

GISOPEN 2016





Summary

- Photogrammetry is complicated?
- Photogrammetry everywhere
- Photogrammetry in Trimble
- Why using a UAS
- Why processing with UASMaster, Workflows



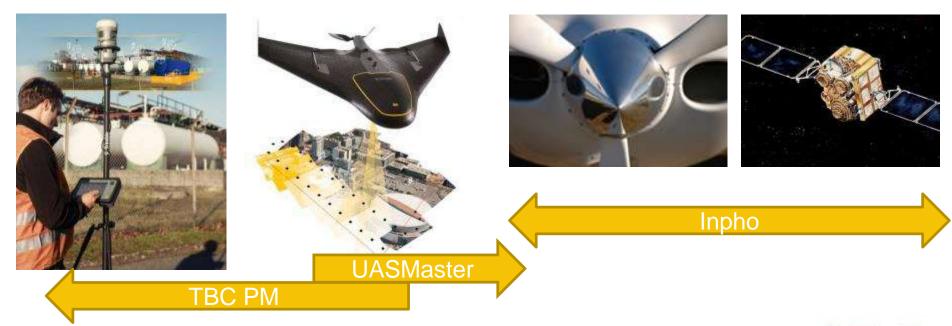
Photogrammetry was complicated!





Trimble Photogrammetry

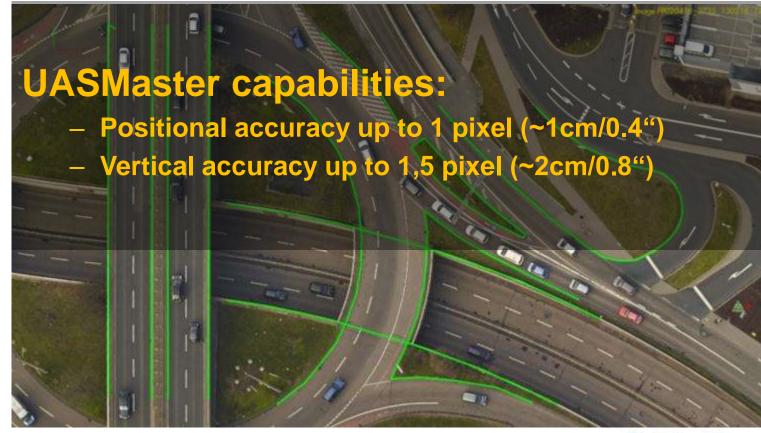
- The application defines the best suited acquisition method and processing routines
 - Data availability, time for preparation, processing, scale, precision, area size





What can I expect?

Imagery with a ground sample distance of up to 1cm / 0.4"

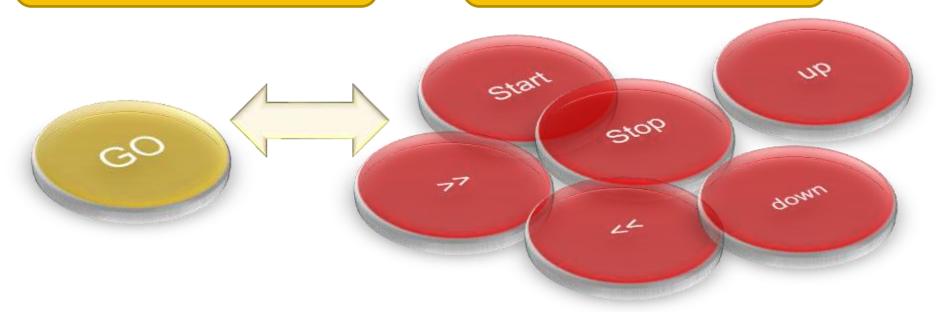


Why UASMaster?

