geometius

de juiste richting...

PIX4D

Geoweetsessie Pix4D

6 Juni 2024

Andries Bosma & Walter Jansz

Welkom

Walter Jansz

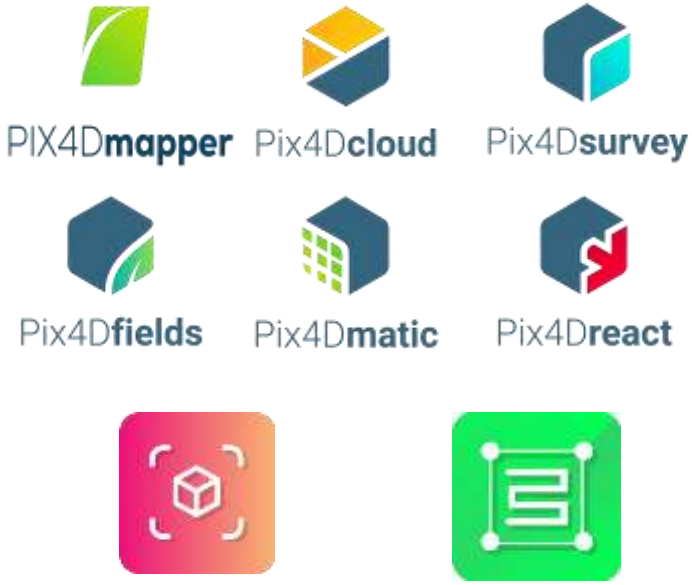
Andries Bosma

Agenda

- Introductie
- Wat voor vragen hebben jullie?
- RDNAPTRANS2018 in Pix4D
- Pix4D projecten combineren (Pix4DCatch – droneproject)
- Features in Pix4Dmatic & Pix4Dsurvey

Huidige Pix4D Line-Up

- Pix4Dmapper
- Pix4Dcloud
- Pix4Dsurvey
- Pix4Dfields
- Pix4Dmatic
- Pix4Dreact
- Pix4Dcatch
- Pix4Dcapture



Pix4Dmapper

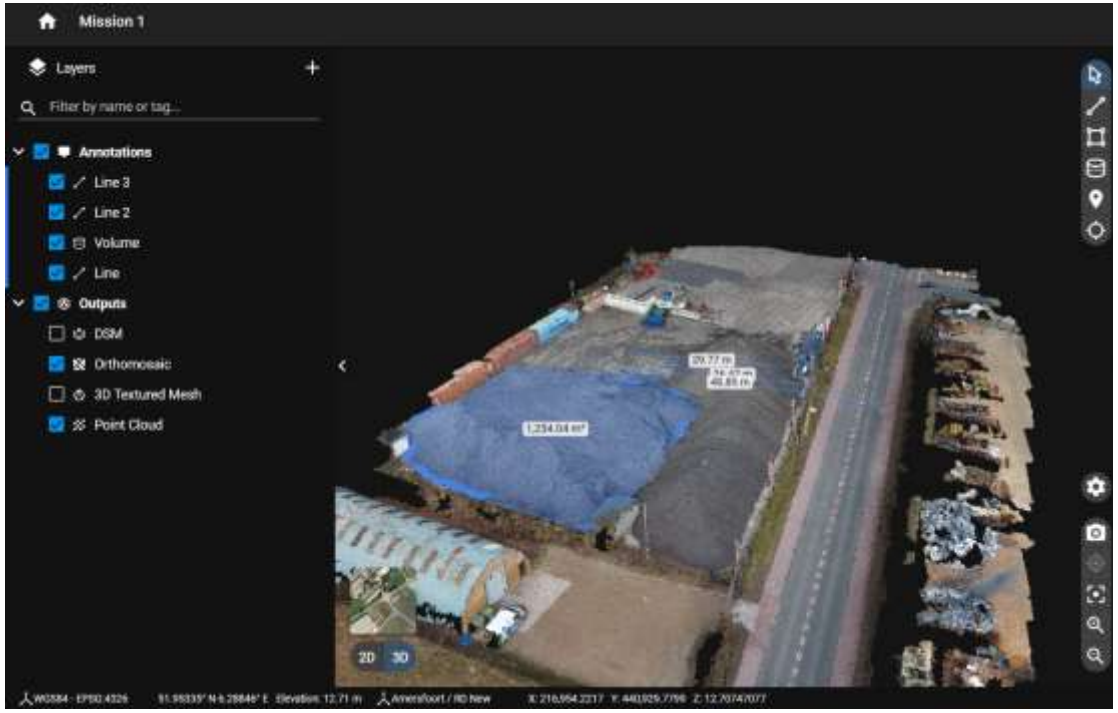
PIX4Dmapper

- Bedoeld om mbv. fotogrammetrie beelden tot een 3d model (puntenwolk etc.) te verwerken.

Pix4Dcloud

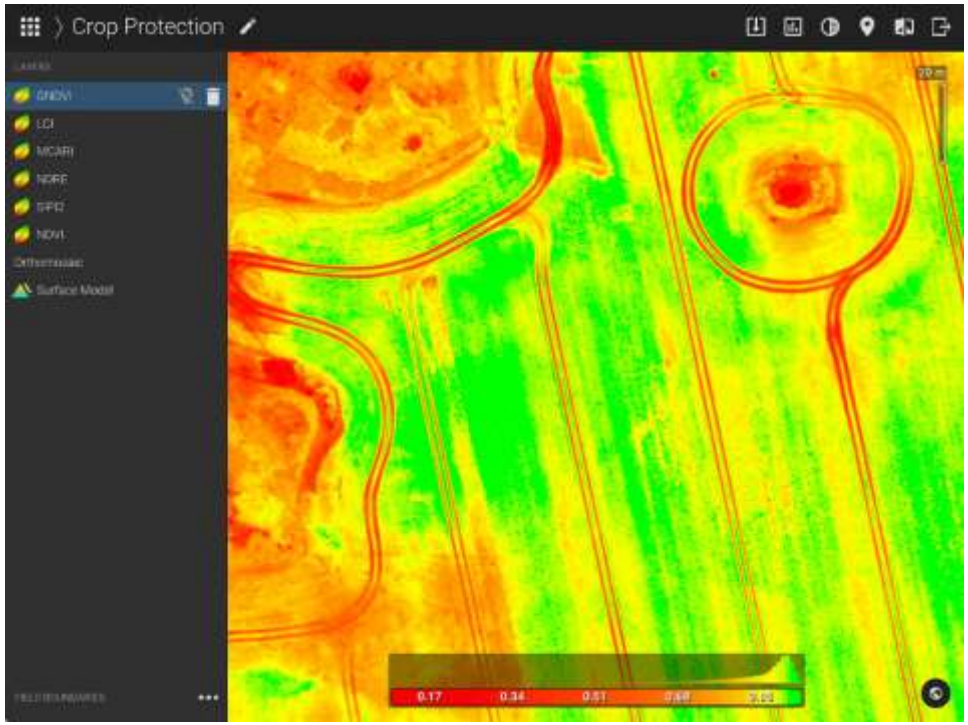
Pix4Dcloud

- Bedoeld om mbv. fotogrammetrie een 3d model van foto’s te maken (puntenwolk etc.)
- Maar dan in het cloudplatform (grotendeels geautomatiseerd)



Pix4Dfields

- Bedoeld om multispectrale beelden te verwerken tot index- en taakkaarten
- Gebruikt een andere manier van fotogrammetrie



Pix4Dmatic

Pix4Dmatic

- Bedoeld voor effectieve verwerking van grootschalige droneprojecten (bijv. BVLOS) tot 3d modellen.
- Ook snellere verwerking van andere projecten in vergelijking met Pix4DMapper

Pix4Dsurvey

- Bedoeld om in Pix4D project CAD tekeningen te maken
- Kan ook gebruik maken van puntenwolken uit o.a. een laserscanner

Pix4Dreact

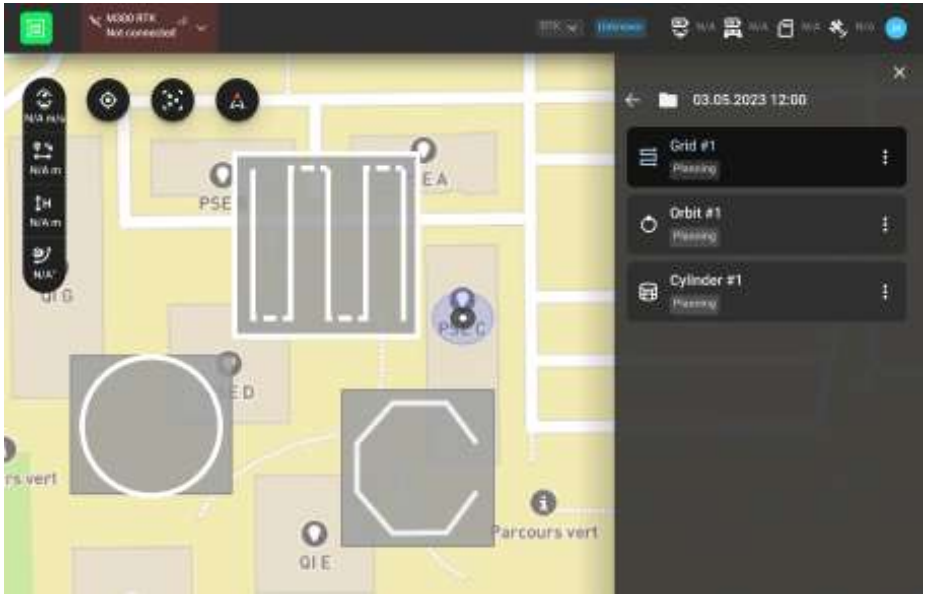
- Bedoeld voor het snel verwerken van een droneproject tot een orthofoto (orthomosaic)
- Toepassingen: hulpdiensten, noodhulp na natuurrampen

Pix4Dcatch

- App in IOS/Android om op een systematische manier foto’s te nemen om tot een 3d model te verwerken in Pix4D
- Compatibel met Trimble Catalyst

Pix4Dcapture

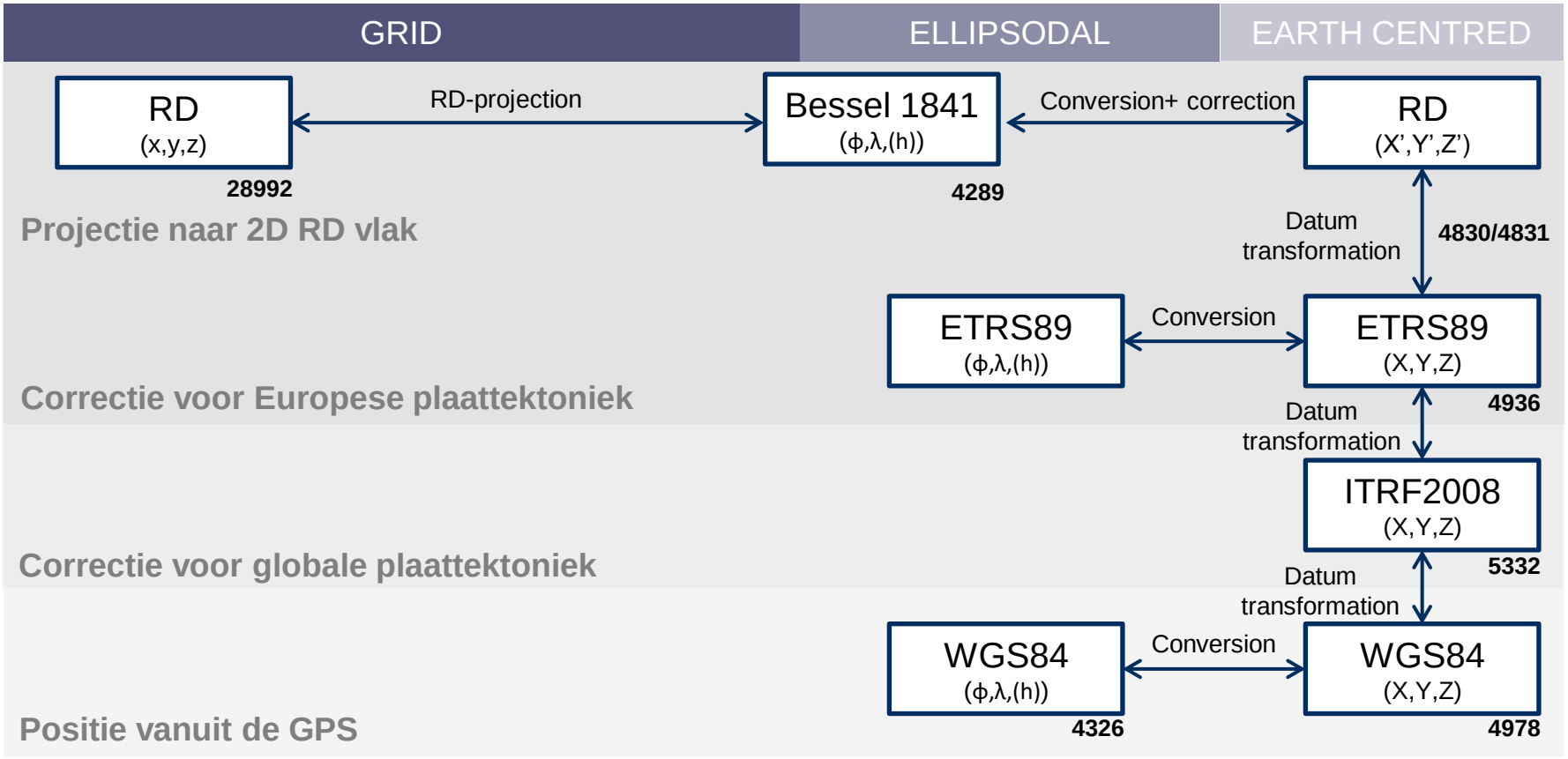
- Missieplanningsapp
- Gratis en pro-versie
- Compatibel met diverse drones van DJI/Parrot
- Meer functionaliteiten indien je een geldige Pix4D licentie hebt
  - Vlieghoogte t.o.v. terrein aanpassen
  - RTK
  - Missie planner in Pix4DCloud



Discussie

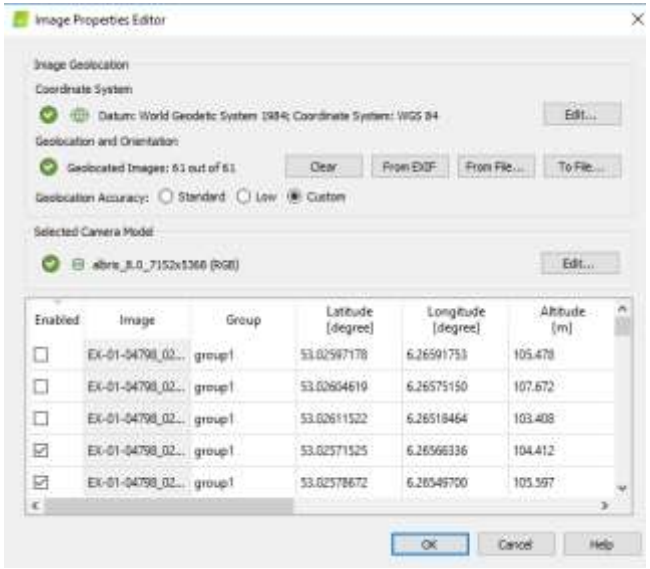
- Welke Pix4D applicaties gebruikt iedereen?

Van GPS coördinaten naar RD2018



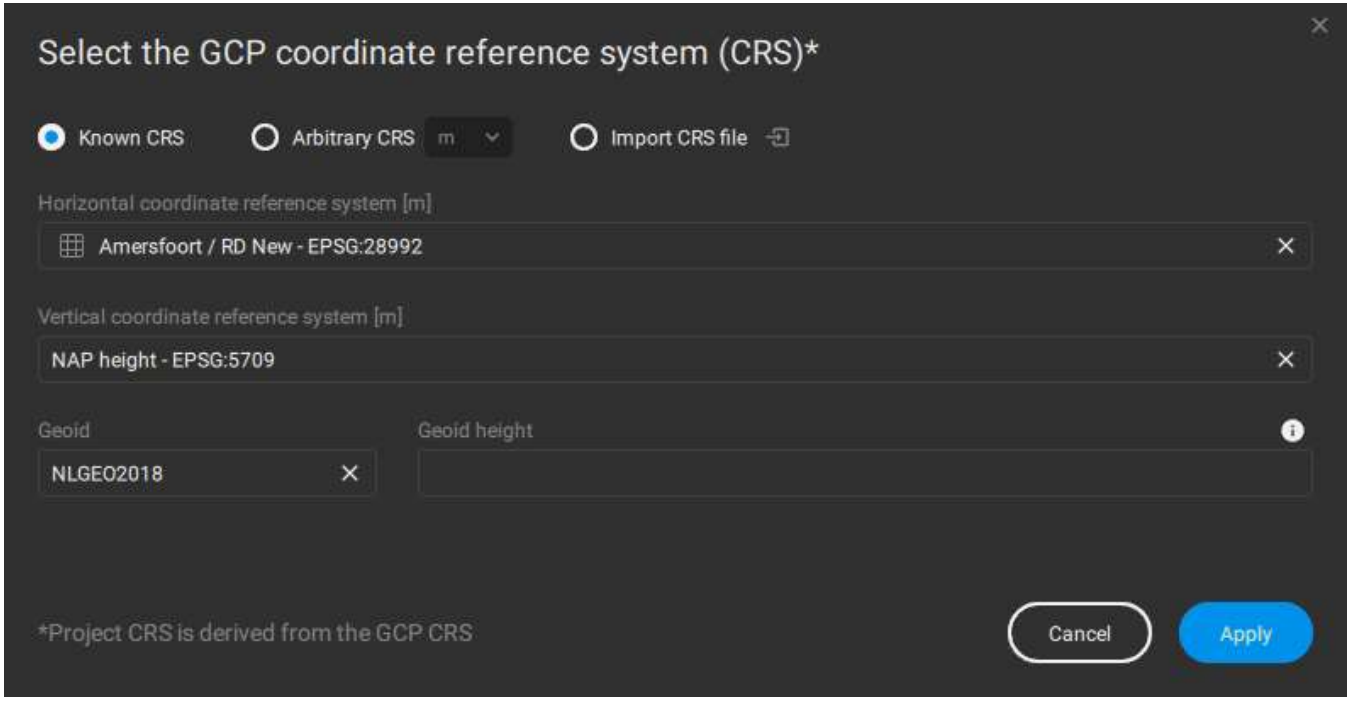
Wat betekent dit voor Pix4D?

- In Pix4Dmapper gebeurt de transformatie naar Pseudo RD (geen gridcorrectie!)
  - Daarom gebruik van Ground Control Points met punten in RD2008- RD2018 ingemeten!
  - Wanneer je RTK drone gebruikt: gebruik van Ground Control Points of corrigeer de geotags mbv. software (bijv. Trimble Business Center).



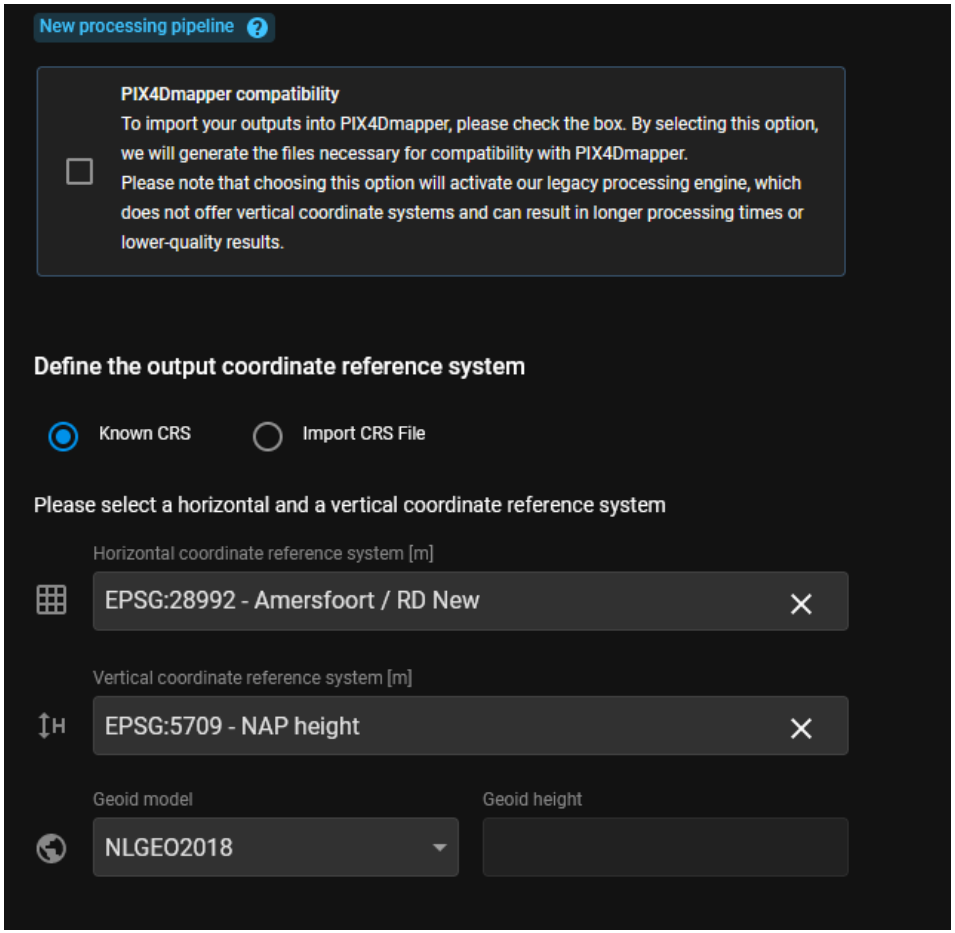
Wat betekent dit voor Pix4D?

- In Pix4Dmatic
  - NAP hoogte kan gebruikt worden



Wat betekent dit voor Pix4D?

