Getting Down and Dirty with Saunders Construction's Field Use of LIDAR

Moderator: Neil Rosado

Senior Technical Specialist
Autodesk

Speaker: Matt Hamann

Integrated Services Manager
Saunders Construction

Presentation Team - Moderator

Neil Rosado

Senior Technical Specialist - Autodesk

Neil's background includes 20 years of industry experience. He has a comprehensive background in architectural design, construction and building information modeling. Neil has been responsible for creating and running BIM departments resulting in the vast implementation of the full scope of BIM processes, and services from 3D visualization to facilities management uses.

Presentation Team - Speaker

Matt Hamann

Integrated Services Manager - Saunders Construction

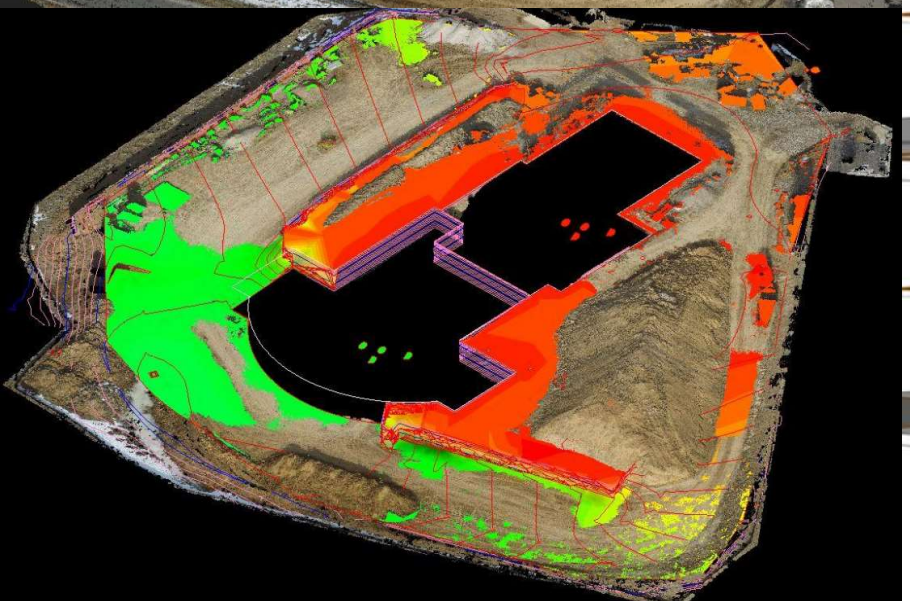
Matt has 12 years in the construction industry, working 8 years in architecture before making the move to Saunders ITG group. He has managed projects ranging from large $100 M plus arenas to small, tricky renovations. He is now Saunders Integrated Services Manager overseeing the BIM/VDC effort on all Saunders jobs.

