

FLYABILITY

SAFE DRONES FOR INACCESSIBLE PLACES

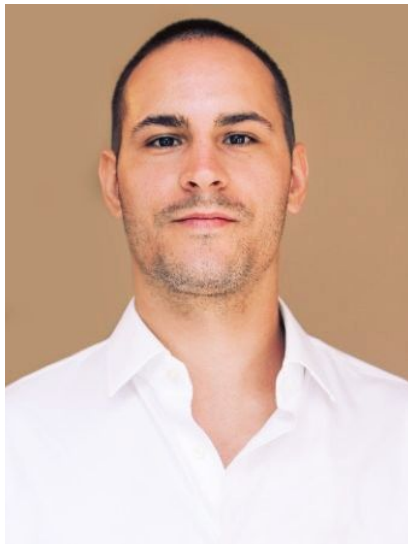
Indoor 3D Modeling: Applications & Implications

Tuesday, April 21st 2020

04:30 PM - 05:30 PM CEST

10:30 AM - 11:30 AM EST

MODERATOR



Zacc Dukowitz
Content Marketing Manager
—Flyability—

PANELISTS



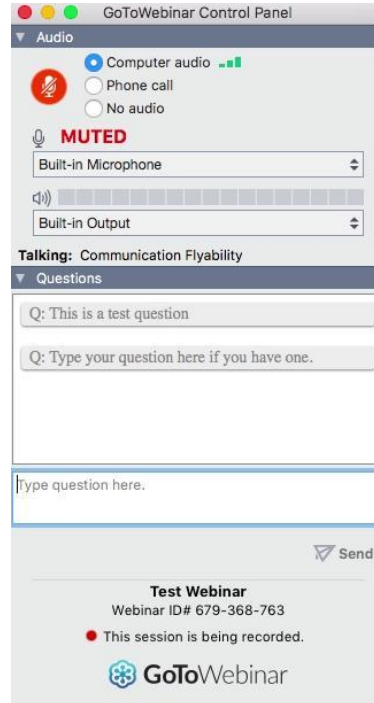
Andrew McIntyre
Technical Trainer
—Pix4D—



Marc Gandillon
Head of Marketing
—Flyability—

WEBINAR ENGAGEMENT


Ask questions during the webinar.



The image shows a screenshot of the GoToWebinar Control Panel. It features a 'Audio' section with radio buttons for 'Computer audio' (selected), 'Phone call', and 'No audio'. Below this is a 'MUTED' status indicator and a dropdown menu for 'Built-in Microphone'. A volume slider is also present. The 'Talking: Communication Flyability' section is followed by a 'Questions' section with two input fields: 'Q: This is a test question' and 'Q: Type your question here if you have one.' A 'Send' button is located at the bottom right of the questions section. At the bottom of the panel, it says 'Test Webinar', 'Webinar ID# 679-368-763', and 'This session is being recorded.' with a red dot icon. The GoToWebinar logo is at the very bottom.


GoToWebinar Control Panel

Audio



☒ Computer audio 

☐ Phone call

☐ No audio

 **MUTED**

Built-in Microphone

Built-in Output


Talking: Communication Flyability

Questions


Q: This is a test question


Q: Type your question here if you have one.

Type question here.

 Send

Test Webinar
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 GoToWebinar



AGENDA

- 1 5' Introduction
- 2 15' Marc Gandillon, Flyability
Why Use Photogrammetry to Build 3D
Models of Indoor Spaces?
- 3 15' Andrew McIntyre, Pix4D
Key Considerations When Capturing Images
of an Indoor Environment
- 4 20' Q&A



Why Use Photogrammetry to Build 3D Models of Indoor Spaces?

Marc Gandillon
Head of Marketing





WHY PHOTOGRAMMETRY INDOOR?



