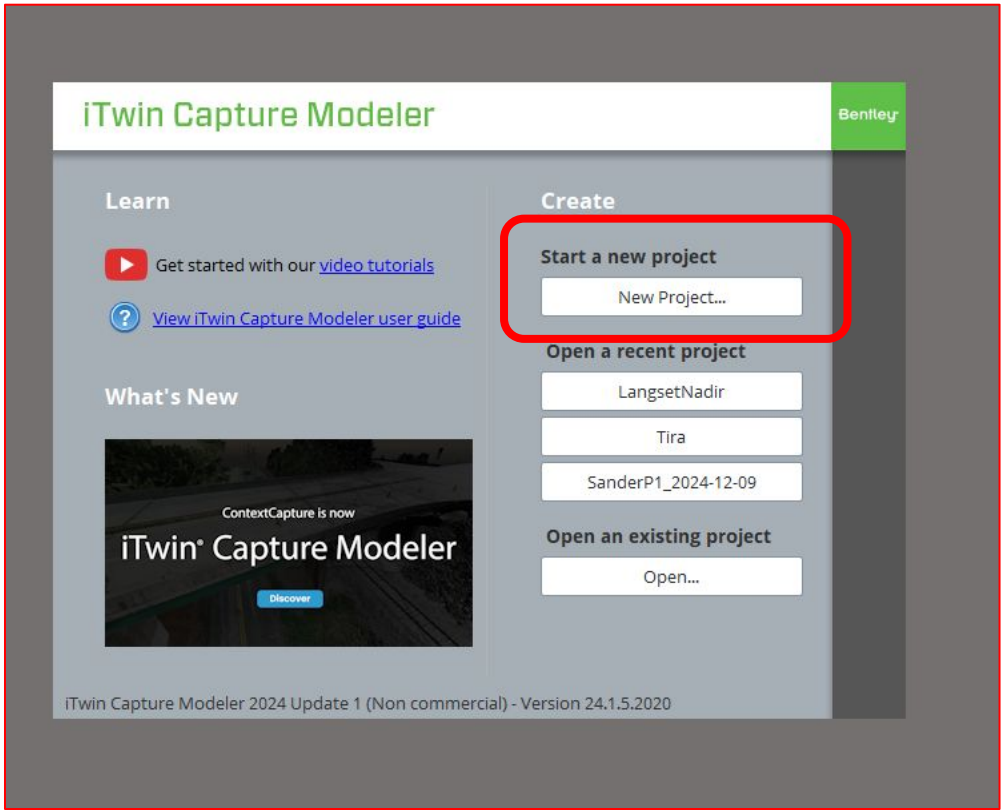
Processing photogrammetric data

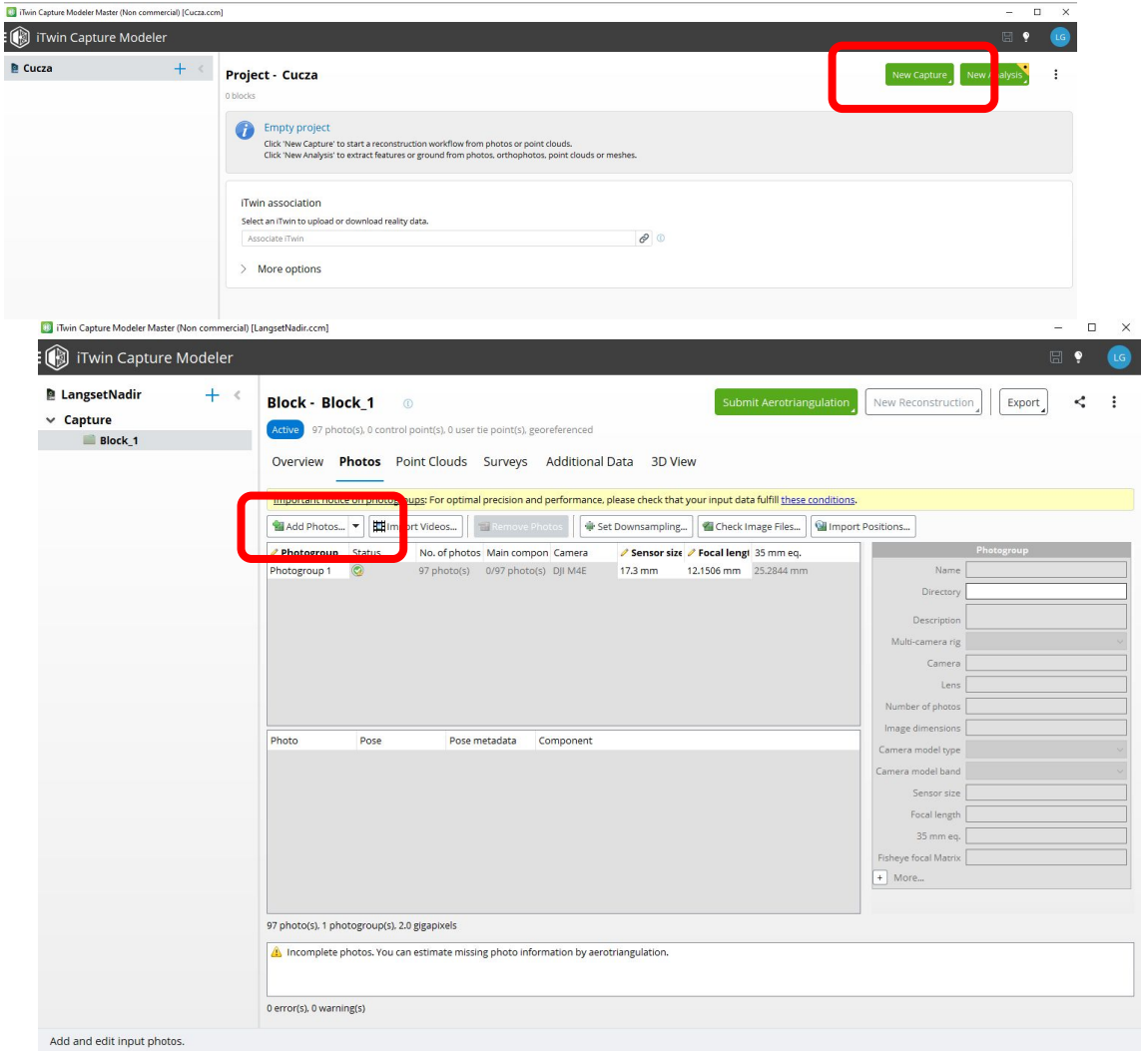
Using iTwing Capture Modeler
DJI Matrice 4E geotagged data over Langset Kirke

