À
TRIBUNAL DE JUSTIÇA DO ESTADO DO AMAZONAS

PROPOSTA COMERCIAL PARA FORNECIMENTO DE LICENÇAS DE SOFTWARE
EDITAL DO PREGÃO ELETRÔNICO N.o 023/2026 - TJAM

Pelo presente instrumento, vimos apresentar nossa proposta de preços relativa ao objeto desta licitação, bem como as informações, condições da proposta e declarações exigidas no Edital do pregão acima citado.

Razão Social:	LICENTECH GLOBAL TECHNOLOGIES 002 LTDA	CNPJ:	63.777.307/0001-13
Representante Legal:	GABRIEL VICENTE DA SILVA	CPF:	041.071.300-70
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Conta-Corrente:	35866-5		

1. PLANILHA DE PREÇOS

ITEM	DESCRIÇÃO	UNID.	QUANT.	VALOR UNIT.	VALOR TOTAL
03	Software Metashape (licença perpétua): Plataforma profissional de fotogrametria digital voltada ao processamento de imagens captadas por VANTs. O software deve permitir a geração automatizada de ortomosaicos georreferenciados, modelos digitais de superfície (MDS/MDT), nuvens de pontos e	Unidade	01	19.900,00	19.900,00

	relatórios de qualidade, com precisão abaixo do centímetro. O software deve ser compatível com qualquer câmera RGB ou multiespectral, oferecer ambiente de controle rayCloud®, edição de GCPs e exportação para sistemas CAD e GIS, completando o fluxo técnico de mapeamento aéreo.				
Valor líquido dos itens:				19.900,00	

O software **Agisoft Metashape Professional versão 2.2** atende integralmente e **supera as especificações técnicas exigidas** no presente edital, especialmente no que se refere ao processamento de dados para mapeamento aéreo, fotogrametria digital e geração de produtos geoespaciais, em conformidade com o objeto da contratação .

A solução ofertada contempla um conjunto completo e avançado de funcionalidades, incluindo:

- Processamento fotogramétrico automatizado de imagens obtidas por VANT/Drone, com alinhamento preciso baseado em algoritmos de reconstrução multi-view (SfM e MVS);
- Geração de **nuvem de pontos densa georreferenciada**, com suporte a dados RTK/PPK e integração com pontos de controle (GCPs), garantindo elevada acurácia posicional;
- Produção de **Modelos Digitais de Superfície (MDS)** e **Modelos Digitais de Terreno (MDT)**, com classificação automática de pontos;
- Geração de **ortomosaicos de alta resolução**, com correção geométrica e radiométrica;
- Reconstrução de **modelos 3D texturizados** com alto nível de detalhamento;
- Ferramentas avançadas de edição, análise e exportação em múltiplos formatos compatíveis com softwares SIG/CAD;
- Suporte a processamento em CPU e GPU, com otimização de desempenho para grandes volumes de dados;
- Automação de fluxos por meio de scripts (Python API), permitindo escalabilidade e padronização dos processos.

Adicionalmente, o software apresenta **ampla compatibilidade com sensores e plataformas de mercado**, incluindo drones com sistemas RTK, câmeras multiespectrais e dados provenientes de diferentes fontes, garantindo flexibilidade operacional e aderência às necessidades institucionais.

Destaca-se, ainda, que o Metashape Professional possui reconhecimento consolidado no mercado de geotecnologias, sendo amplamente utilizado em aplicações de **cartografia,**

topografia, engenharia, regularização fundiária e georreferenciamento, atendendo plenamente às exigências de precisão, confiabilidade e rastreabilidade dos dados.

Dessa forma, resta evidenciado que a solução proposta não apenas cumpre os requisitos mínimos estabelecidos, como também oferece **recursos técnicos superiores**, agregando maior qualidade, eficiência operacional e robustez aos resultados esperados pela Administração.

2. CONDIÇÕES GERAIS DA PROPOSTA

2.1 A presente proposta é válida por **60(sessenta)** dias contados da data de sua apresentação.

2.2 Pelo presente, a empresa acima qualificada, por meio do signatário, que legalmente a representa, declara e garante que:

1. examinou cuidadosamente todo o Edital e Anexos e aceita todas as condições nele estipulados e que, ao assinar a presente declaração, renúncia ao direito de alegar discrepância de entendimento com relação ao Edital;

2. que tomou conhecimento de todas as informações e das condições para cumprimento das obrigações, objeto da presente licitação.

3. que na qualidade de parceira oficial, garante que todas as licenças fornecidas são legítimas e adquiridas diretamente da fabricante.

4. declarou estar plenamente ciente e de acordo com o prazo de entrega estipulado para o fornecimento das licenças, comprometendo-se a disponibilizá-las no prazo a partir da assinatura do contrato, conforme as condições estabelecidas no edital.

