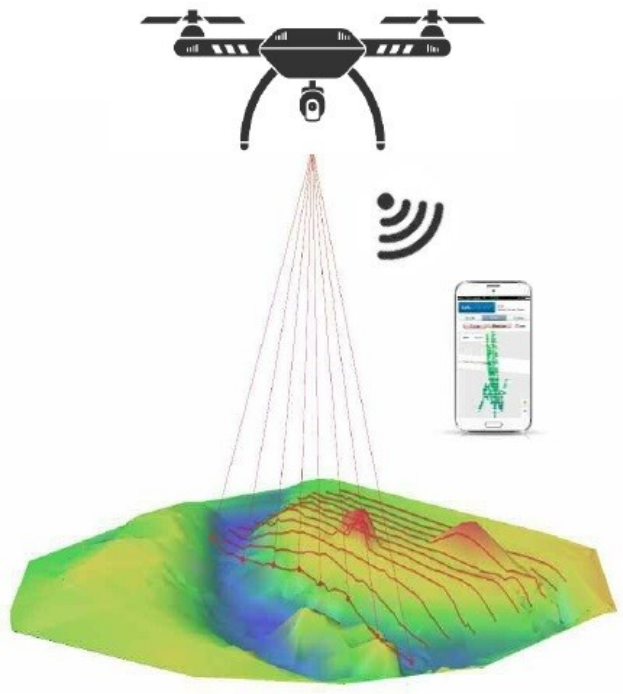
3D Terrain Co-ordinates: Centimeter Accuracy Directly During the Measurement!



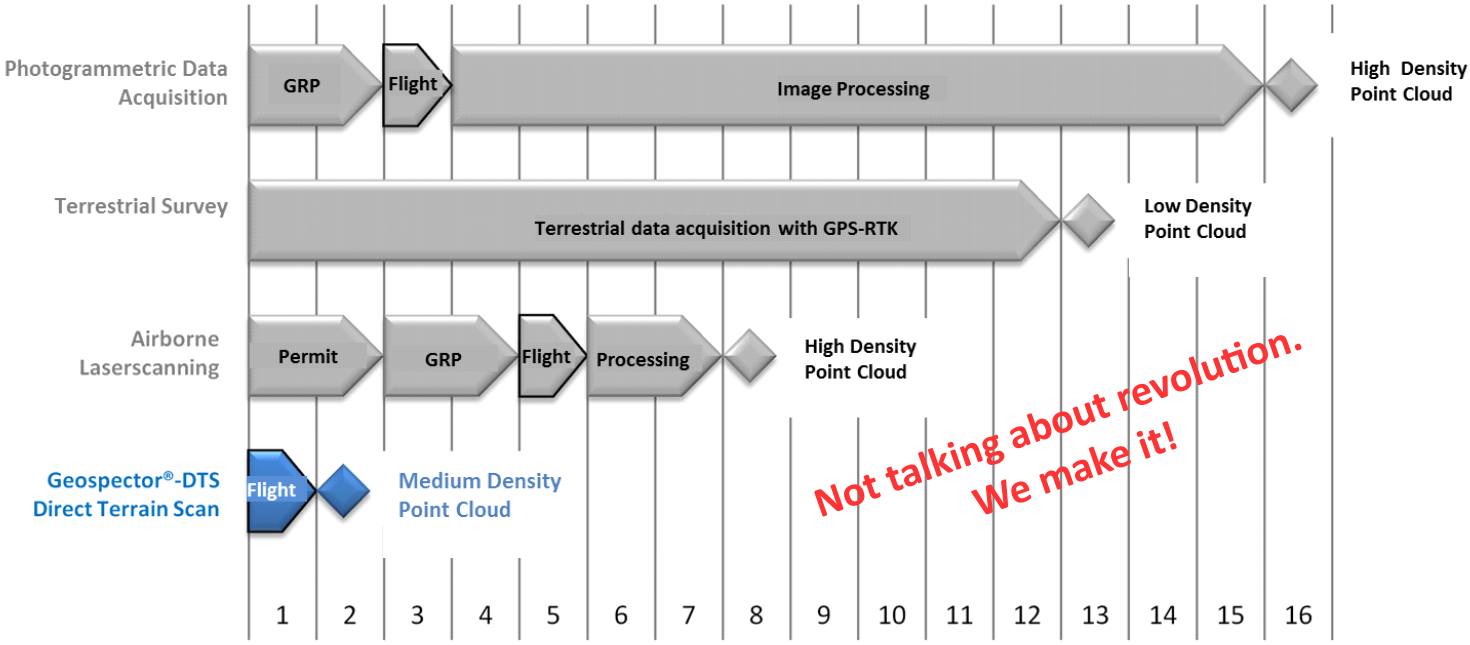
→ **Data acquisition in minutes (instead of hours and days)**

→ **No preparation time or editing necessary, immediately geo-referenced co-ordinates available**

→ **Accuracy < 3 cm in position and altitude**

→ **For operation with UAV (< 5 kg) or terrestrial measurements**

→ **Can be applied for elevation and volume models, profiles, 3D visualization, mapping**



Exemplary expenditure of work in hours for the measurement of a terrain profile.
Gravel quarry respectively landfill with an area of 14 ha.

