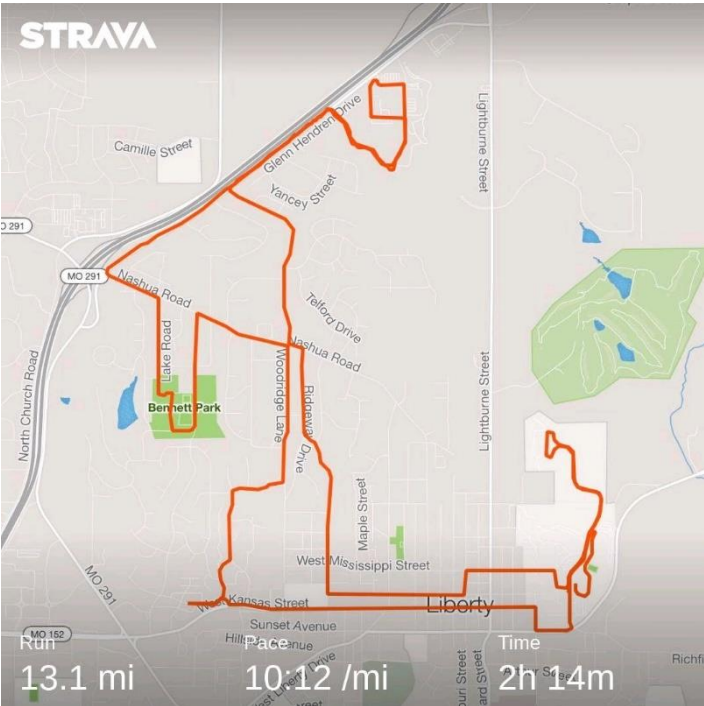
ESRI Field Maps

- All-in-one app for Field Work
- Common smart device zoom and pan methods
 - Swipe
 - Pinch to zoom and Expand
 - ESRI Background Maps
- System Requirement
 - Android 8.0 or Later
 - iOS 13.5 or Later
 - Apple Watch



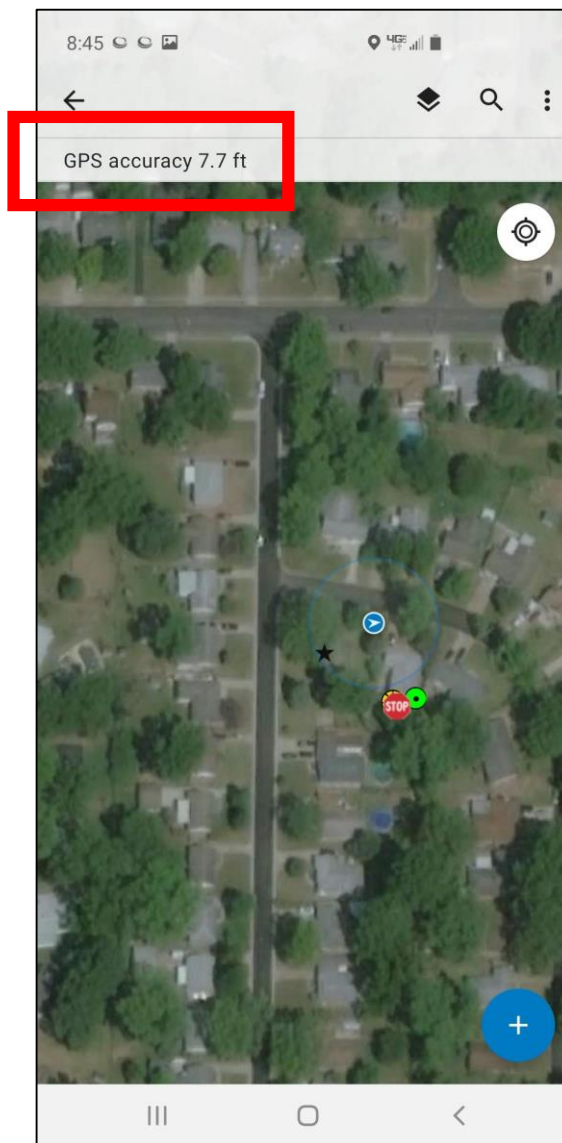
How accurate is my data I
collected?

