FIELD OPERATIONS
WEBINAR SERIES
UTILITIES, WATER AND TELECOM

May 14 | May 21 | **May 28**

Inspect | Construct | Innovate

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UTILITIES, WATER AND TELECOM

Improving Inspections and Maintenance

May 14

Optimizing Capital Work

May 21

Advanced Technologies

May 28

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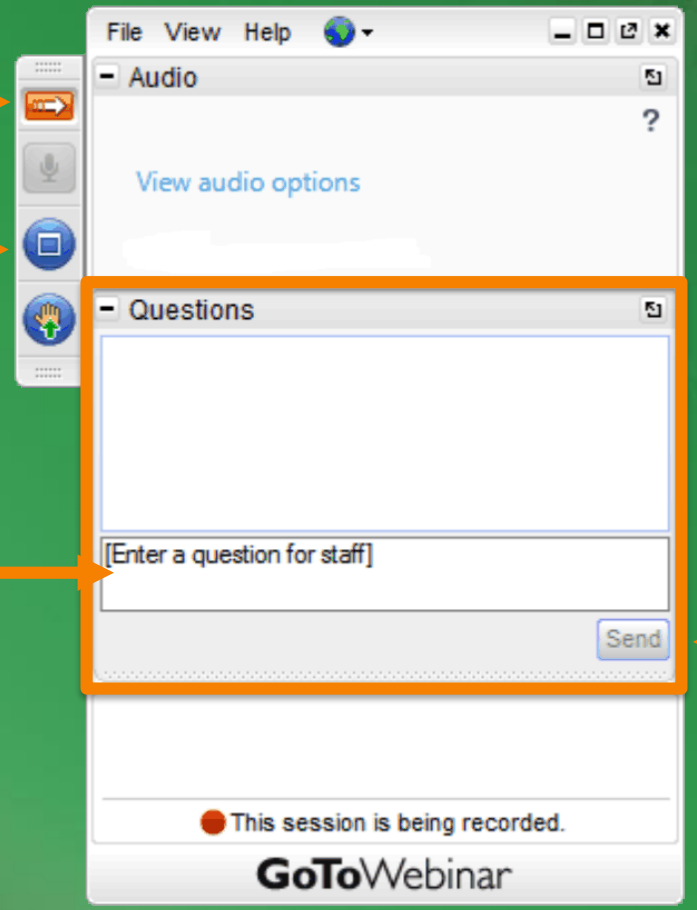
Expand or Collapse Your Control Panel

Adjust Your View

Ask a Question



Submit Your Question

**** The Webinar is Being Recorded ****

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Speakers

Moderator
Christa Campbell
Industry Specialist
Water
Esri

Pat Hohl
Director
Electric
Esri

Ben Segal
Solution Engineer
Water
Esri

Michael Dendinger
Solution Engineer
Utilities & Telecom
Esri

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Agenda

- Overview — Technology Overview
- Demonstration — Productivity Tools
- Demonstration — Artificial Intelligence
- Demonstration — Using Imagery
- Demonstration — 3D Visualization
- Review & Questions and Answers

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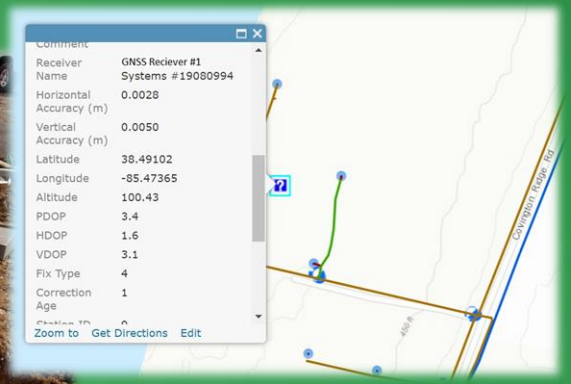