Open iTwin Capture Modeler Master, start new project

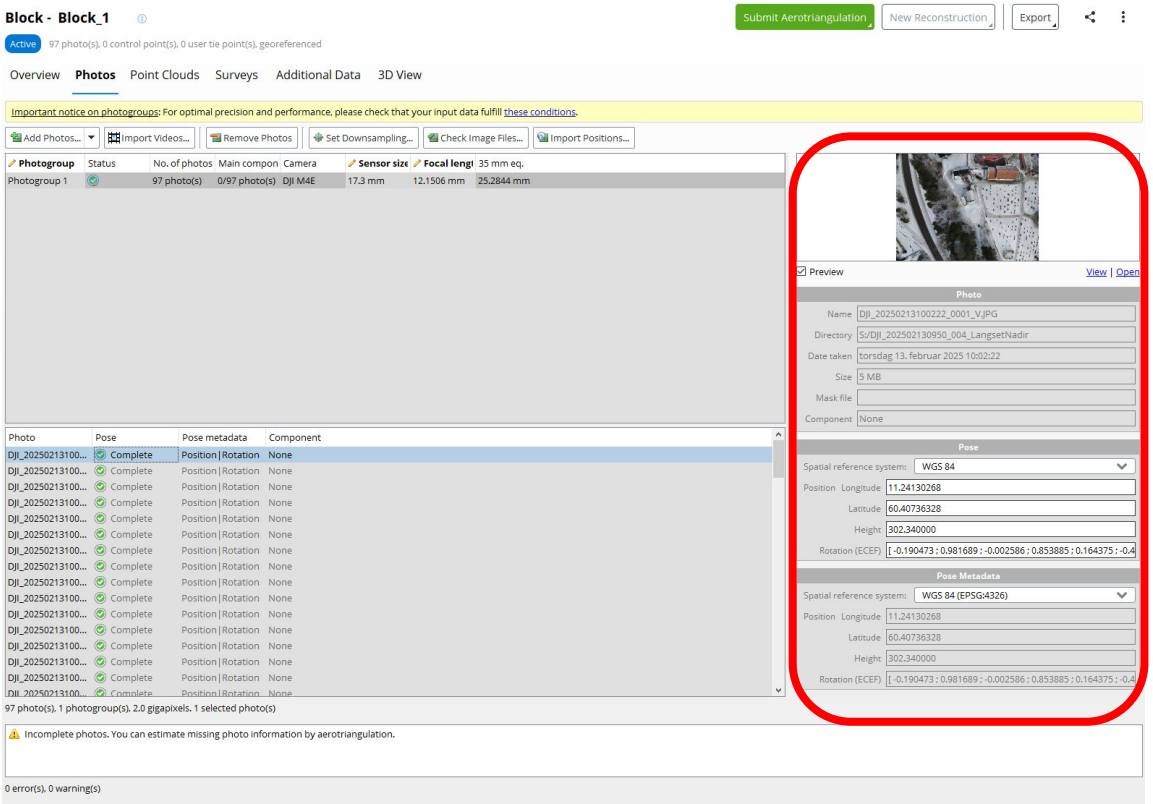


Start a “new capture”