Novo Hamburgo, 19 de Março de 2026

LICENTECH GLOBAL TECHNOLOGIES 002 LTDA:63777307000113

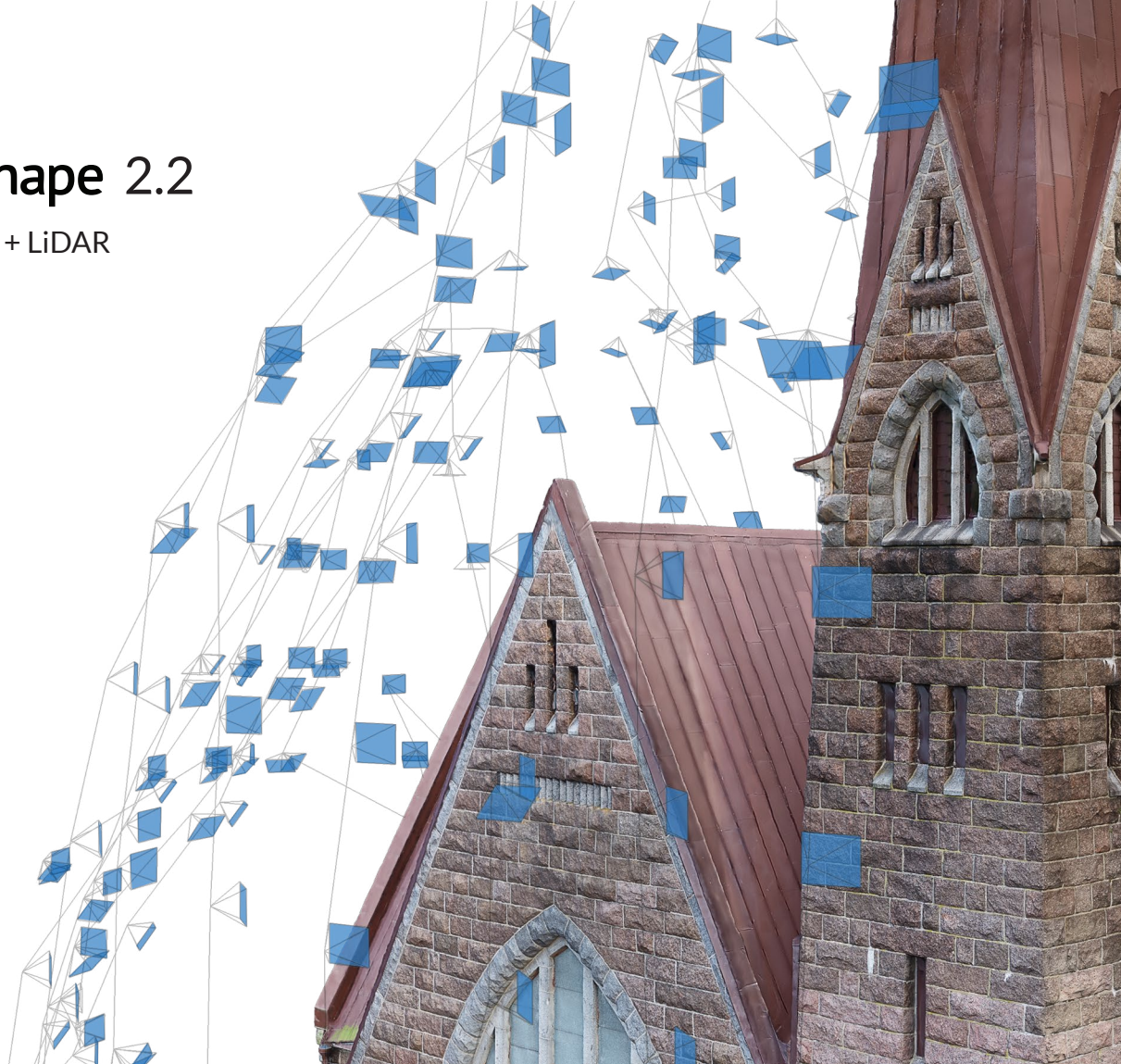
Assinado de forma digital por LICENTECH GLOBAL TECHNOLOGIES 002 LTDA:63777307000113
Dados: 2026.03.19 13:18:50 -03'00'

Gabriel Vicente da Silva - Sócio Administrador

Licentech

Metashape 2.2

Photogrammetry + LiDAR



Agisoft

Agisoft Metashape — Intelligent photogrammetry enhanced with LiDAR data processing

Agisoft Metashape is a cutting-edge software solution, with its engine being continuously developed to implement recent scientific advancements in the field of photogrammetry. The software allows to process images from RGB or multispectral cameras, including multi-camera systems, into the high-value spatial information in the form of photogrammetric point clouds, textured polygonal models, georeferenced true orthomosaics and DSMs/DTMs. Images can be co-processed with LiDAR points to exploit advantages of both data sources. Further post-processing enables to eliminate shadows and texture artifacts from the models, calculate vegetation indices and extract information for farming equipment action maps, automatically classify dense point clouds, etc.

Runs on Windows,
macOS and Linux

Very fast & highly accurate

Based on the state-of-the-art technology developed by Agisoft, Metashape allows for very fast processing, providing at the same time consistent and highly accurate results both for aerial and close-range photography (up to 3cm for aerial, and up to 1mm for close-range photography), as well as for LiDAR data based surface reconstruction.

Local or cloud processing

Agisoft Metashape is capable of processing of 50 000+ photos across a local cluster, thanks to distributed processing functionality. Alternatively, the project can be easily sent to the cloud to minimize hardware investment, with all the processing options being still available.

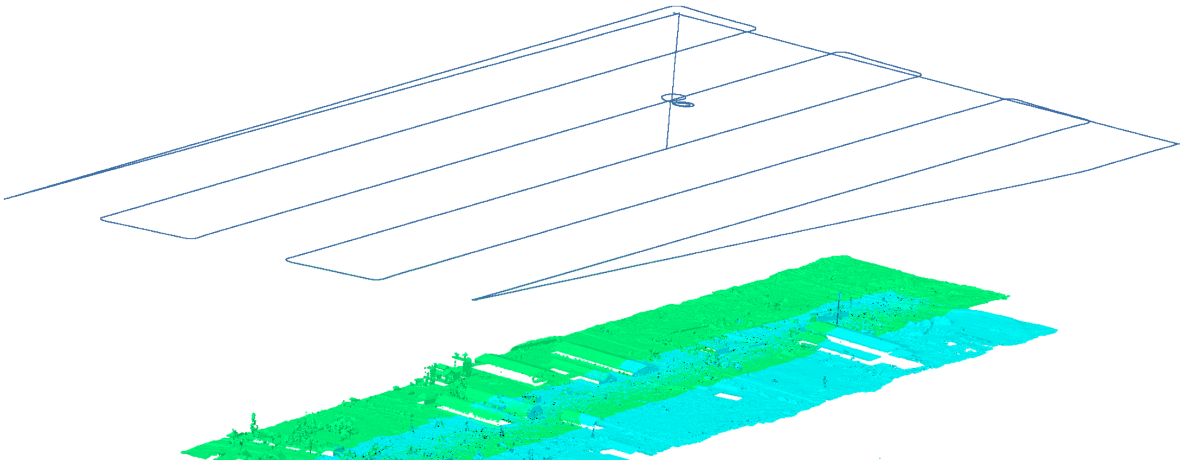
Intuitive UI & stereo mode

The software package has a linear project-based workflow that is intuitive and can be easily mastered even by a non-specialist, while professional photogrammetrists can benefit from advanced features like stereo mode and have complete control over the results accuracy, with detailed report being generated at the end of processing.

