

InStep Project[©]

• *supported by*

• Visegrad Fund

Photogrammetric measurement of Obchodná street

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Content

- Photogrammetry
- Field works (surveying + taking of images)
- Photogrammetric processing
- Challenges
- Outputs

Photogrammetry

- Creation of 3D models and other metric documentation based on images
- Structure from motion (SFM)...

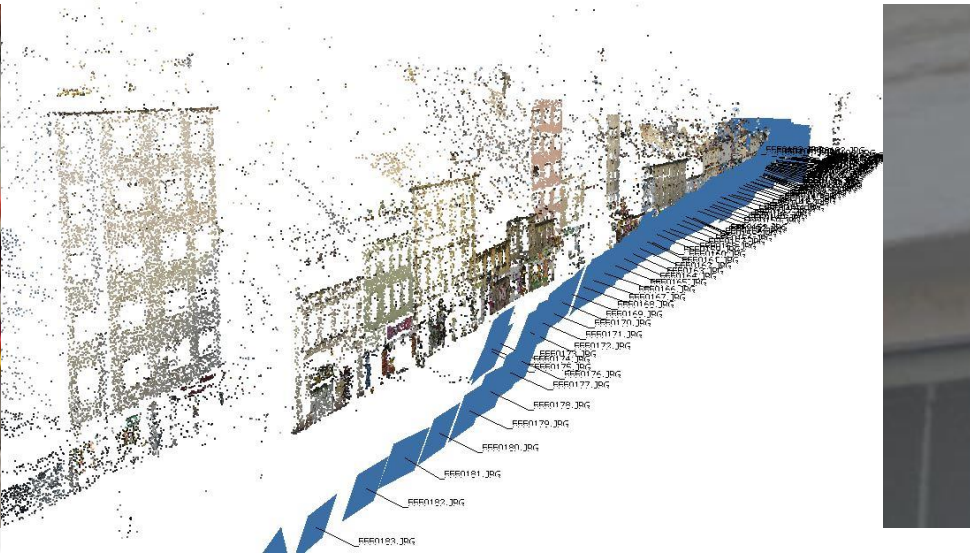


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Field works



- Surveying (63 GCP) + photogrammetry (274 images)
- Spatial polar method (Leica TS30) + GNSS (Trimble R8)
- Taking of images (Nikon D800E + 20 mm lens)