- Pix4DCloud

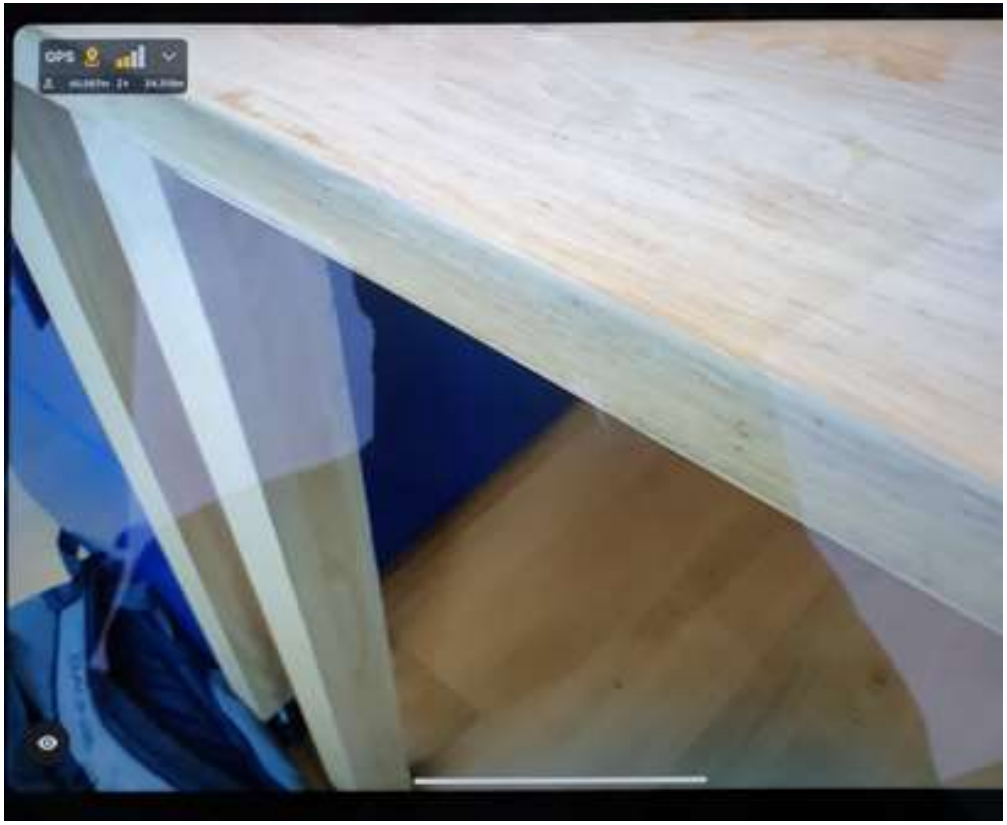


Discussie

- Gebruik je de RDNAPTRANS2018 – 2008 nu in Pix4D? Of doe je alleen maar relatieve metingen?
- Gebruik je een RTK drone?

Inwinproces

Inwinproces



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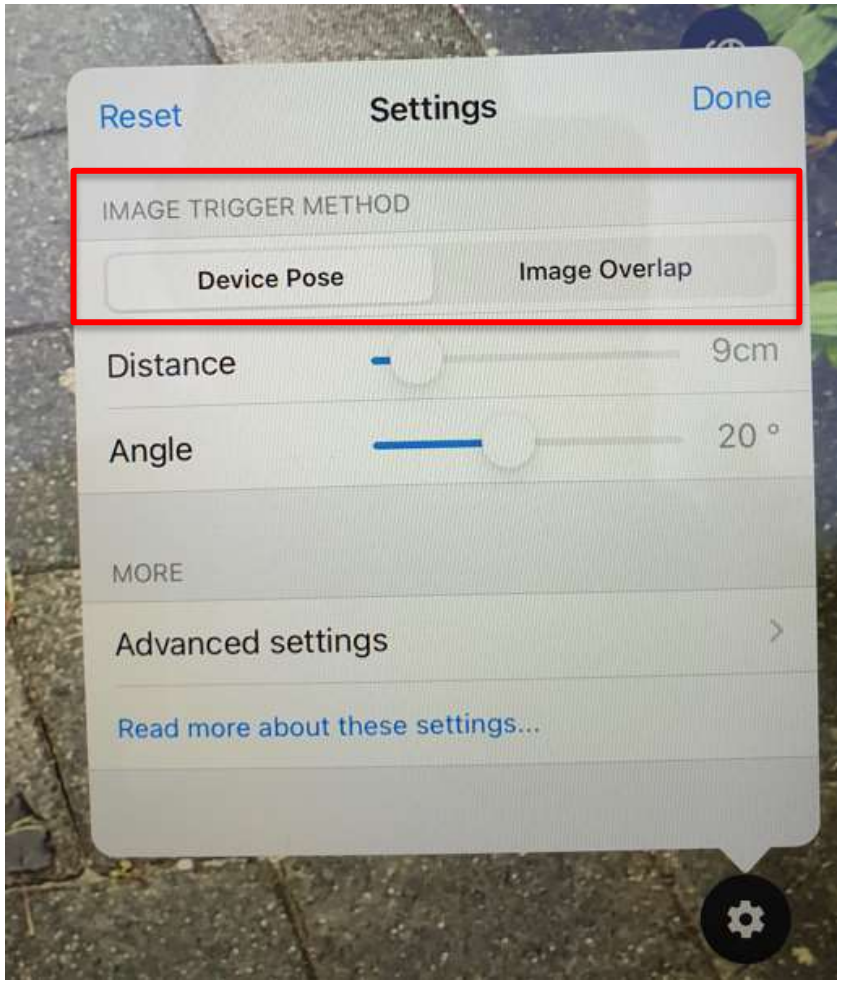

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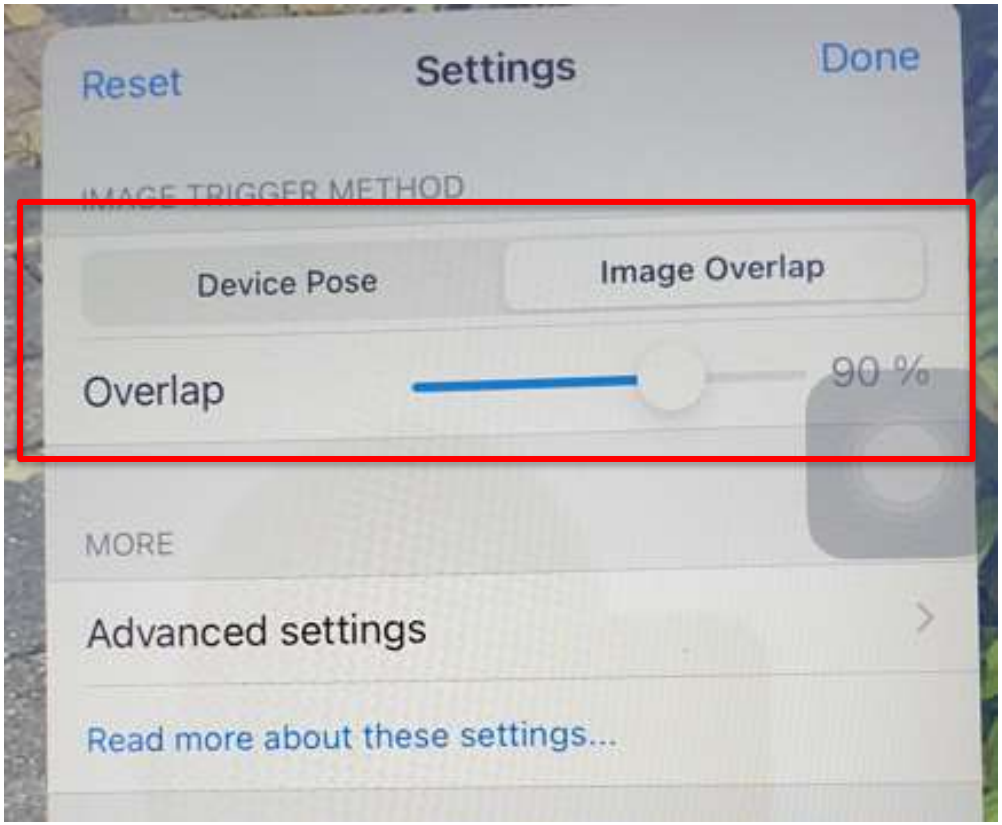
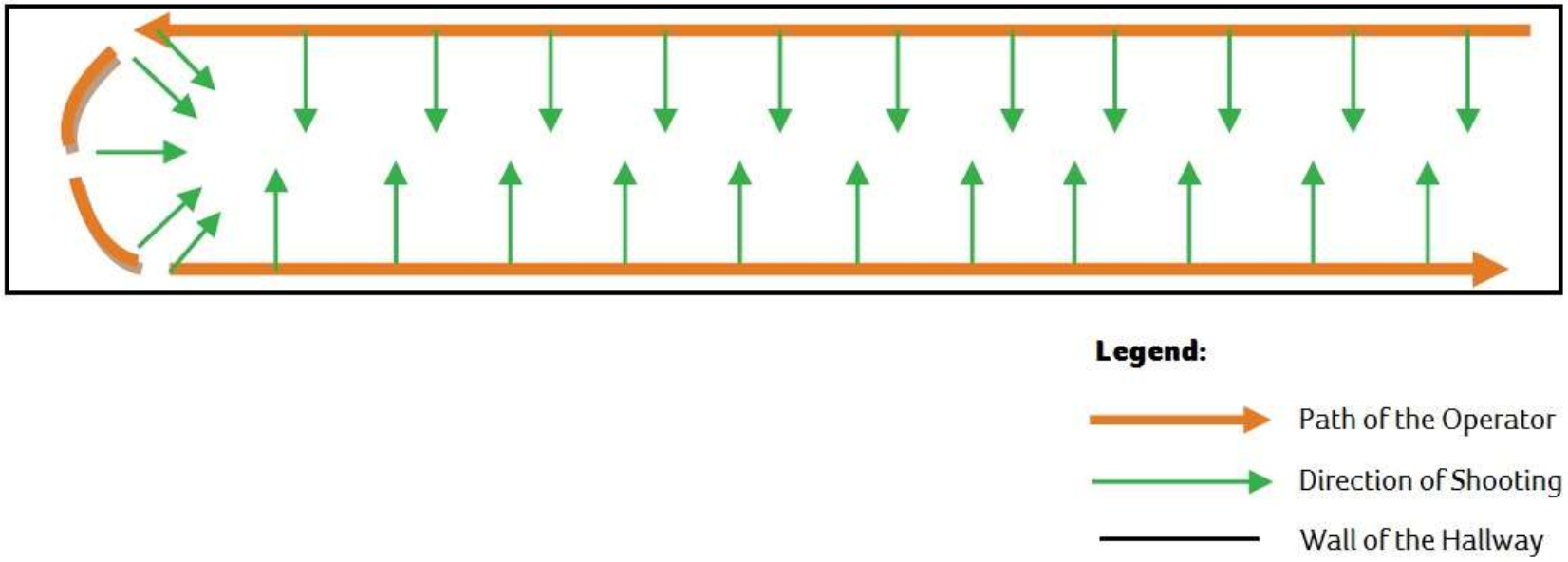
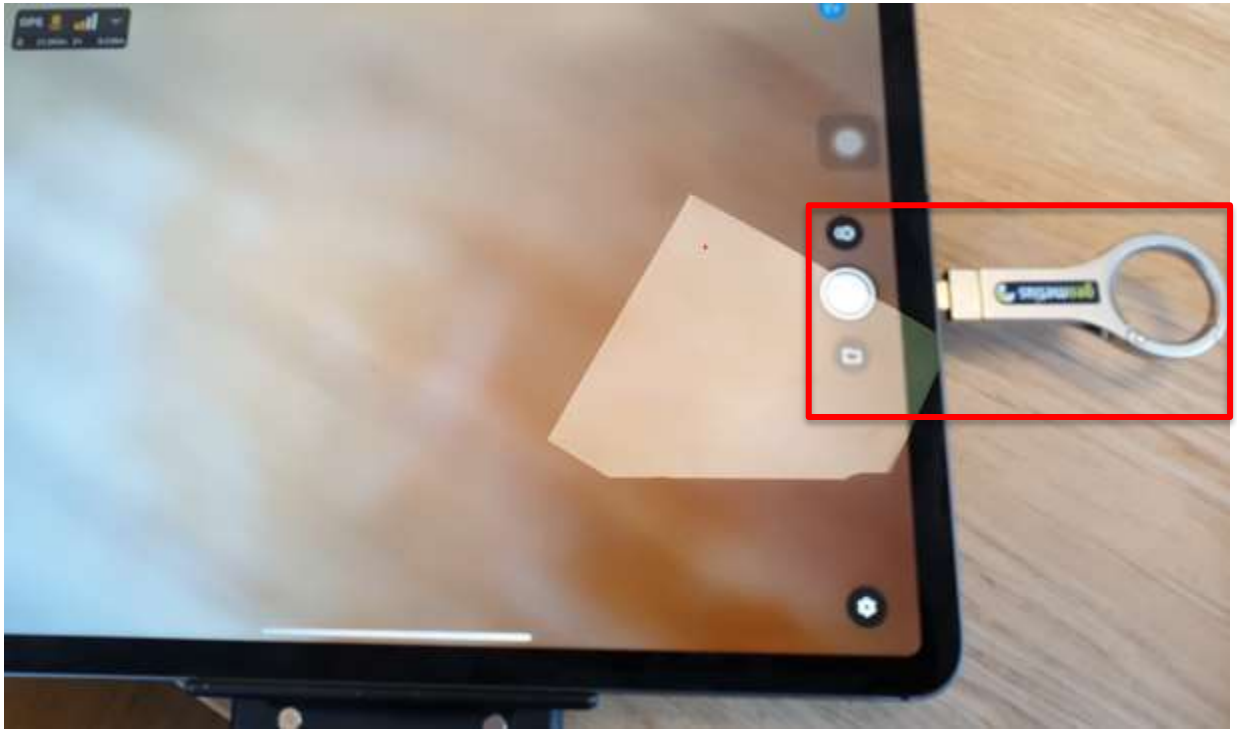


Inwinproces

- Beste benadering:
  - Rug tegen de muur en foto's loodrecht de andere kant opmaken.



Data overbrengen



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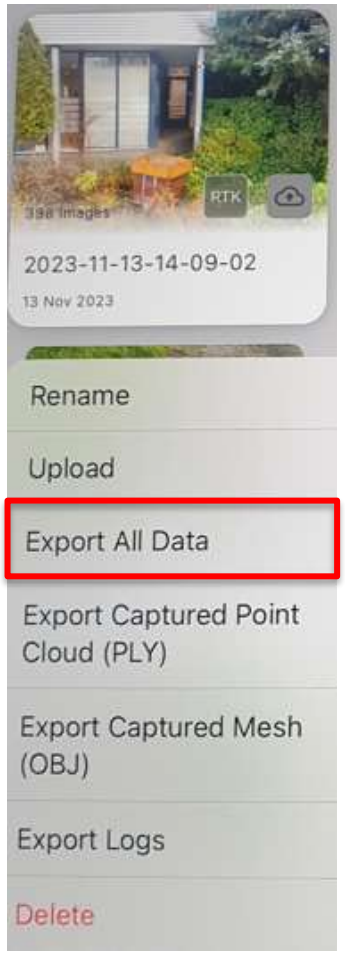
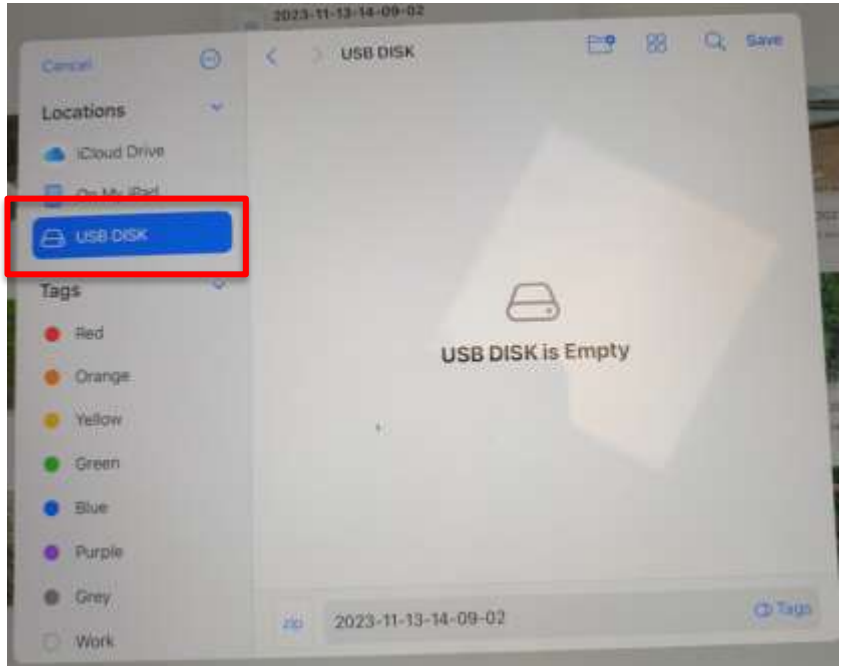
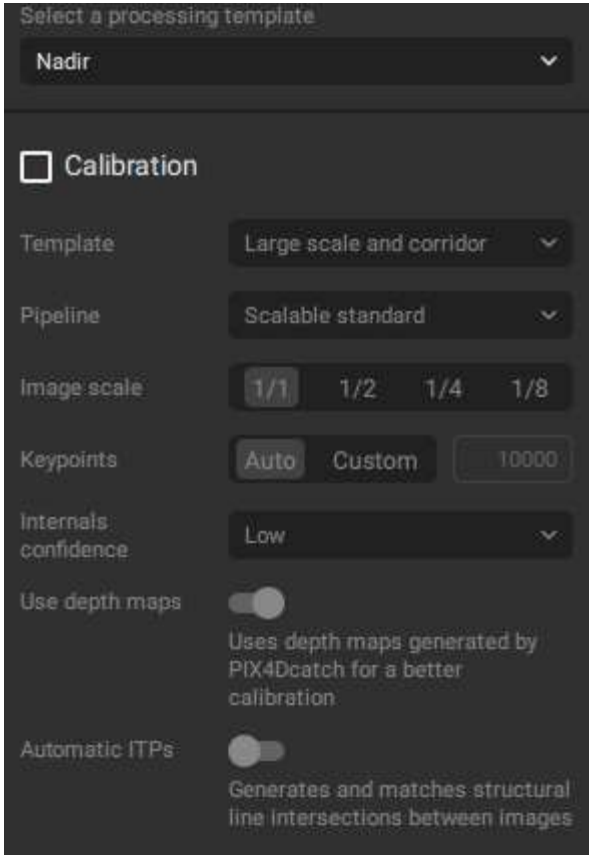
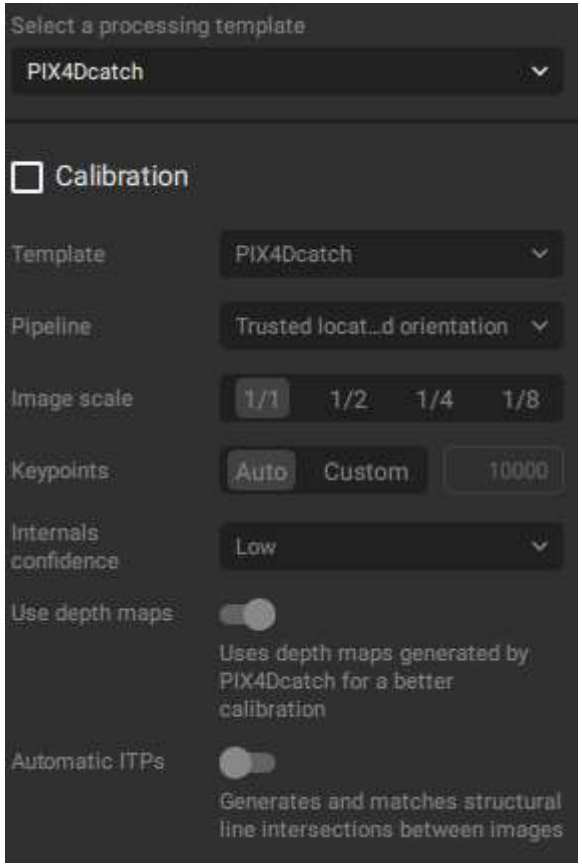




Data verwerken

Drone & terrestrische data combineren





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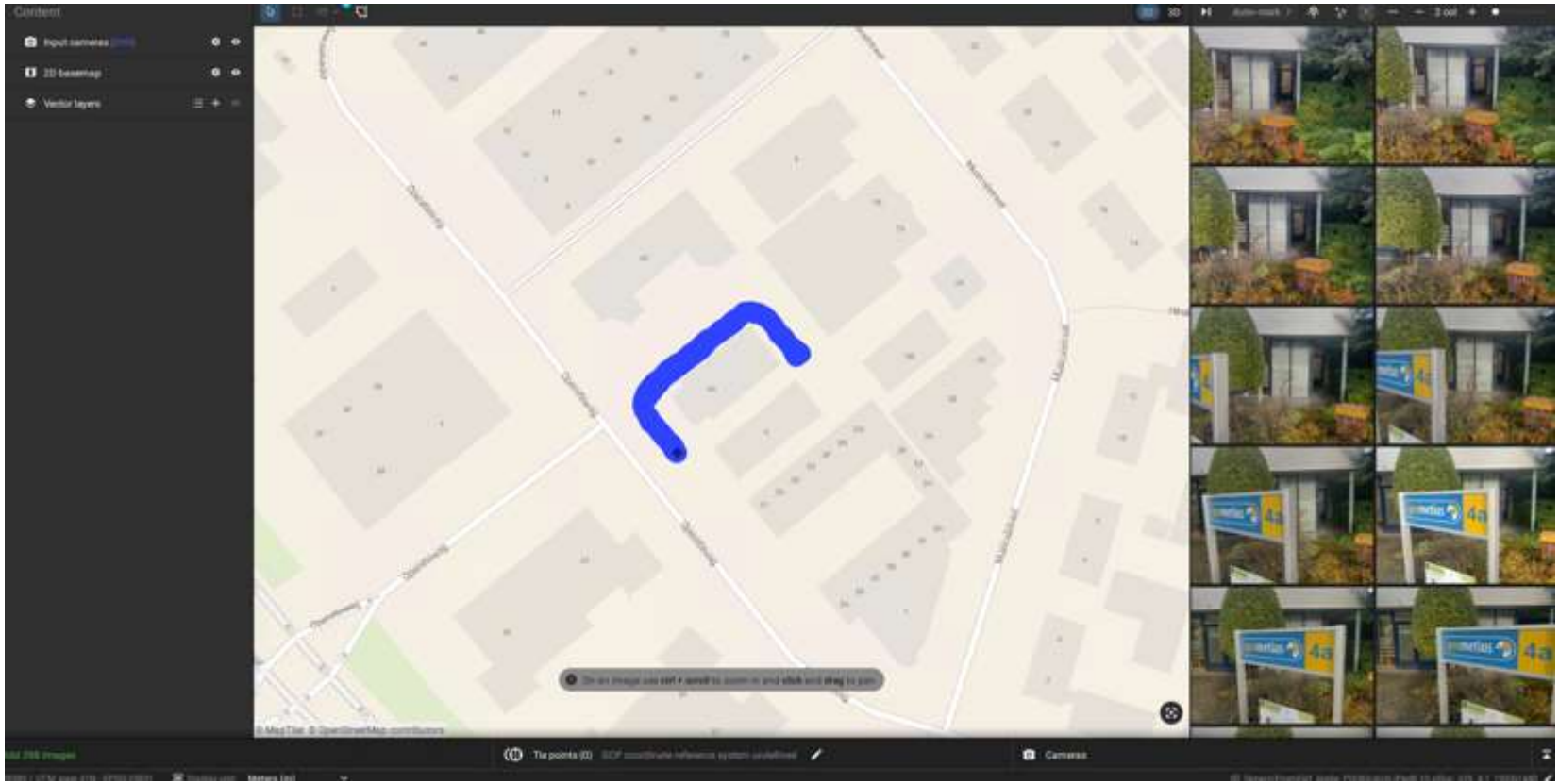