UASMaster offers full flexibility <u>AND</u> ease of use

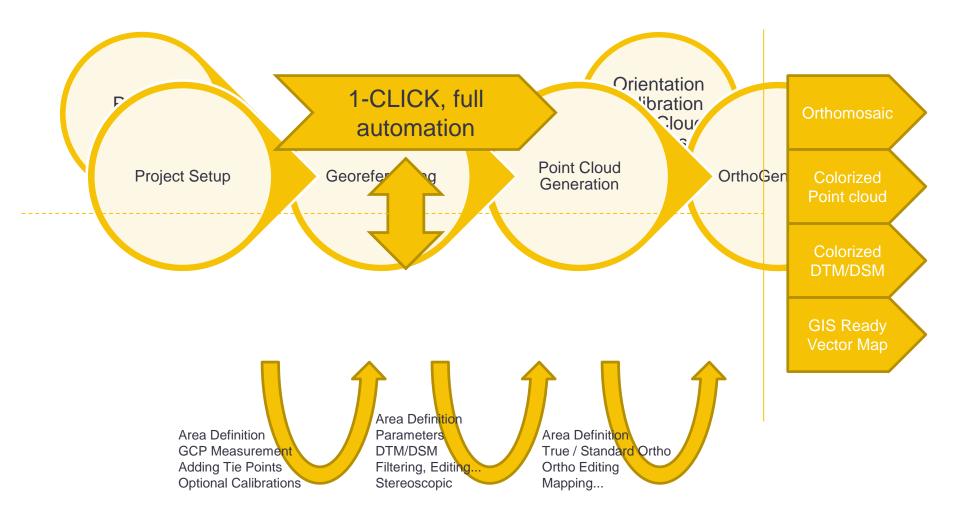
Easy to use 1-CLICK processing

Flexible parameters, full editing capability, detailed analysis





1-Click or Multi-Stop Process

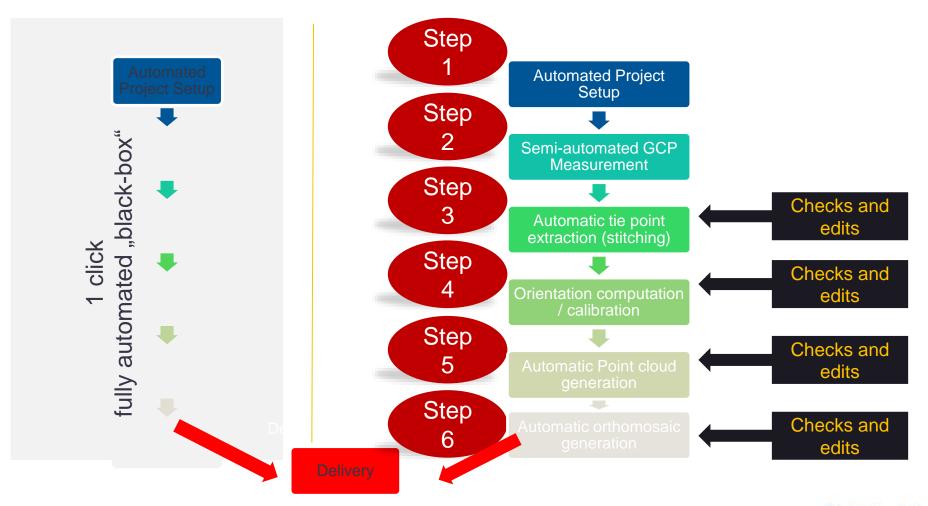




Open hardware concept

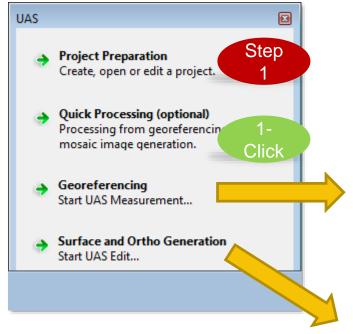


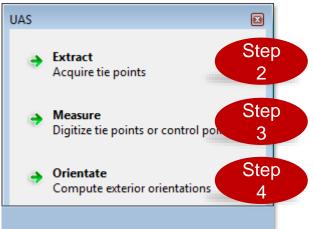
A full process with one click OR interactive processing in just 6 Steps