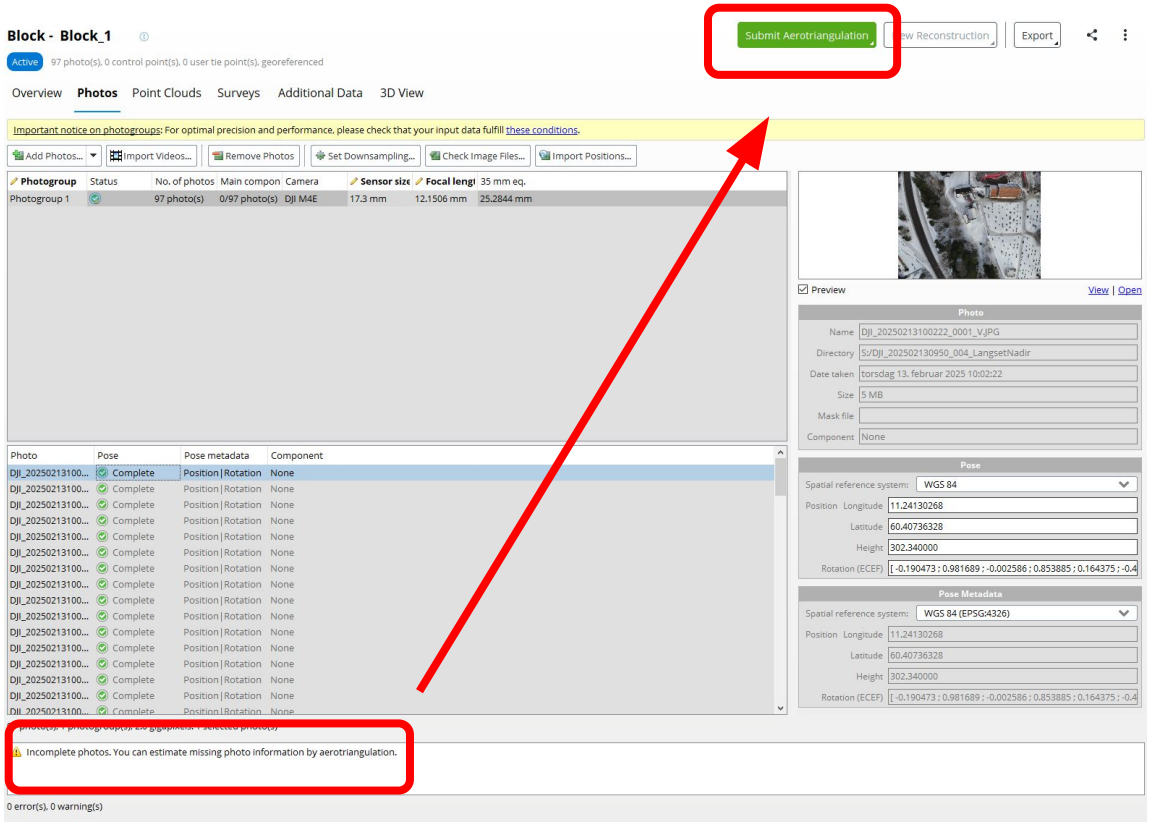
Add photos or a directory of photos



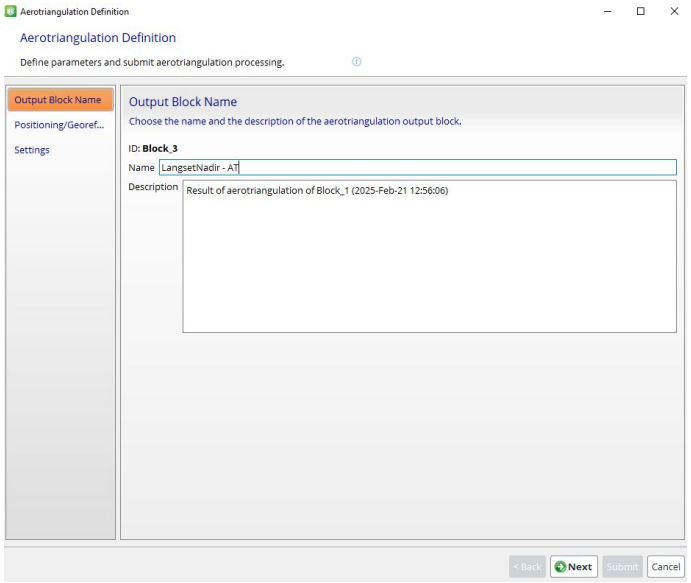
Information about your photos is automatically read