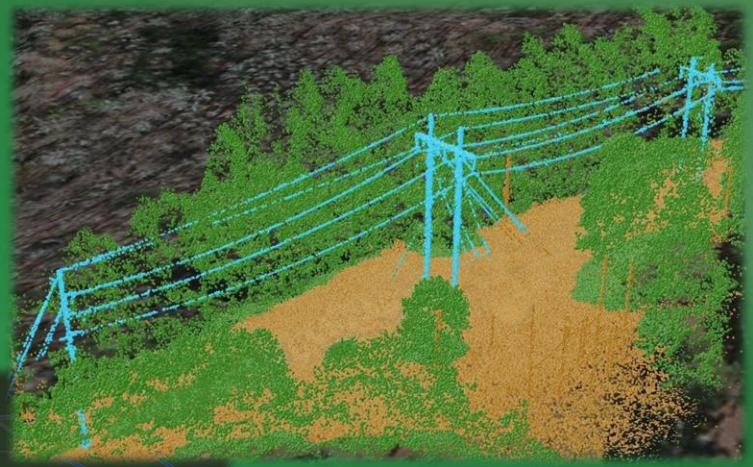

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Productivity Tools

1

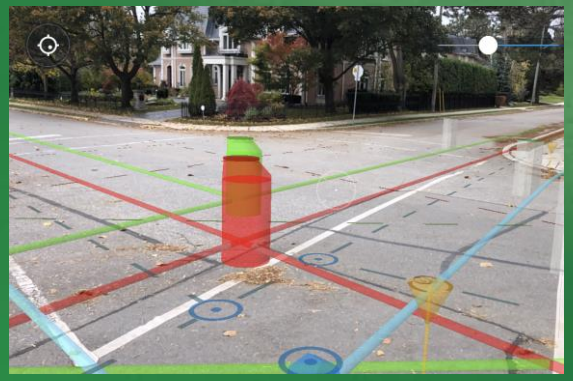
Artificial Intelligence

2

Using Imagery

3

3D Visualization



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1

Productive field tools leverage the worker's **skill** and **knowledge** and minimize repetitive tasks.

- How can staff avoid typing?
- How can tools remain aware of context?
- How can staff be kept aware in real-time?

Demonstration | Productivity Tools

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Productivity Tools

- Minimal typing
- Location awareness
- Alerts and notifications

ArcGIS Dashboards

Survey123 for ArcGIS

Pat Hohl

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2

New computing capabilities **find** patterns and **identify** important features allowing staff to **focus** expertise where most needed.

- How can staff use advanced techniques in normal work?
- How can workers easily find what is important?
- How can staff plan ahead for field conditions?

Demonstration | Artificial Intelligence

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Michael Dendinger

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Artificial Intelligence

- Improve normal work
- Find the important
- Plan ahead

ArcGIS Pro

Pat Hohl

Field Operations | Using Imagery

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3

Imagery from satellites, aircraft, or drones shows conditions where access is **difficult**, **time consuming**, or presents **safety** concerns.

- How can field staff leverage artificial intelligence?
- How can crews inspect tall infrastructure safely?
- How can staff examine energized equipment?