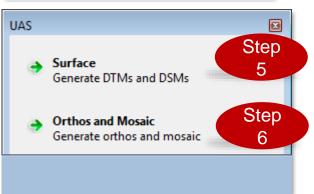


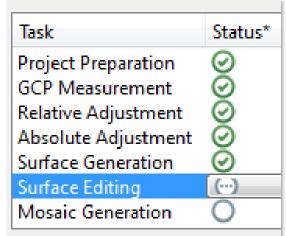


Guided Workflows



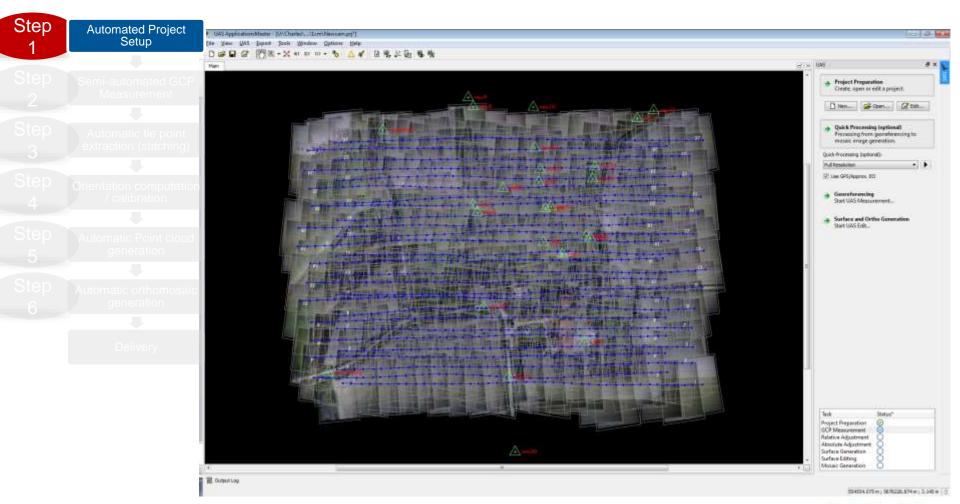






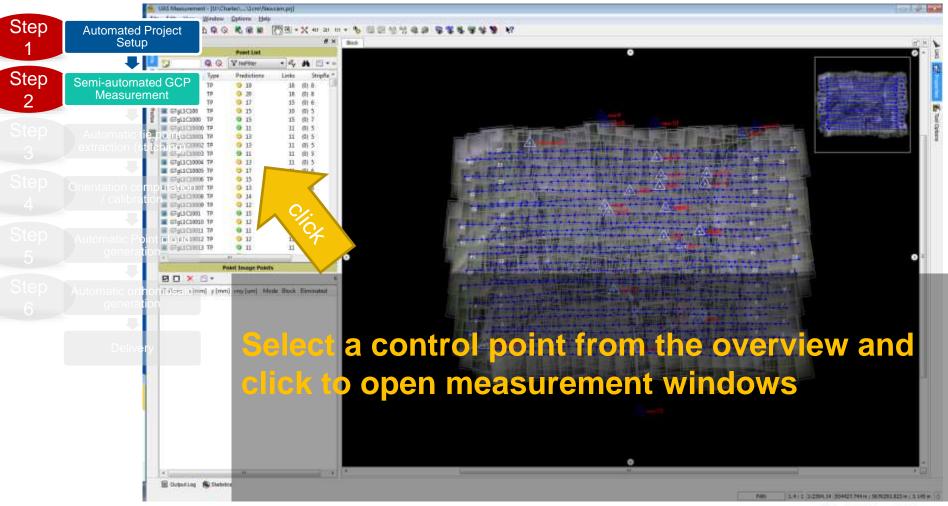


Mission Overview after Project Setup

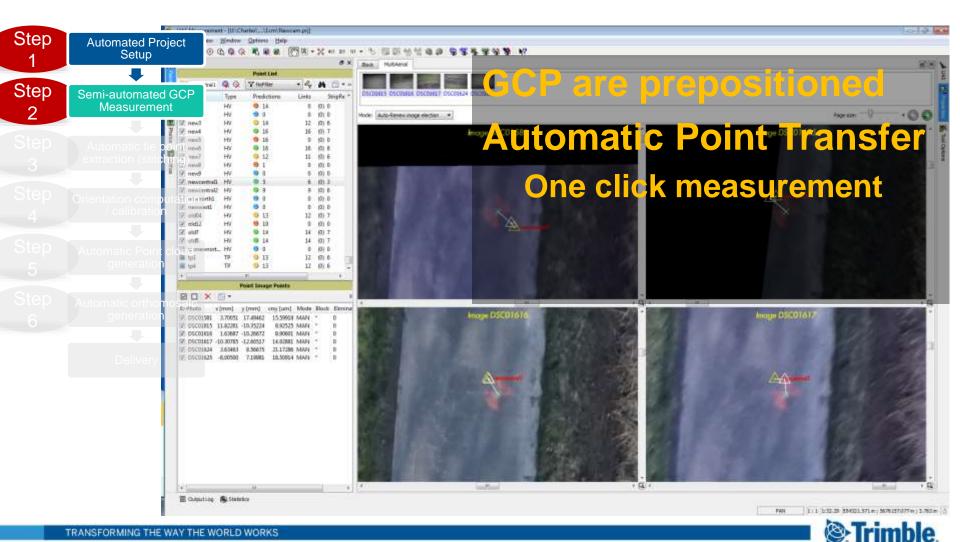




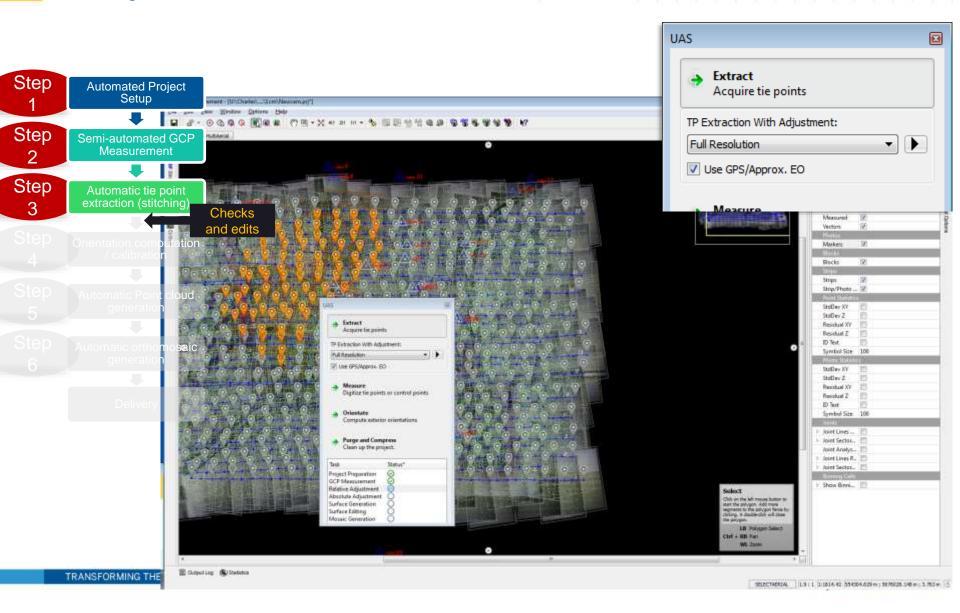
Step 2: GCP Measurement



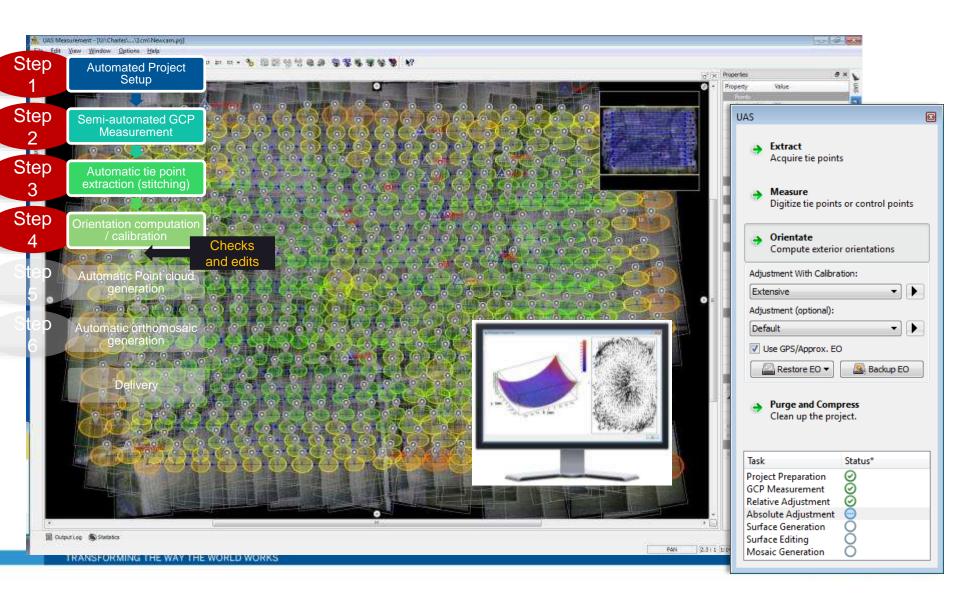
Step 2: GCP Measurement



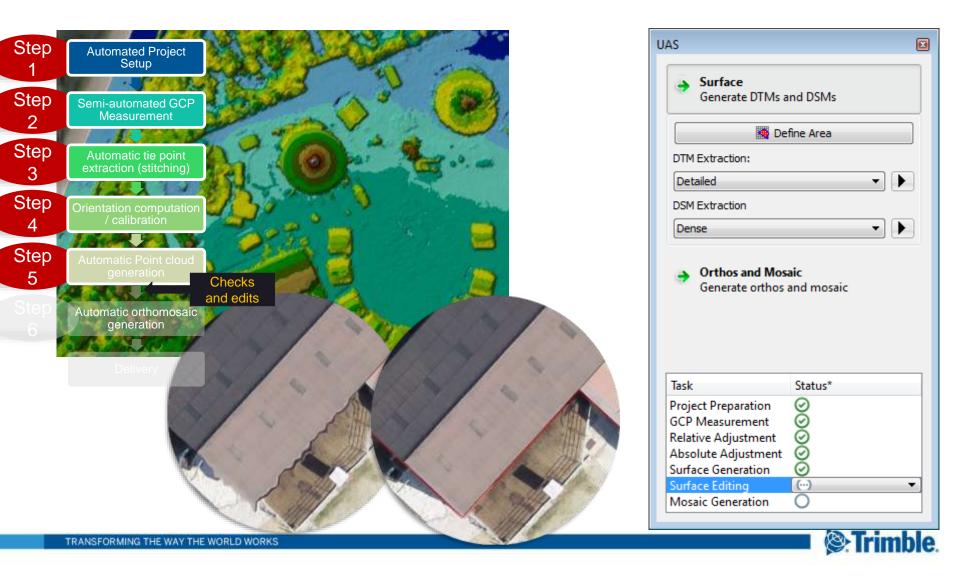