NEW FEATURES

Aerial LiDAR boresight calibration support

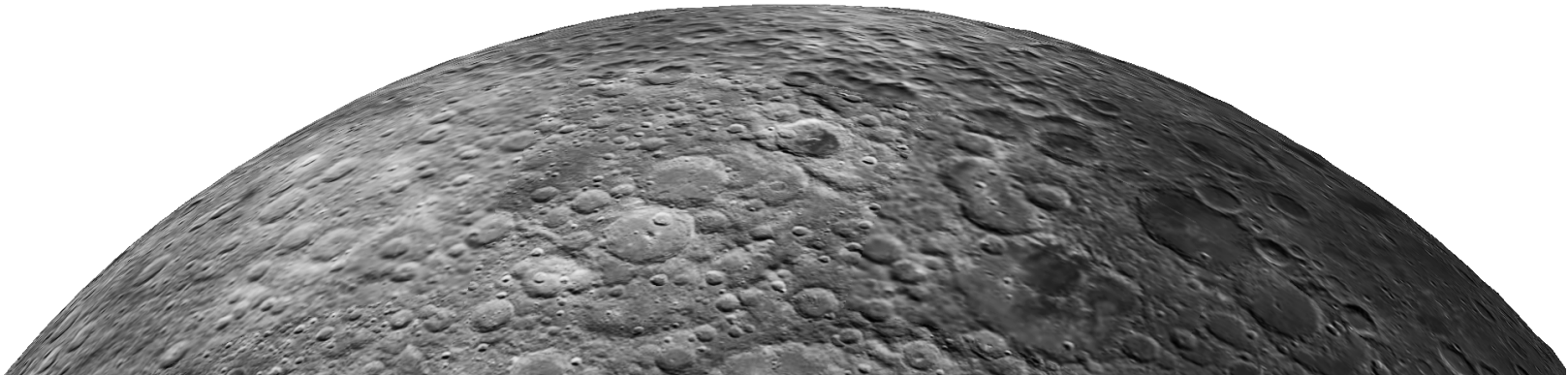
Improved alignment accuracy for aerial laser scans is now available through boresight calibration based on overlapping flight trajectories. Metashape analyzes common features between adjacent flight lines to refine the orientation of LiDAR data, reducing relative shifts and eliminating misalignments in overlapping point cloud areas. The **Difference View** tool allows for visual inspection of vertical inconsistencies between point clouds from different flight paths. To assess absolute elevation accuracy, users can employ the **Measure Elevation** tool with reference to ground control points (GCPs). Additionally, the **Classify Overlap Points** command helps optimize source data by identifying and removing redundant points in overlap zones, streamlining the surface reconstruction process.



NEW FEATURES

Horizontal shift grid support for coordinate transformations

Metashape 2.2 supports more accurate coordinate transformations based on horizontal geodetic shift grids, which are necessary for working with coordinate systems such as Amersfoort / RD New + NAP height. In addition to standard EPSG-based systems, the software now supports planetary coordinate systems for Mars and the Moon. Integrated planetary basemaps allow for native visualization of extraterrestrial datasets, while export to Cesium 3D Tiles in non-Earth coordinate systems ensures seamless integration into planetary GIS workflows.



NEW FEATURES

Orthomosaic pansharpening tool

Metashape 2.2 introduces a pansharpening tool to enhance orthomosaic quality using higher-resolution panchromatic data. By fusing the spatial detail of the panchromatic channel with the spectral information from multispectral or RGB imagery, the software produces sharper, more detailed orthomosaics — ideal for applications requiring both high resolution and accurate color representation.

NEW FEATURES

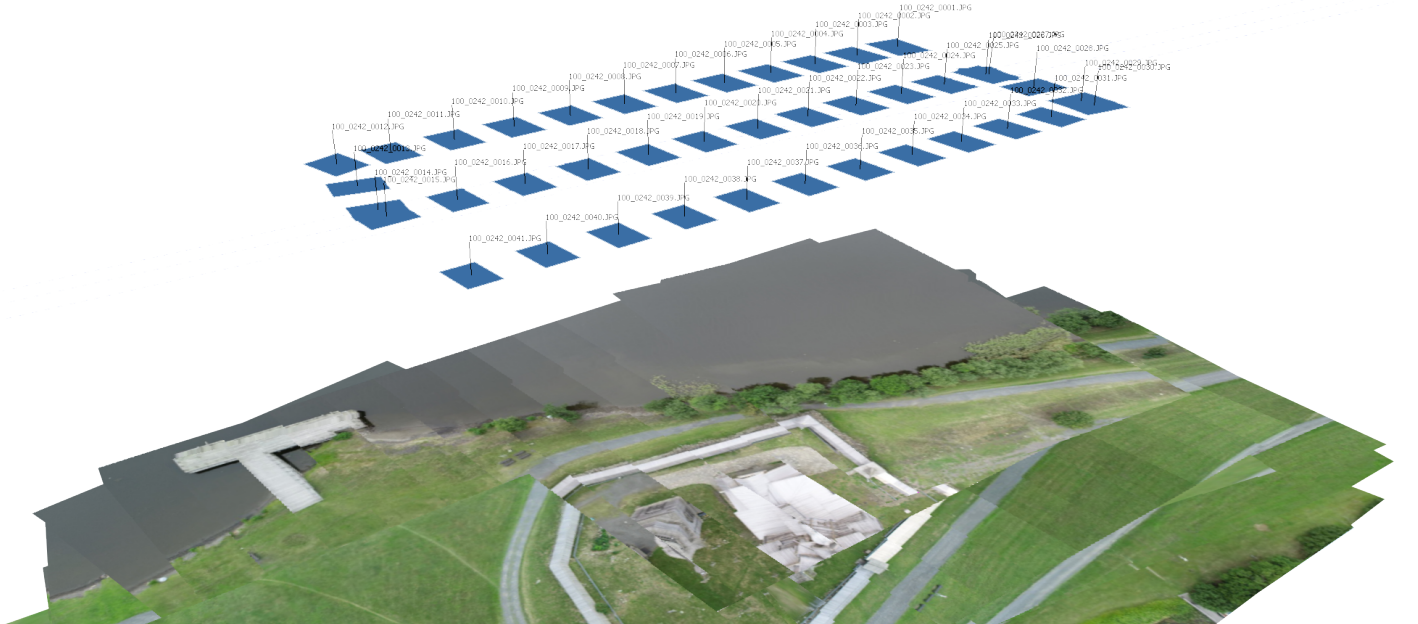
AI-based background masking

Metashape 2.2 introduces AI-powered background masking for close-range photogrammetry projects, enabling automatic removal of irrelevant background content without the need for reference models or background images. Unlike traditional masking approaches, this tool requires no manual setup, streamlining the preprocessing stage. Generated masks are organized into separate layers, allowing users to manage and toggle multiple mask instances directly from the Workspace pane with ease and flexibility.