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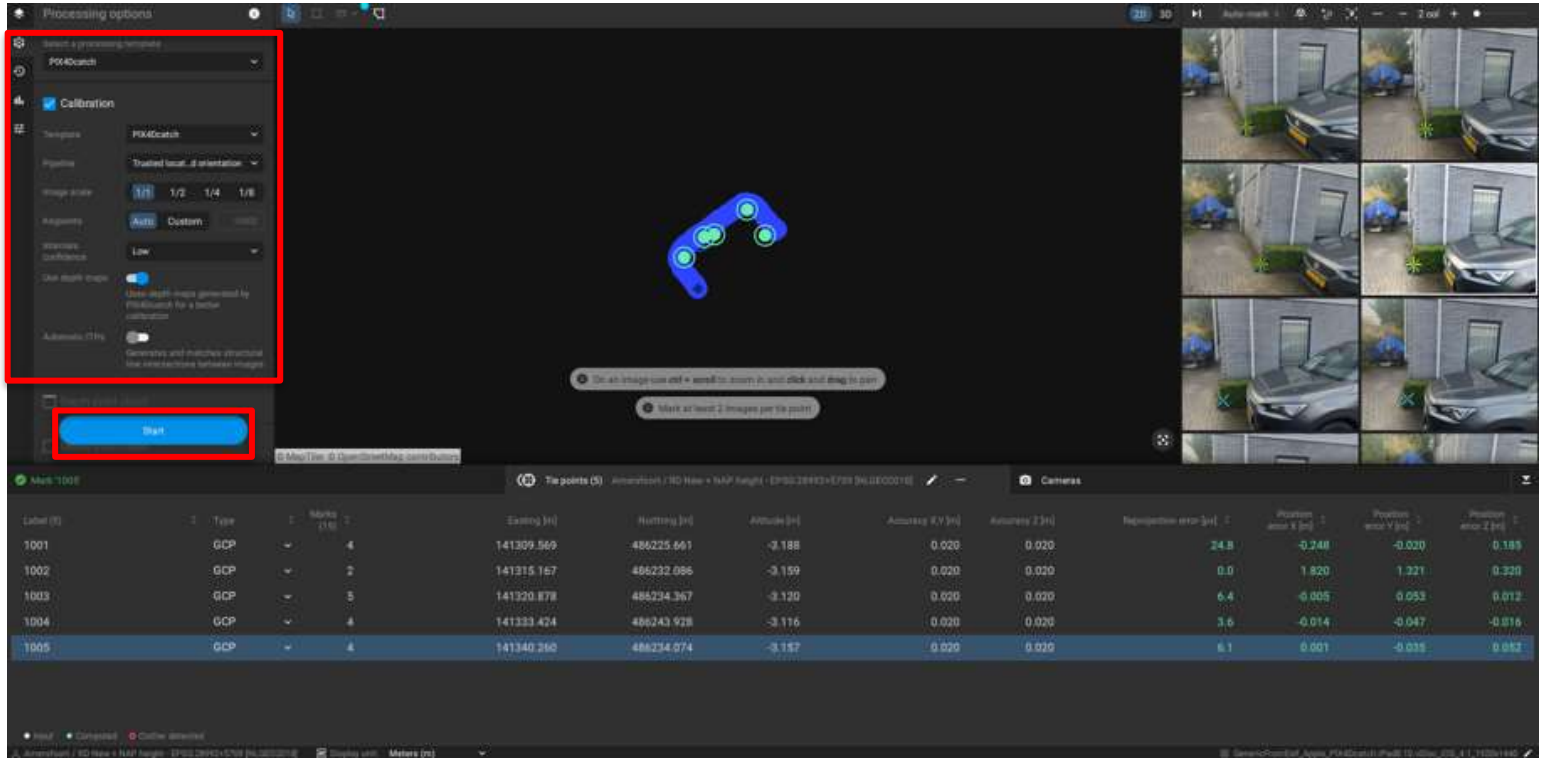

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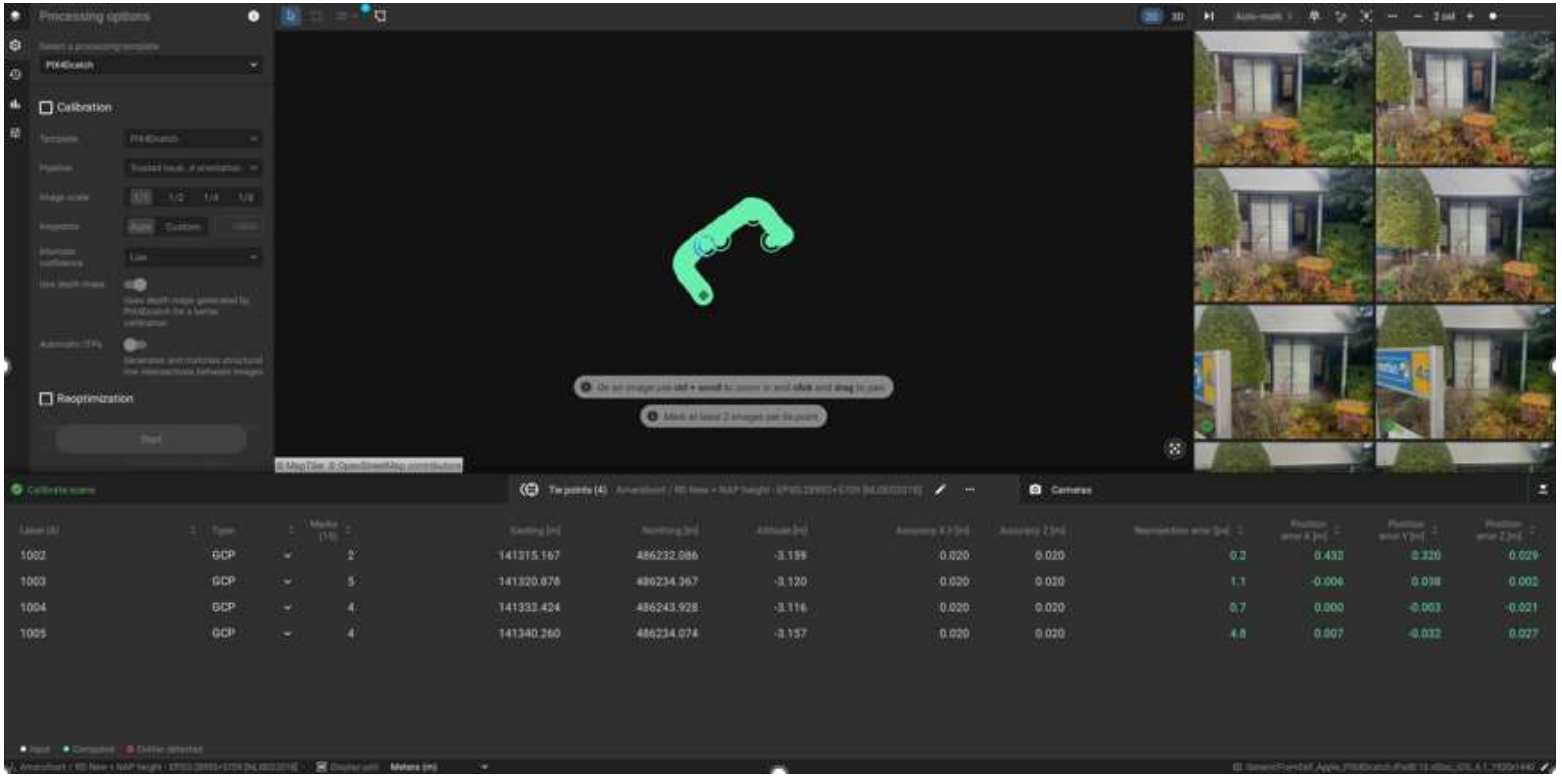

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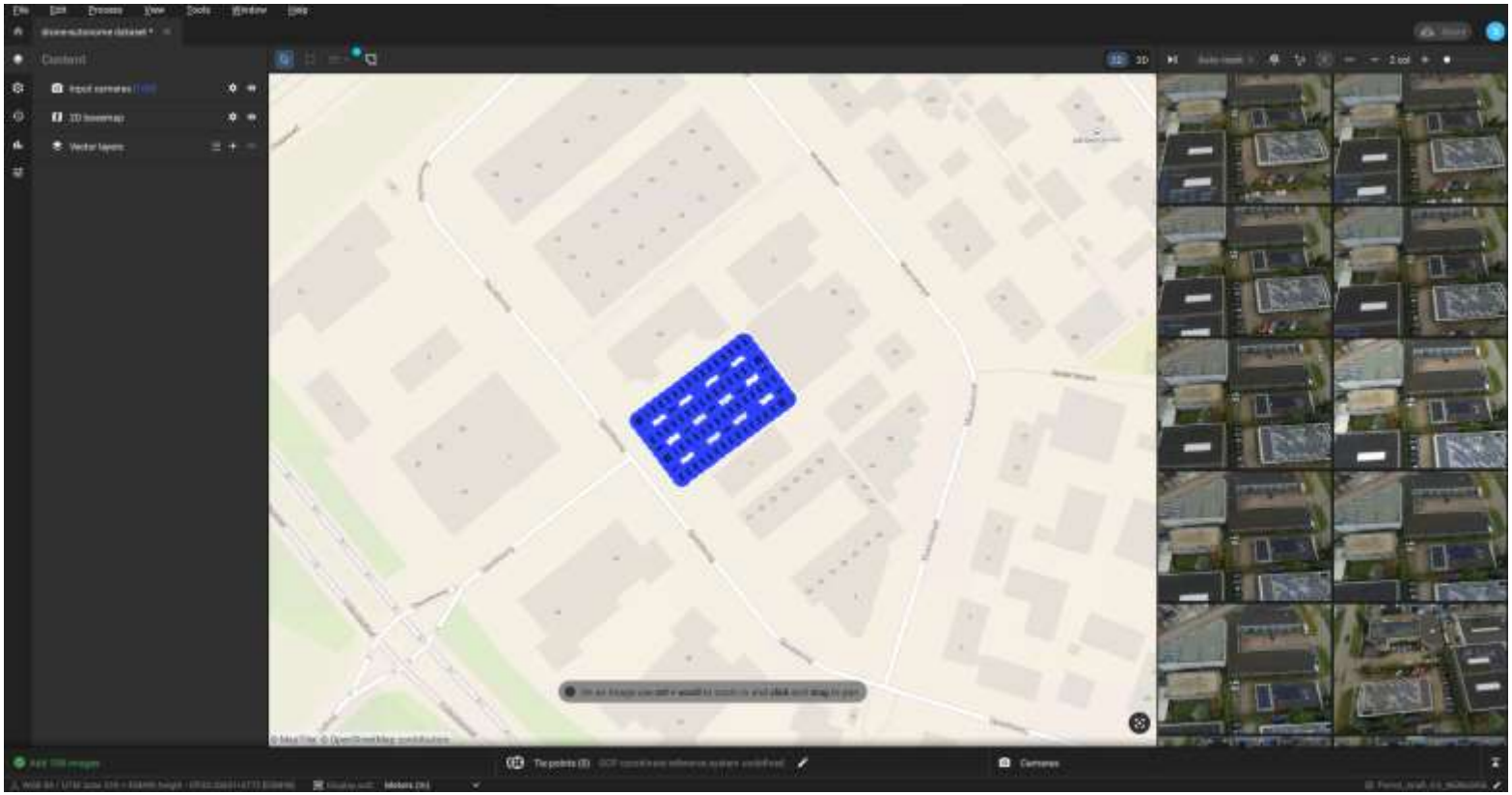

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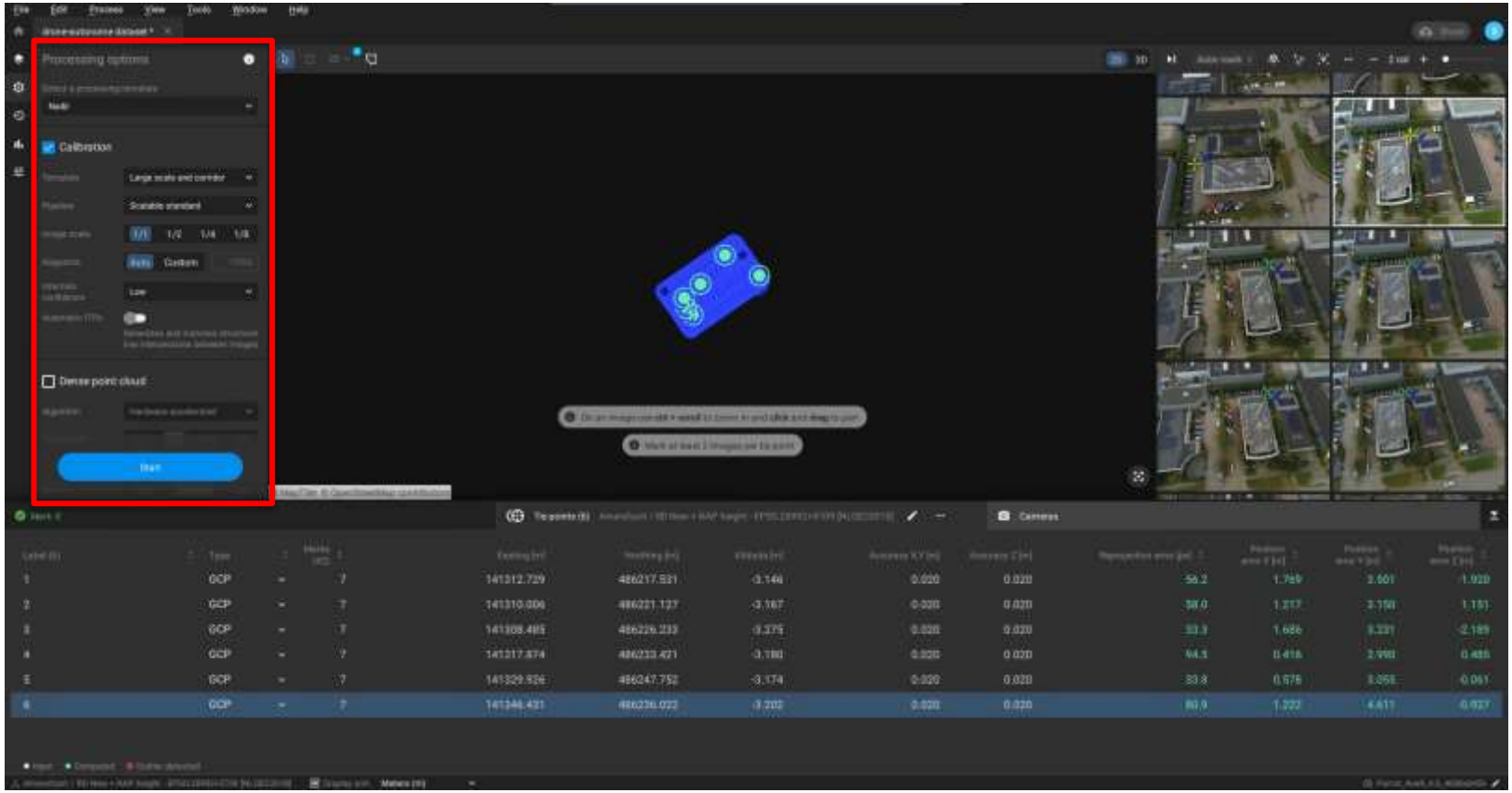

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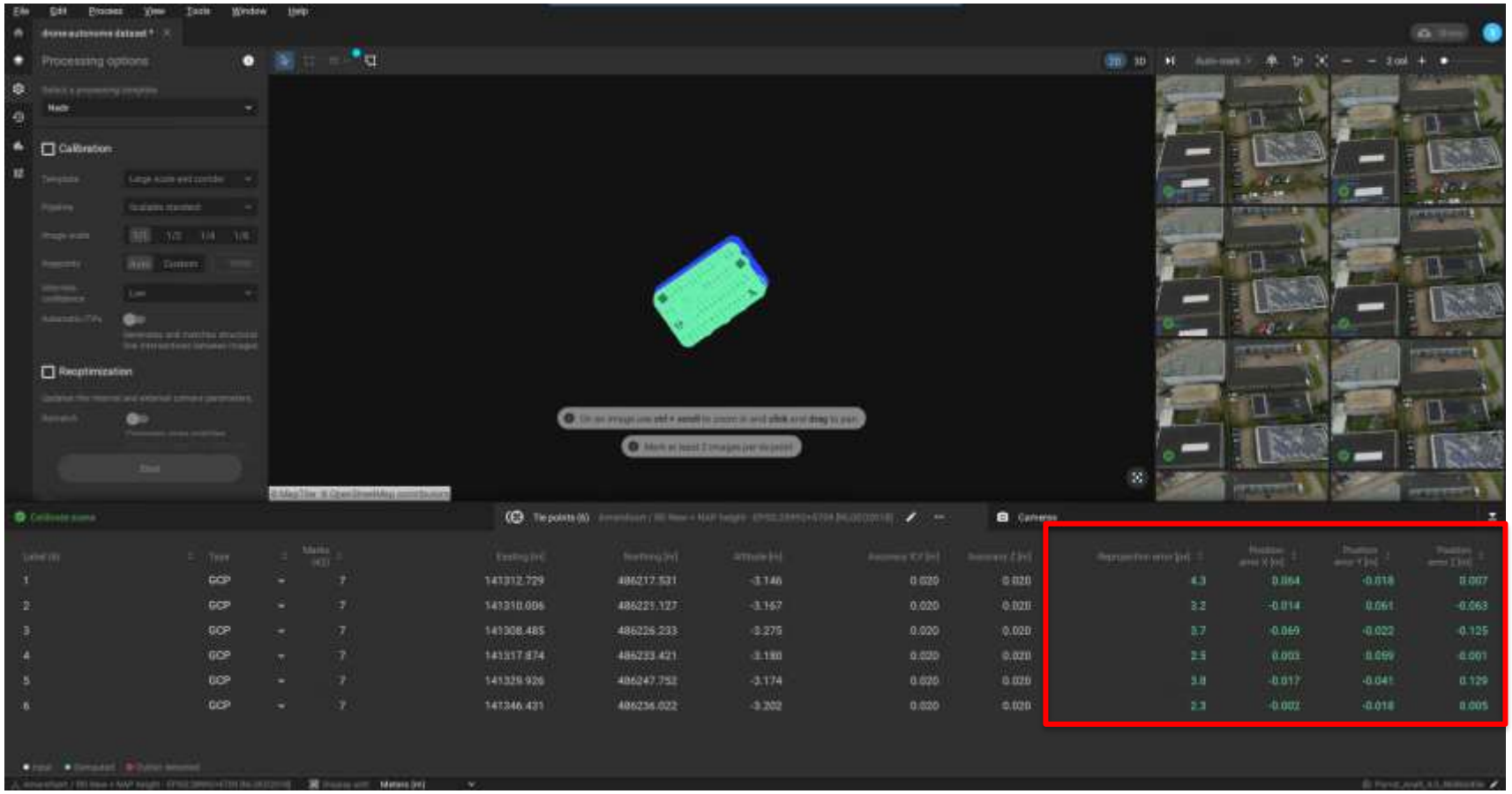

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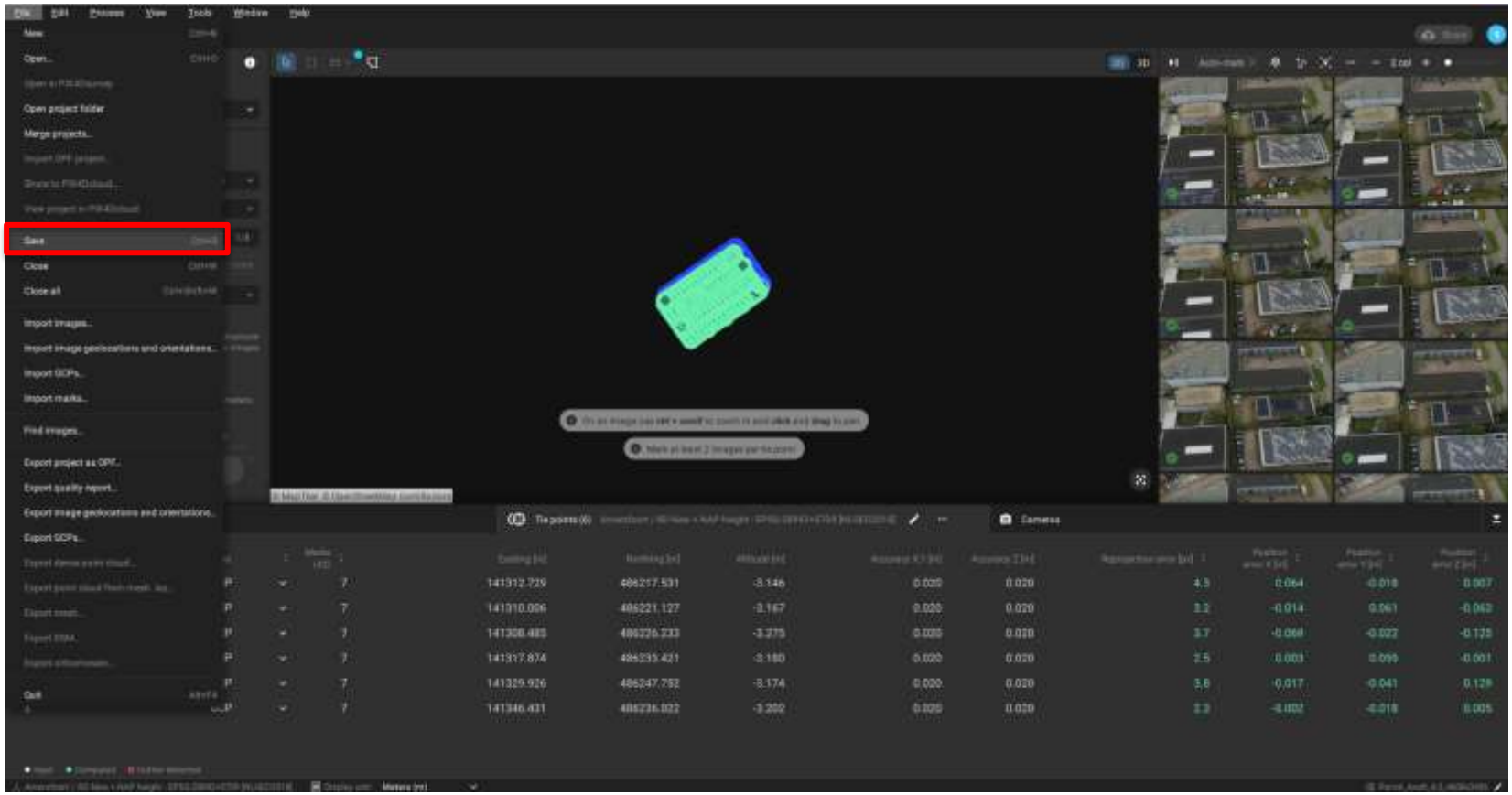