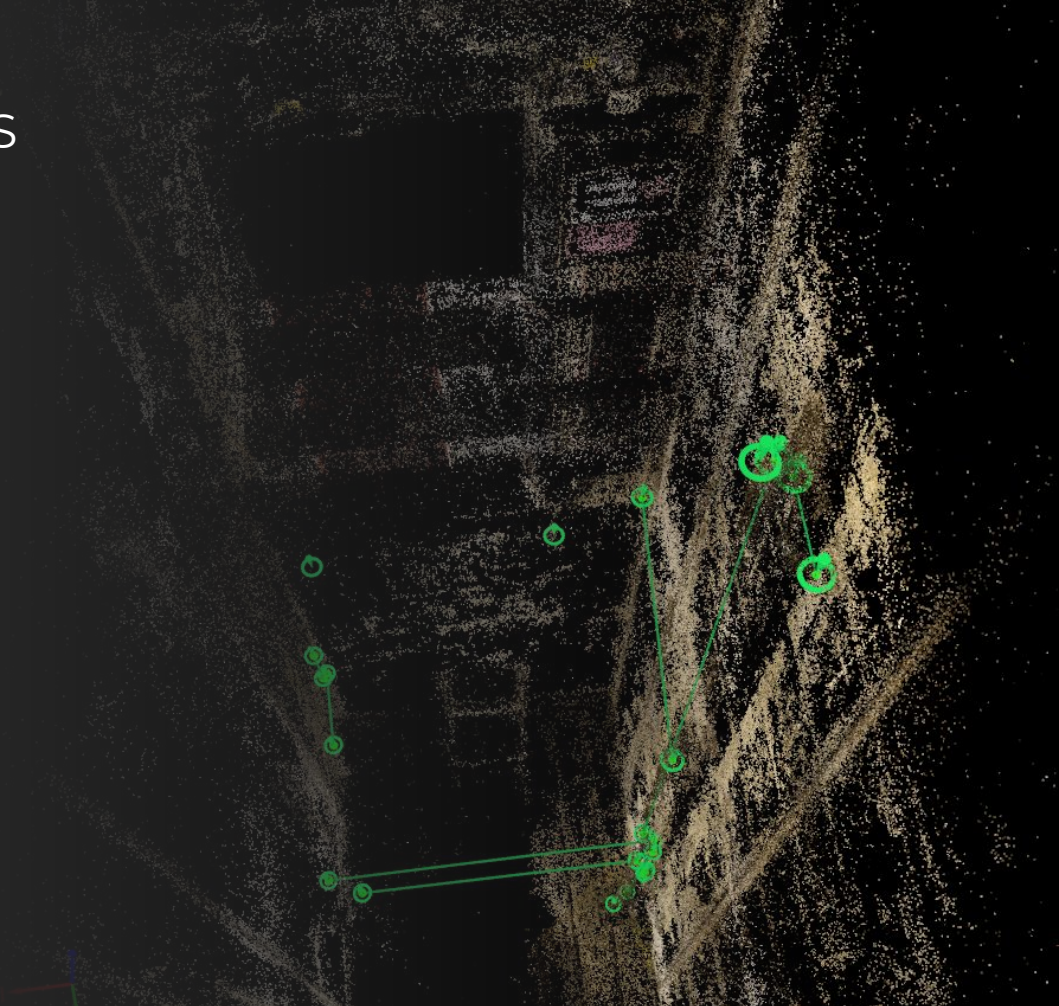
ORGANIZING YOUR DATA

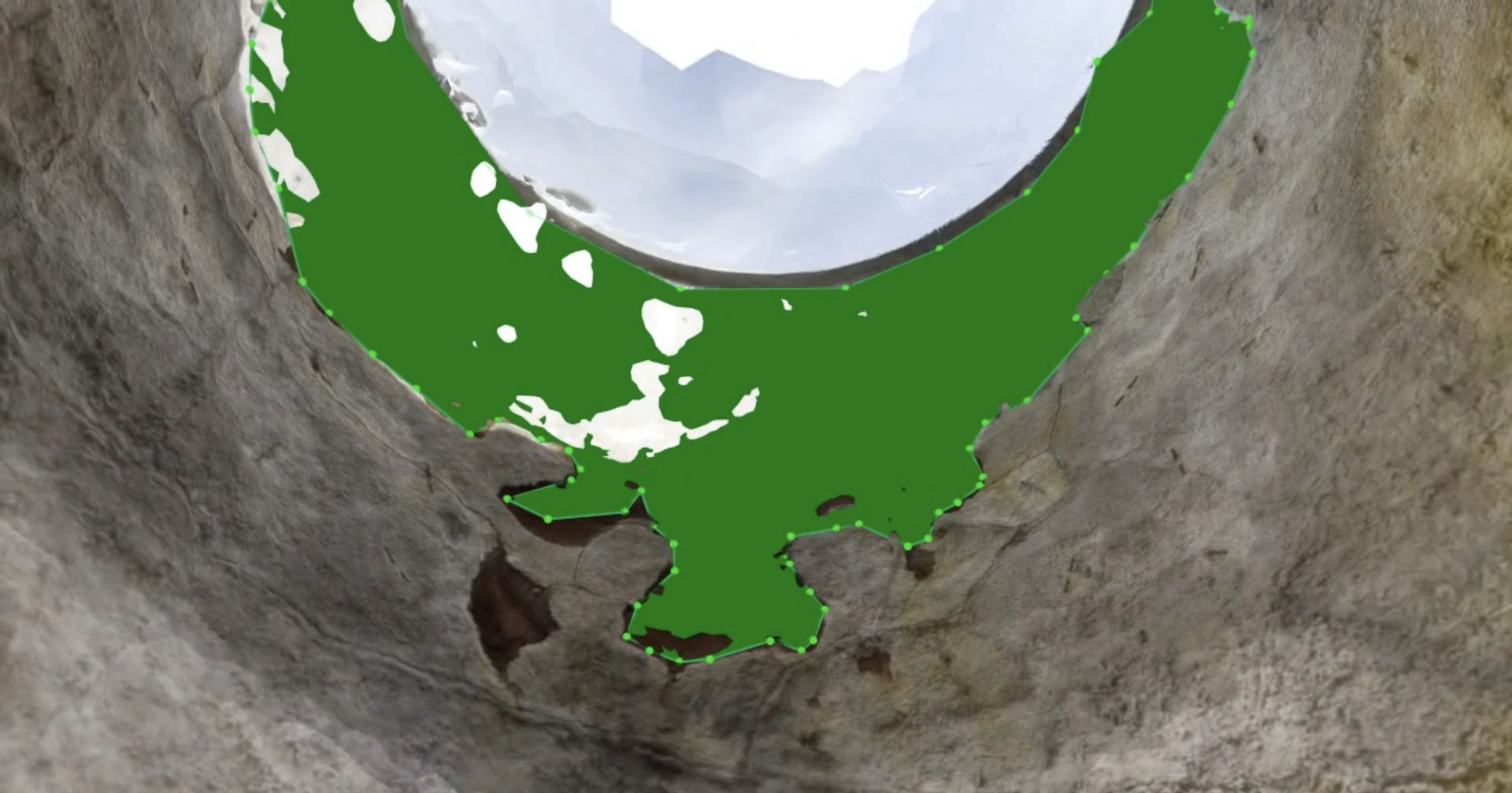






MAKING MEASUREMENTS