NEW FEATURES

Oblique imagery support in Agisoft Viewer

Agisoft Viewer now supports visualization of oblique imagery by projecting source photos onto the global basemap, enabling quick inspection using aerial data sets without requiring prior alignment. New snapping tools further improve the vectorization experience by allowing precise shape creation with vertex snapping, streamlining manual digitization tasks.

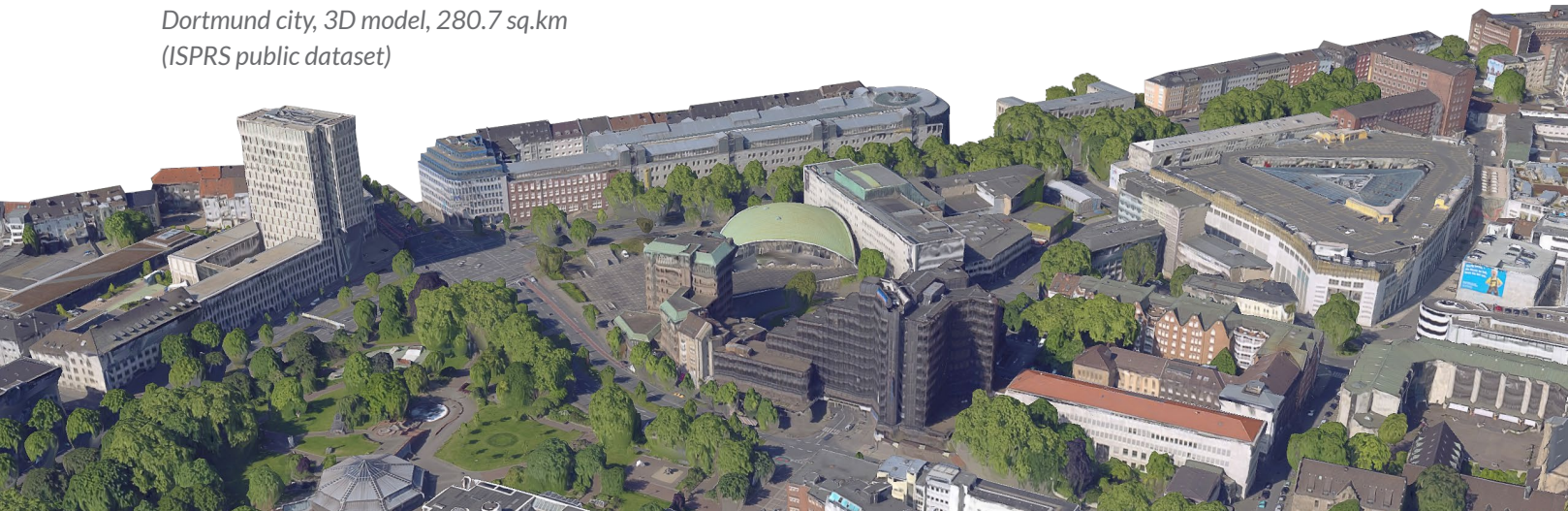


FIELDS OF APPLICATION

Surveying

Metashape enables to create 3D models from aerial imagery. The functionality of the program is being constantly developed according to the tasks set by rapidly emerging UAS industry. Starting from version 2.0 Metashape works with aerial LiDAR data and allows to generate 3D surface model based both on images and LiDAR point clouds. Thanks to LiDAR trajectory and metadata support, combined data approach proves to add quality to the reconstruction results when the project works with narrow passages or forestry areas, for example. These functionality plus possibility to run distributed processing as well as support for tiled model generation and export makes Metashape a practical tool for city scale projects.

Dortmund city, 3D model, 280.7 sq.km
(ISPRS public dataset)



FIELDS OF APPLICATION

Mapping

Metashape is a perfect tool for maps creation workflows. It creates seamless orthomosaics both from images and from LiDAR points clouds meeting the resources of the project. Breaklines instrument helps to improve quality of true orthomosaics for urban areas. DEM editing with Fill tool allows to eliminate artifacts on the roads and close holes in water areas, for example, to result as well in more accurate orthomosaics. Point cloud classification instrument in Metashape provides for opportunity to generate digital terrain model based on ground point class data.

For projects relying on satellite data analysis Metashape offers functionality to reconstruct mesh, point cloud, DEM or orthomosaic from satellite imagery with RPC coefficients.

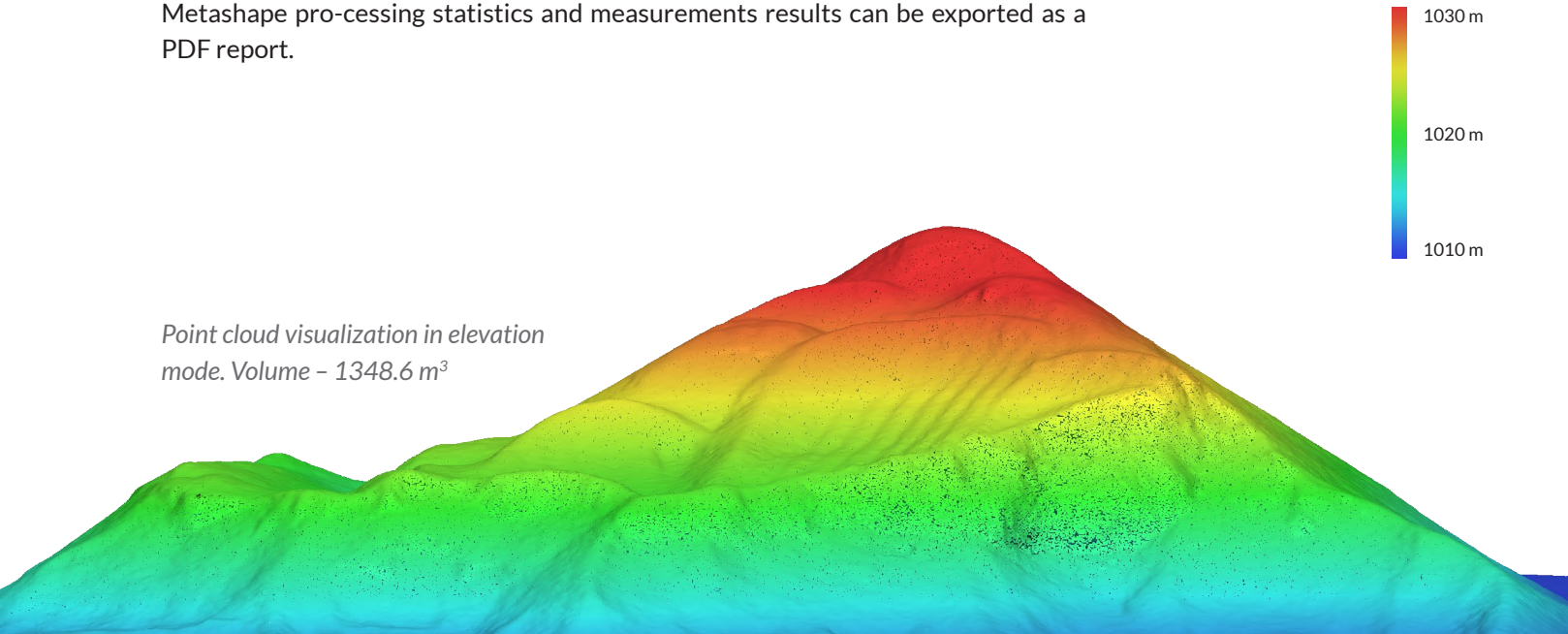
For advanced GIS workflows Metashape offers possibility to vectorize objects based on 3D model or orthomosaic data.