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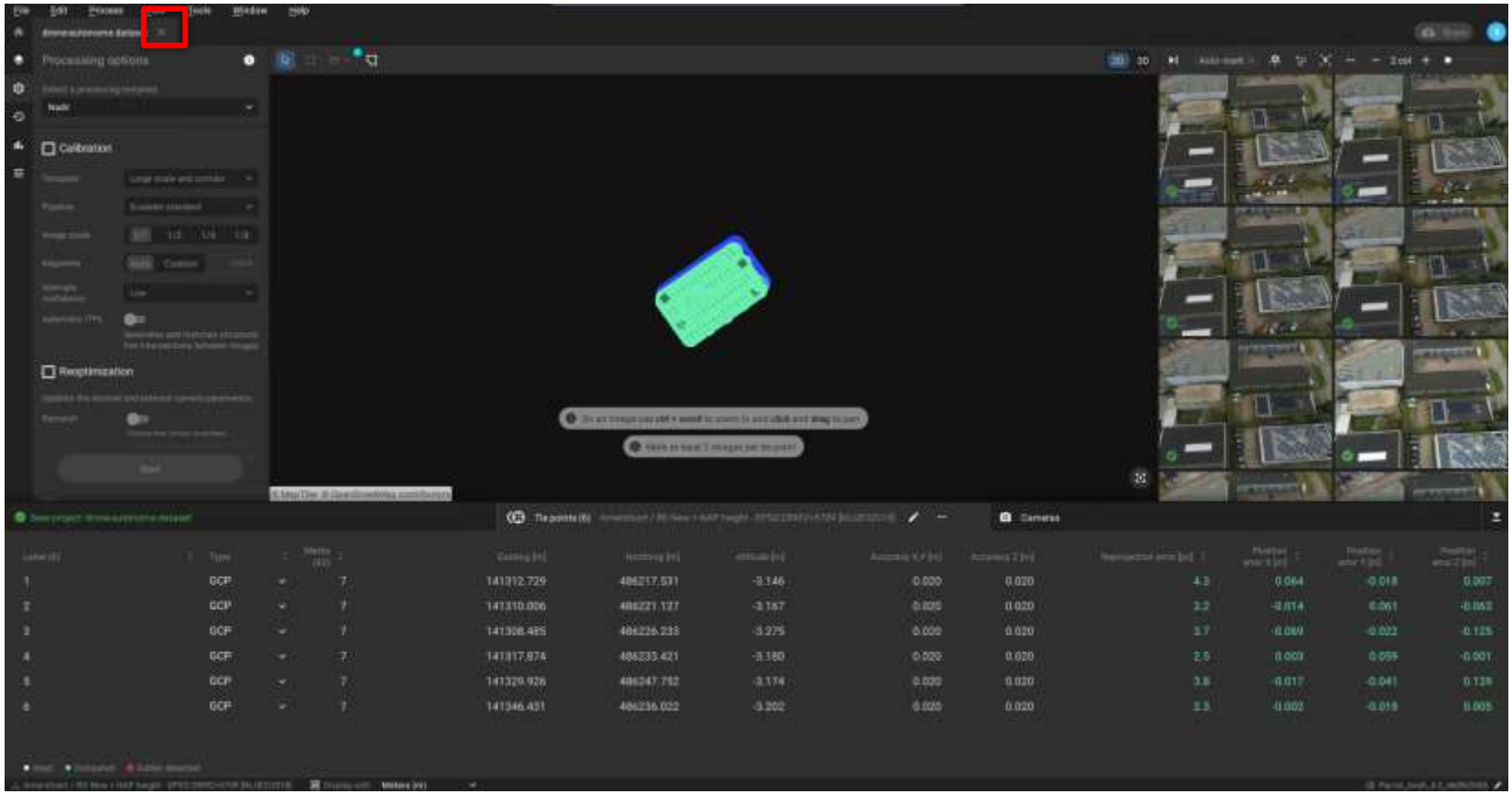

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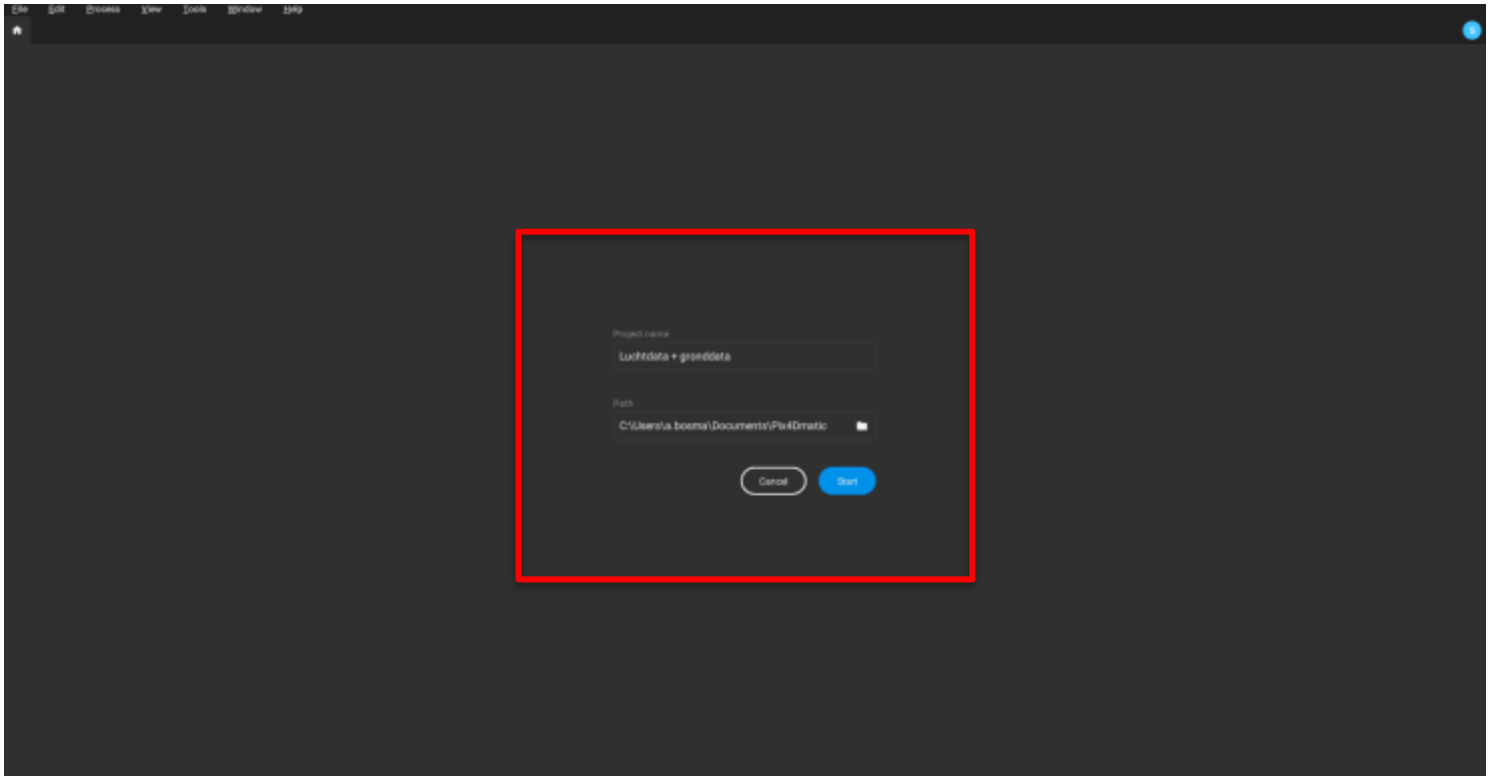

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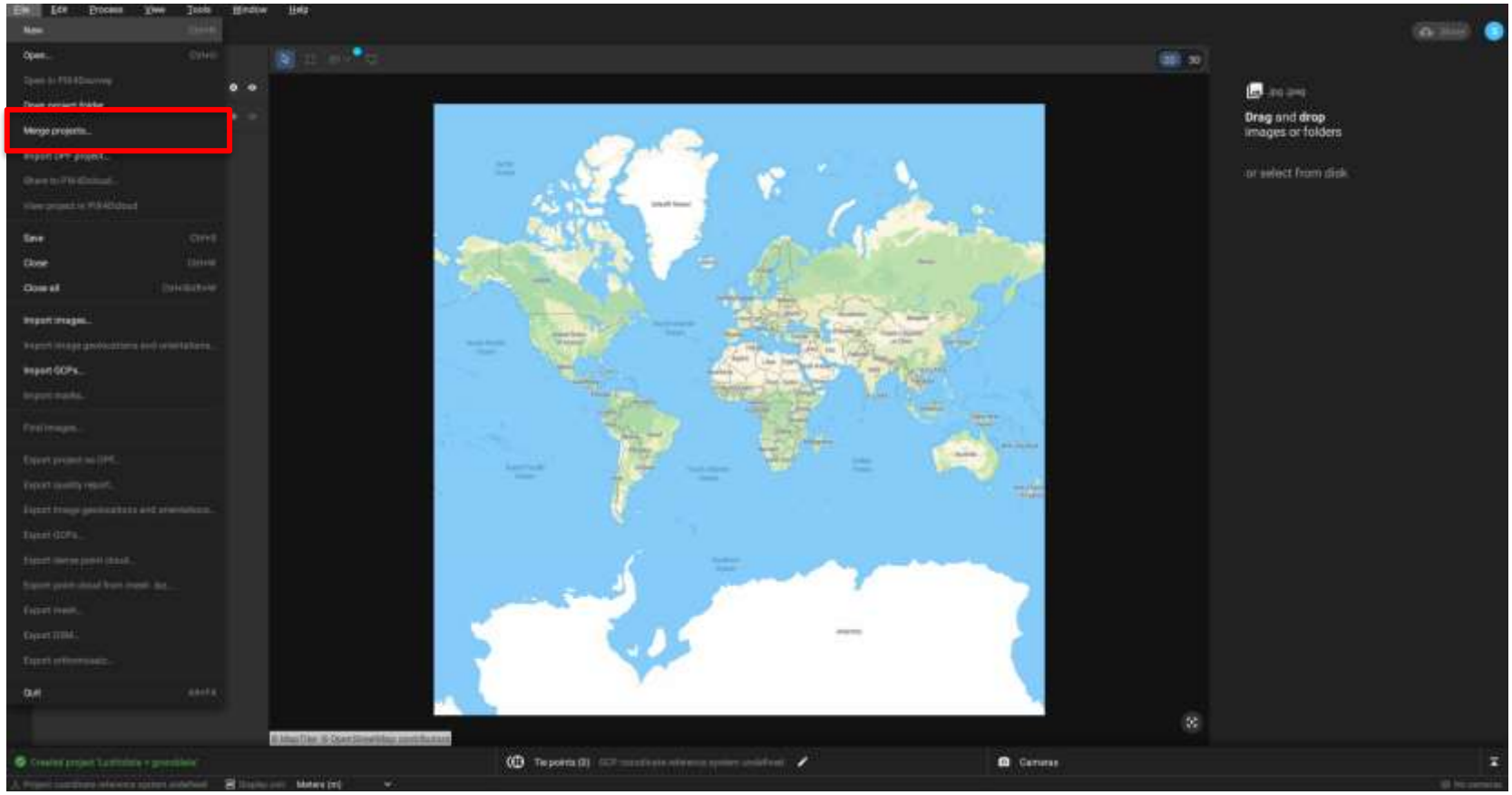

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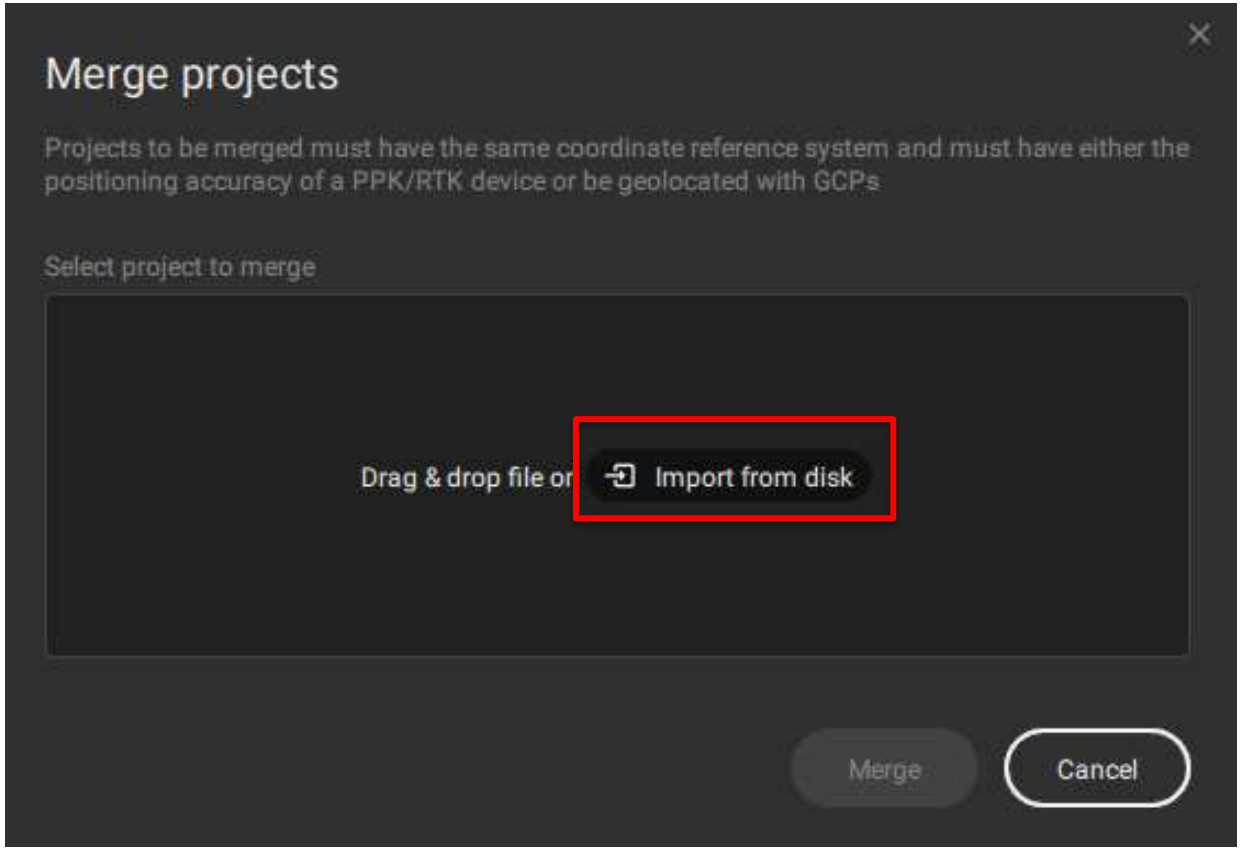

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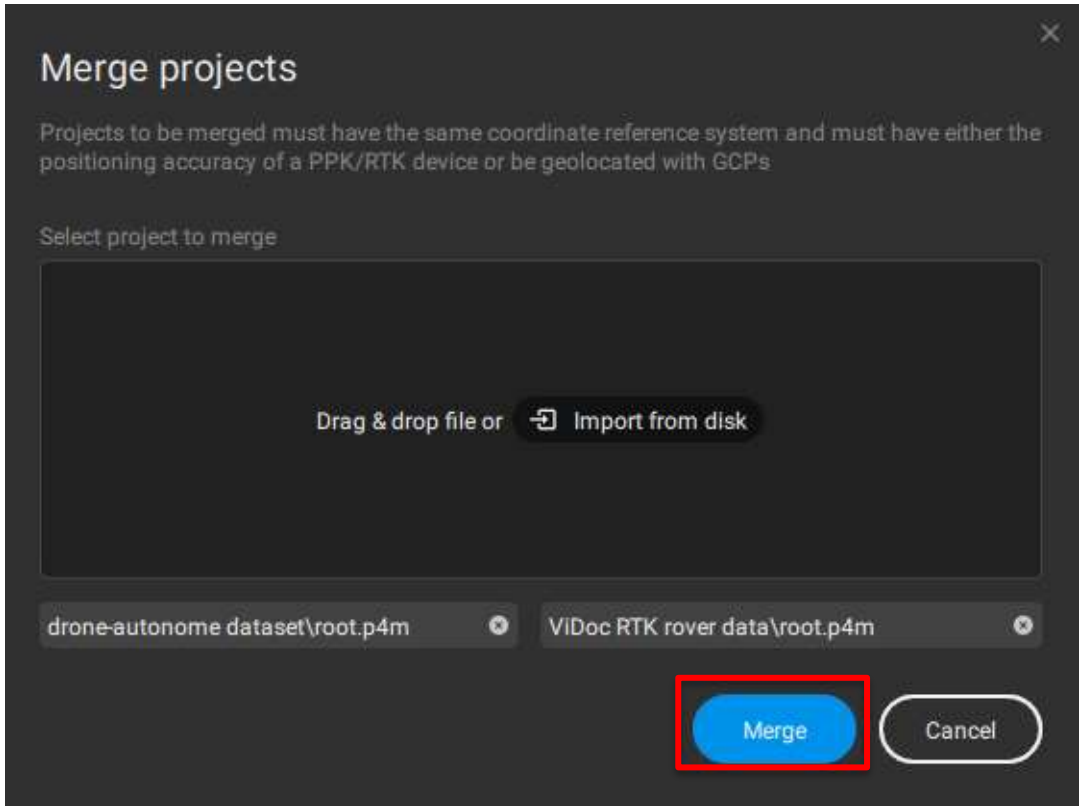

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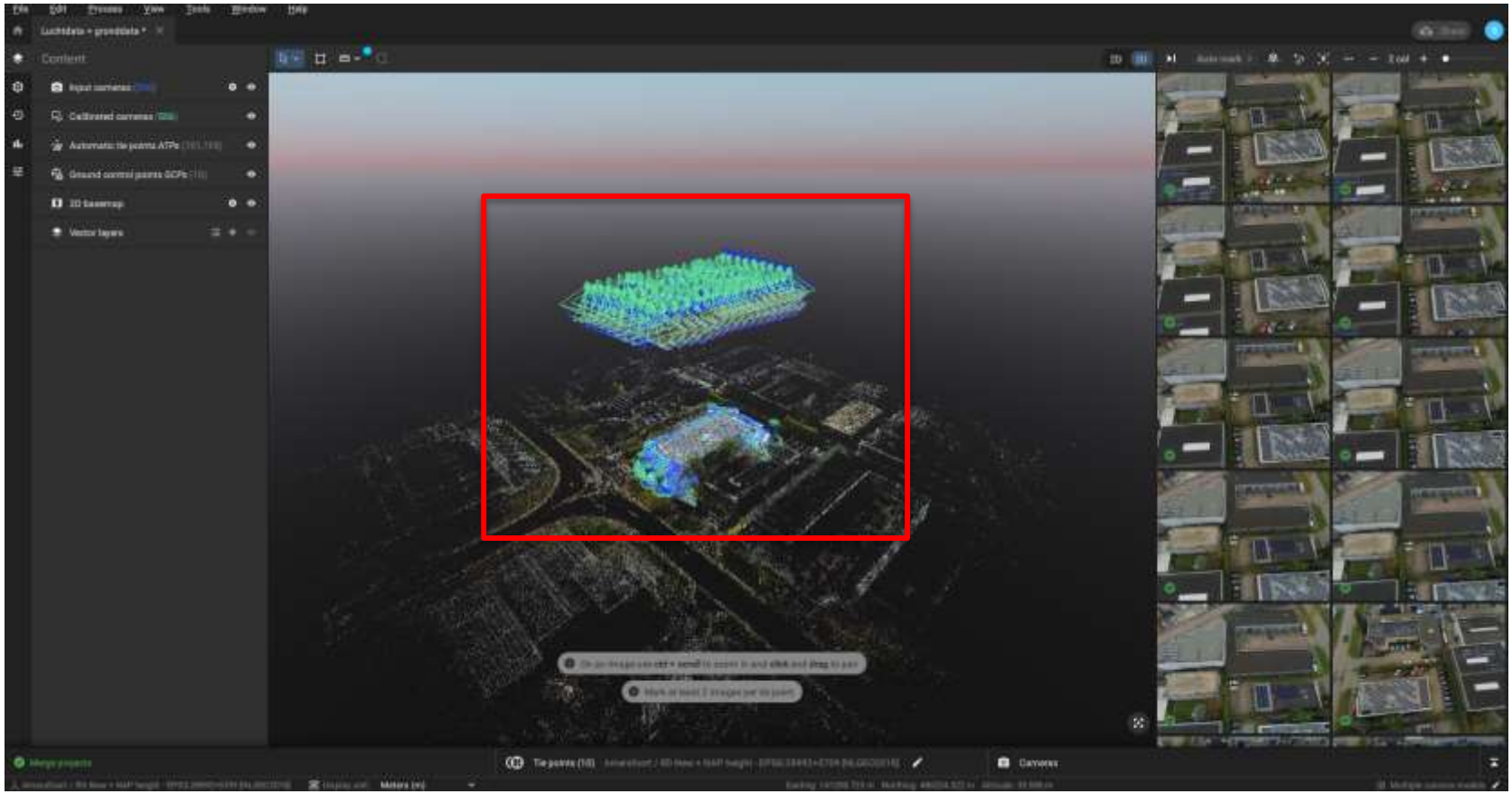