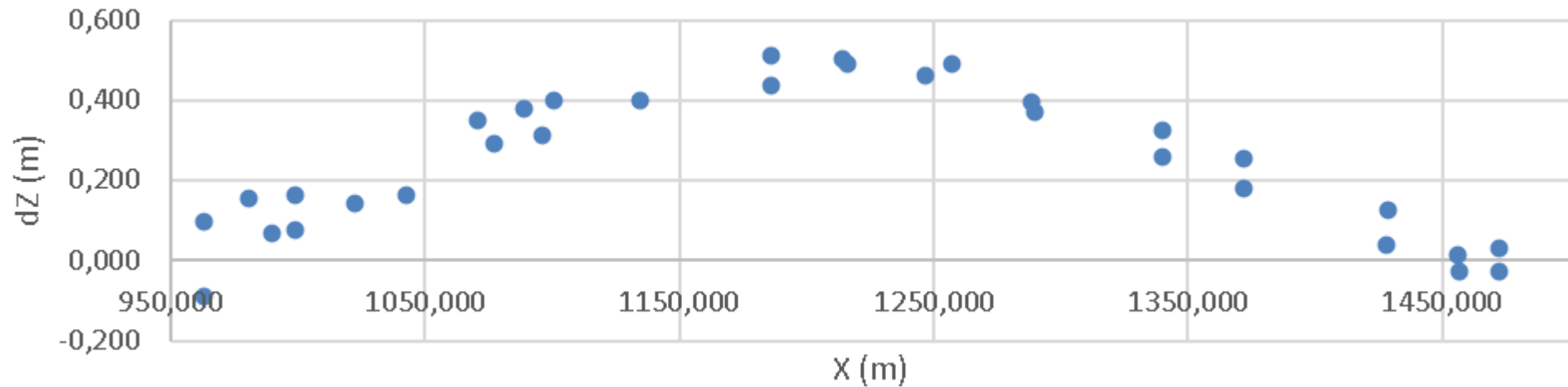


Photogrammetric processing

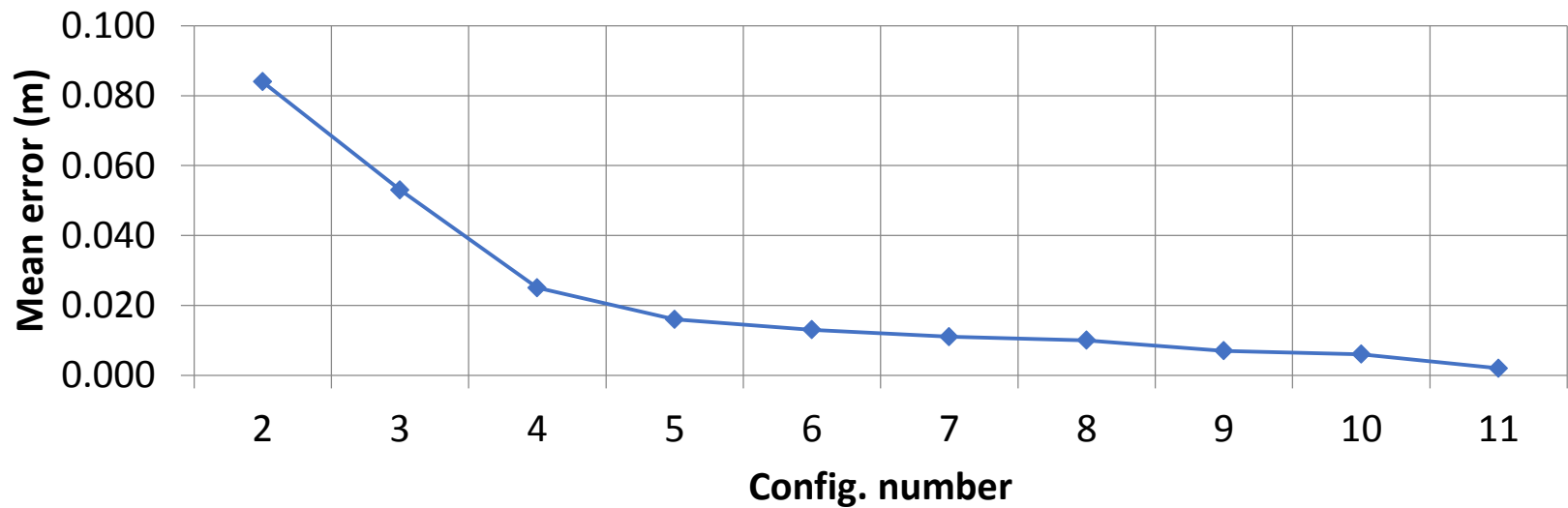
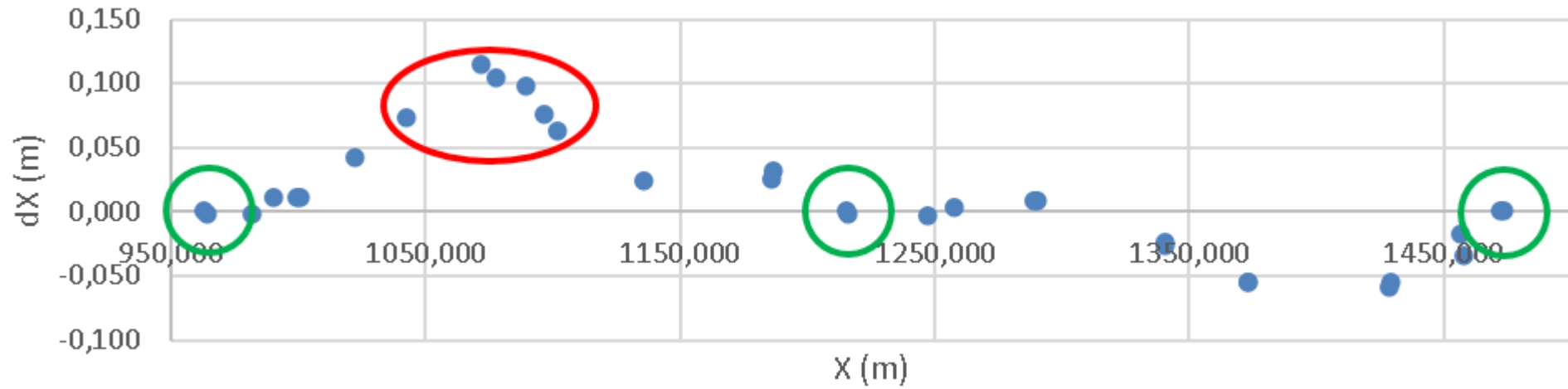
- Agisoft PhotoScan Professional
- Testing of GCP distribution



Testing of GCP distribution



Testing of GCP distribution



Outputs

- Dense point cloud → Mesh → Orthophotomosaics



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Thank you for your attention