Satellite images with RPC data from IKONOS

FIELDS OF APPLICATION

Mining

Highly accurate DEMs produced by Metashape lay the grounds for precise area and volume measurements, both for natural hills and man-made piles. DEM editing tool, namely Fill tool, helps to perform measurements for DTM when some data about the terrain is missing due to forestry exclusion from the model, for example. Profiles — both for DEM, mesh, point cloud — and Contour lines generation are further instruments to employ Metashape in mining industry analysis workflows. Metashape pro-cessing statistics and measurements results can be exported as a PDF report.

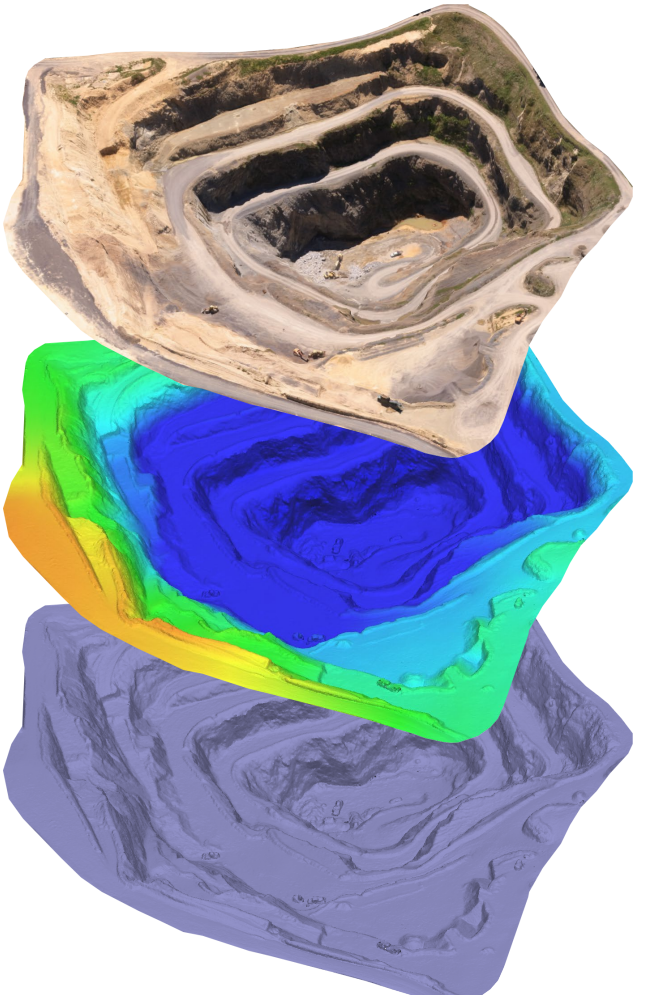


Point cloud visualization in elevation mode. Volume – 1348.6 m^3

FIELDS OF APPLICATION

Quarrying

Once multiple UAS flights performed at different time moments, Metashape allows for volume change tracking for quarrying jobs, as well as for soil erosion and glacier studies. Automatic non-coded targets detection capability saves up on manual work in inspection projects done on a regular basis. DEM visualization in Elevation, Slope and Aspect modes adds to convenience of the preliminary results analysis right in the Metashape program window.



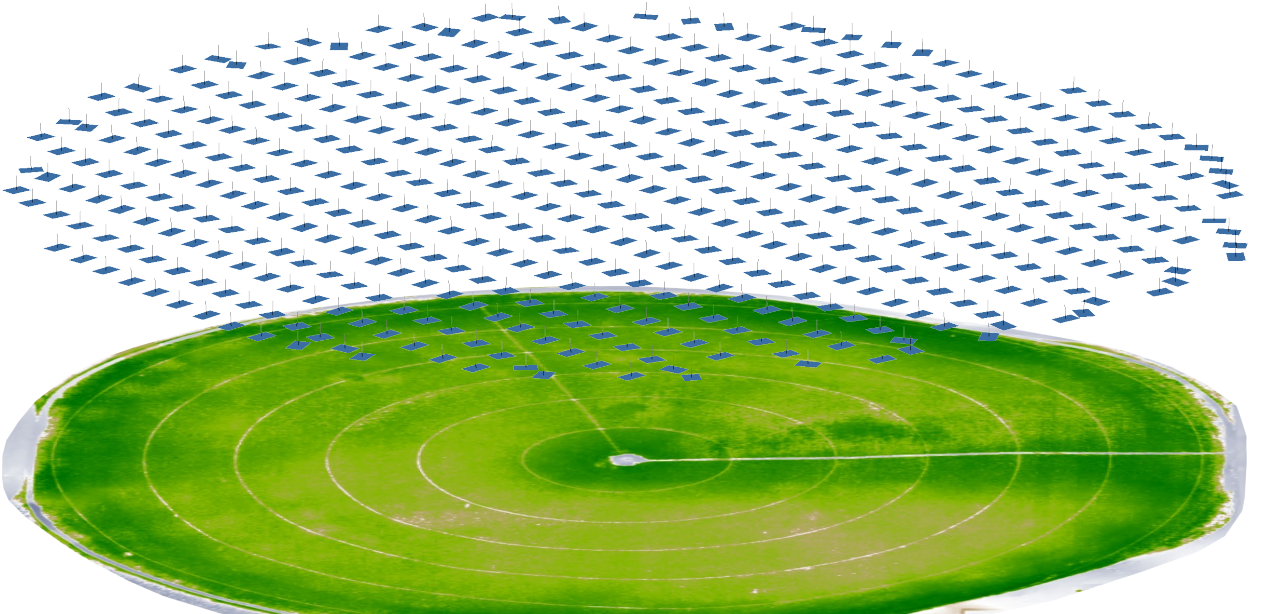
70 m deep quarry,
Synergy Positioning Systems Ltd