There are limitations to using consumer GPS Devices

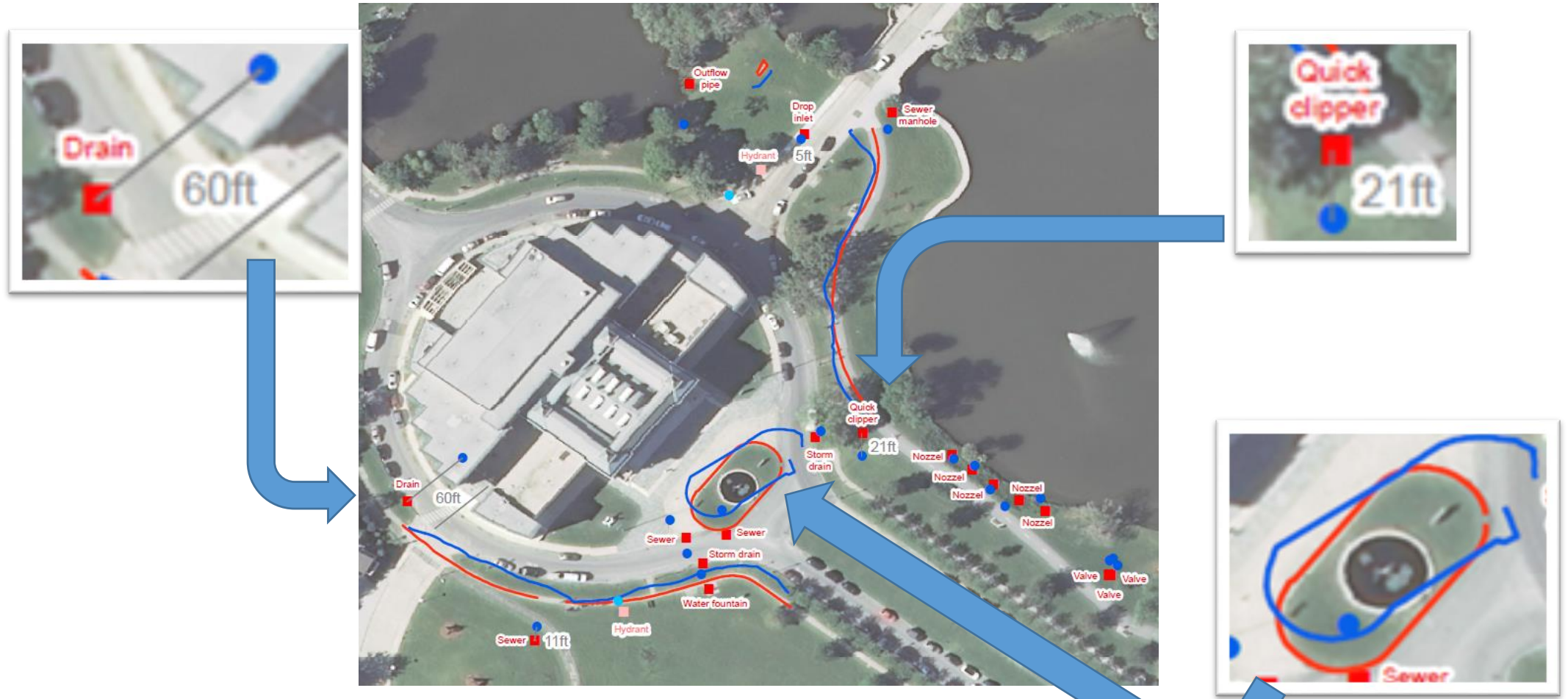


What are those Limitations?

- Availability (network)
- Accuracy level
 - Assisted GPS (A-GPS)
 - ~ 5-8 m
 - Wi-Fi Positioning
 - ~ 74 m
 - Cellular Network Positioning
 - ~ 600 m



Mapping-Grade GNSS Devices vs. Consumer-Grade Smart Devices



How do we bridge the gap to
Achieve higher accuracy?

What GNSS receivers can I use with Field Maps?

- Bad Elf
- Carlson
- Dual
- Eos
- Garmin
- Juniper
- Leica
- Spectra Precision
- Trimble

What are my options from Seiler?