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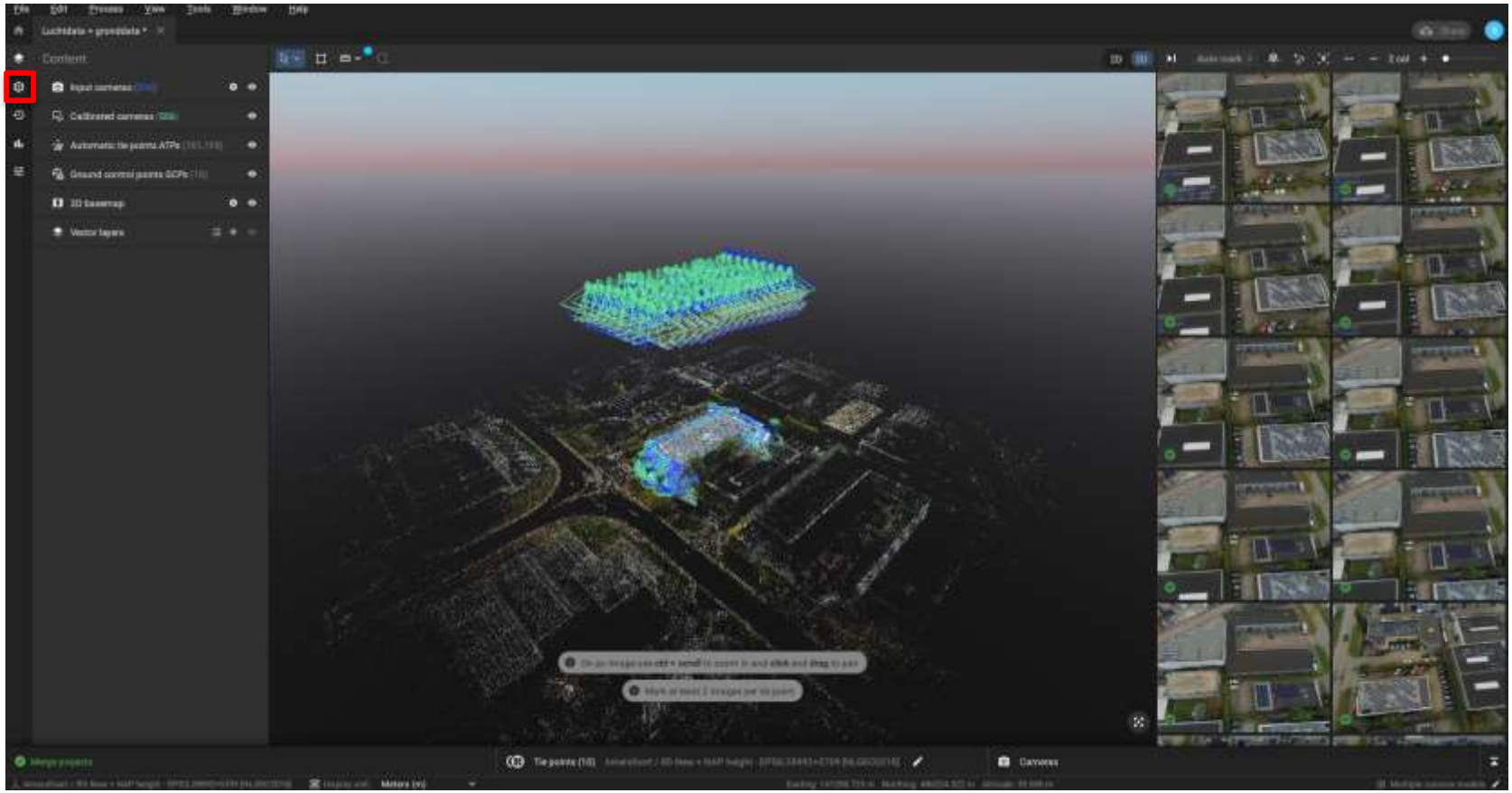

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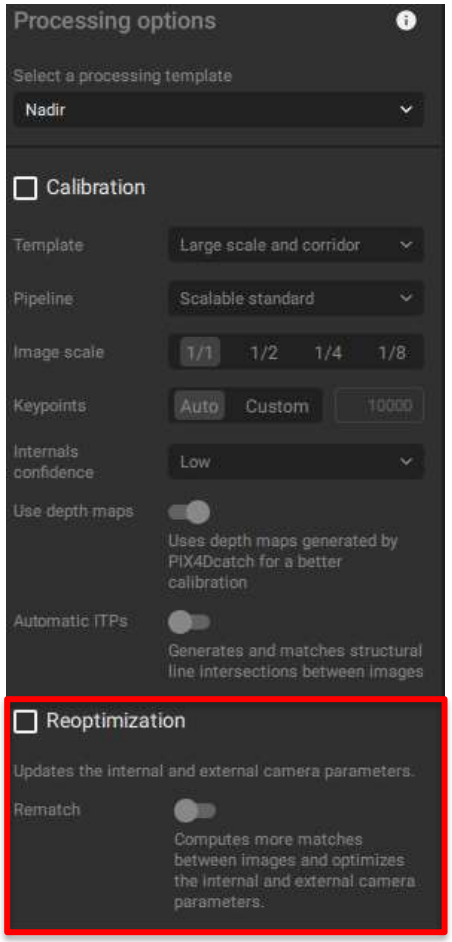

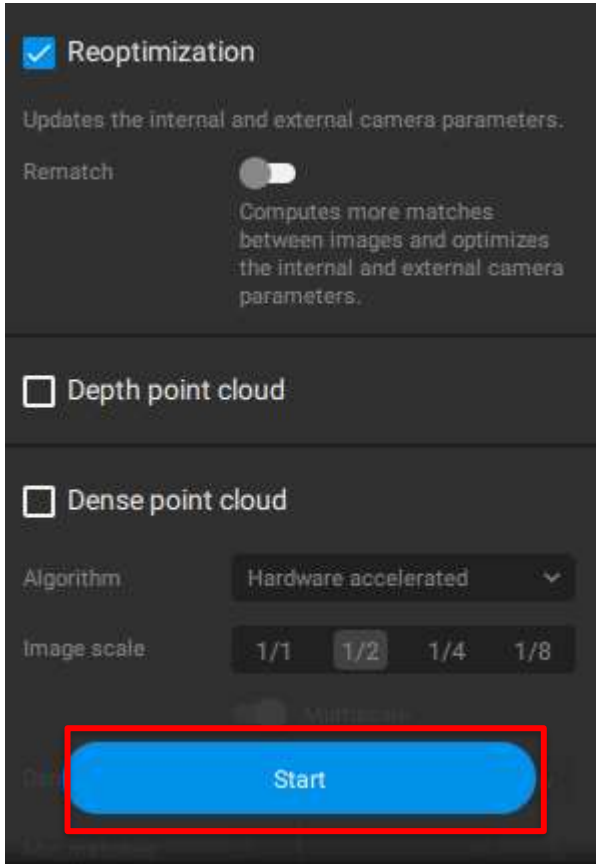

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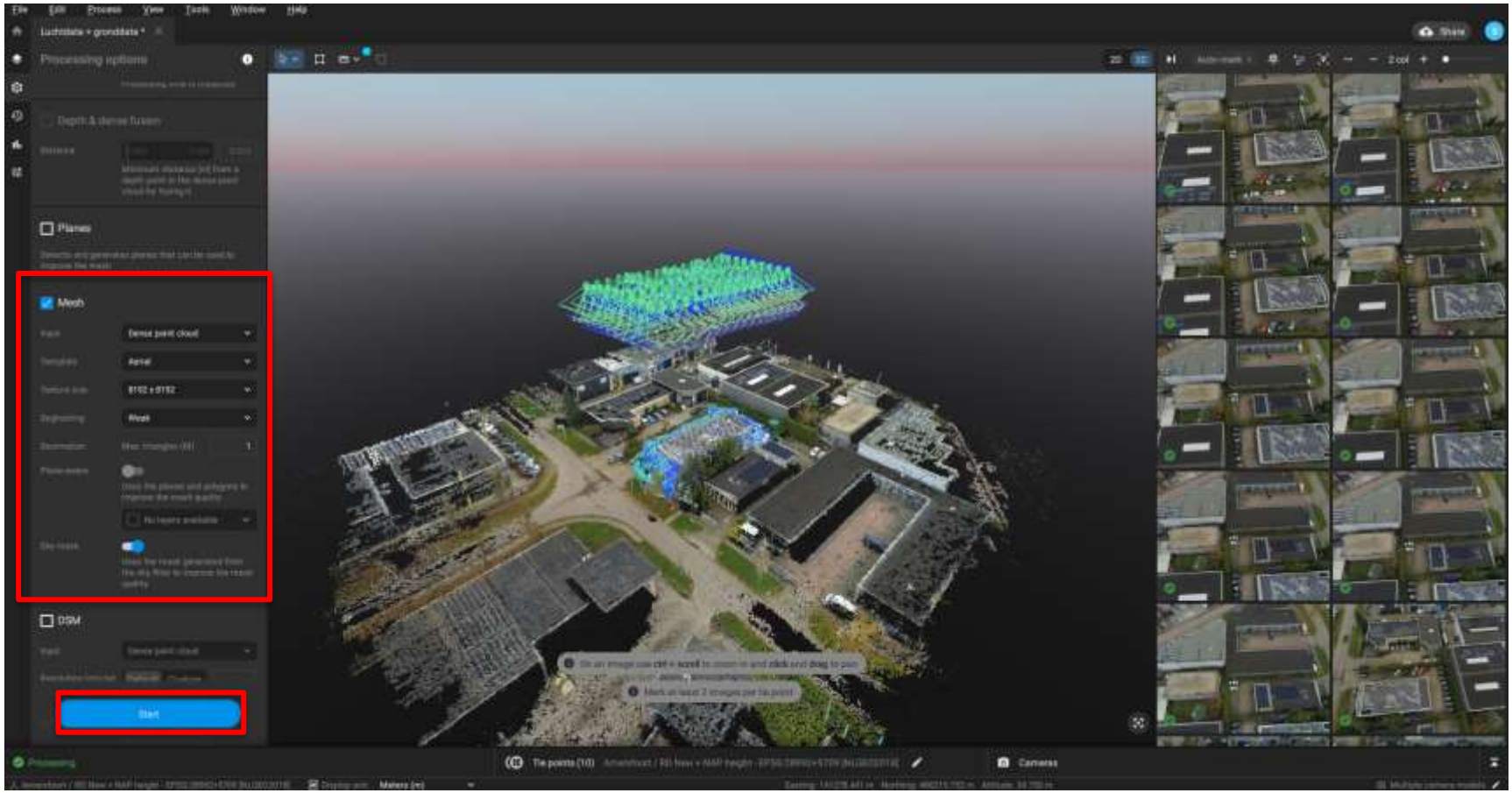

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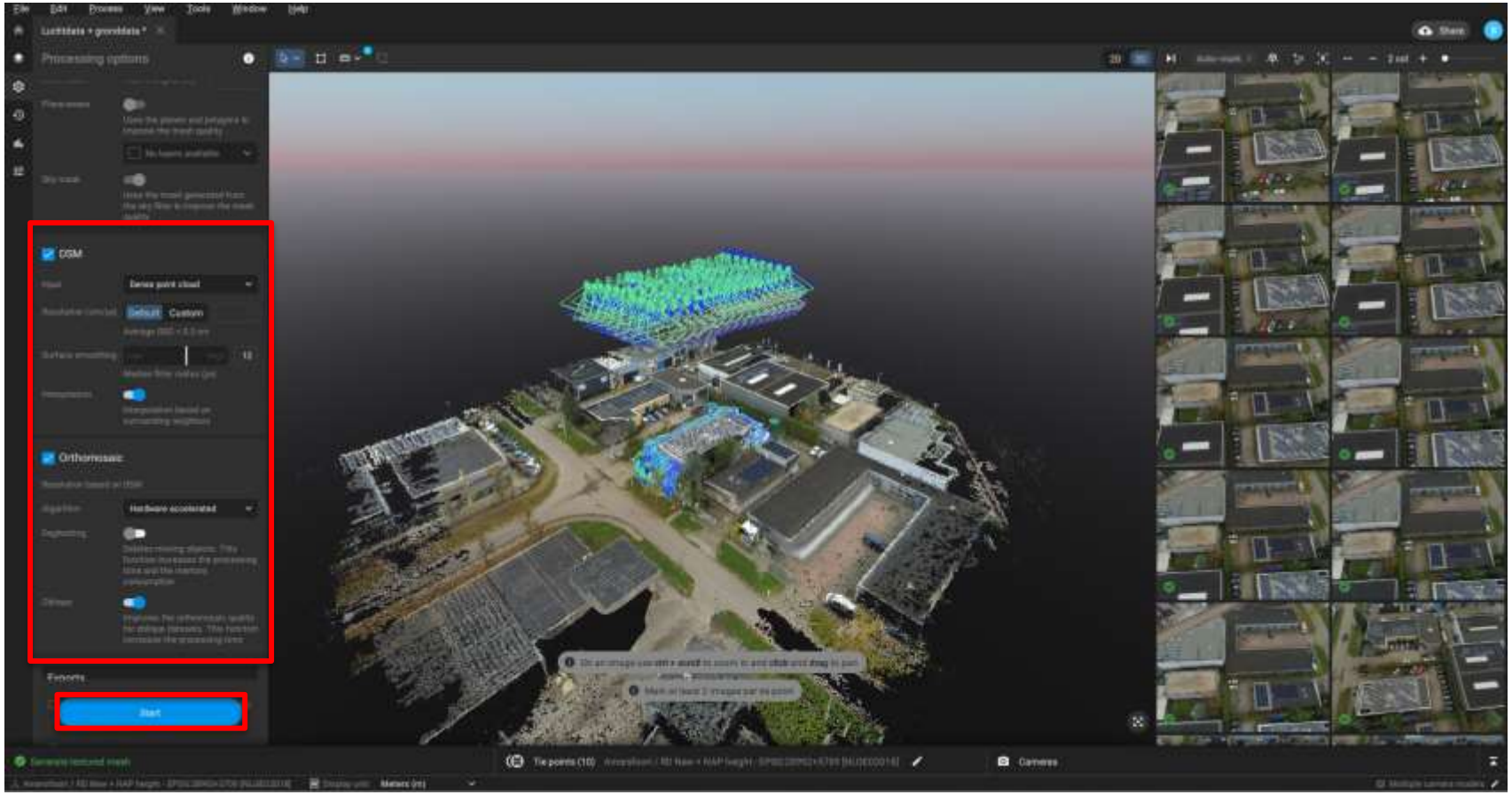

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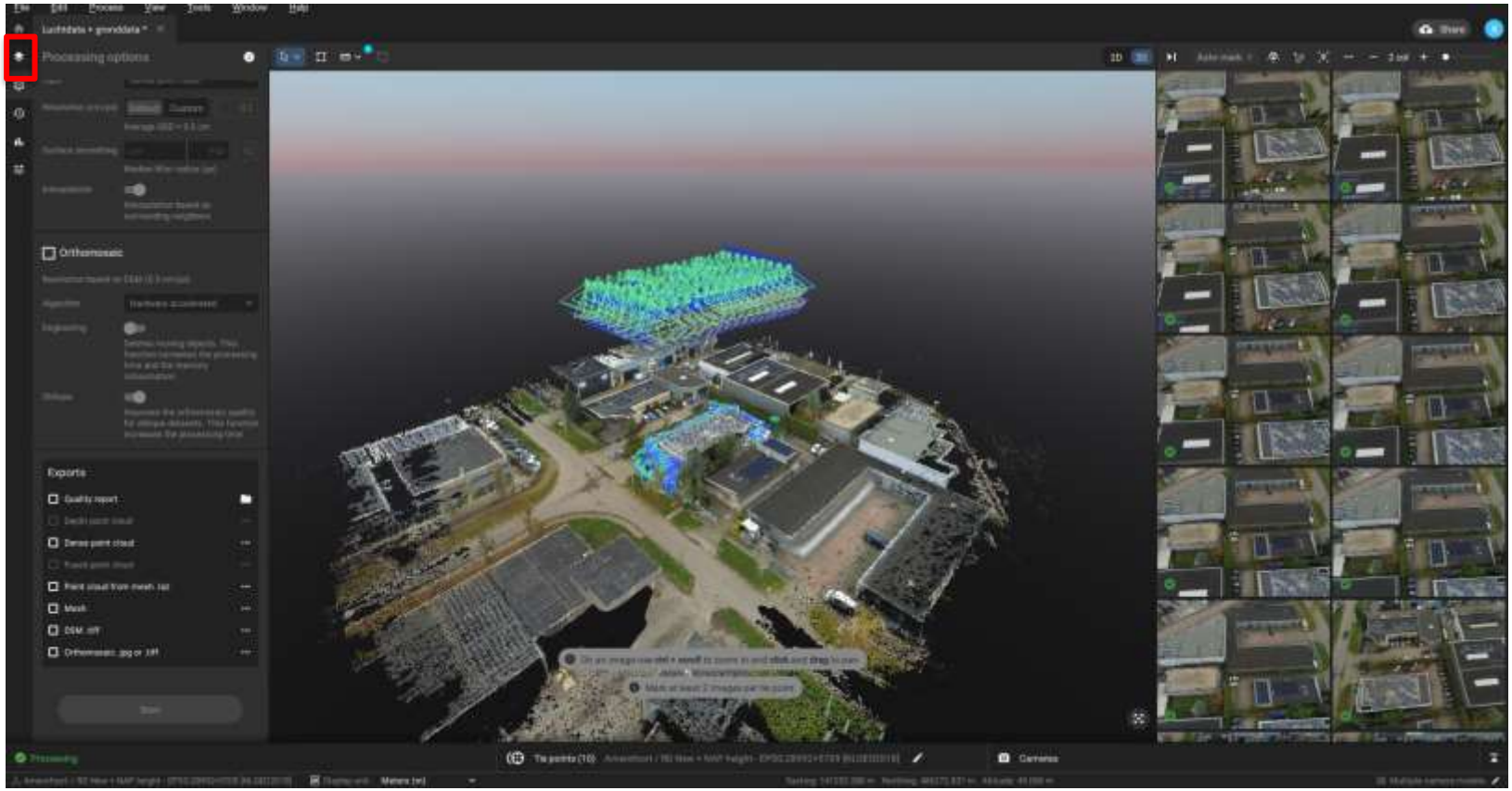

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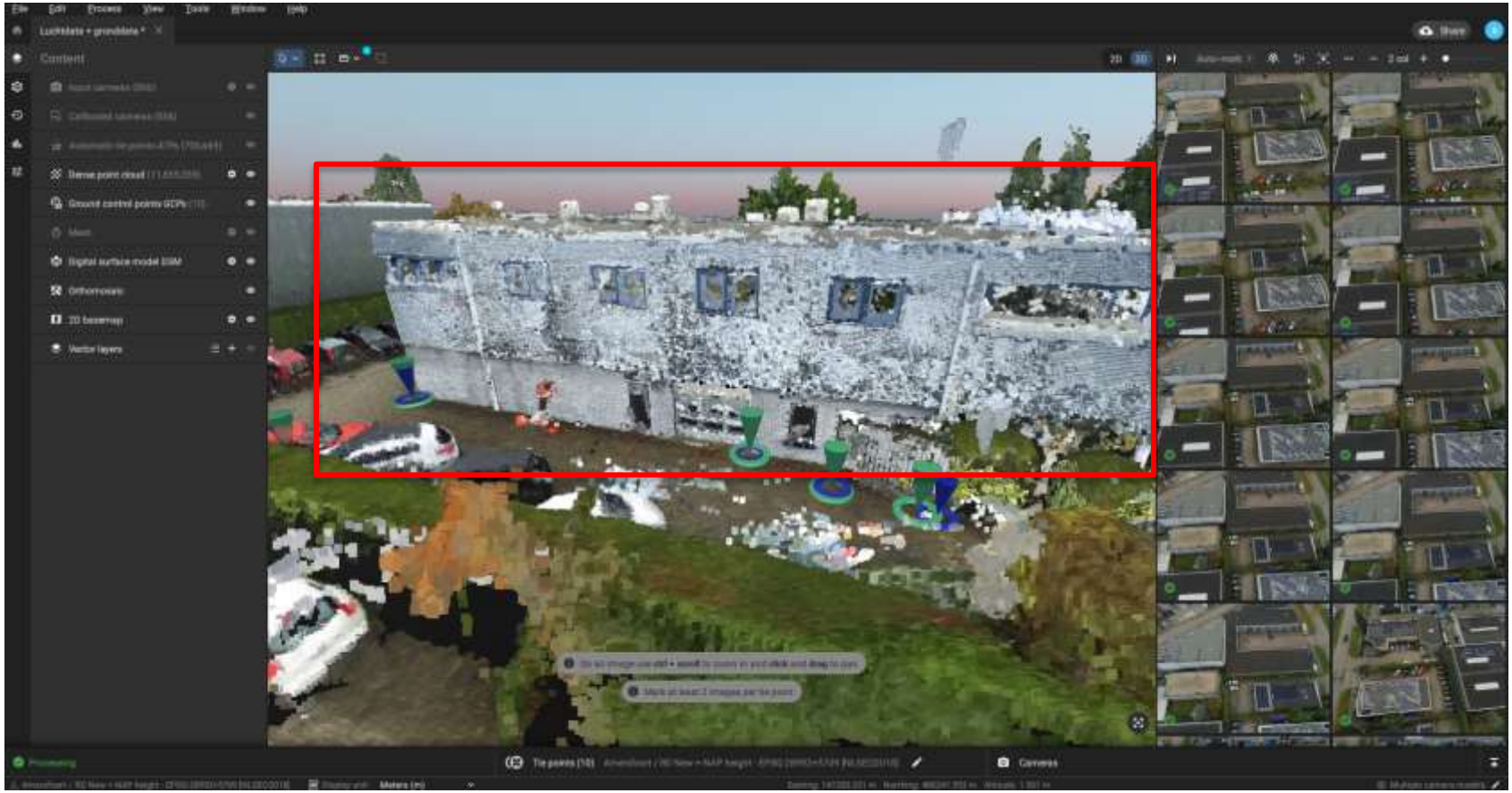