Demonstration | Using Imagery

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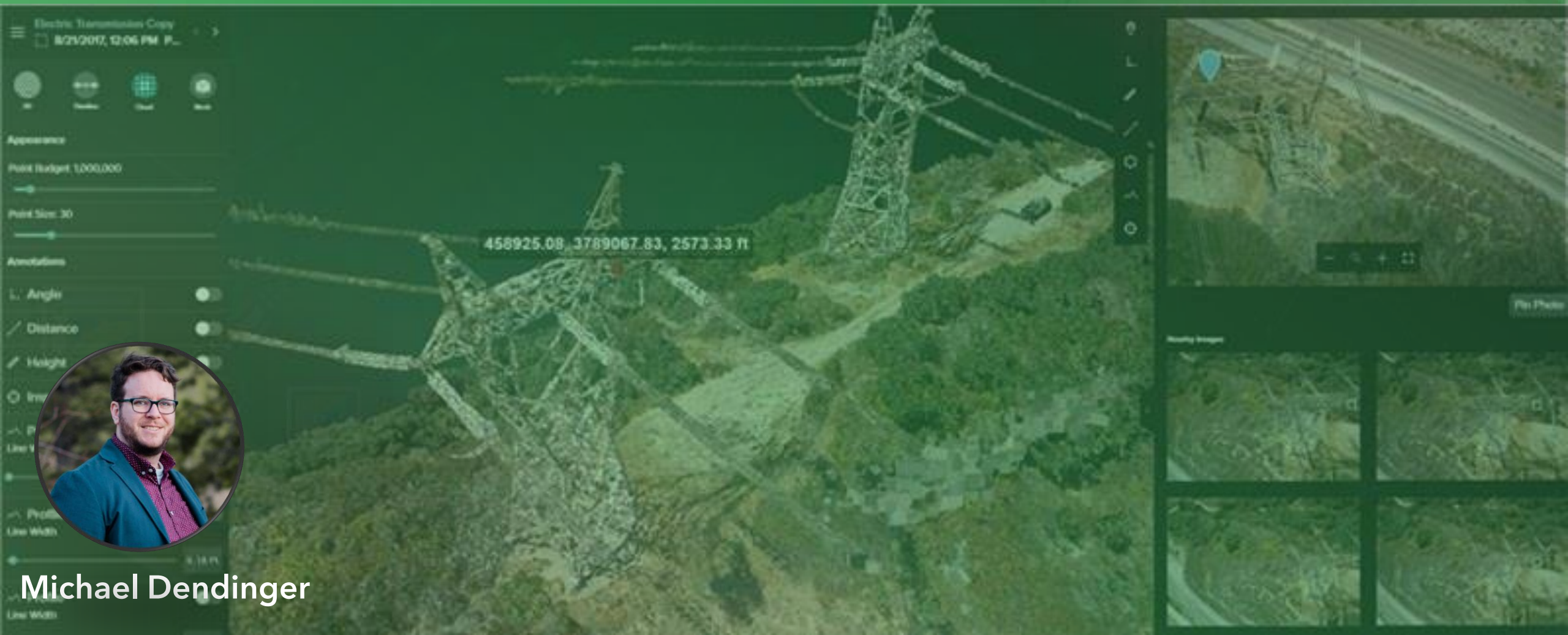

Michael Dendinger

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Using Imagery

- Leverage A.I.
- Increase safety
- Keep equipment in service

ArcGIS Pro

Pat Hohl

Field Operations | 3D Visualization

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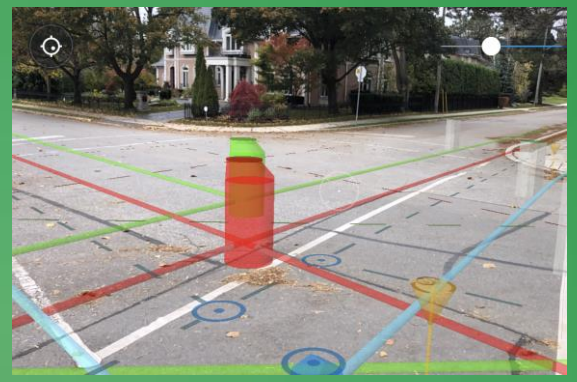

4

3D visualization improves understanding of field conditions in the real world.

- How can job planning be improved?
- How can staff conduct training away from hazards?
- How can safety begin before arriving on site?

Demonstration | 3D Visualization

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Ben Segal

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3D Visualization

- Job planning
- Familiarization training
- Increased safety

Scene Viewer

Pat Hohl

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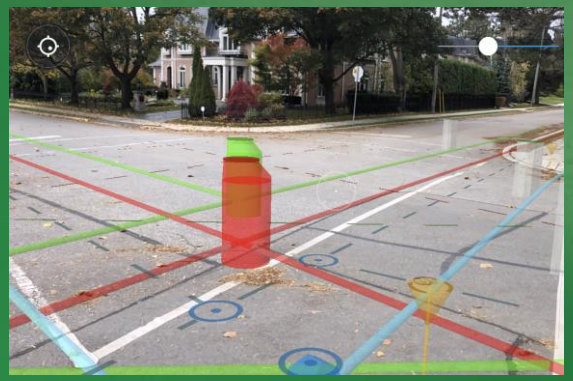
Wrap up

Productivity Tools

Artificial Intelligence

Using Imagery

3D Visualization



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- Christa Campbell
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- Michael Dendinger
- Benjamin Segal

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THE SCIENCE OF WHERE