**Metashape Pro**

Every test I perform starts with a dike covered with small stones. In the beginning, the stones are neatly laid out and 63 photos are taken from a frame from above. There are 12 automatically detectable ground control points.

After loading the 63 photos. First I select 'Detect markers'. I would like to insert a Python API which, after detecting the markers, indicates exactly how many markers in total have been found in the 63 photos. This way I know for sure whether the 63 photos went well and whether all GCPs were clearly visible.

Then I will apply the masks. I actually have 6 different files for the masks that have to be applied in the same way each time. The file names of the photos are each time named '' IMG\_0001.tiff '' to 'IMG\_0063.tiff' '

The masks should be adjusted as follows.

photo 1: '' Links\_Initial.jpg ''

photo 2 to 21: '' Links\_Regular.jpg ''

photo 22: '' Midden\_Initial.jpg ''

photo 23 to 42: '' Midden\_Regular.jpg ''

photo 43: '' Rechts\_Initial.jpg '' photo 44 to 63:

`` Rechts\_Regular.jpg ''

After this I align the photos so that I get a point cloud and then I make another dense cloud.

After this I have a matlab file with which I cut away the edges so that I can always compare the different datasets in the same way. I could possibly also send the matlab files later, because maybe they can also be processed in a python API in the software.

After the layers are exactly the same size I apply a mesh of 0.5 cm. With this I can ultimately calculate where damage has occurred on the slope, so I can actually be good at where on the dike stones have left and where stones have been added. Would it also be possible to display this in a Pyhton API? I already have a working Matlab file for this.

Maybe now we can fix the Python APIs in Metashape first and later I would like to transfer the whole working Matlab file to python.

Please let me know whats possible and what not!