- **Spectra Precision**
- **Trimble**

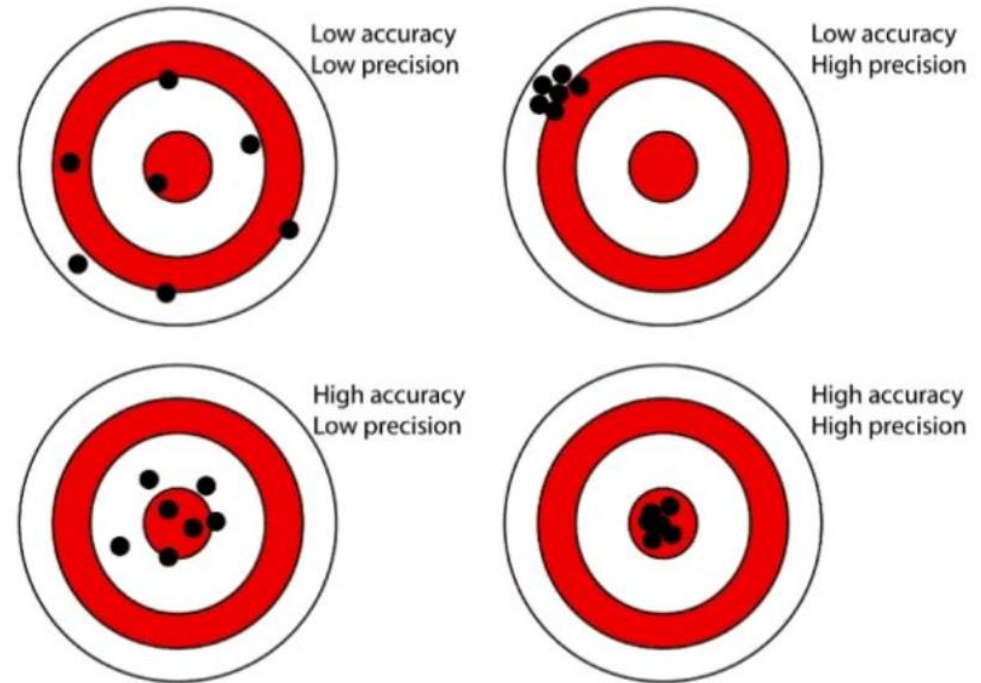
Accuracy vs Precision

- Precision

- Quality of being exact
- Low variance
- Repeatability
- Reproducibility

- Accuracy

- Closeness to truth



R1 GNSS Receiver

- Sub Meter GNSS Receiver
- Compatible with: Android, iOS
- Software: Trimble/Esri
- All day battery
- Optional patch antenna



R2 GNSS Receiver

- Sub Meter, Sub Foot or Centimeter GNSS Receiver
- Compatible with: Android, iOS,
- Software: Trimble/Esri
- 2 batteries.
- 4-5 hours each



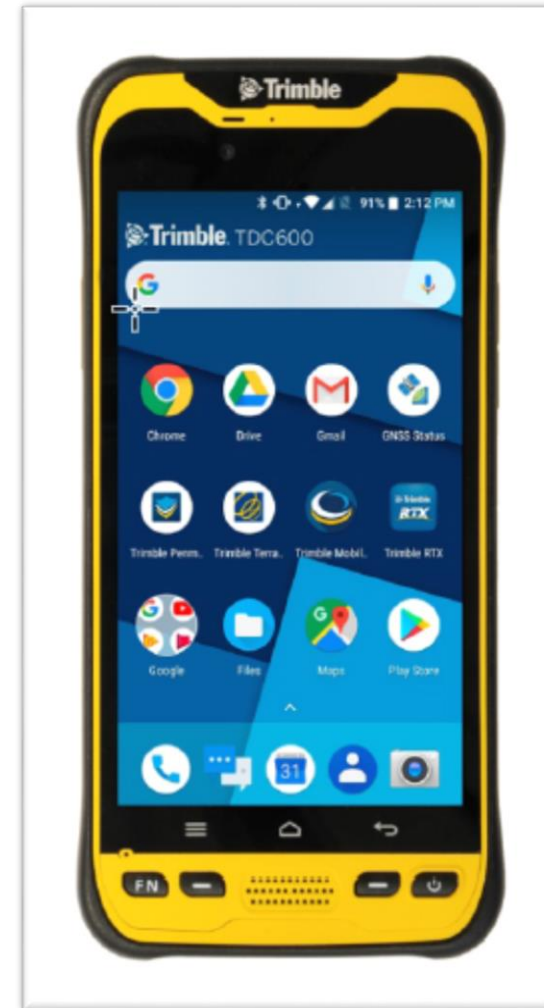
Nomad 5

- Android 8.1
- 5 inch screen
- 2-4 meter accuracy
- IP-65/68
- EMPOWER GNSS Module*
- EMPOWER Barcode 1D/2D/3D
- [NOMAD 5](#)



Trimble TDC600

- Android 8.0
- 2.2 GHz Qualcomm® processor paired with large 4 GB memory and 64 GB internal storage
- 6 inch Screen
- Replaceable Battery
- IP-67 rating
- 2M Accuracy with SBAS



Questions?

Contact Information

- Mapping Tech Support and Trimble Certified MGIS Trainer:
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Thank You



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