

ReCap to the Max! How to Edit, Document, and Coordinate

Mark LaBell Jr.

Head of Innovation





About the speaker

Mark LaBell Jr

Head of Innovation, SSOE Group

Implemented first laser scan @ SSOE in 2008

Worked on 400+ scan projects

Worked closely with ReCap team on features

Started Hackathons and Innovation program



Lab assistant

Aimee Lawrence

VDC/BIM Tech Specialist, SSOE Group

Implemented first large scanning project in 2010

Coordinates complex industrial factories 750k – 1.5m SFT

Authored many atypical workflows with point clouds



Lab assistant

Tony Sabat

VDC/BIM Tech Specialist, SSOE Group

Civil EIT

Certified sUAS Pilot since 2016

Civil 3D and Infracore expert

Author for SPAR, LIDAR News and AEC Next

Class on 11/15 @ 10:30 - CS223540 - The VDC Gauntlet:

Using the Architecture, Engineering & Construction

Collection for Virtual Design and Construction



Lab assistant

Chad Studer

President, NOAR Technologies

First worked with laser scanning in 1998

First worked with drones in 2013

Reseller of Leica, DJI and Autodesk

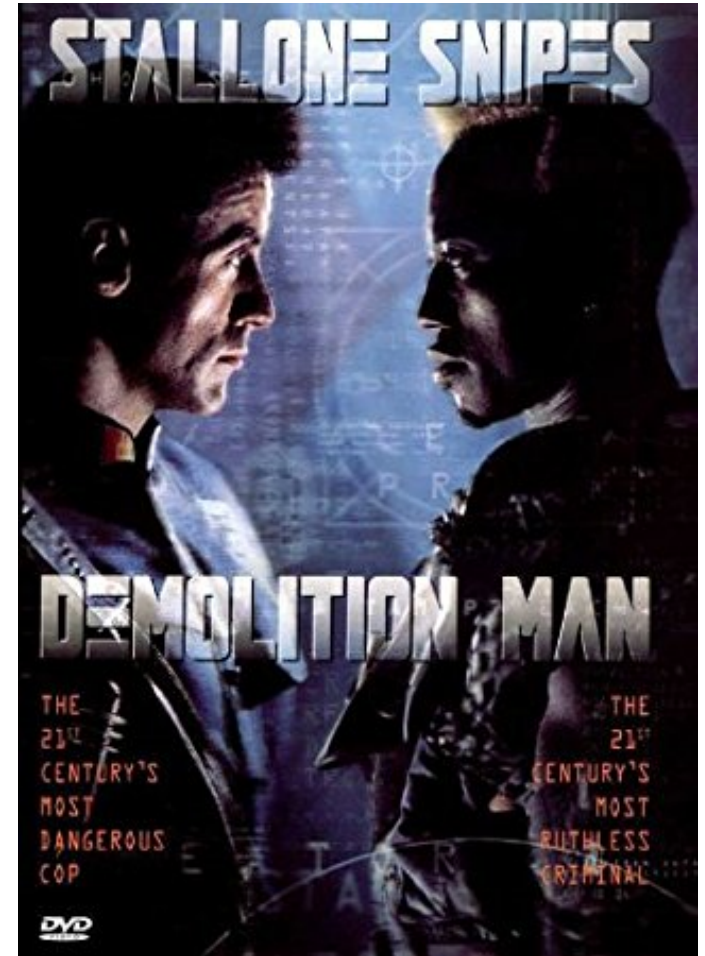
2 Degrees of separation in Reality Capture industry

Learning Objectives

- Learn how to select equipment for exporting as its own file
- Learn how to tag and label for asset tracking and simplified viewing
- Learn how to do advanced dimension features and document information for search
- Learn how to compress ReCap projects with the undocumented feature

Agenda

1. [Interface overview](#)
2. [Point Cloud cleanup](#)
3. [Demolition Man](#) - this ain't Wesley Snipes' Point Clouds
4. [Annotation and Assets](#)
5. [Navisworks Option-eering](#)
6. [Q&A](#)



PSA on Coordinates

- State plane is still a disaster
- Program limitations
 - P3D 5000',5000'
 - Revit 20 miles
- Set a Building or Site monument. (IE 1000',1000',100')
- Do no move point clouds to fit design models

Example 1

- How to clean project
 - Create spray region
 - Assign spray to region
 - Export as spray file
 - Delete points and then do for rest of elements

Example 1 cont.

- Delete all points in the file
- Saveas to remove all points from RCS
 - Show folder on local computer
- Import P-Files from reference folder
- Review project navigator
- Create folders for scan positions vs point clouds
- Save

Example 2

- In Realview mode create a markup for demolition
- Repeat up to 4x
- Save file and review on recap360 website
- Connect iPad to show interchange for contractors
 - Switch to point cloud view
 - Use pick limit box, show rotation
 - Create demo region and assign points
- Show Bluebeam workflow if cloud not allowed per client

Example 3

- Dimension features
 - Pipe snap
 - Dim to surface, ortho
 - Show modification of dims
 - Add tag info to dims, pictures
- Import CSV File of comments
- Show search function
- Delete Demo region, attach Demo RCS file
- Attach NWD file

Example 4

- Open Navisworks Simulate
 - Factory Design plugin for viewing mirror bubbles
 - Voxel move



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