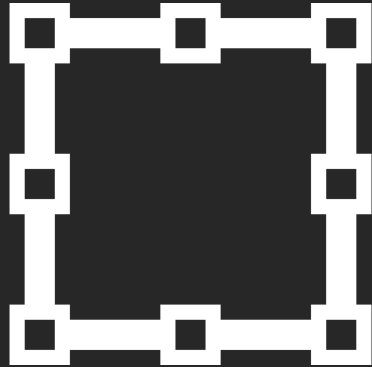


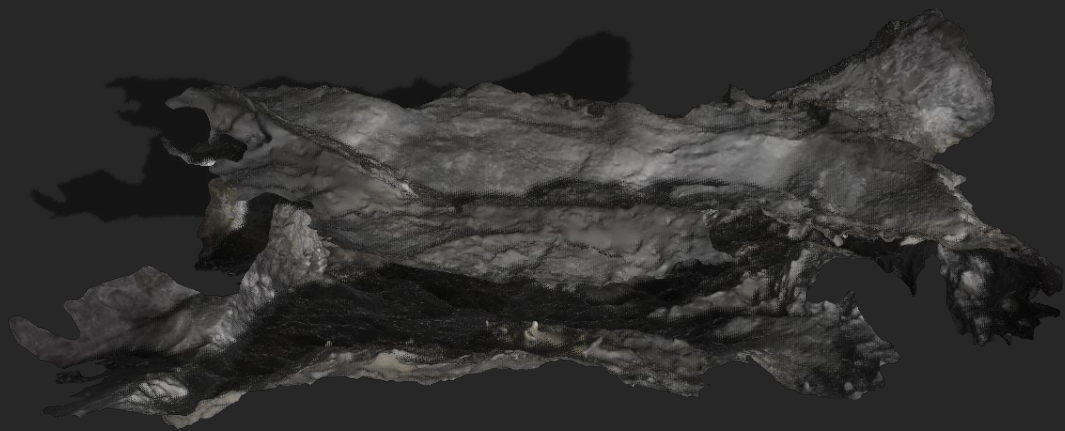
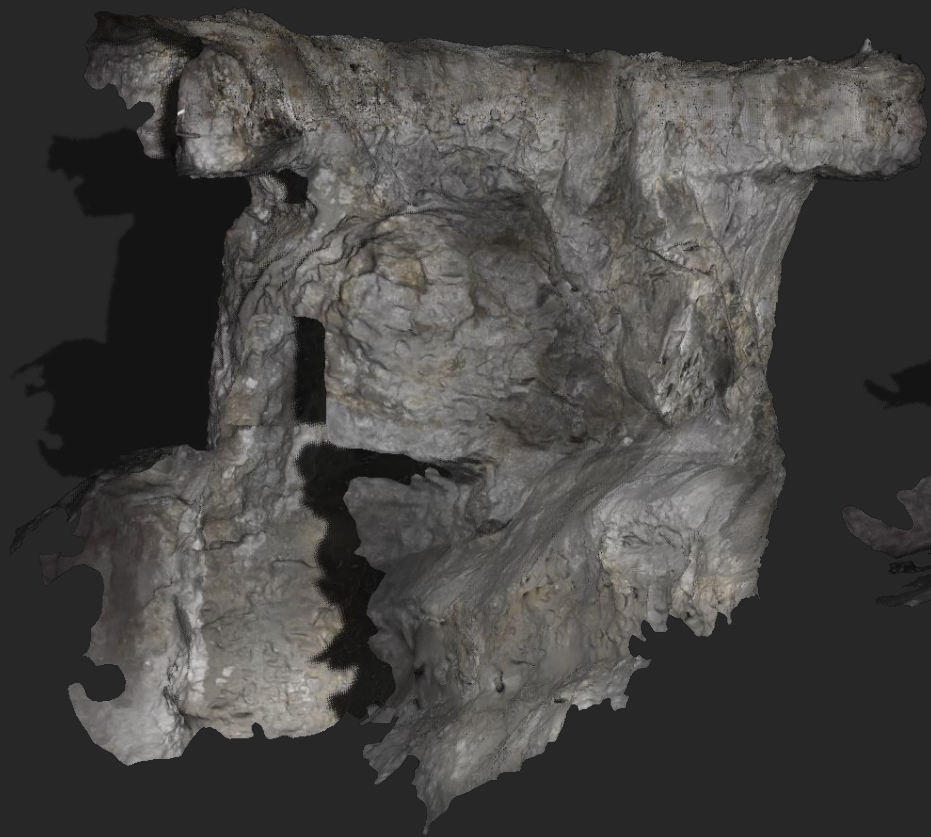