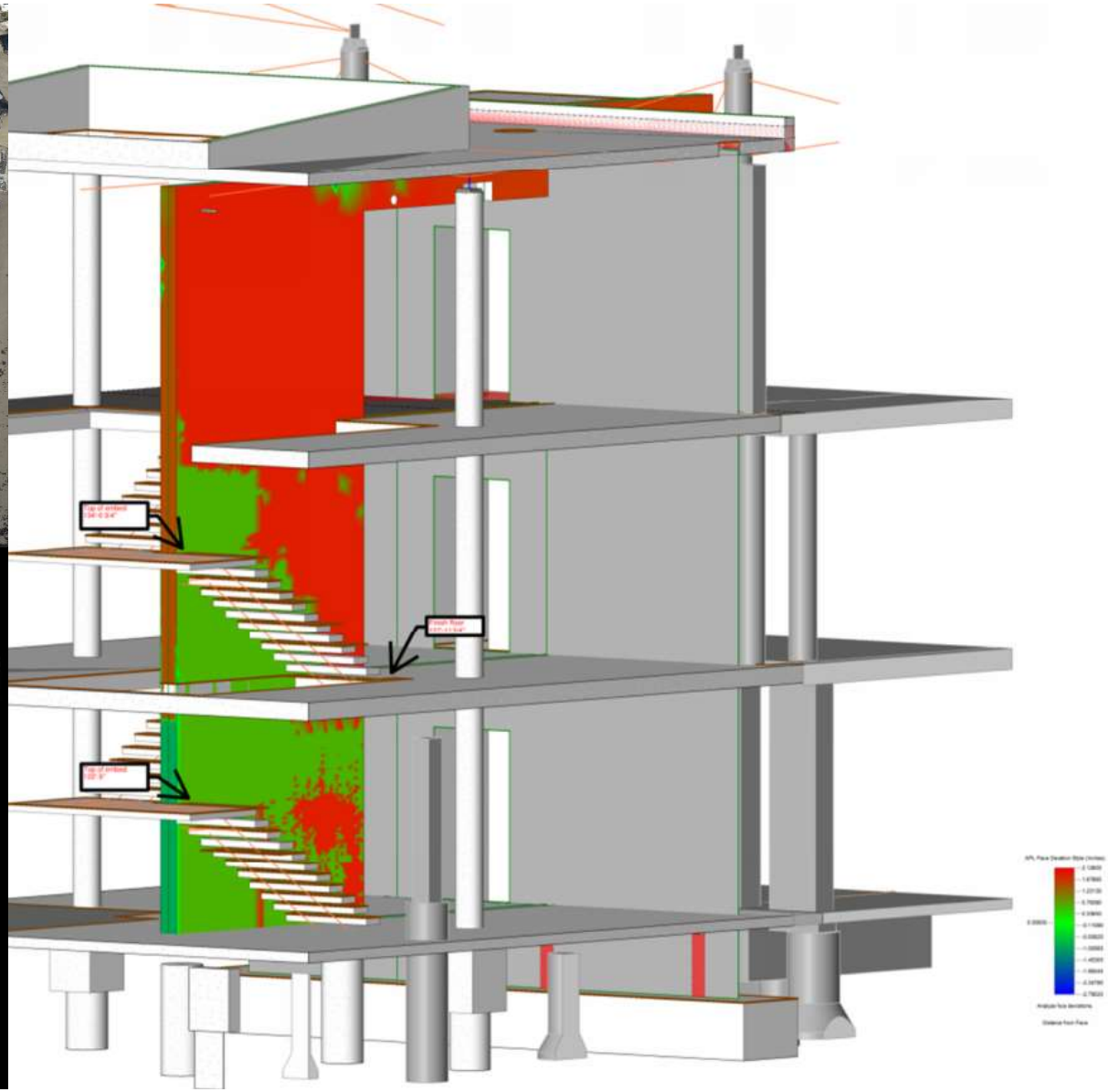
AGENDA

- Establishing Saunders Workflows
- Case Study: Gearing up
- Case Study: Solidifying Expertise
- Q&A

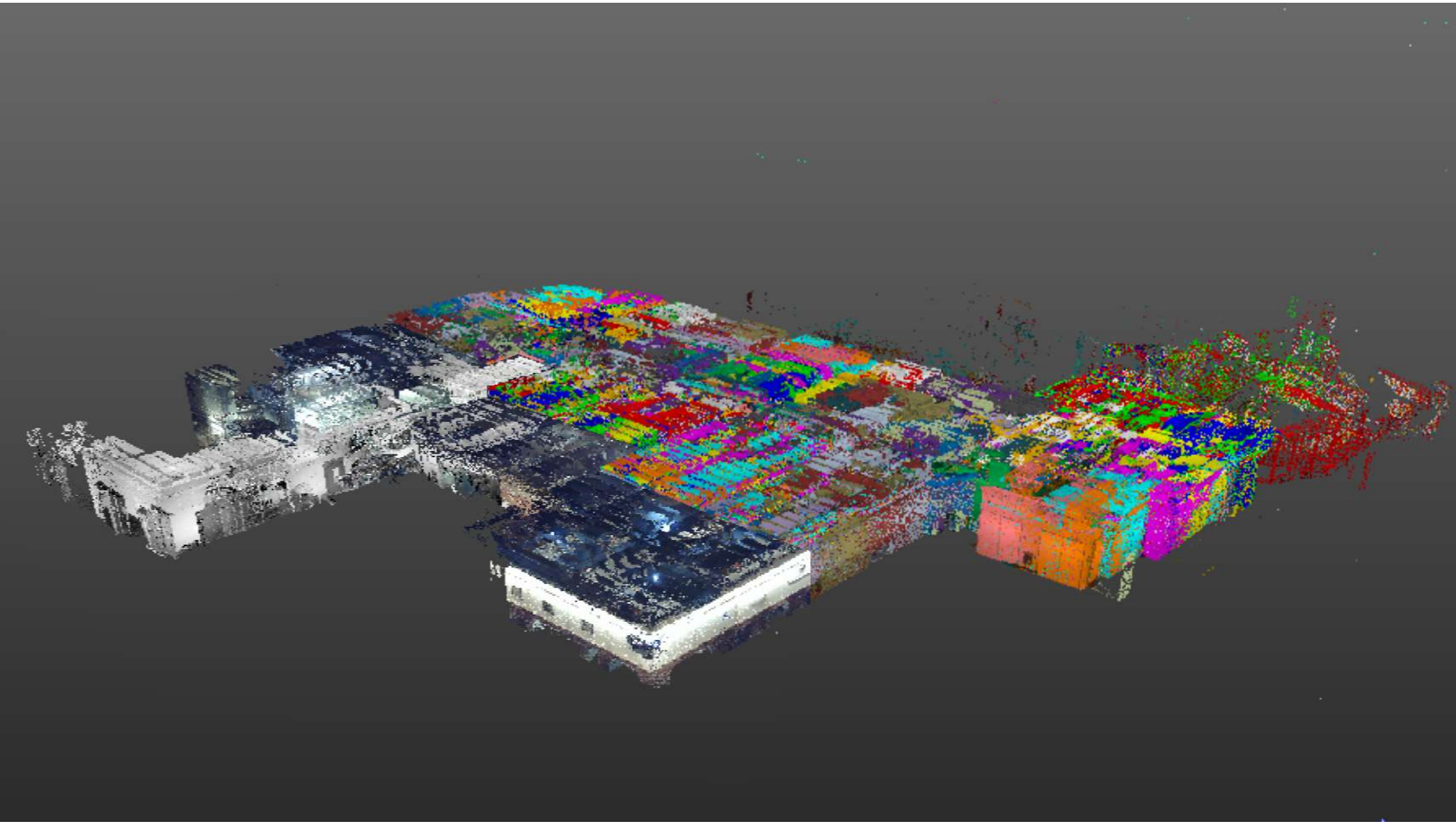
Establishing the Saunders way

How Did You Get There?