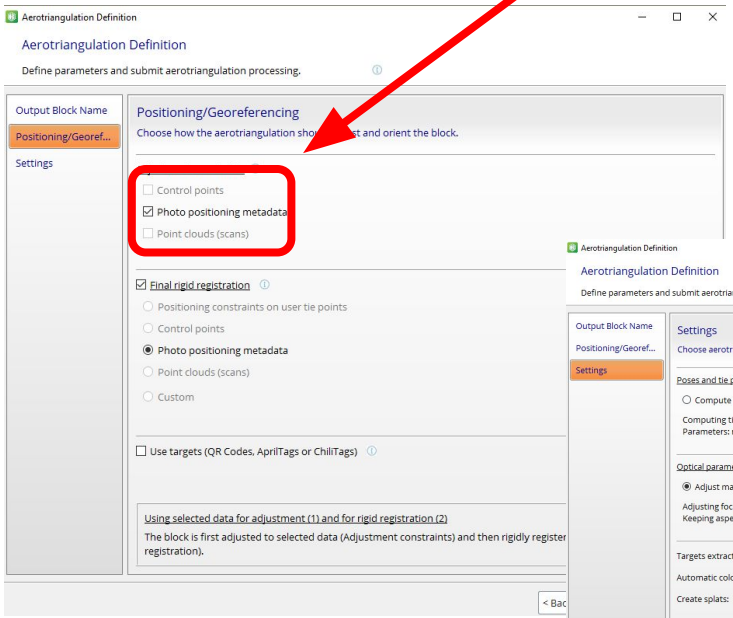


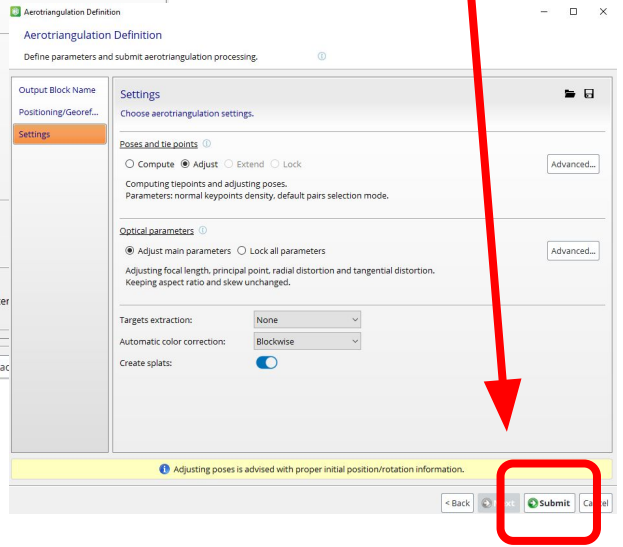
Information about your photos is automatically read



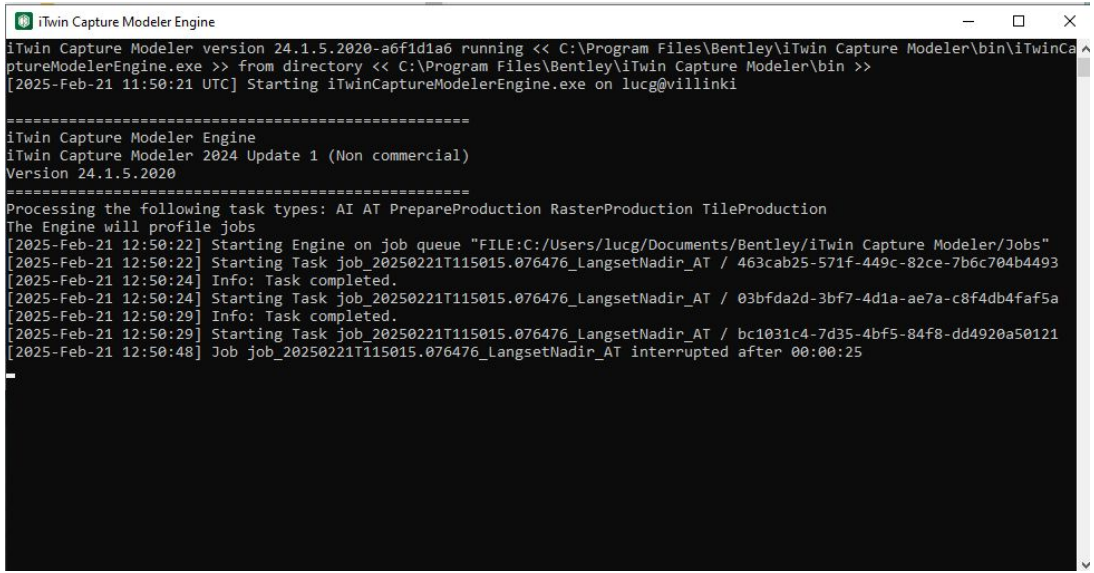
Setup parameters (default except circled here), and submit