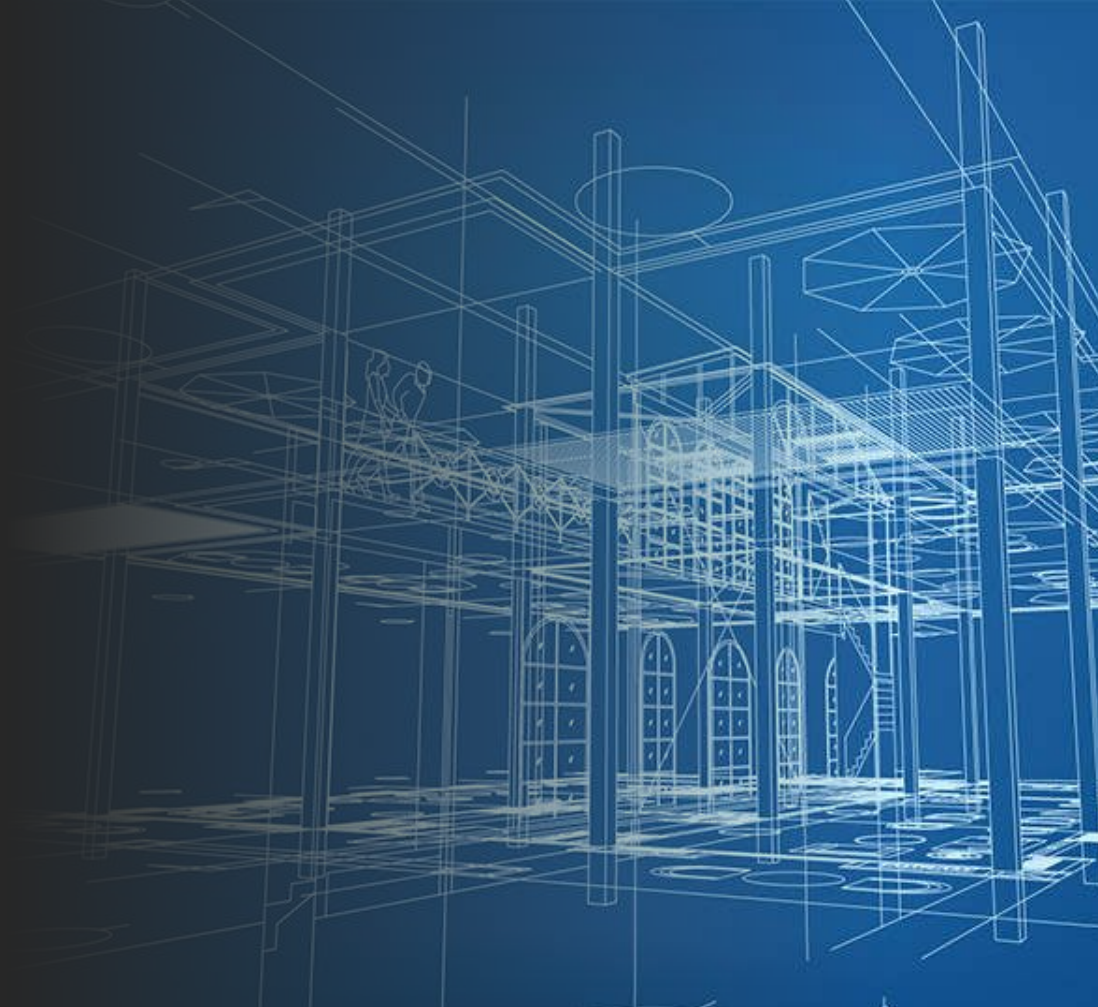
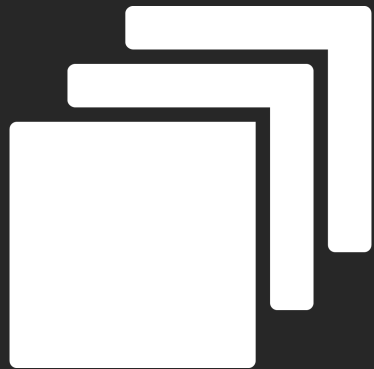