FIELDS OF APPLICATION

Agriculture

With support for panchromatic, multispectral and thermal imagery, Metashape seamlessly integrates into workflows involving processing of data from diverse sources, like vegetation and soil analysis, fires and night studies, etc. Vegetation indices calculation according to a user-defined formula allows to analyze crop problems and generate prescriptions for variable rate farming equipment. With multiple UAS flights performed at different time moments, Metashape enables to track the changes in crop growth.

NDVI map from multi-spectral sensor, MicaSense



FIELDS OF APPLICATION

Underwater

Metashape is capable of generating textured polygonal models for underwater imagery, be it a shipwreck, a coral reef, or a seabed itself. Thanks to Scale Bar tool, precise measurements can be performed for such models despite the frequently faced problem of absence of GPS data in such projects.

60 m long, 2000 photos,
SS Gwladmena by Simon Brown

FIELDS OF APPLICATION

Archaeology

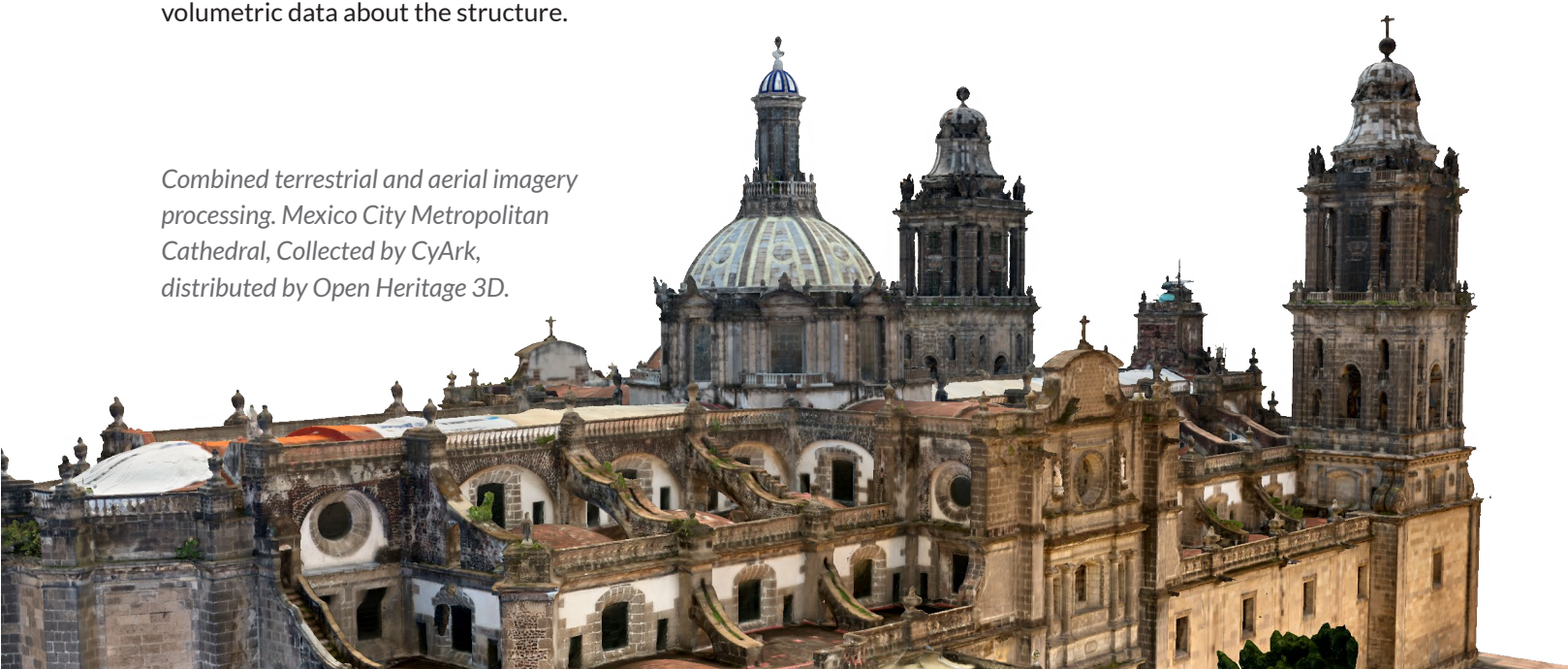
Archaeology more and more often relies on photogrammetric approaches today, be it a need to model an artifact or a demand for an excavation mapping. Thanks to the capability to process imagery from any digital camera, Metashape is widely used in various archaeological projects both up in the mountains and deep under the water, including special researches like greenery pattern studies to find ancient ruins under the ground or rock art documentation and analysis projects.

1 mm/pix resolution,
Ancient farmhouse (IV B.C.)

FIELDS OF APPLICATION

Architecture

With support for combined processing of terrestrial and aerial (nadir and oblique) imagery, Metashape allows to reconstruct the whole building, which can be employed, for example, for virtual tours creation. 3D models of partially ruined facades and artifacts present reliable basis for restoration works thanks to exceptional accuracy of reconstruction results. The possibility to vectorize orthomosaic or model helps to notate all the features of the structure and serves as a basis for precise drawings creations along with calculation of dimensional and volumetric data about the structure.



Combined terrestrial and aerial imagery processing. Mexico City Metropolitan Cathedral, Collected by CyArk, distributed by Open Heritage 3D.

FIELDS OF APPLICATION

UAV Inspection

Metashape includes functionality to automatically Detect Powerlines on the images and, thus, allows to perform large-scale powerlines inspection projects without need to invest in LiDAR equipment. The results in a form of a 3D polyline model for every wire can be exported for documentation and analysis in industry-specific tools or used for obstacle avoidance by mission planning algorithm within Metashape. Robustness of the results is ensured with catenary curve fitting algorithm.