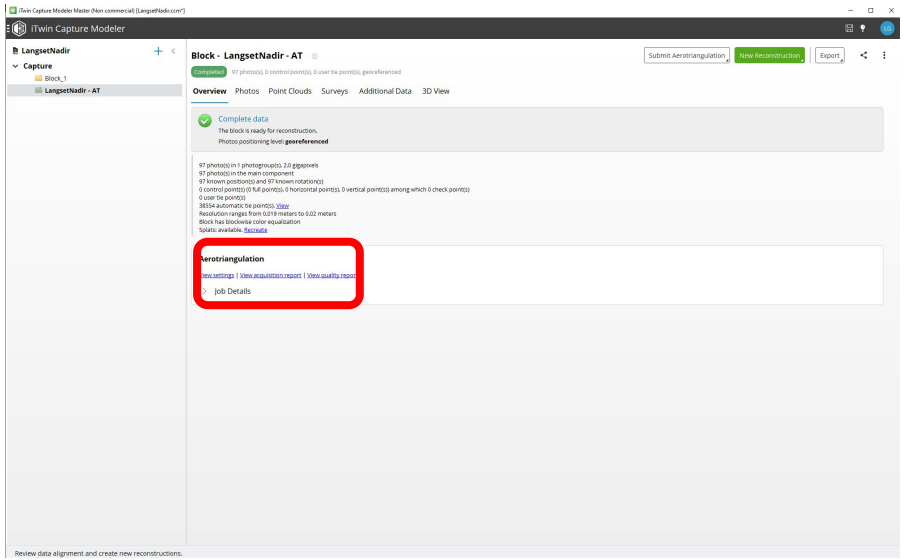


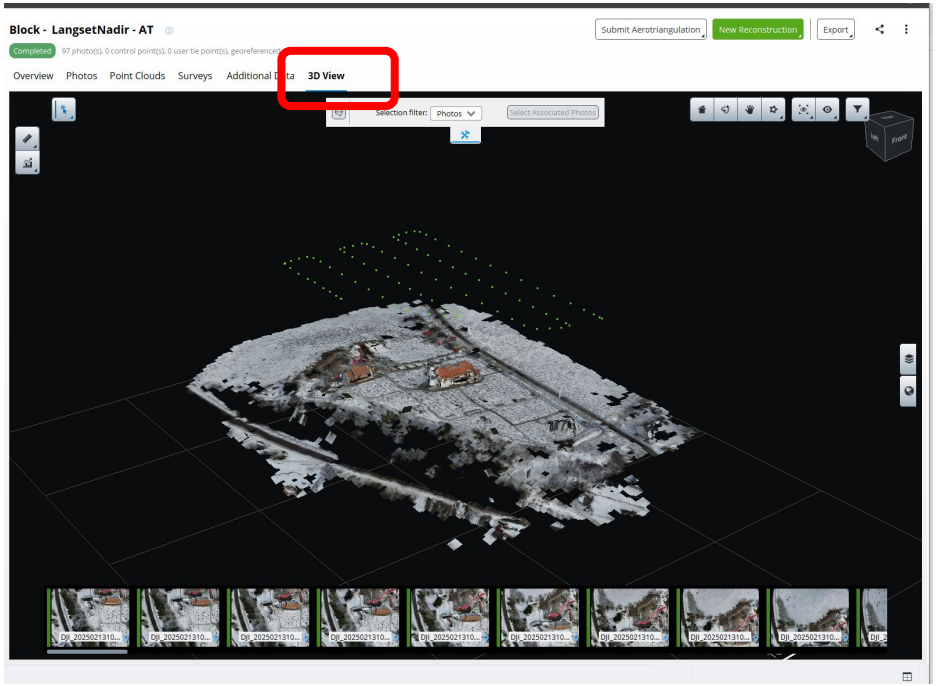
Start iTwin Capture Modeler Engine (that's the actual processing engine, it listens to new "jobs" being added by other iTwin tools)