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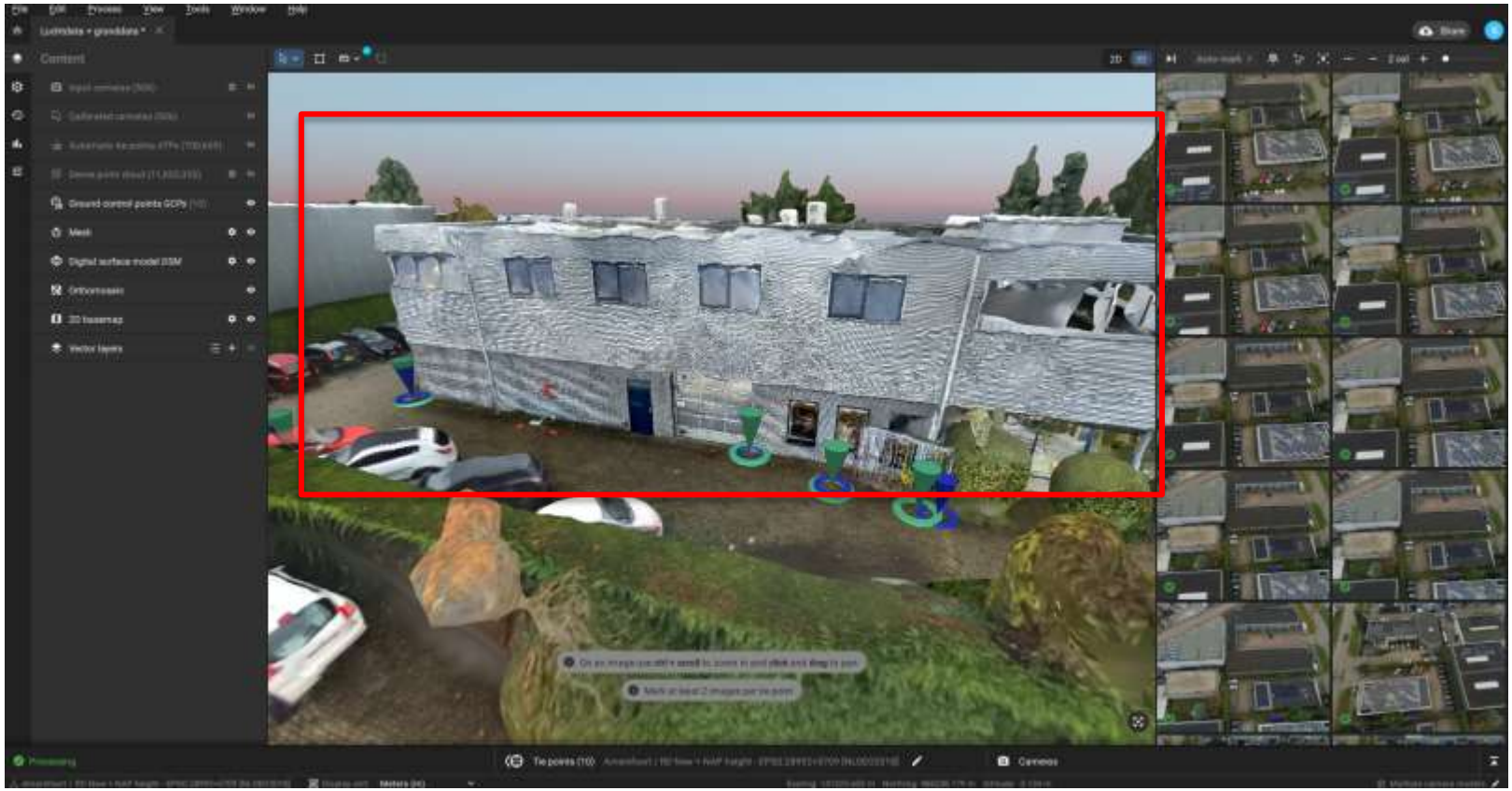

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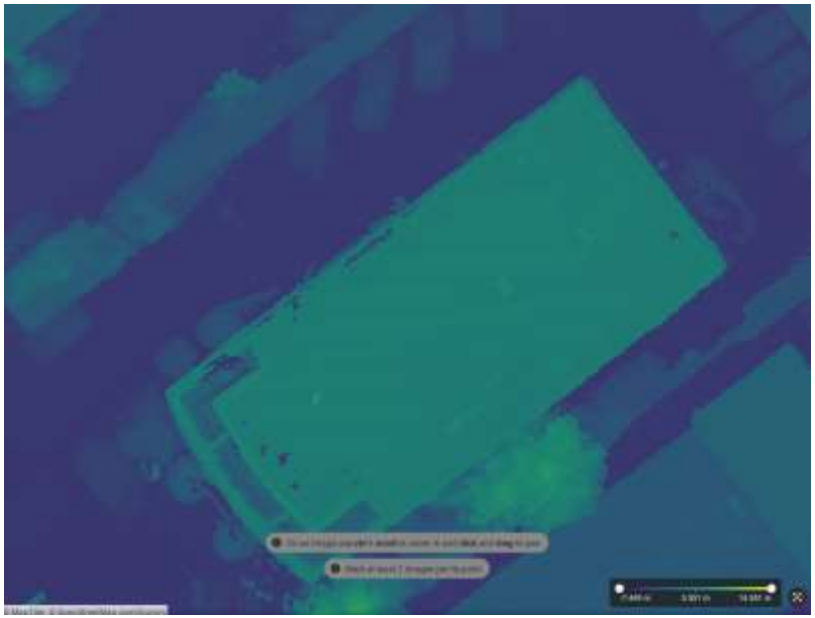

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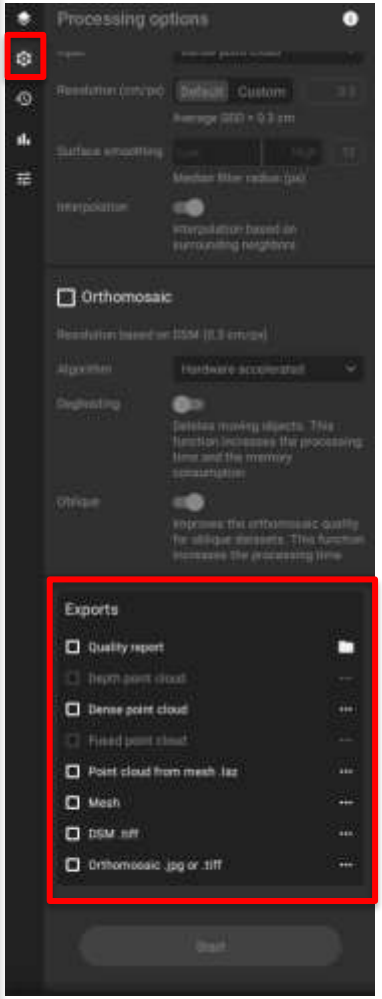
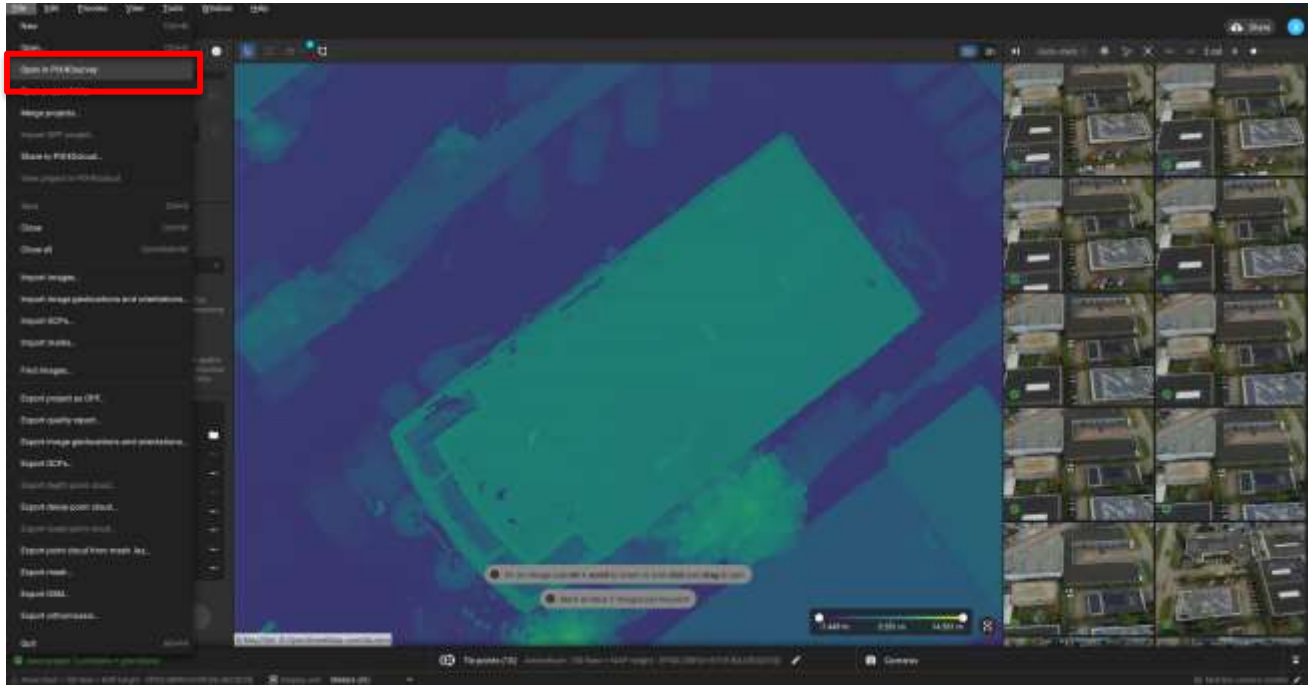
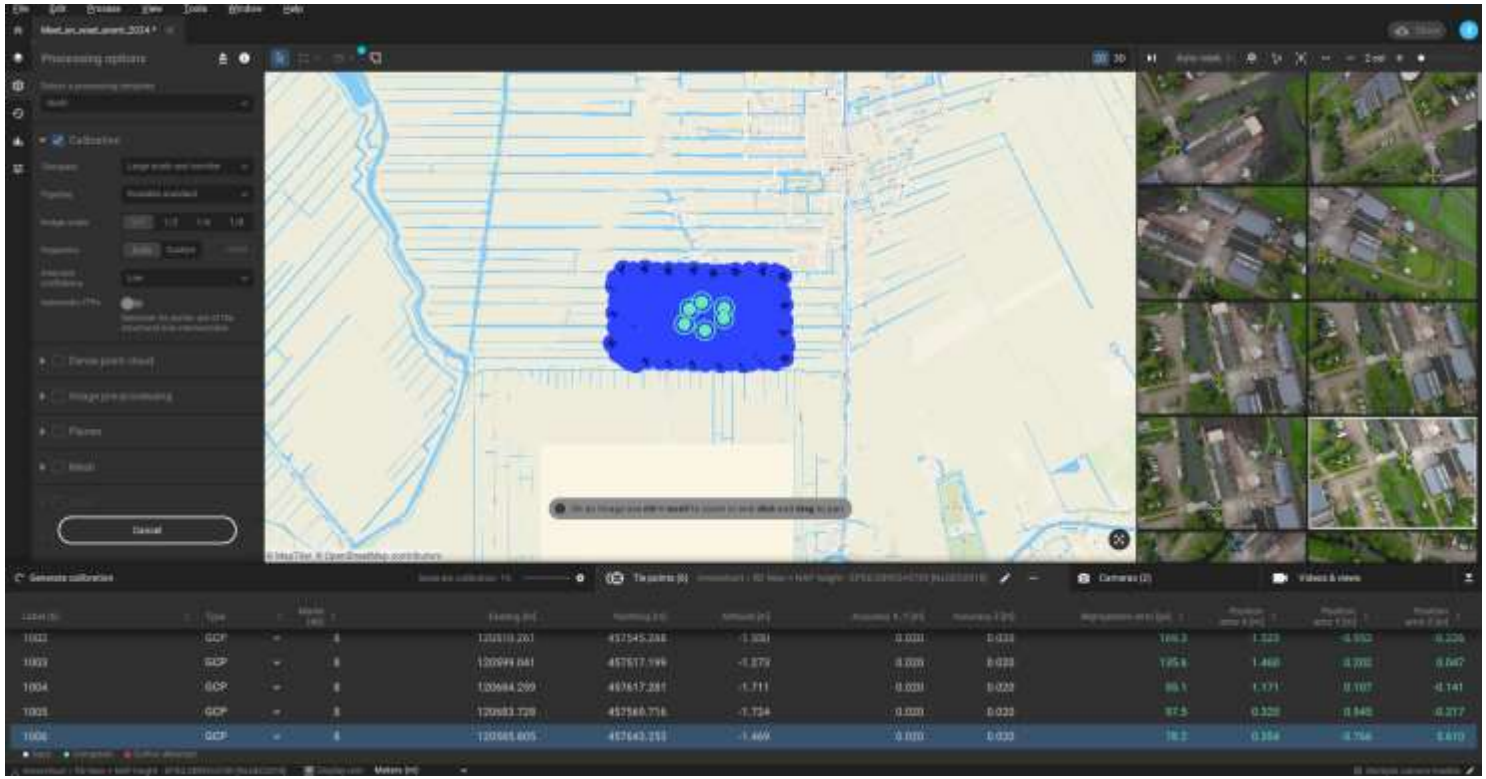




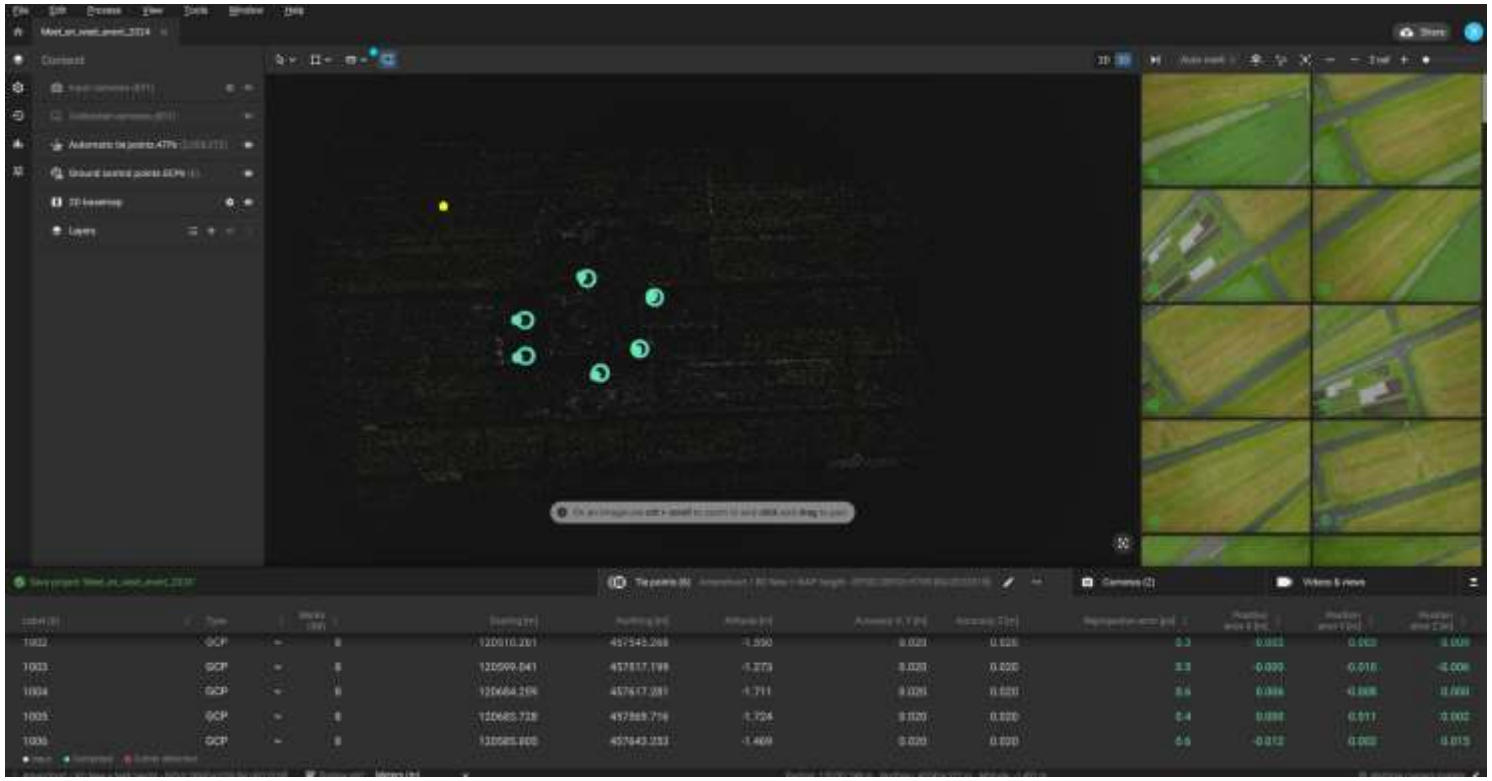
Discussie

- Wie werkt er met Pix4DCatch?
- Wat zijn de ervaringen tot dusver?