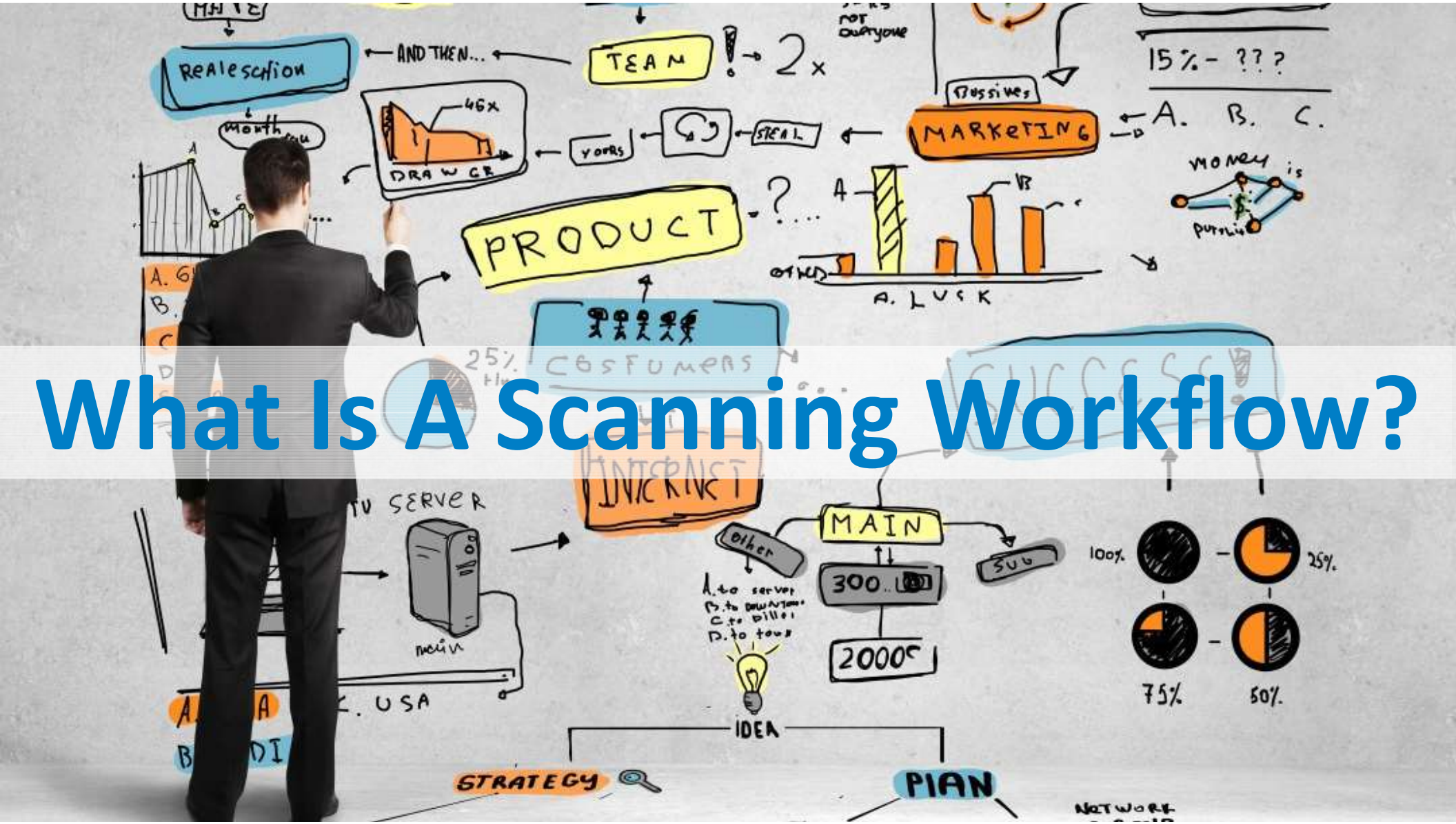




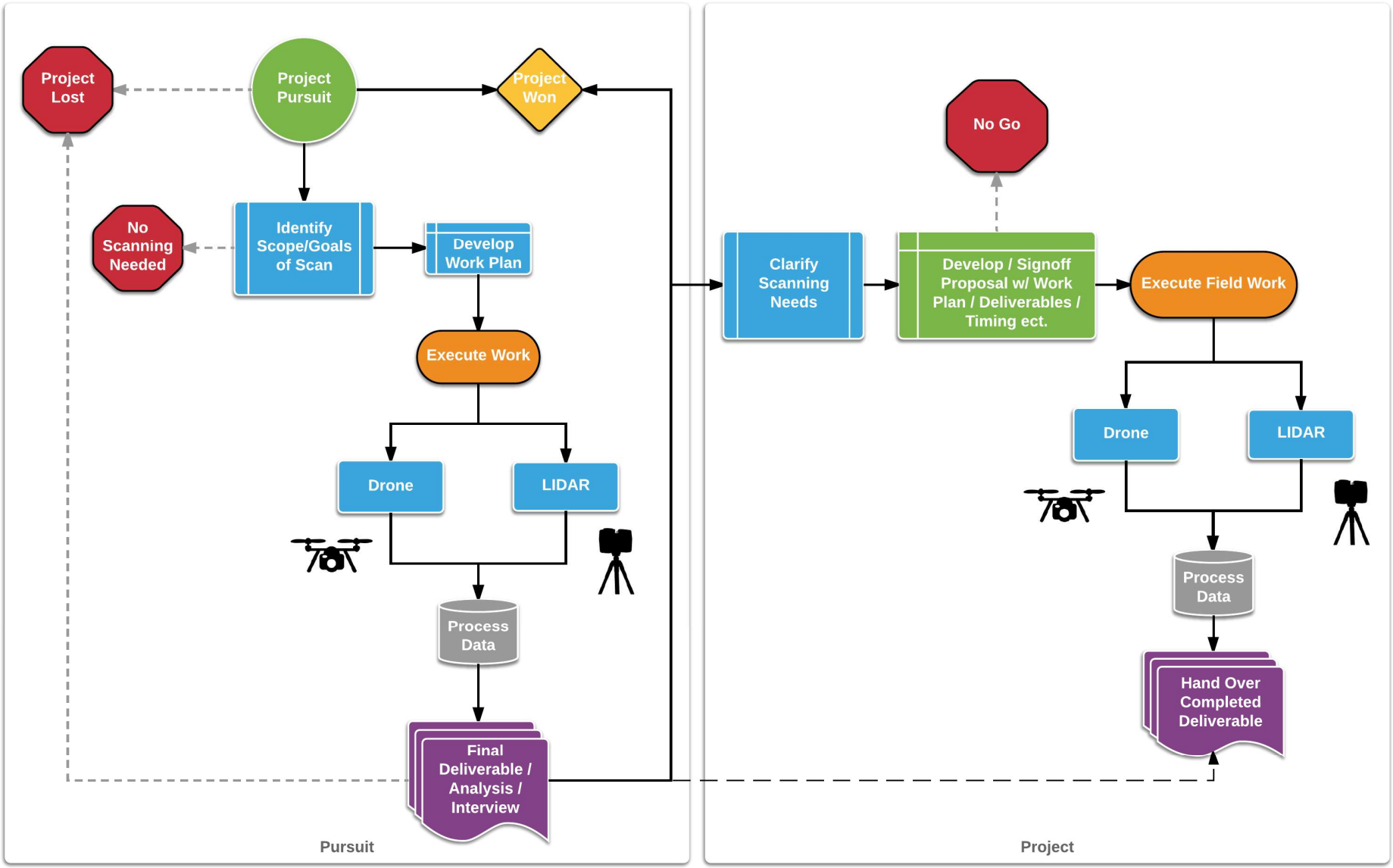