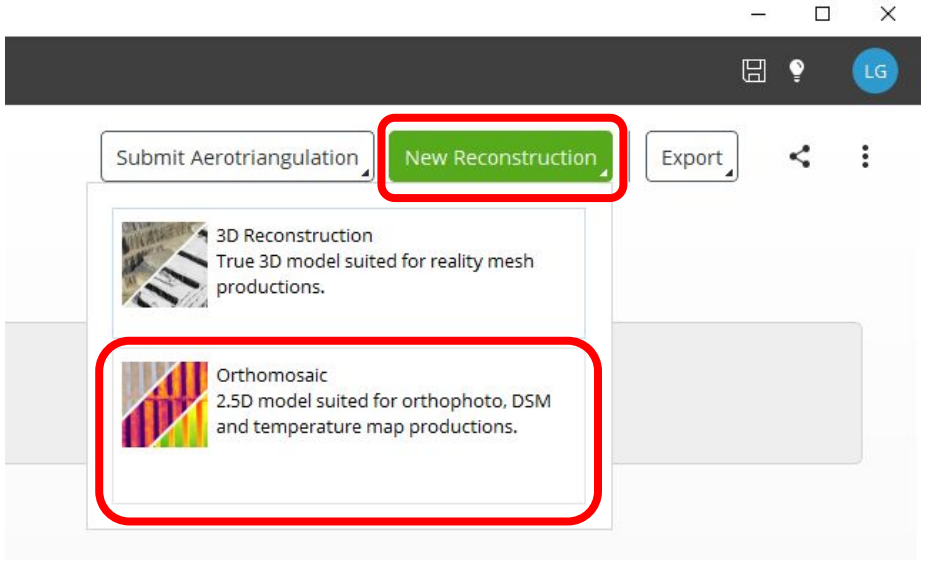
Wait (few minutes, depending on hardware and number and size of images)

Read processing report and have a look at the 3D view

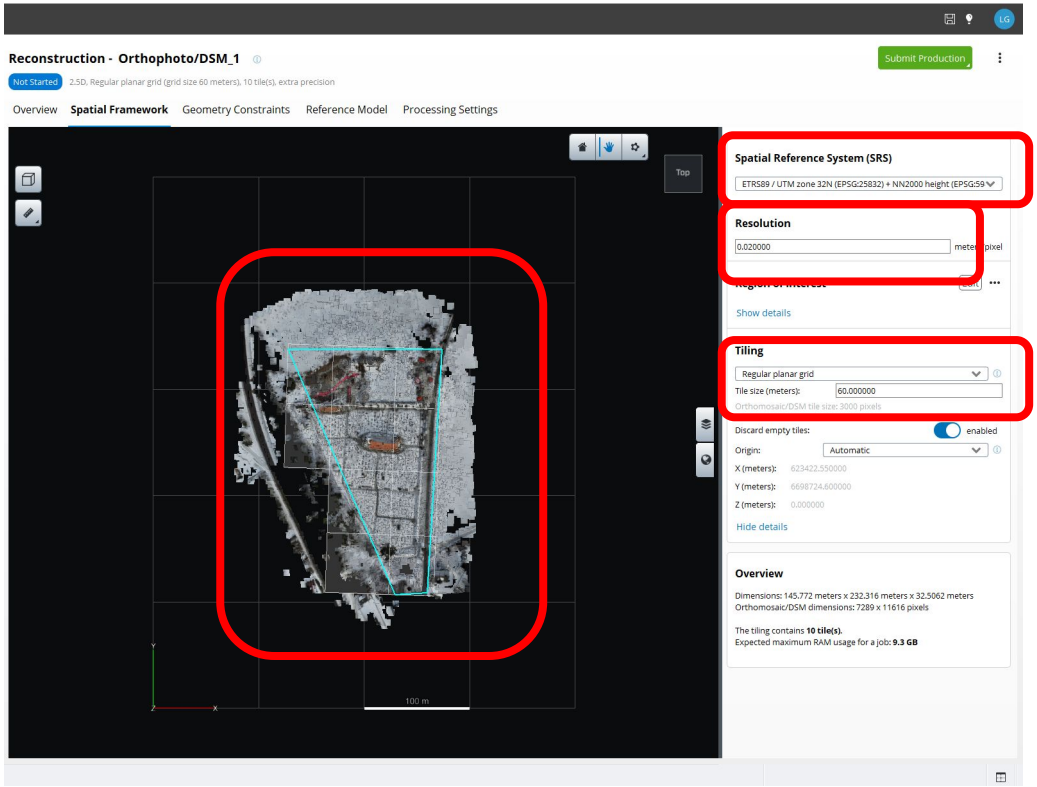


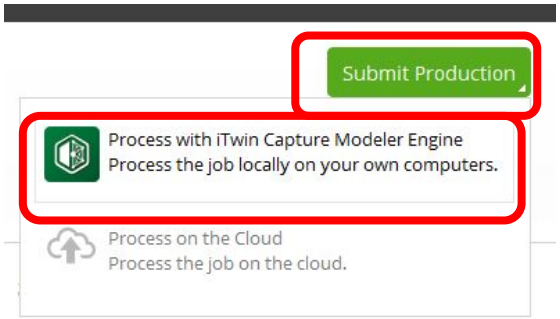


Start a new reconstruction - Orthomosaic

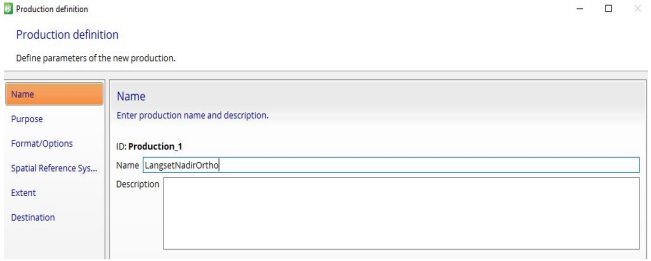


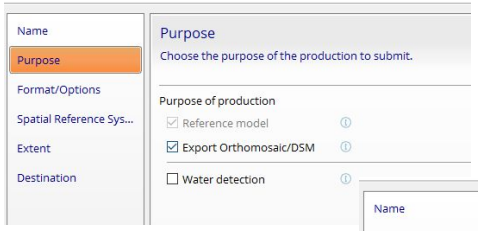
Choose all the appropriate options - submit the job