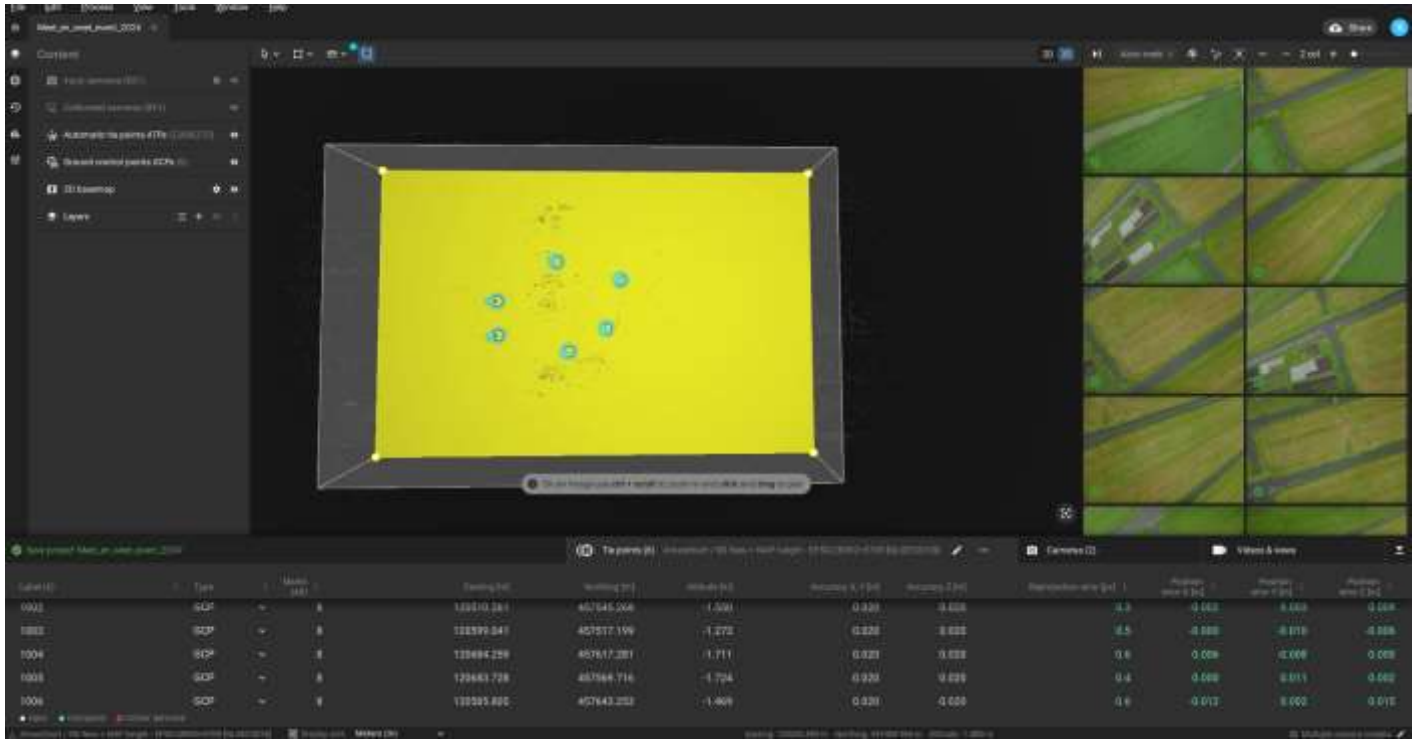
Region of Interest (RoI) in Pix4Dmatic



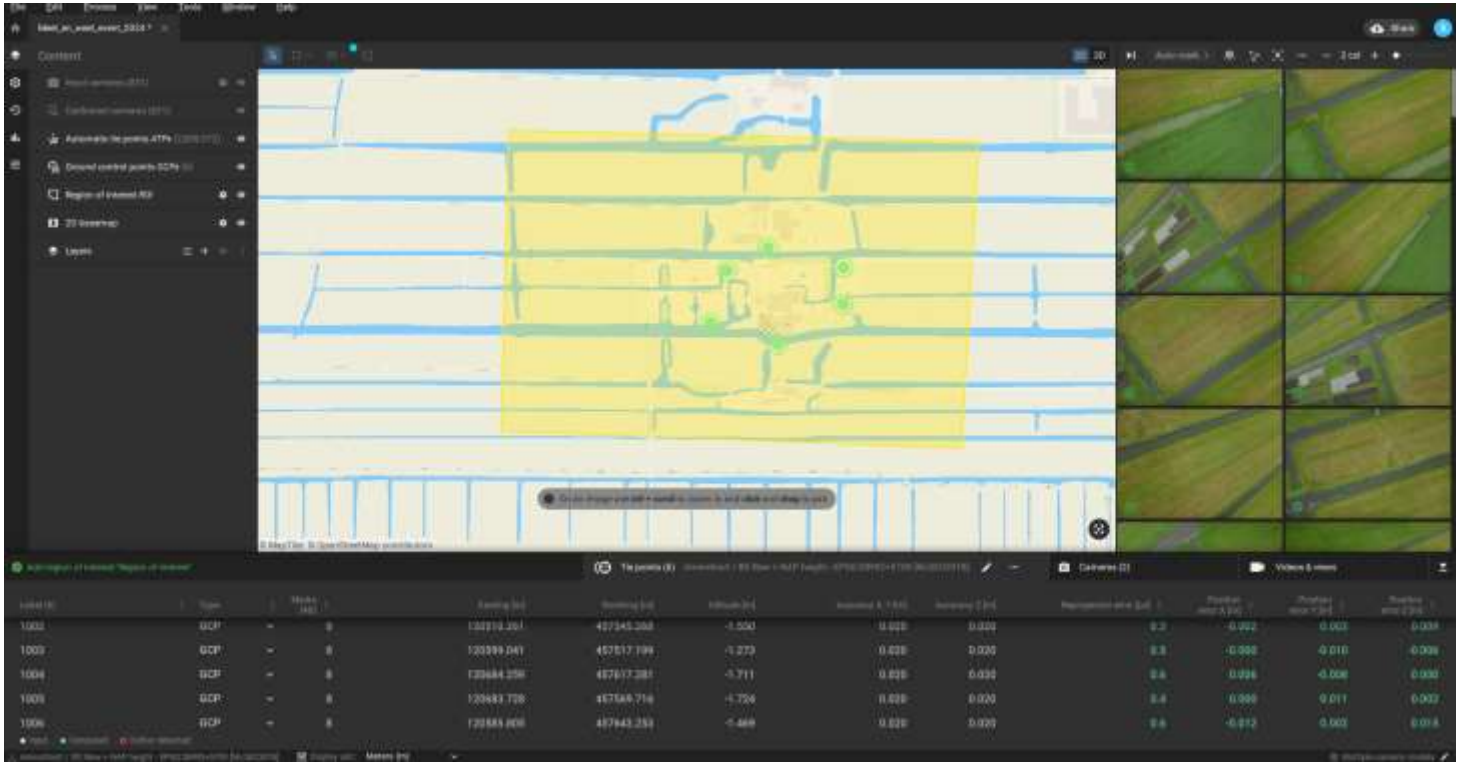
Region of Interest (RoI) in Pix4Dmatic



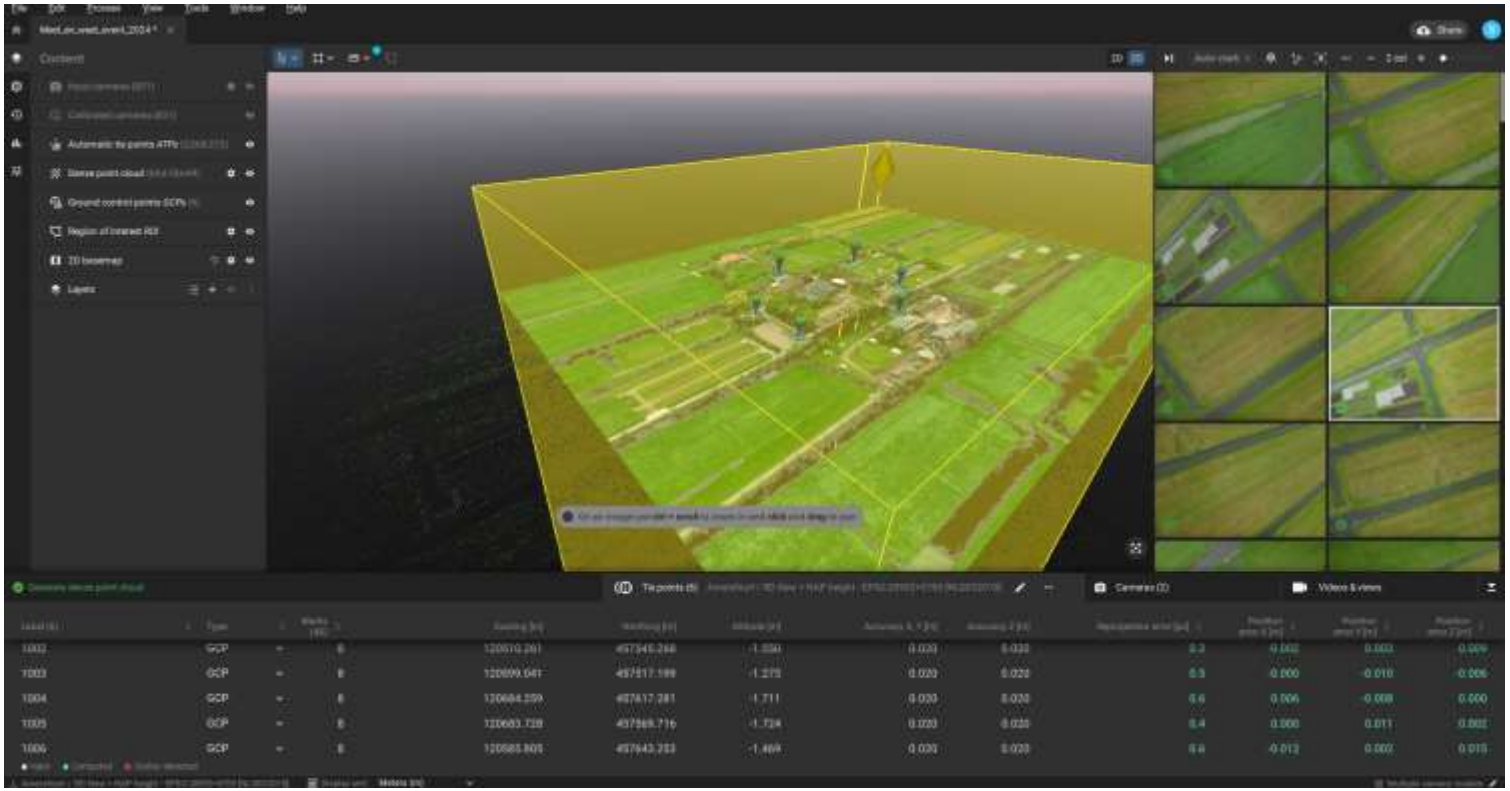
Region of Interest (RoI) in Pix4Dmatic



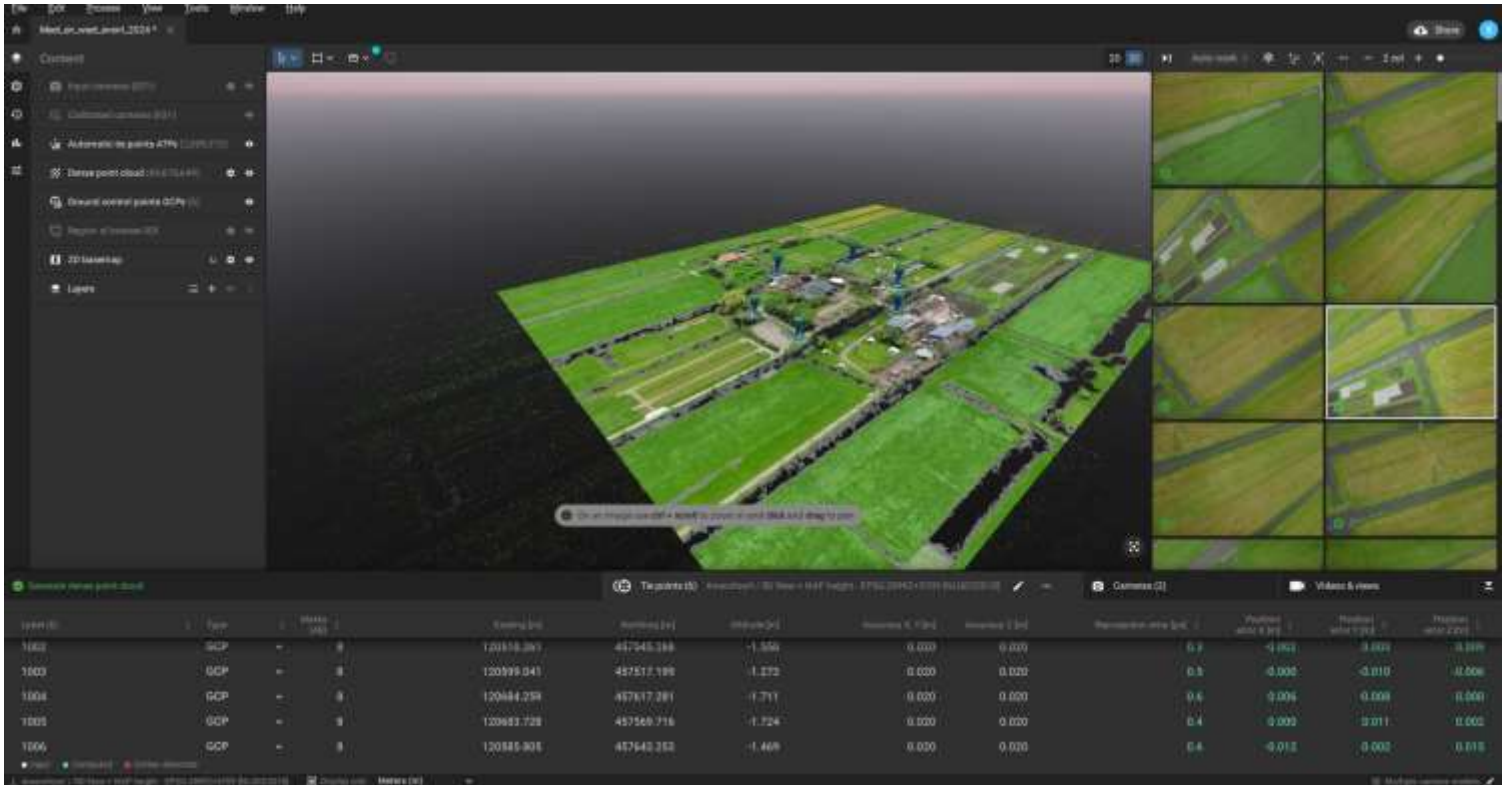
Region of Interest (RoI) in Pix4Dmatic



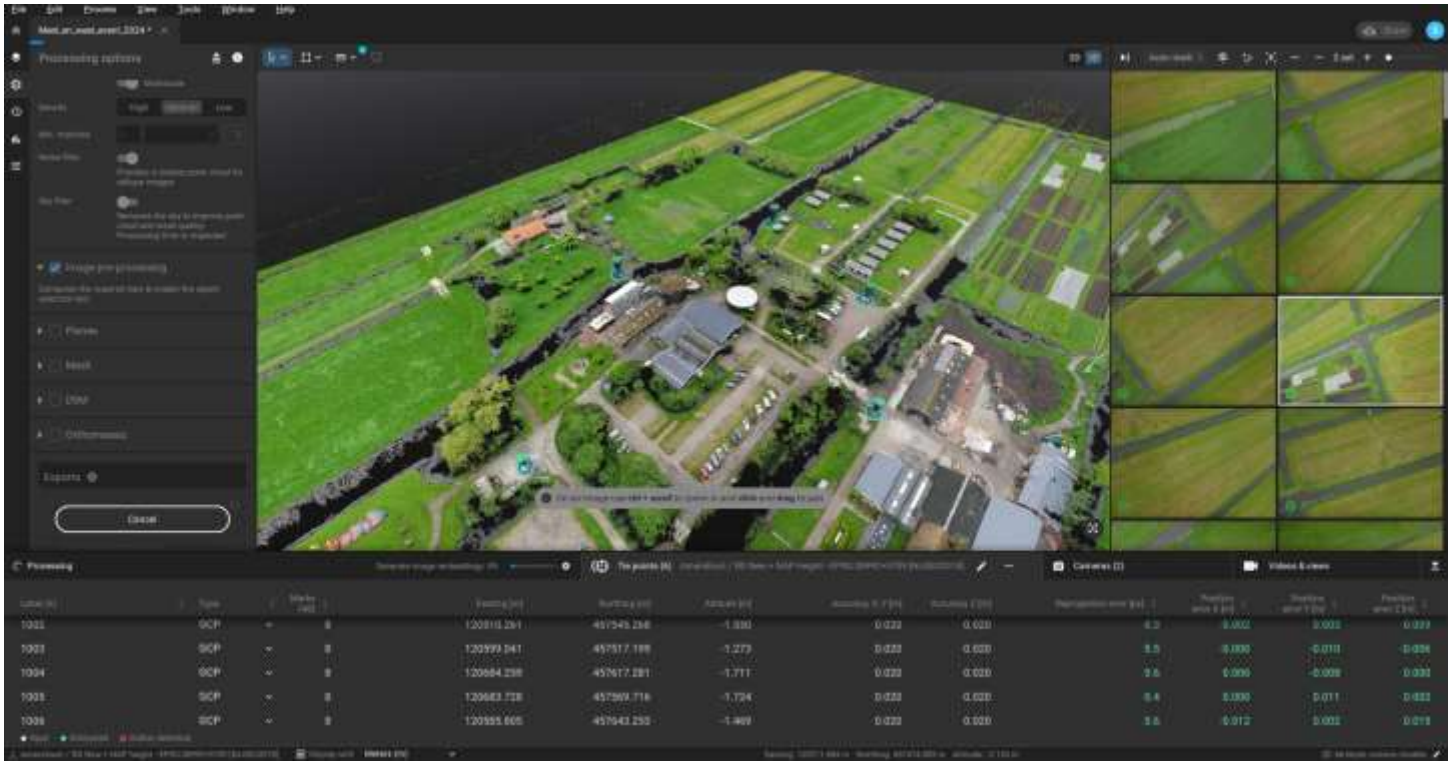
Region of Interest (RoI) in Pix4Dmatic



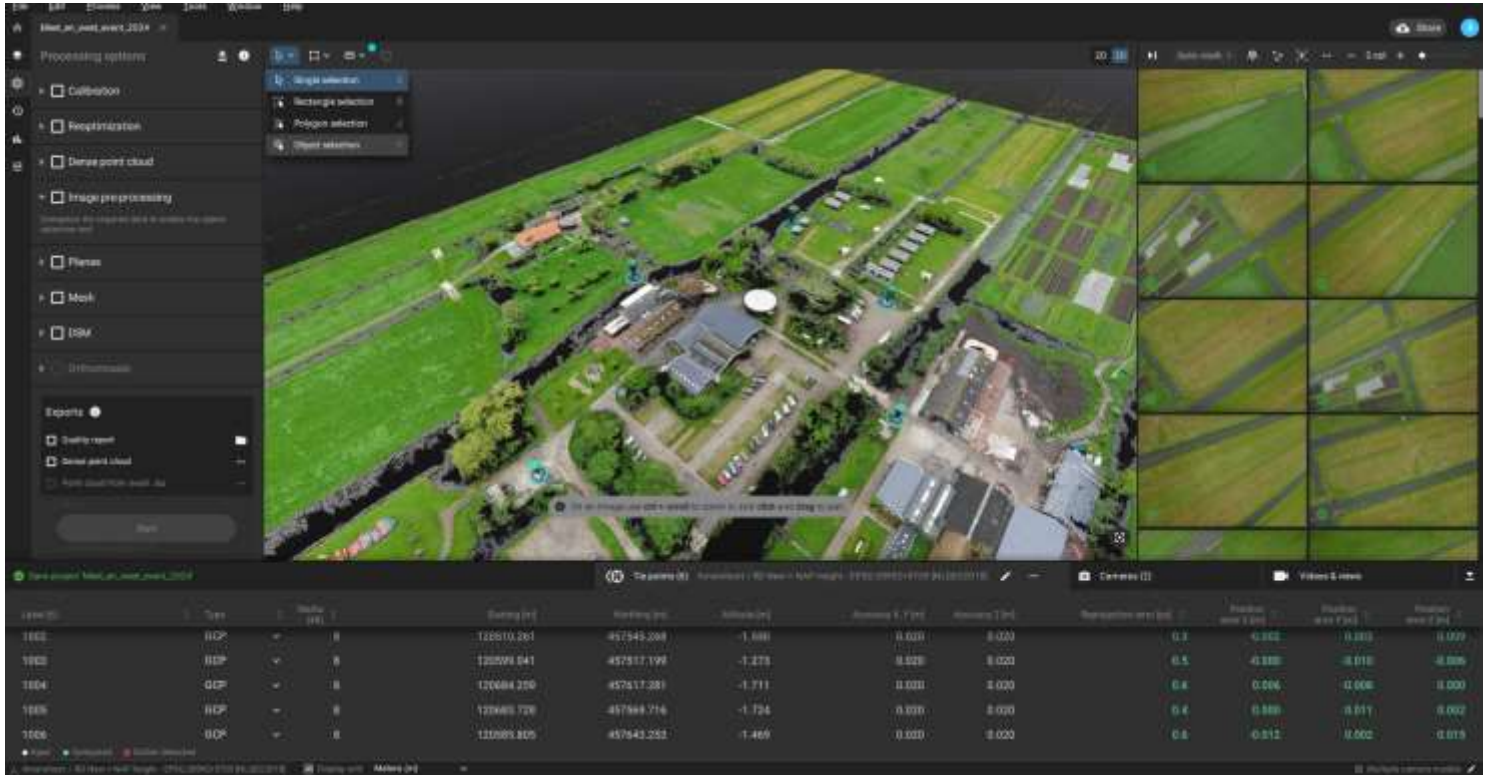
Region of Interest (RoI) in Pix4Dmatic



Object detection in Pix4Dmatic



Object detection in Pix4Dmatic



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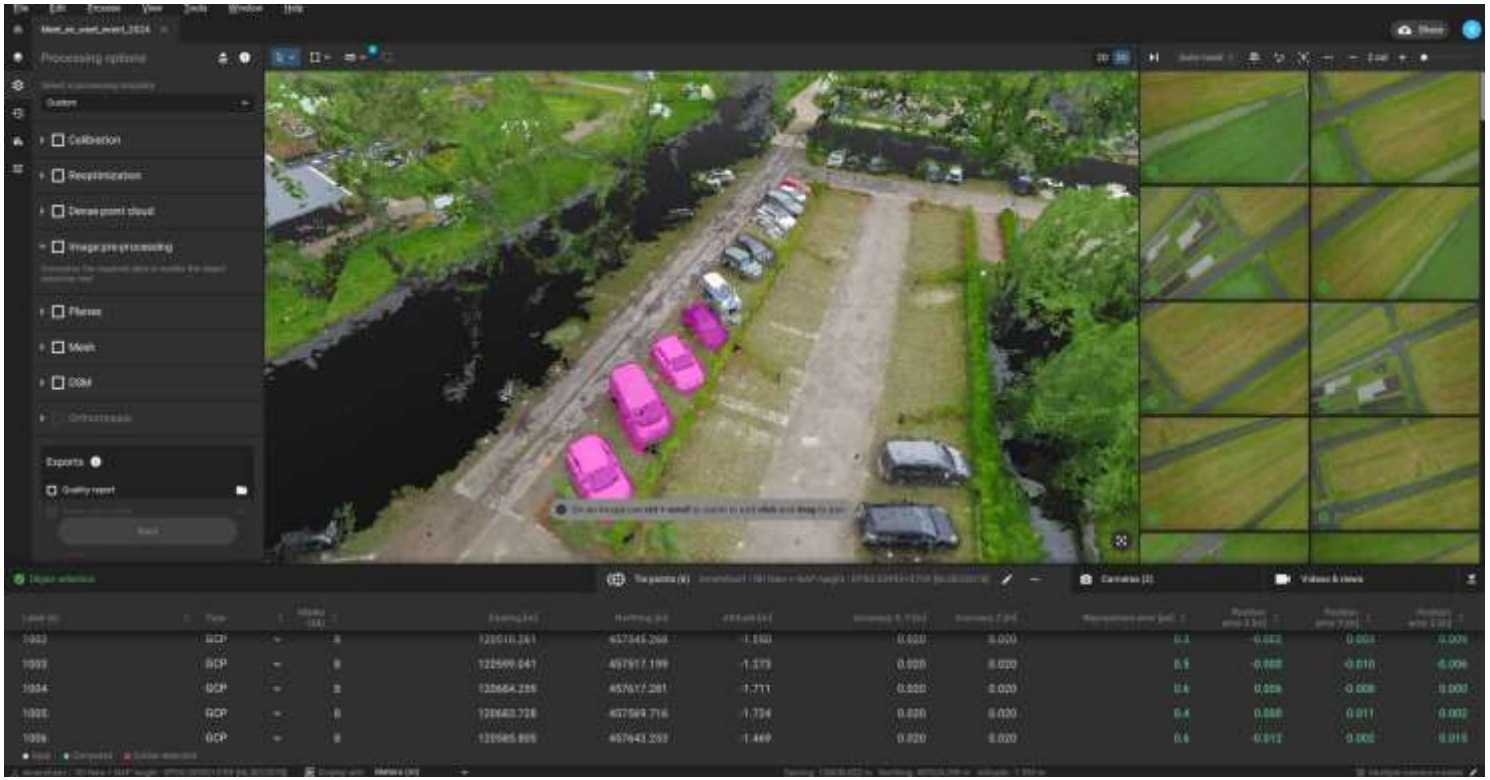
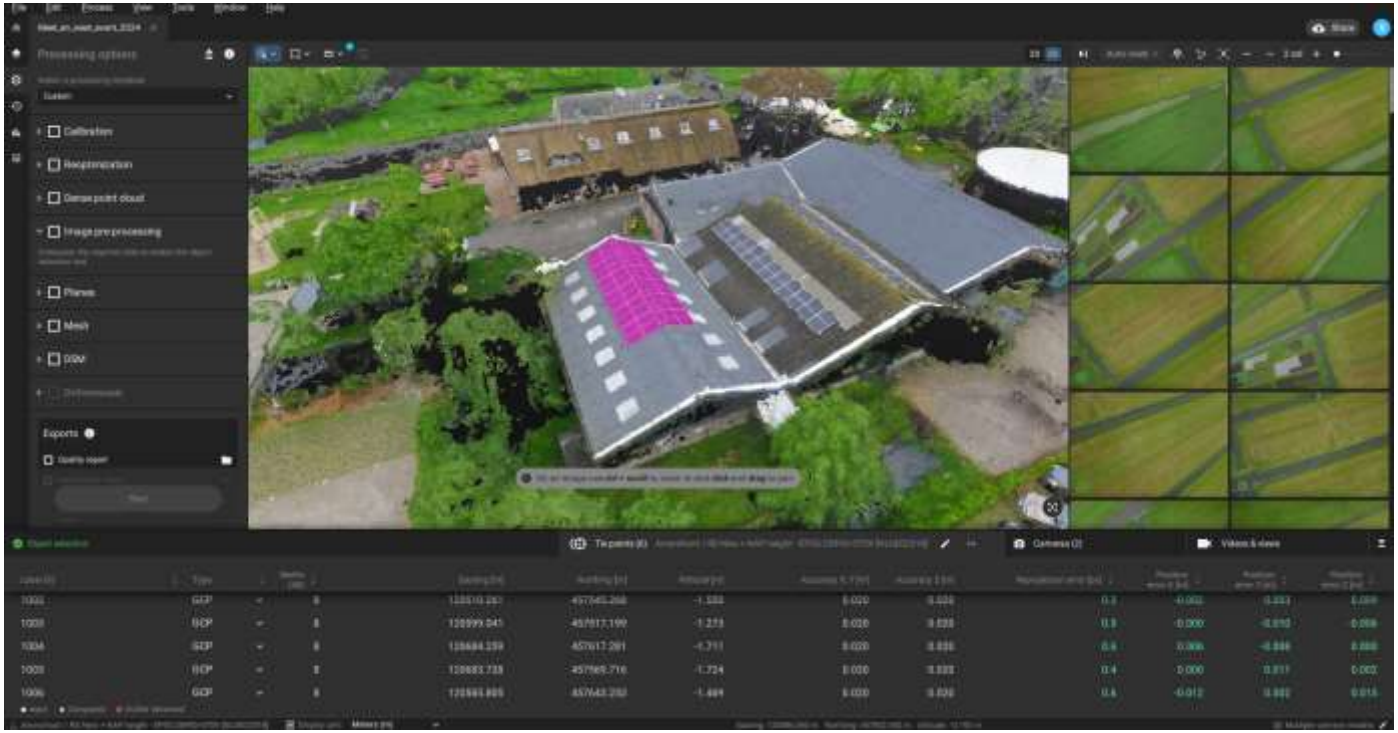
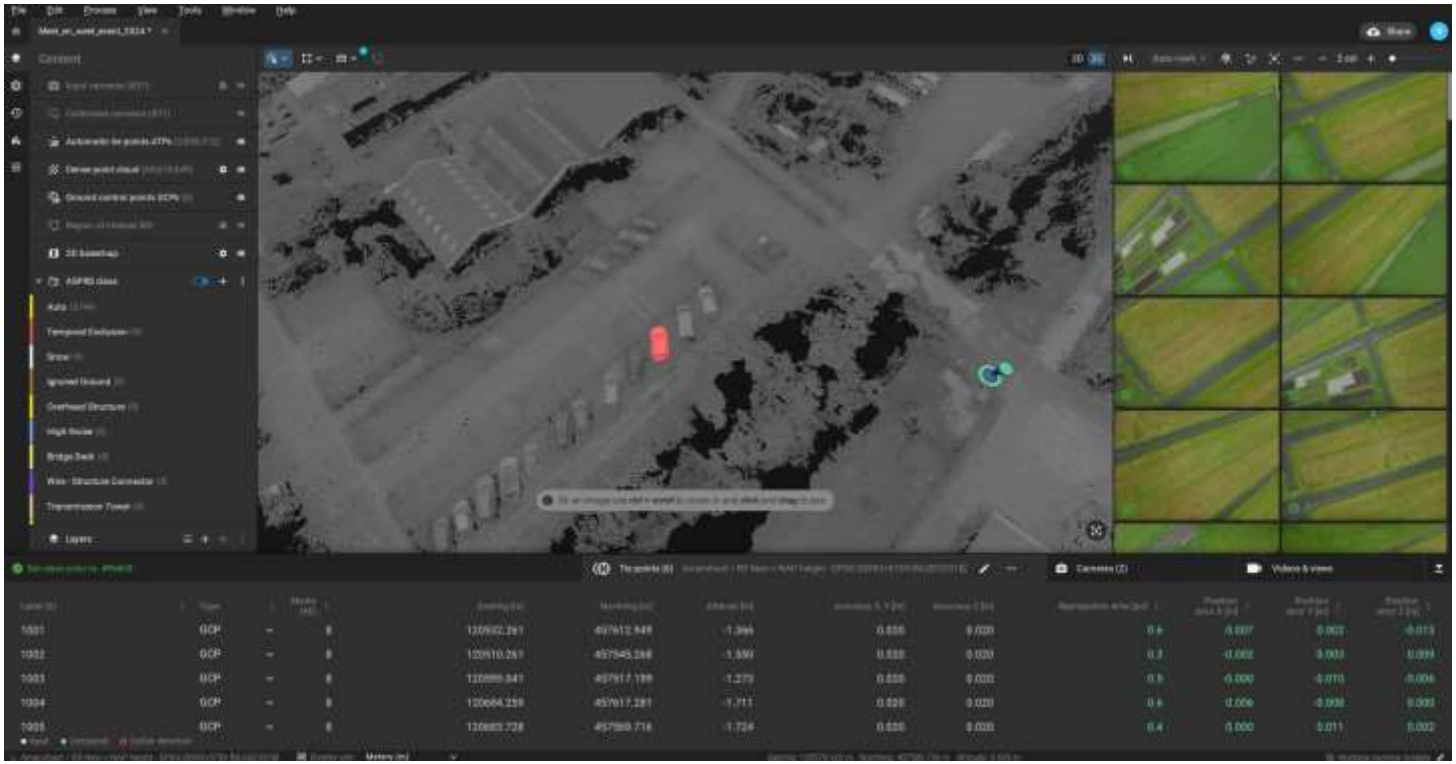