Step 3: Auto-Extract Tie Points



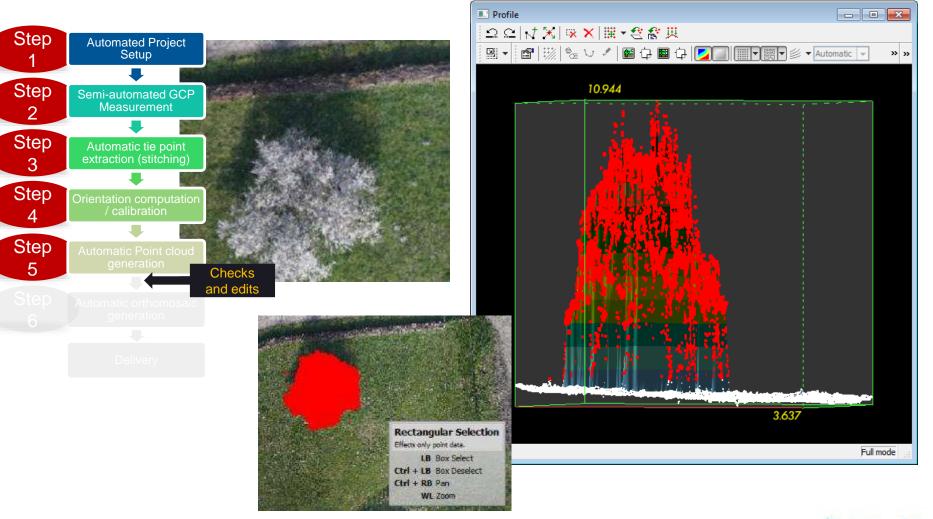
Step 4: Orientation and Calibration



Step 5: Point Cloud Generation

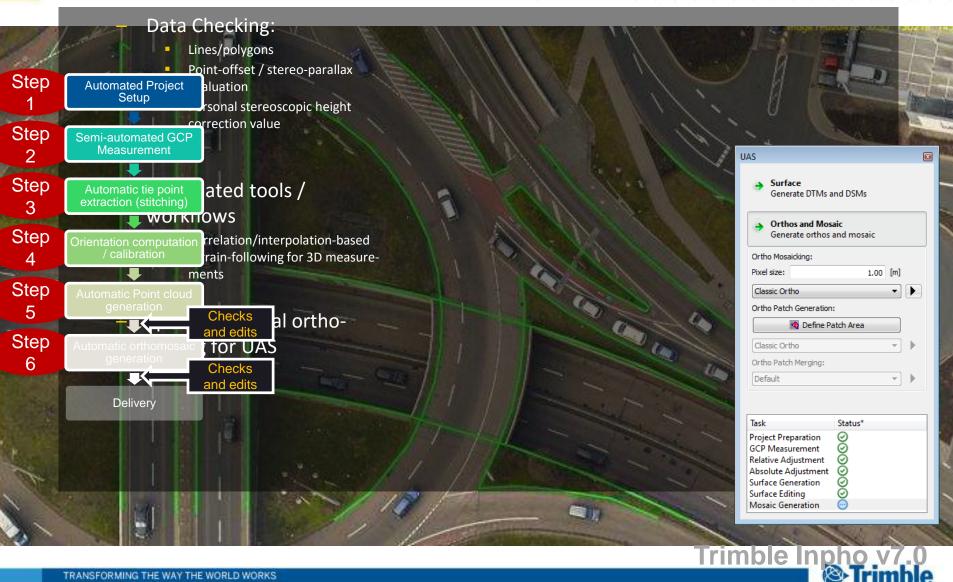


Partial editing

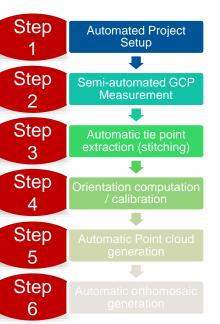




Step 6: Ortho & Digitizing

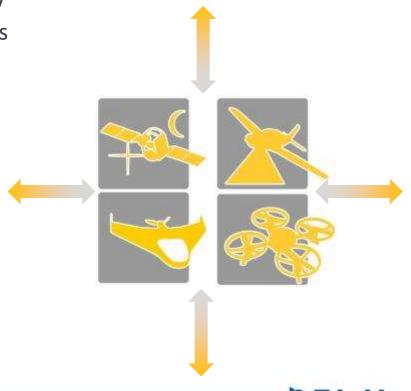


Interoperability



Integration into Trimble and 3rd party software seamless integration of data and efficient project delivery