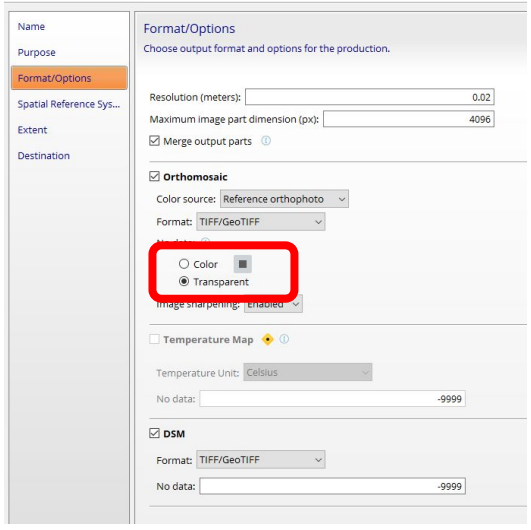


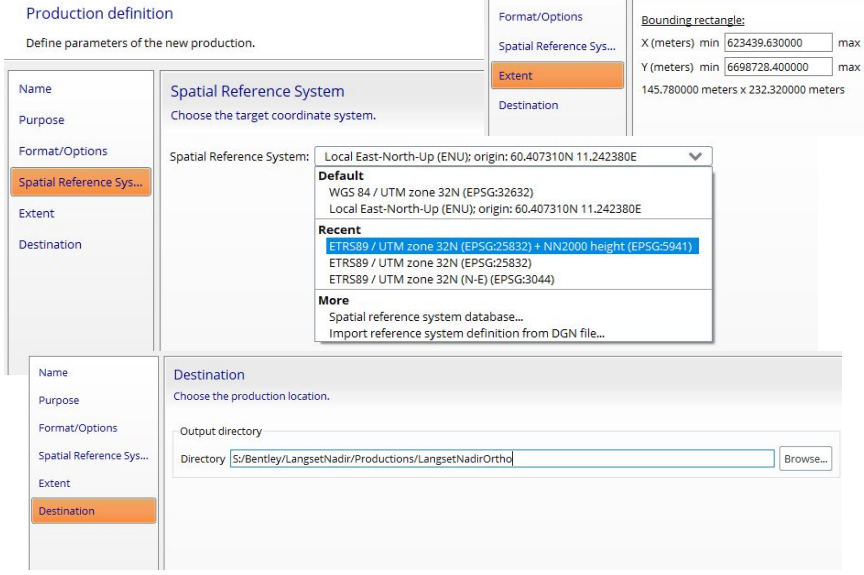


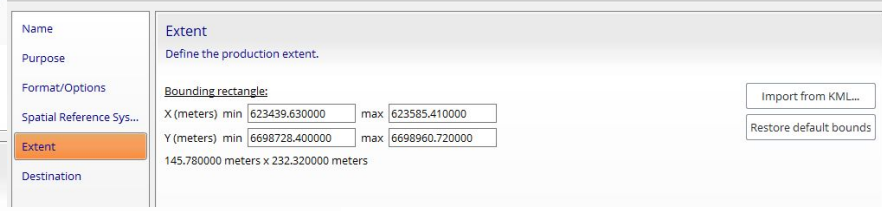
Set options and submit to the iTwin Engine











Wait (quite a long while :|)