GEO.SPECTOR®

Aerial Photography, Surveying and Photogrammetry with UAV

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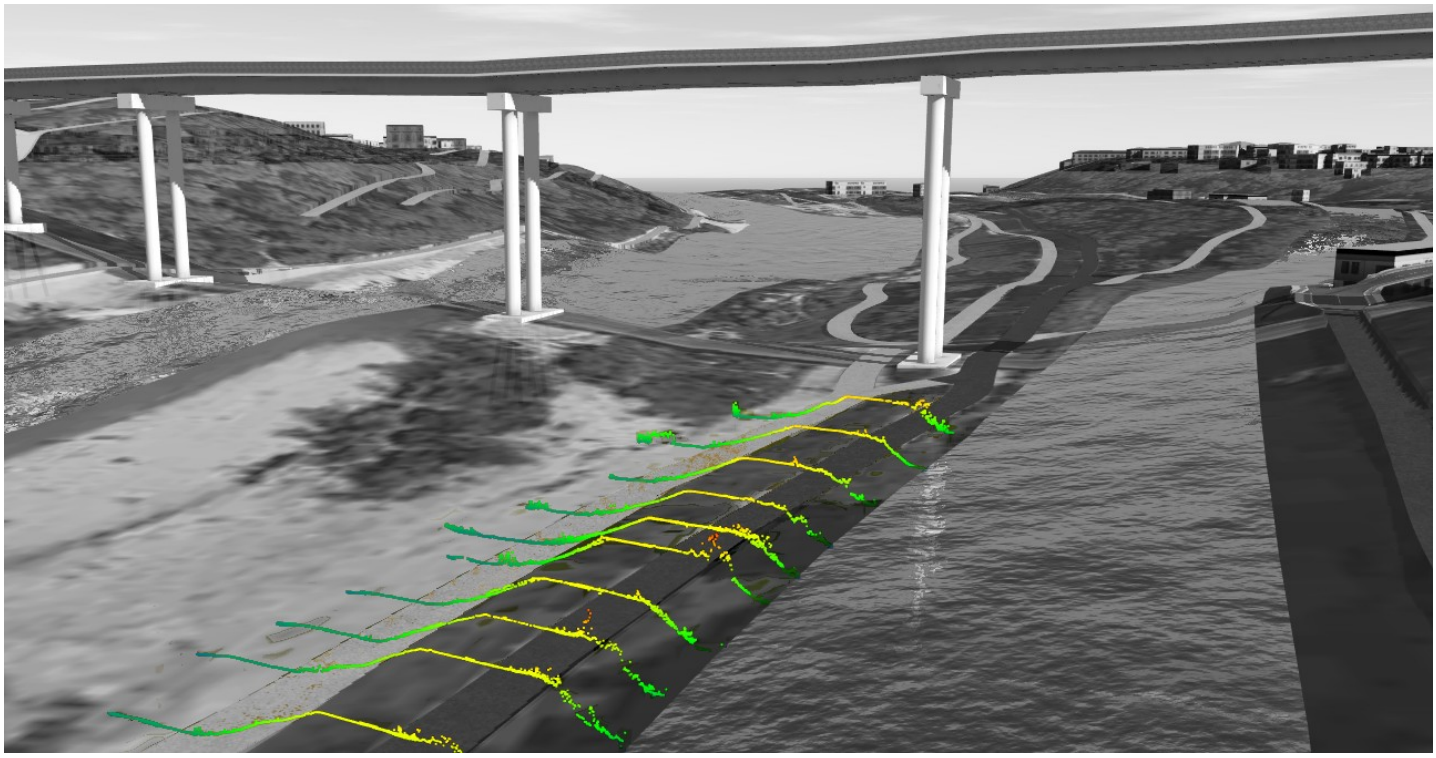
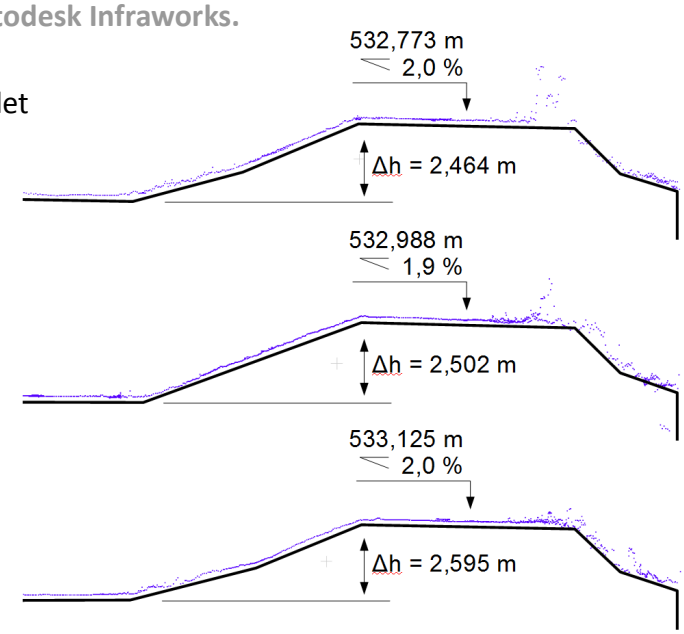
Example: Profile Measurement of Dam



Scan of dam of Isar channel in Munich south of Großhesseloher Bridge
Area: 120 x 30 m. Flighttime 4 minutes. Visualization Autodesk Infraworks.

- Transfers 3D-Co-ordinates directly to smartphone or tablet
- Mapping capacity of 20 hectares/hr with UAV
- Direct geo-referencing, no reference points needed
- No processing necessary, co-ordinates are directly exported after the measurement
- Multi-echo technology allows mapping in woody and uniform areas
- Ideally suited for volume measurements in quarries, open cast mines and landfills
- Future Apps (e.g. on-site volume calculation)



Exemplary dam profiles
Accuracy (1 sigma) 8 millimeters

Technical Data (preliminary)

- Accuracy in position and altitude < 3 cm
- Flight height: max. 35 m
- Sampling rate: max 500 co-ordinates / second
- Power supply: 14 – 36 V, 9W
- Weight 480 g
- Initialization time < 60 seconds

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