CHECKING THE SHAPE AND CONDITIONS OF STRUCTURES





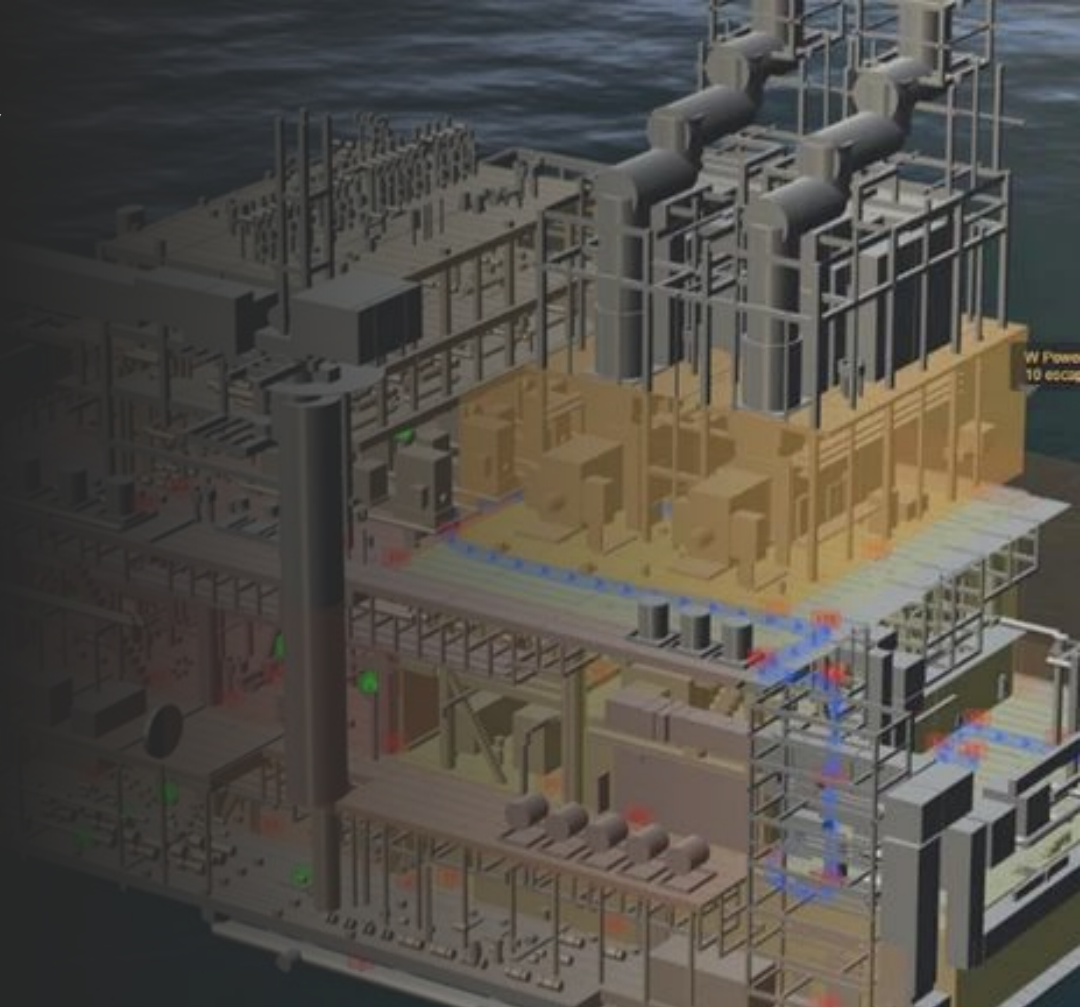
TRACKING CHANGES



PLANNING MAINTENANCE AND DESIGN CHANGES



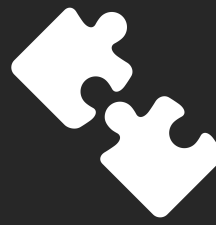
TRAINING AND SAFETY



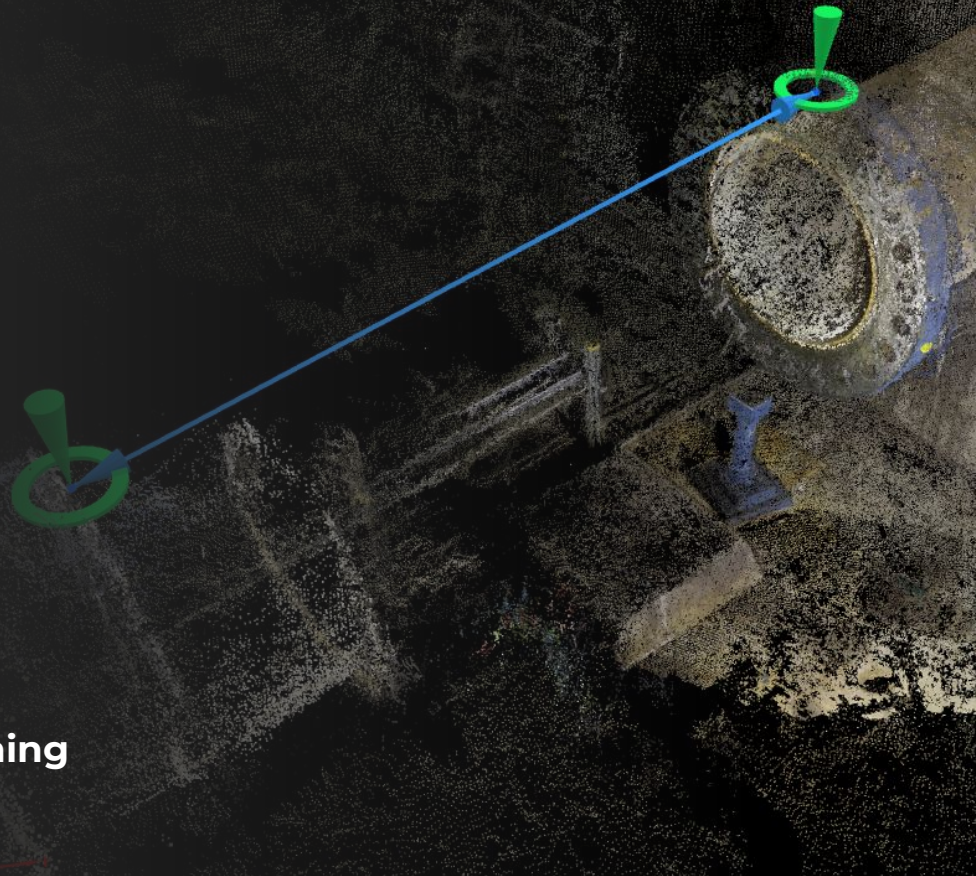
MARKETING



CONCLUSION: A GLIMPSE INTO THE FUTURE