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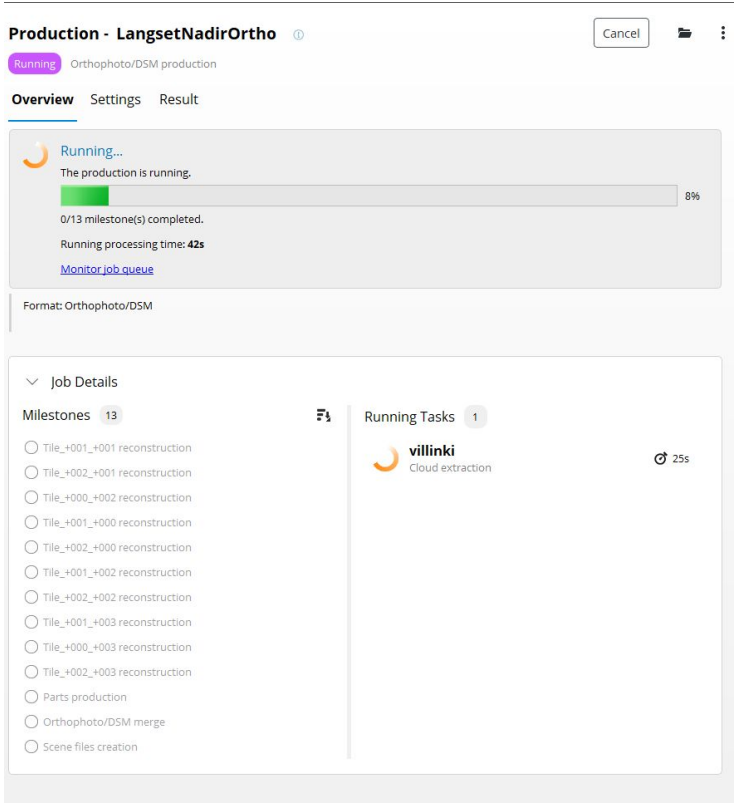

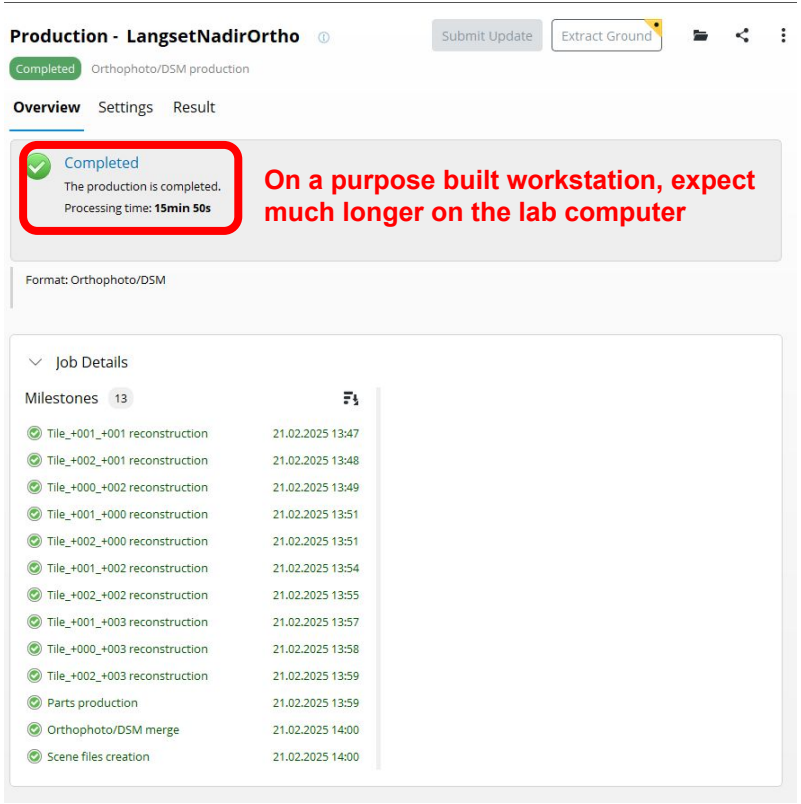

Results
(can be opened in GIS)!

Production ID: **Production_1**

Format: **Orthophoto/DSM**

Destination: **S:/Bentley/LangsetNadir/Productions/LangsetNadirOrtho**

Spatial Reference System: **ETRS89 / UTM zone 32N (EPSG:25832) + NN2000 height (EPSG:5941)**

Sampling distance: **0.02**

Projection type: **Highest point**

Maximum image part dimension (px): **4096**

Merge output parts: **true**

Orthophoto

Enabled: **true**

Format: **TIFF/GeoTIFF**

NoData value: **0 0 0**

NoData transparency: **true**

Color source: **Reference model visible colors**

Image sharpening: **Enabled**

DSM

Enabled: **true**

Format: **TIFF/GeoTIFF**

NoData value: **-9999**

Name	Date modified	Type	Size
orthoPhoto	21.02.2025 14:00	File folder	
LangsetNadirOrtho_DSM_merge.tfw	21.02.2025 14:00	TFW File	1 KB
LangsetNadirOrtho_DSM_merge.tif	21.02.2025 14:00	TIF File	353 284 KB
LangsetNadirOrtho_DSM_merge.tif.ovr	21.02.2025 14:00	OVR File	116 113 KB
LangsetNadirOrtho_ortho_merge.tfw	21.02.2025 14:00	TFW File	1 KB
LangsetNadirOrtho_ortho_merge.tif	21.02.2025 14:00	TIF File	353 284 KB
LangsetNadirOrtho_ortho_merge.tif.ovr	21.02.2025 14:00	OVR File	116 156 KB