UAV inspection projects can also benefit from DEMs difference calculation tool which allows to track surface changes and have them measured.

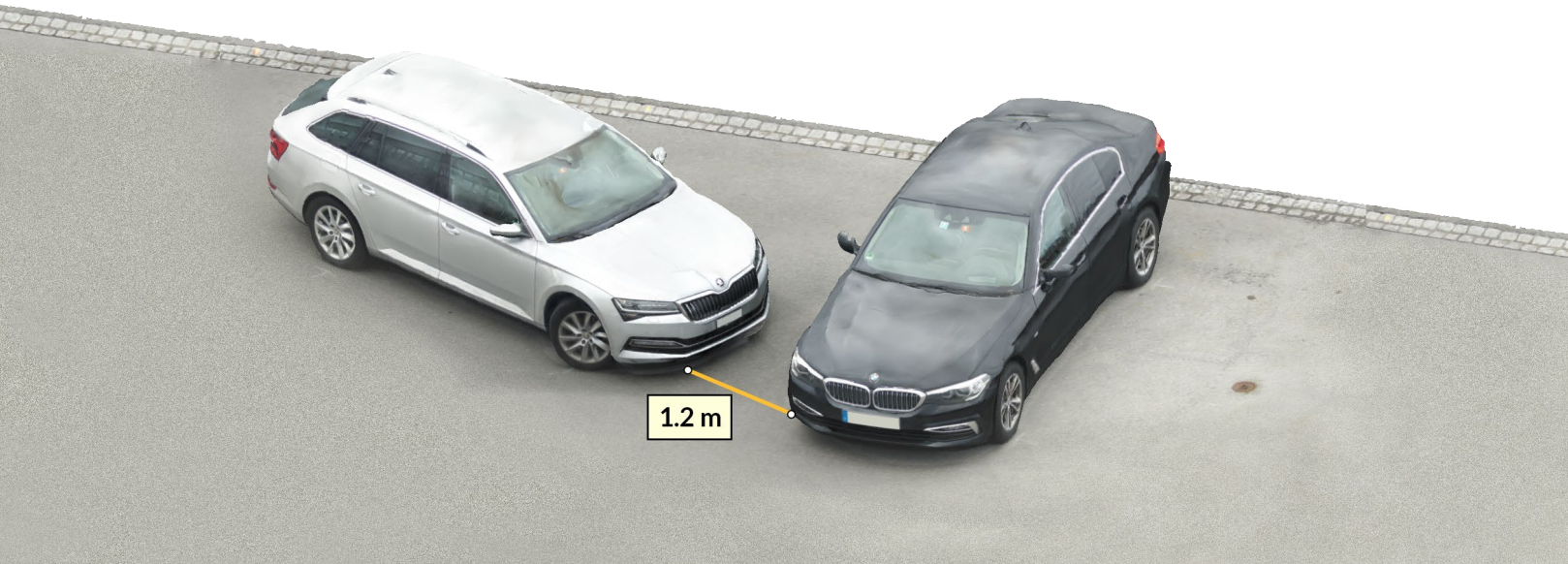
18 km transmission powerlines, GeoScan Ltd.

FIELDS OF APPLICATION

Forensics

Metashape is widely used as a tool for documentation of traffic accidents thanks to combination of photorealistic visualization of the scene in a form of 3D model and possibility to perform precise distance measurements right on the model. Thus, photogrammetric software helps to minimize time required for the cars to be kept on the road and provides instruments for detailed analysis of the causes of the accident.

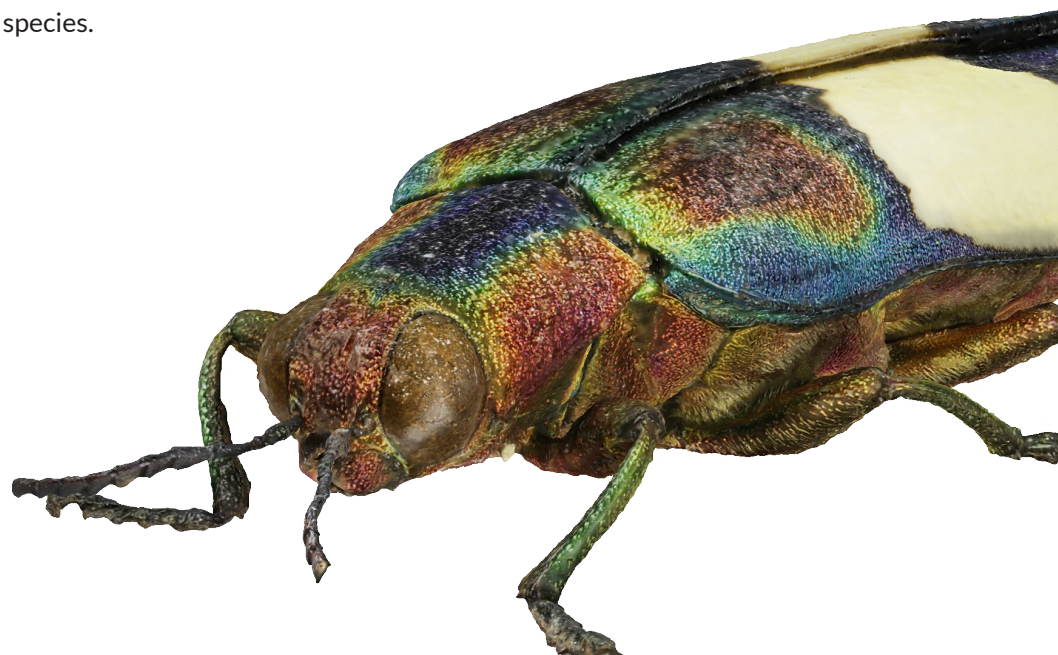
55 stereo-images, Leica BLK3D Imager



FIELDS OF APPLICATION

Biology

Metashape processes imagery from various sensors, including cameras with macro lens. This option is used to reconstruct various insects when documenting zoological museums' collections. Photogrammetric 3D model generation is also in demand in projects dealing with monitoring fading flora, prehistoric fossils documentation and creating of digital twins of various species.