GET TRAINED ON BUILDING 3D MODELS WITH ELIOS 2 USING PHOTOGRAMMETRY



flyability.com/indoor-photogrammetry-training

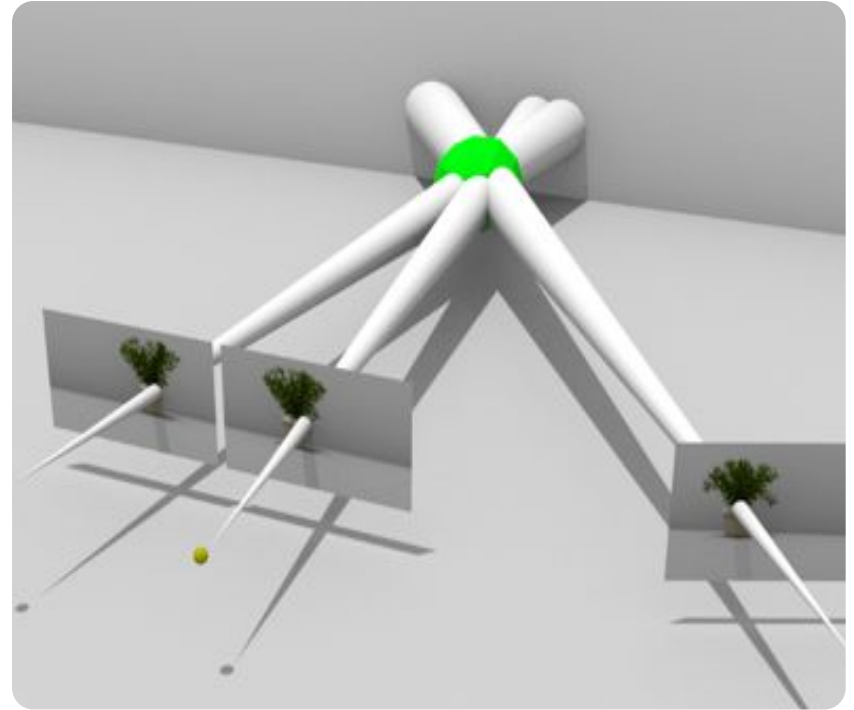
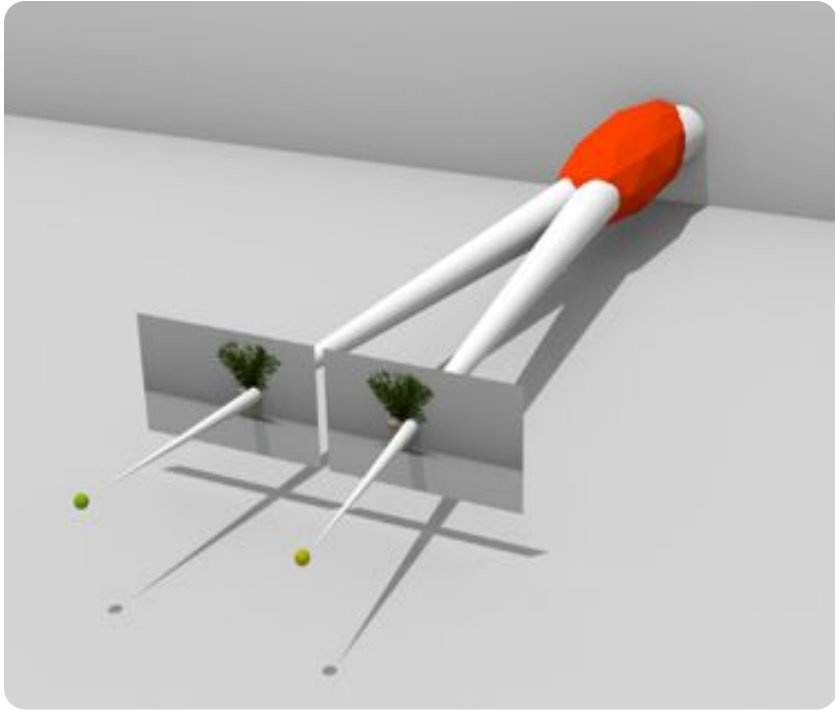


What are three things to consider when you use photogrammetry to build 3D models of indoor spaces?