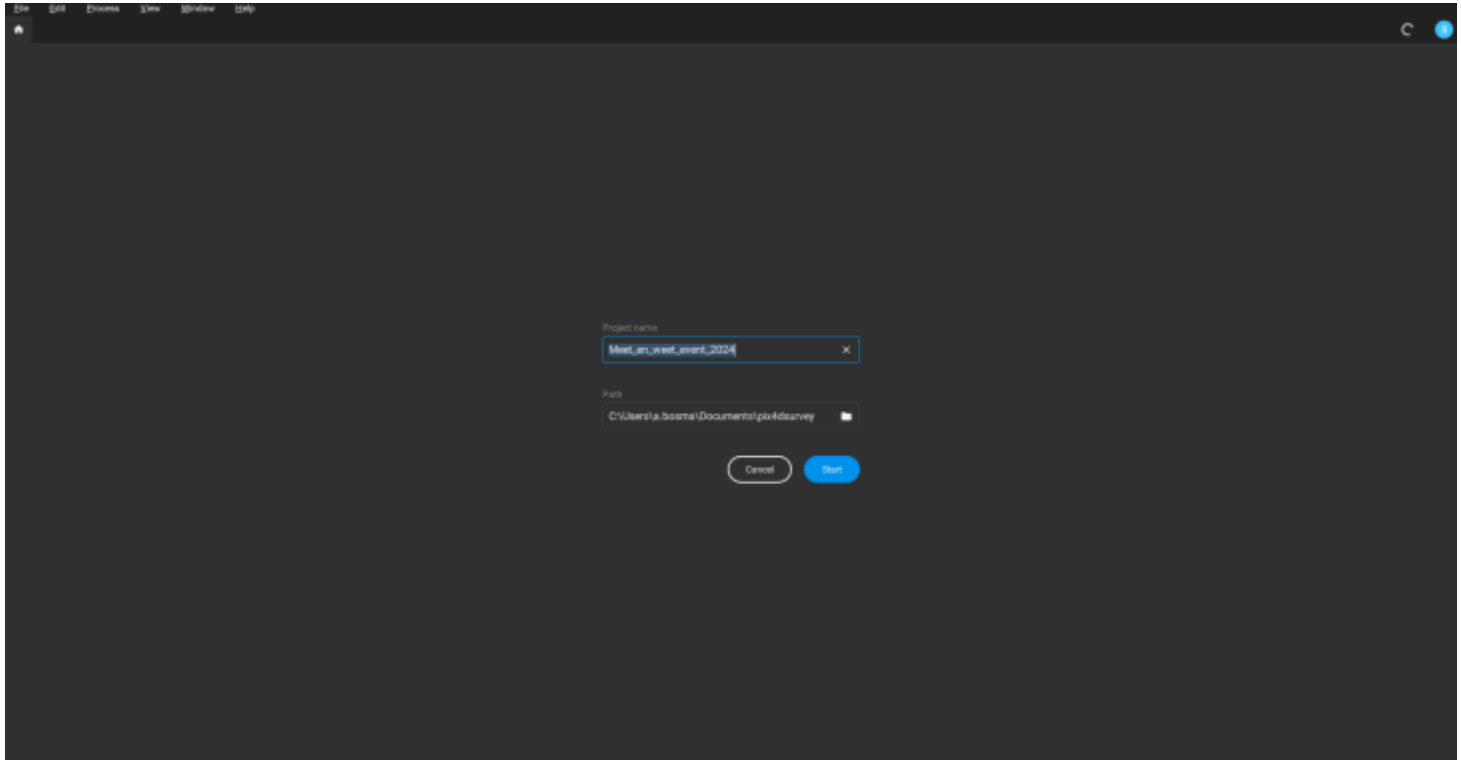
Object detection in Pix4Dmatic



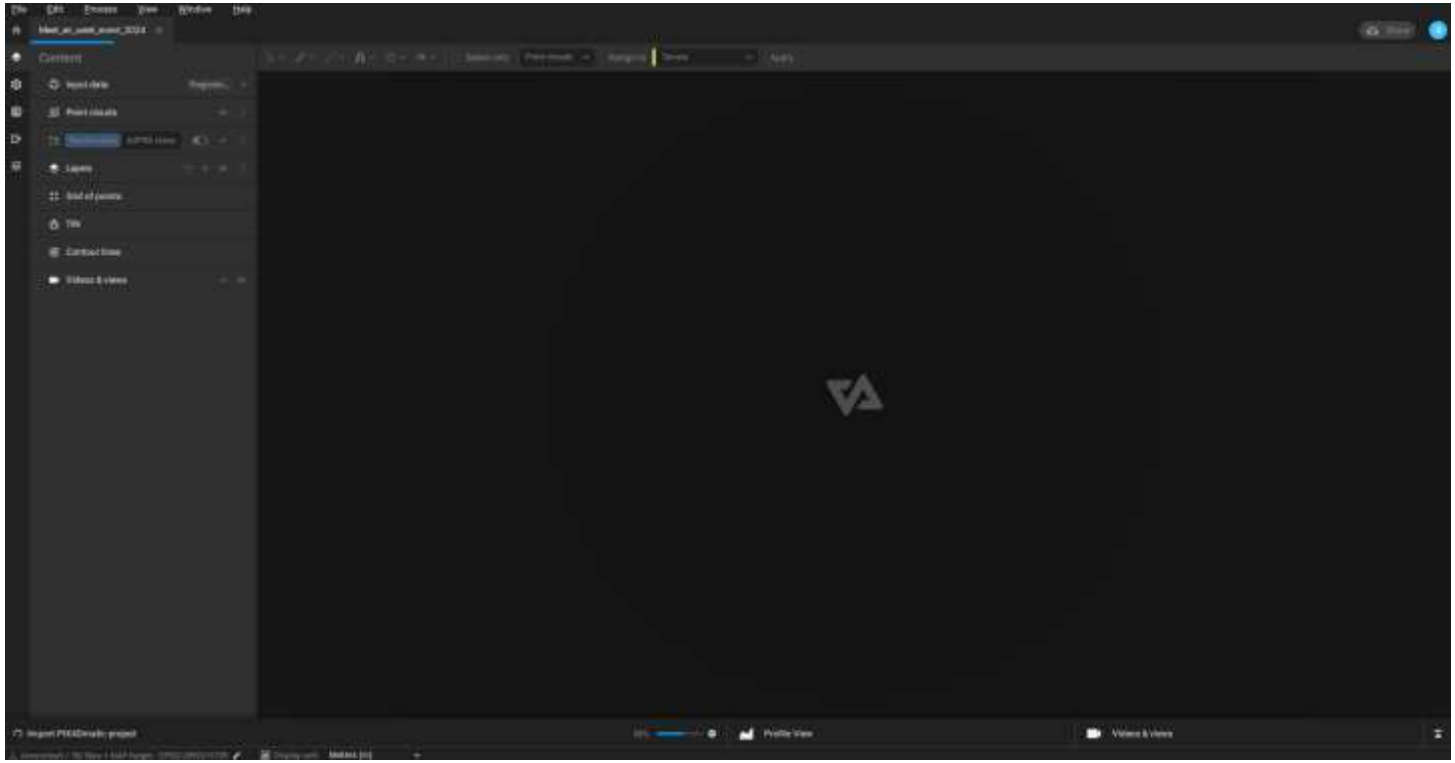
Object detection in Pix4Dmatic



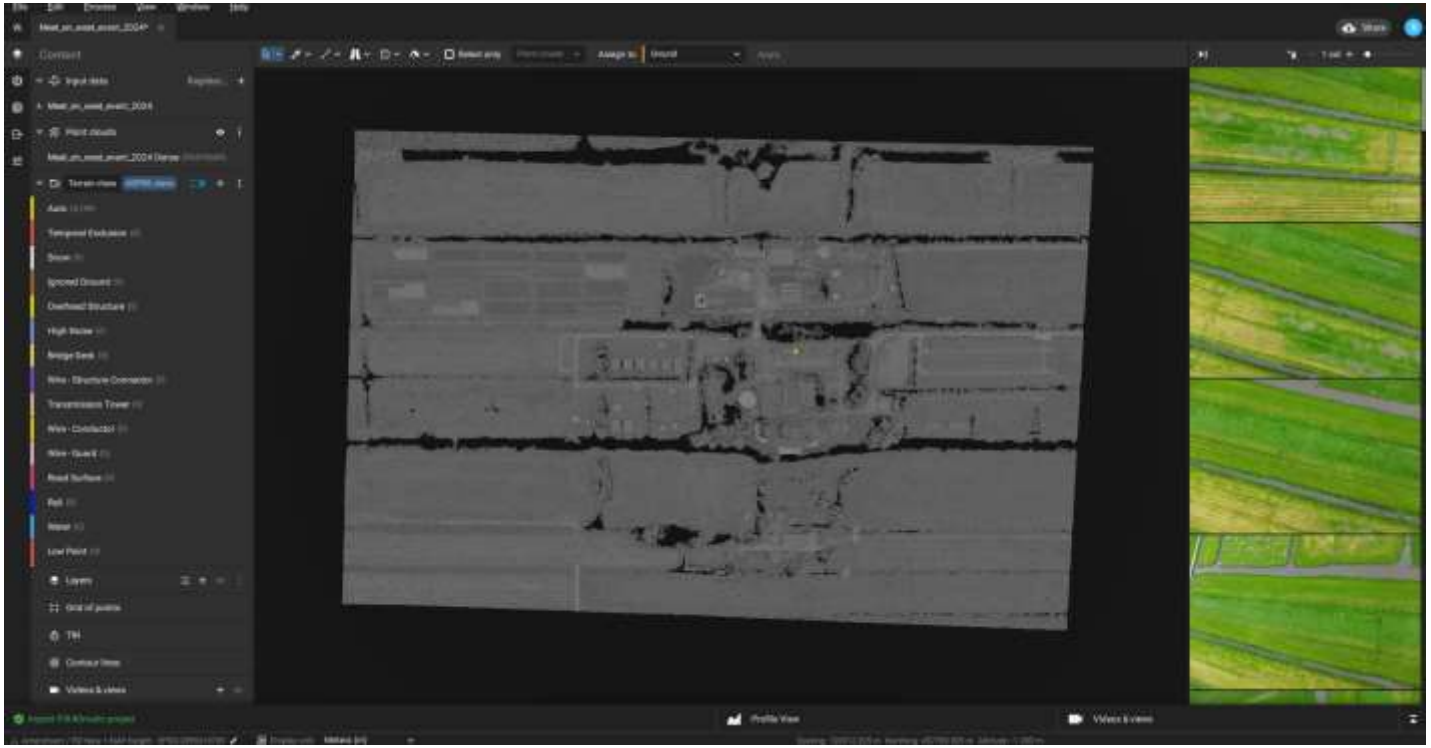
Object detection in Pix4Dsurvey



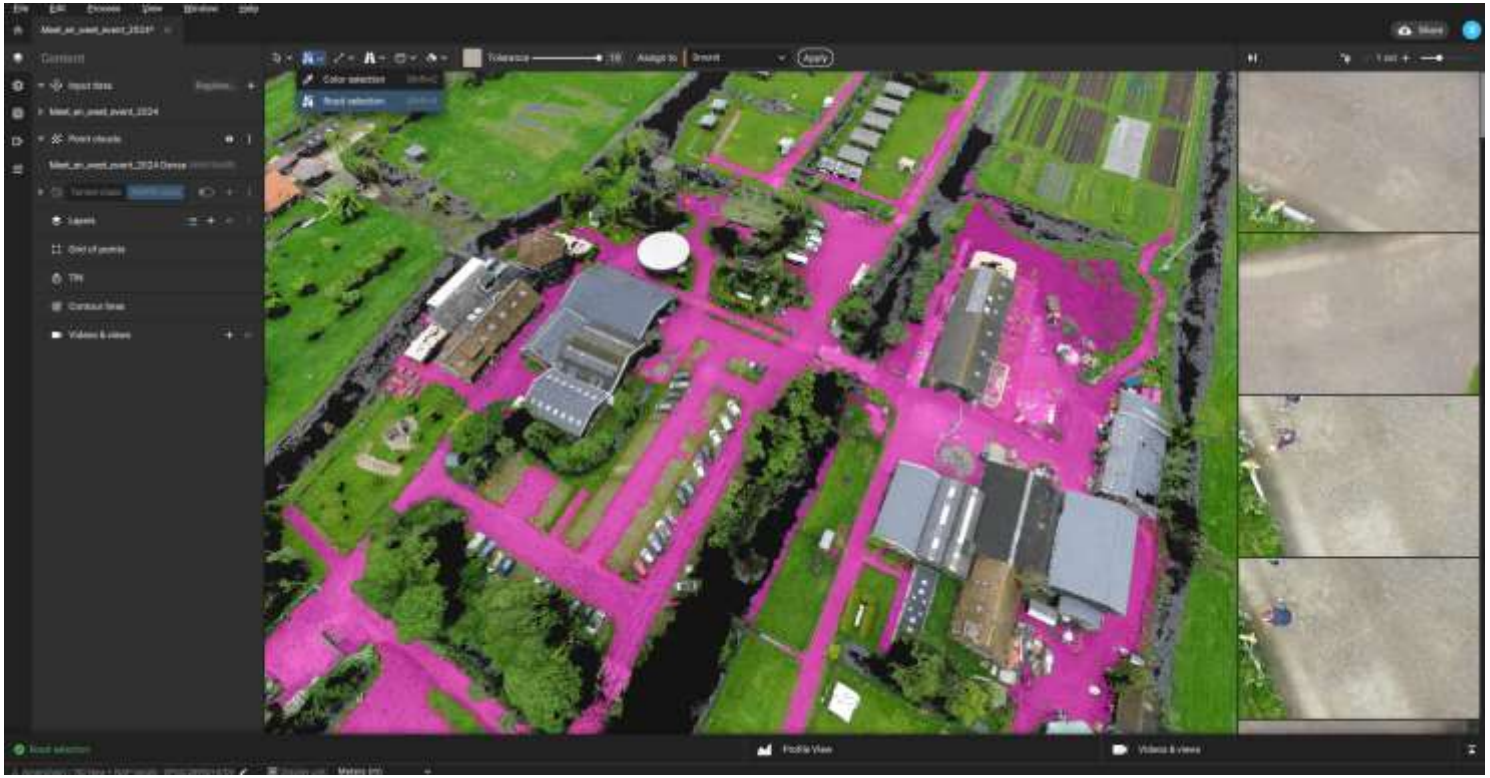
Object detection in Pix4Dsurvey



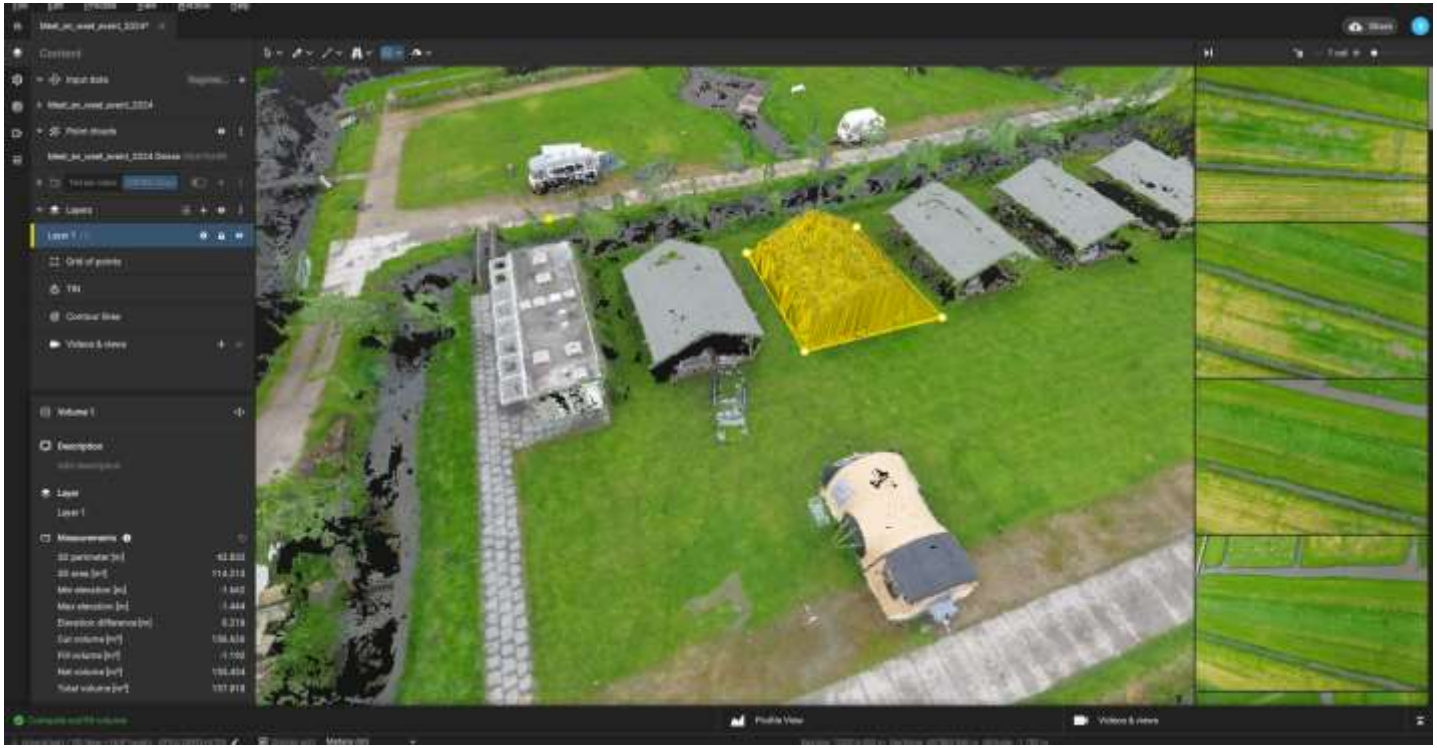
Object detection in Pix4Dsurvey



‘Road selection’ in Pix4Dsurvey



‘Road selection’ in Pix4Dsurvey



‘Roof detection’ in Pix4Dsurvey

Bedankt voor uw aandacht

Vragen?