Do You Need Standards?



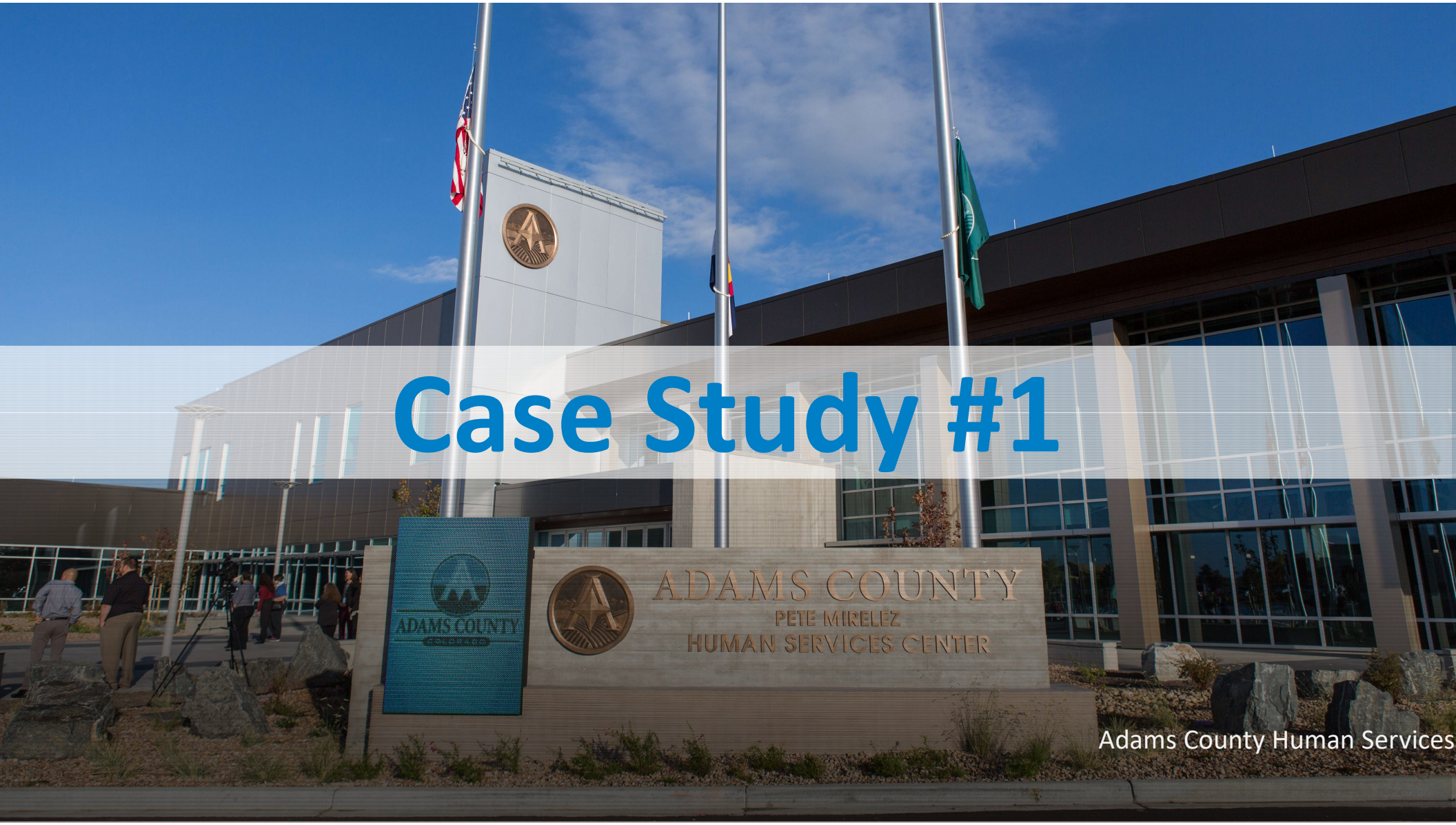
But Isn’t So Easy?