Andrew McIntyre
Technical Trainer

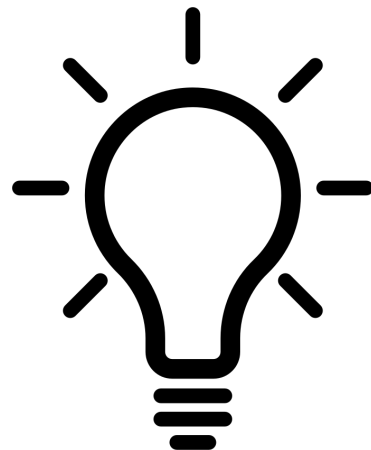


Welcome to the fundamentals of photogrammetry



Illuminate the project area

- Illuminate the scene with diffuse light
- Point the camera directly at what you want to reconstruct and do not point the camera at the light source
- Find a reasonable between the camera's exposure settings, the distance between the light on the Elios 2 and the object you want to reconstruct, and the speed of the camera.

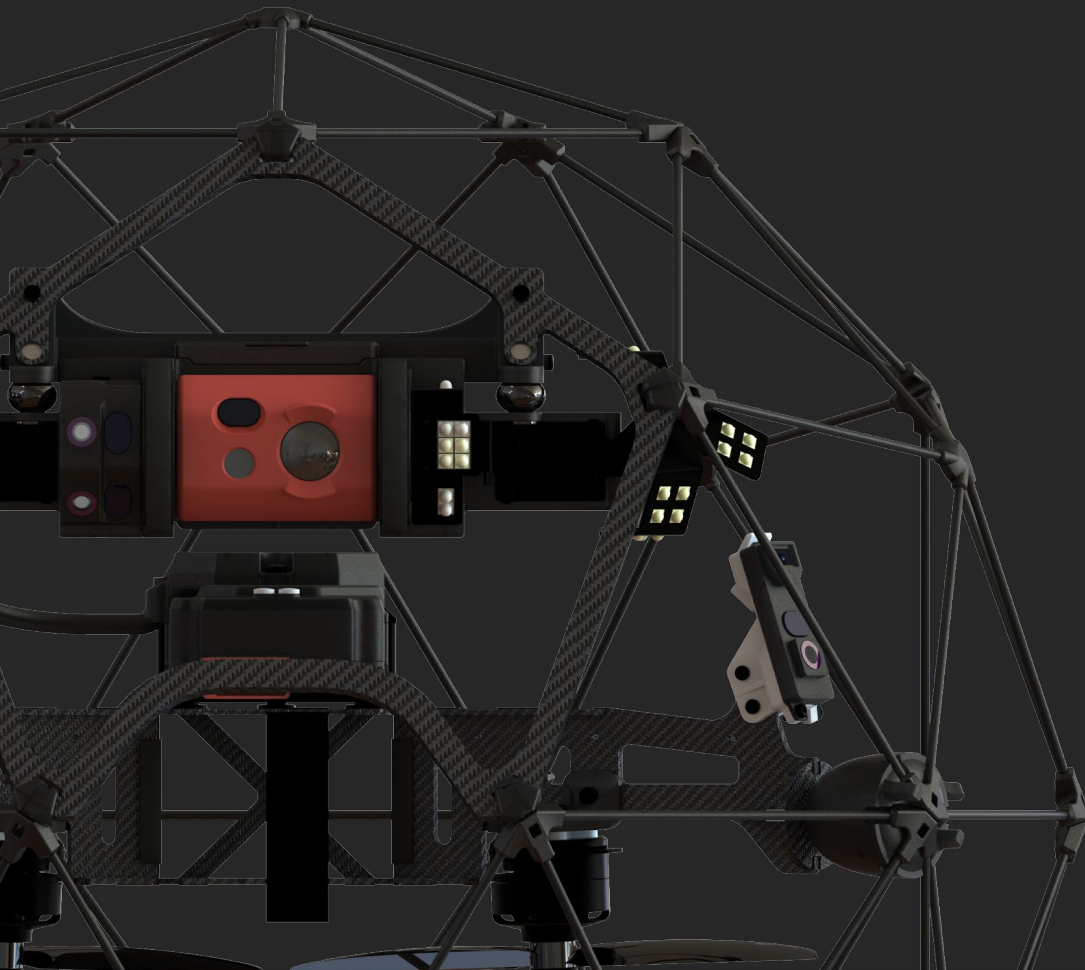


Position and orient the camera

- Capture a smooth transition from one perspective to the next
- Capture every image at a different position
- Capture images at a consistent distance from the object
- Capture everything in at least seven images
- Move the camera perpendicularly relative to the direction it is pointing

Scale and orient the reconstruction

- You can use the position or scale and orientation of objects to scale and orient your results
- Include constraints that are as long as possible
- Include more than just one constraint
- Distribute constraints throughout the project area



The recording of this webinar
will be sent to you afterward.

