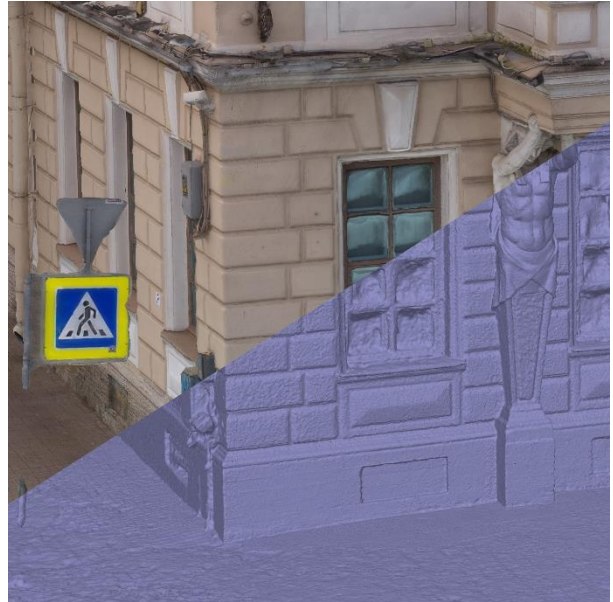# Agisoft PhotoScan vs Agisoft Metashape

Highly detailed mesh generation based on depth maps

Mesh from dense cloud
Agisoft PhotoScan

Mesh from depth maps
Agisoft Metashape

Improved filtering during dense stereo matching helps to reduce noise on the final surface while preserving thin structures within the scene. New depth map based mesh generation method works directly with depth maps data, which allows to reconstruct exceptionally detailed geometry thanks to utilization of all the information available. GPU acceleration support significantly speeds up the processing, while out of core implementation greatly reduces memory consumption compared to previous versions.

Automatic multi-class dense point cloud classification
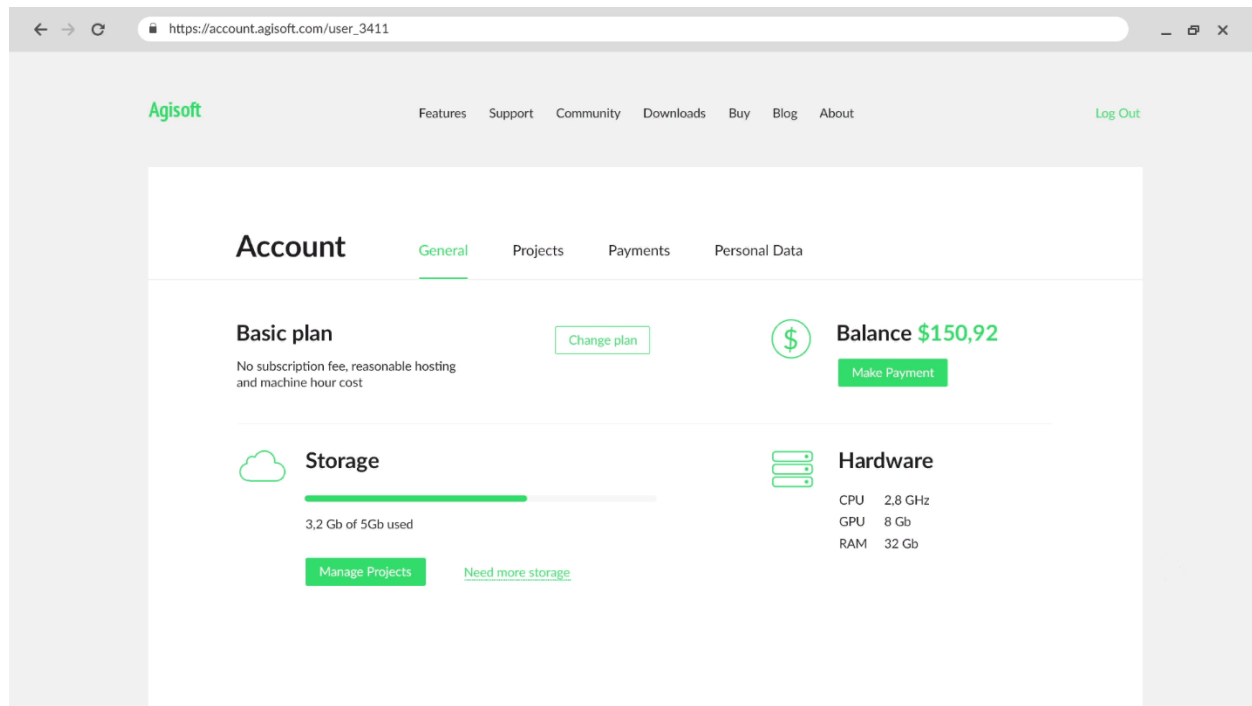

Ground points classification
Agisoft PhotoScan

Multi-class classification
Agisoft Metashape

Agisoft Metashape is enriched with machine learning techniques to solve the crucial task of higher-level interpretation of the scanned data. Semantic classification feature automatically groups photogrammetric points into Ground, Vegetation, Building, Road and Car classes.

We plan to gradually improve the quality of automatic classification as more hand-labeled training data gets prepared. Interested users can help to speed up this process by sending to us labeled dense point clouds according to the guidelines published on our website.

Cloud processing option

Metashape is optimized for multi-core CPUs and multi-GPU systems for fast generation of the results. Distributed processing on a HPC cluster helps to speed up all the calculations for massive data sets even further. Metashape 1.5 presents cloud processing option integrated in the application user interface for those who don't want to invest in the hardware infrastructure. Different payment plans are offered depending on the project demands.

Update from Agisoft PhotoScan to Agisoft Metashape is completely free and does not require any additional payments from the licensed users.