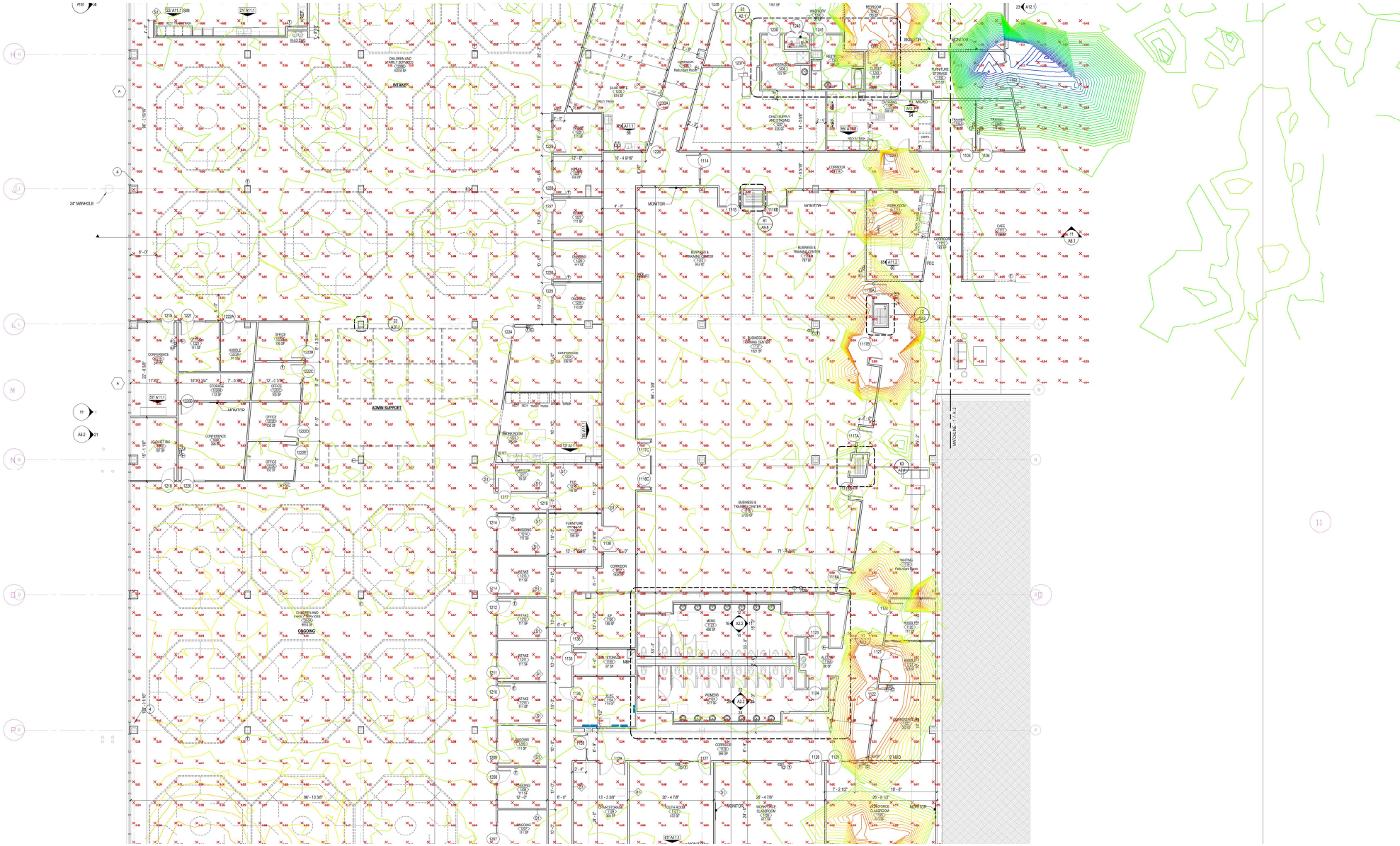
What Is A Scanning Workflow?

