Reality Capture Best Practices Kumbaya – Ask the Experts Roundtable

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Reality capture has become the new normal for the architecture, engineering, and construction (AEC) industry in delivering and executing projects. But as is the case with any new method, the first few years are always the Wild Wild West—with minimal standards, compliance checks, and quality procedures in place. This roundtable will give participants the ability to have detailed discussions with industry experts who’ve been in the trenches on hundreds of reality-capture jobs, including static LiDAR (light detection and ranging), drones, and photogrammetry. This roundtable will focus discussions on methods for determining whether to procure services or move them in house, staffing requirements for project execution, and critical elements to better ensure successful usage of reality-capture data. This session features ReCap 360 and Navisworks Manage.
Key learning objectives

At the end of this class, you will be able to:

- Engage experts in best-known methods of the industry
- Understand the training that is required for reality-capture implementation
- Discuss the pros and cons of scanning as a service versus reliance on vendors
- Learn how to better plan your next project with reality-capture processes
GOAT
RODEO
AHEAD

Avoiding a Goaltender Ahead
How To Stop The Rubber On-Rush

by Mark Labell Jr.
Standard Templates

- How many have a qualified vendor specification?
- How many have a RFP template for scanning?
  - Do you have a process for defining the deliverable of the scan data and what it is used for?
Deliverables

- What type of files should I ask for?
  - How can it be delivered?
- Color vs Black and white?
- Density requirements?
Registration methods

- Auto registration
- Target acquisition
- Survey traverse
Hardware Required

- How many people feel that their team has equipment that can handle point clouds?
- What computer hardware produces the best bang for the buck?
- How do I give multiple users access to the data?
Staff Training

- How many people have a training plan?
  - What is in that training plan?
- Should you have a training plan for clients, GC’s, subs, etc.?
Point Cloud Conversion

- Why do we do it?
- When should we really do it?
- Ask the question to your staff, does it really help with the success of the project?
Point Cloud Conversion
Drones

- What deliverables can be captured from drones?
- What is accuracy can be expected?
- What should we look for in the next 12 months?
Simple Tools

- What other tools should be in our tool belt that relates to Reality Capture?
  - Cameras
  - Hand Scanners
  - SLAM