PAST AND UPCOMING WEBINARS

Thursday, April 9

10:30 AM EST / 04:30 PM CEST

Learn How API and ASME Experts Are Working to Expand Drone Inspection Applications

- Suzanne Lemieux, Manager, Operations Security & Emergency Response Policy at API
- Luis Pulgarin, Project Engineering Advisor at ASME

Tuesday April 14

11:30 AM EST / 05:30 PM CEST

How Country-of-Origin Drone Bans Impact U.S. Companies & Agencies Including Public Safety Agencies Fighting COVID-19

- Jordan Gross, Senior Government Relations Lead at DJI
- Romeo Durscher, Senior Director of Public Safety Integration at DJI

Wednesday April 22

10:30 AM EST / 04:30 PM CEST

How to Build and Scale a Drone Program at Your Company

- Calvin Rieb, Head of Global Unmanned Systems at Cargill

Tuesday April 28

10:30 AM EST / 04:30 PM CEST

Drones in Oil & Gas: How Chevron Uses Drones to Improve Safety, Reduce Downtimes, and Save Money

- Mauricio Calva, Non-Destructive Examination Expert at Chevron
- Larry Barnard, Downstream & Chemicals, Manufacturing ~ UAS Governance at Chevron

<https://www.flyability.com/news/user-conference-webinars>

PAST AND UPCOMING WEBINARS

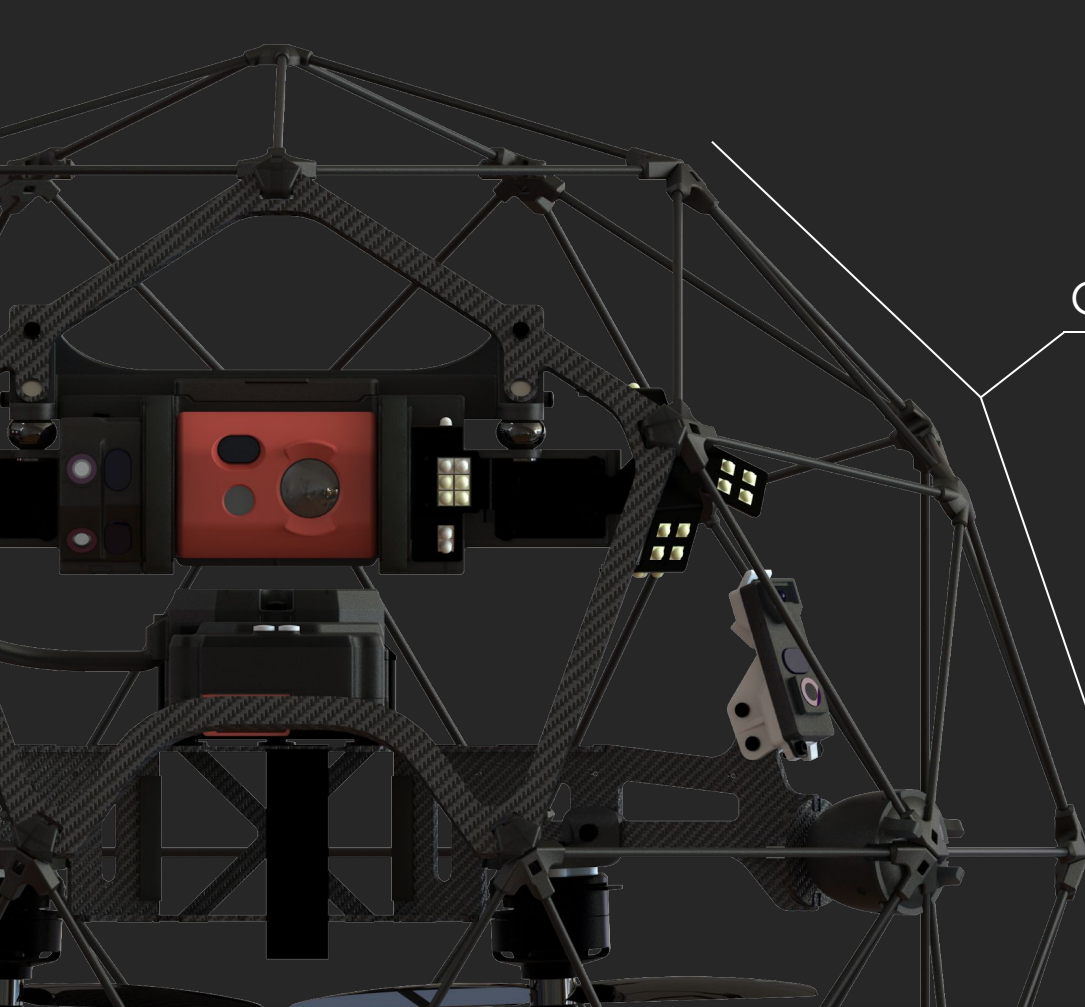
Thursday, April 30

11:30 AM EST / 05:30 PM CEST

Indoor 3D Modeling Use Cases: Photogrammetry in Action

- Laurie McBean, Geospatial Data Specialist at UAS Inc.
- Gregory Spirlet, Professional Services Engineer at Flyability

<https://www.flyability.com/news/user-conference-webinars>



Q&A

You can also send your questions to:

Andrew McIntyre, Pix4D - training@pix4d.com

Marc Gandillon, Flyability - mg@flyability.com

Alexandre Meldem, Flyability - ame@flyability.com

Johan Mlouka, Flyability - jm@flyability.com