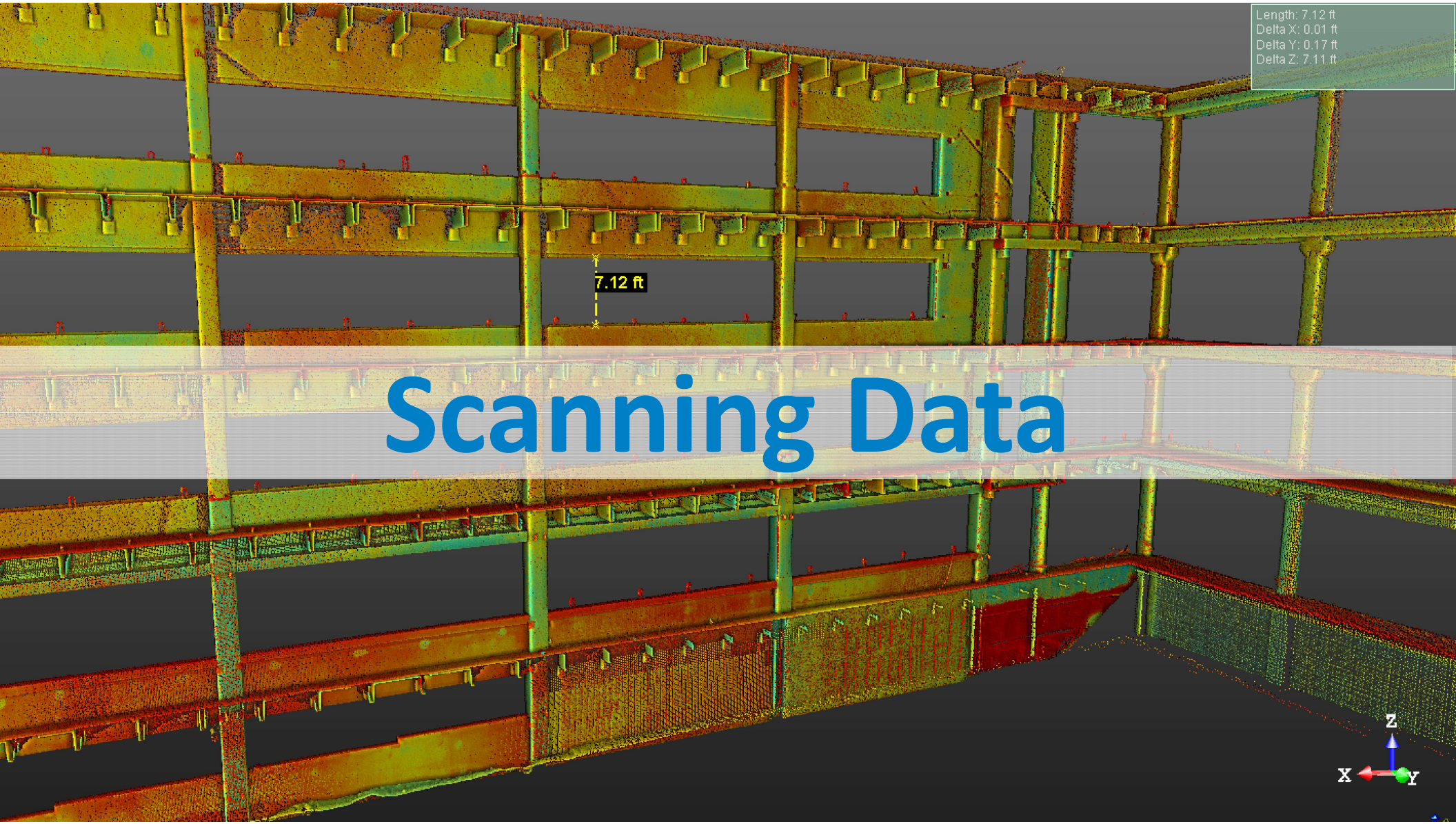

Project Lost
Project Pursuit
Project Won
No Scanning Needed
Identify Scope/Goals of Scan
Develop Work Plan
Execute Work
Drone
LIDAR
Process Data
Final Deliverable / Analysis / Interview
Pursuit
No Go
Clarify Scanning Needs
Develop / Signoff Proposal w/ Work Plan / Deliverables / Timing ect.
Execute Field Work
Drone
LIDAR
Process Data
Hand Over Completed Deliverable
Project