- Trimble Geoids
- Jpeg2000
- LAS 1.4
- LasZip
- EXIF-Reader



From A to Z in 2.5 hrs



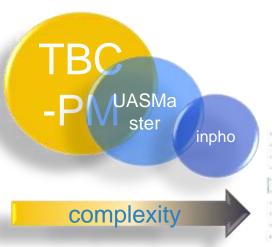


UASMaster is different

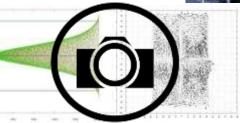
- 1-Click processing option (black-box)
 (AT/georeferencing, cameracalibration,
 DTM/DSM, trueortho or traditional orthomosaic)
- Optional 6-step interactive process with parametrization
- Reliable QA/QC
- Full stereo visualization for better manual/automated editing and mapping

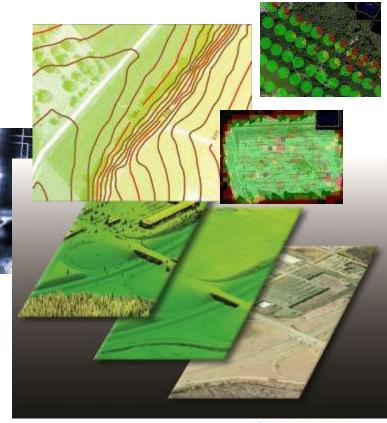
Complete INPHO technology in one tool, limited

to UAS data











Why UASMaster?

- Reliably deliver <u>highest quality GIS ready</u> data
- Why hassle with missing functionality if you can have <u>one-click processing and full photogrammetric flexibility</u> in one tool
- UASMaster is the right product for any experience level