Case Study #1



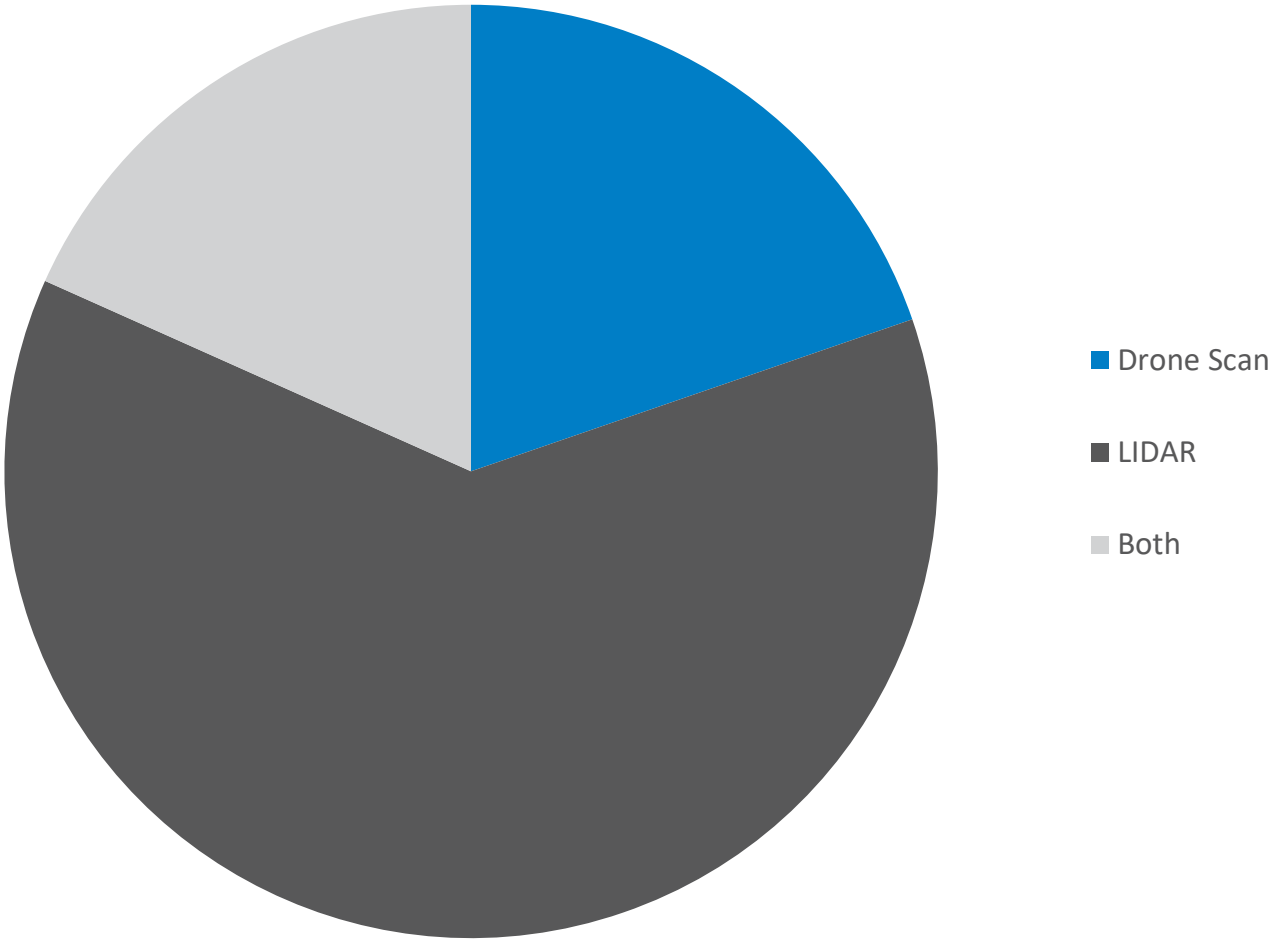
Adams County Human Services


ADMIN SUPPORT
ONGOING
INTAKE
MONITOR
24" MANHOLE
MARION AVE

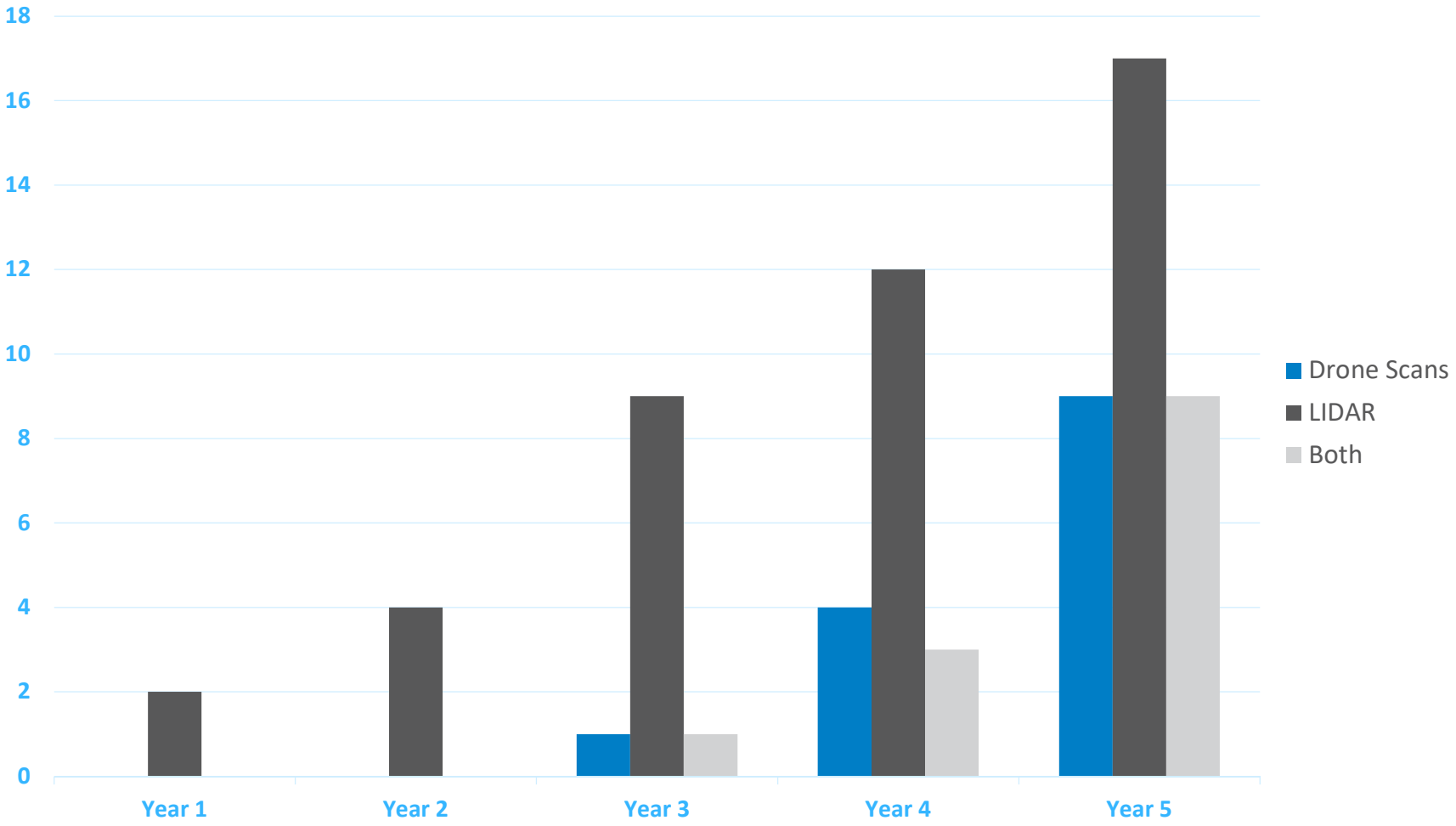


Scanning Data

Saunders use of scanning technologies since 2010



Saunders progress over the last 5 years



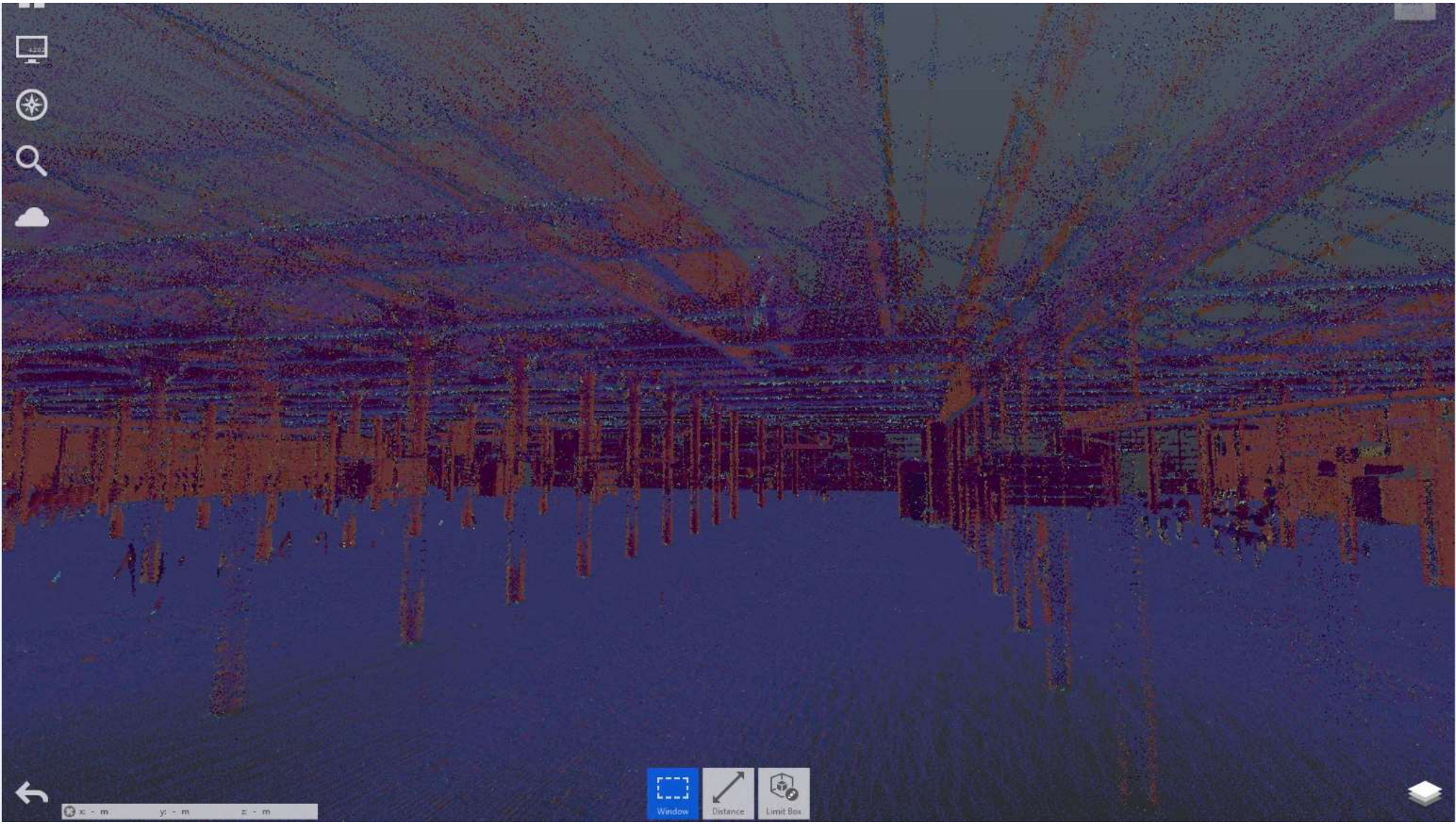
Case Study: Gearing Up

Case Study #2

Case Study: Solidifying Expertise

Case Study #3

Denver Rock Drill Development


x: - m
y: - m
z: - m
Window
Distance
Limit Box

Recap

TOP 5 MUST DO

- Clearly define goals of scan
- Clarify approach with field and office team
- Give yourself plenty of time
- Hand deliver product
- Follow up

TOP 3 MUST AVOID

- Don’t Procrastinate
- Avoid large final products
- Error on more / fewer scans

Questions and Answers

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