Cockroach, 160 macro photos, Prof. Radosław Zajdel, Medical University of Lodz, Poland

FIELDS OF APPLICATION

Interior

Combined processing of images and terrestrial laser scans allows Metashape to generate accurate models of the interiors. The software also features a tool to create video presentations of the model right in the program window.

Peasant house (XIX A.D.), Kizhi, combined processing of terrestrial laser scans and handheld camera photos

FIELDS OF APPLICATION

Medicine

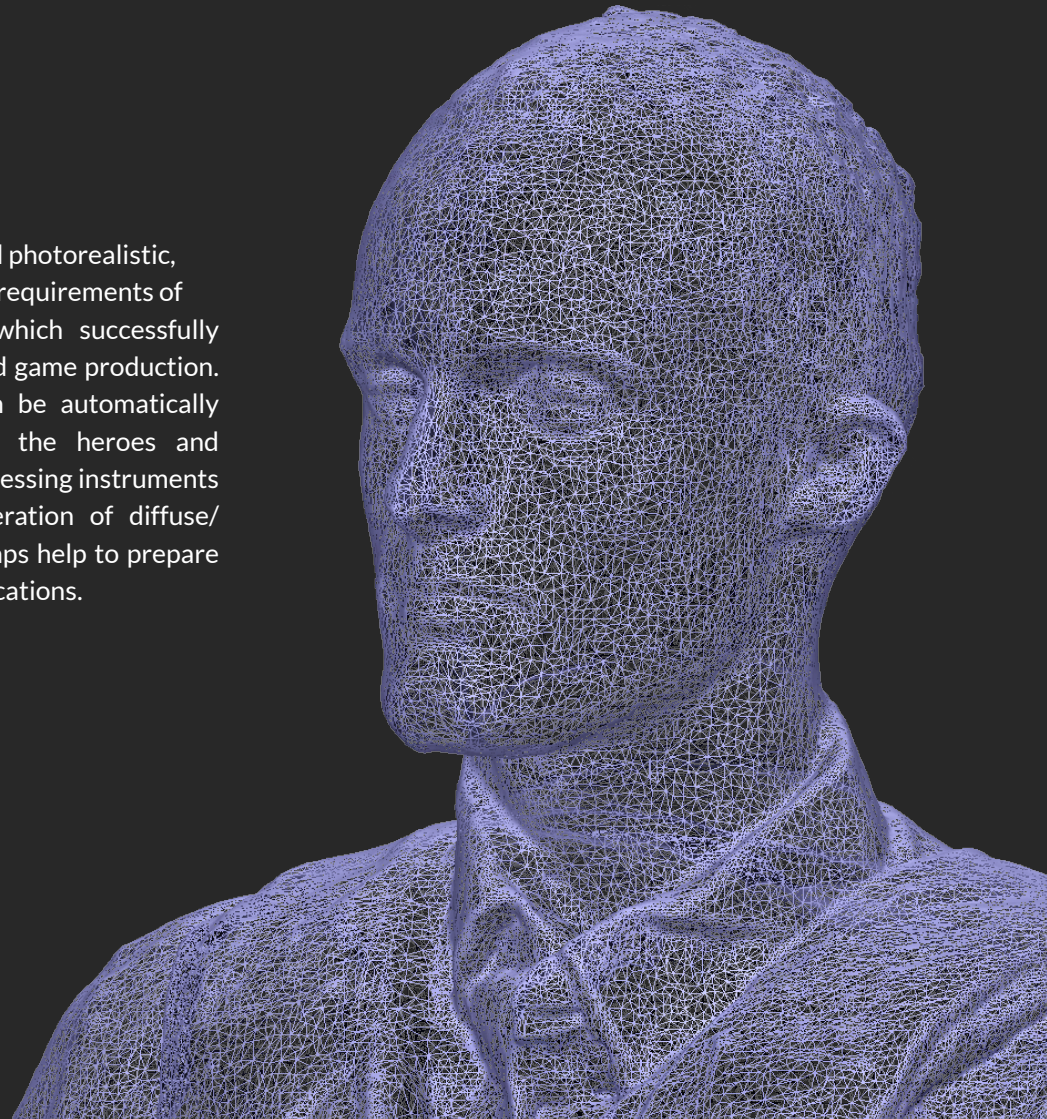
Metashape software is applied to solve different problems in the field of medicine, like generating scaled 3D models of teeth or feet as the basis for statement analysis and planning of proper treatment. Photogrammetry provides tools for advanced approach to examination of spine curves and tracing of spine degenerative changes dynamics.

Human skeletal system,
Prof. Radosław Zajdel, Medical University of Lodz, Poland

FIELDS OF APPLICATION

Game Design

Thanks to being highly detailed and photorealistic, Metashape models meet the strict requirements of professional animation studios, which successfully employ the software for movie and game production. Face and body capture data can be automatically processed into digital twins of the heroes and realistically animated with 4D processing instruments and Remove Lighting tool. Generation of diffuse/displacement/occlusion/normal maps help to prepare texture files for visual effects applications.



3D model in wireframe mode, 91 images, 4 million faces, Ultra high quality, Hargrovecompany

Advantages

Combined processing of imagery, terrestrial laser scans and aerial LiDAR data

Highly accurate and detailed results

Fully automated and intuitive workflow

Block models for editing of city-scale models

GPU acceleration for faster processing

Network processing for large projects

Processing state recovery after power loss

Agisoft Cloud for processing, visualization and sharing of the results

Free stand-alone Agisoft Viewer for visualization, inspection and presentation of the processing results

Easy sharing with fly through video export and direct upload to online resources

Stereoscopic measurements for precise feature extraction

Reasonably powerful Standard edition for art projects

Capabilities

- Satellite, aerial and close-range triangulation
- Incremental image alignment
- Combined alignment of imagery and terrestrial laser scanner data
- Geometric registration of TLS point clouds
- Aerial LiDAR boresight calibration support
- Marker-based point clouds registration in one coordinate system (photogrammetric, TLS, aerial LiDAR)
- Image set redundancy analysis
- AI-based image masking
- Georeferencing using flight log and/or GCPs
- GNSS/INS offset and bias support
- Coded and non-coded targets auto detection
- Photogrammetric point cloud generation
- Automatic classification of photogrammetric and LiDAR point clouds

- DSM/DTM generation
- DEM editing tools
- True orthomosaic generation in geographic and user defined projections
- Automatic seamline refinement for traditional DTM-based orthomosaics
- Manual orthomosaic seamline editing
- Orthomosaic pansharpening tool
- Elevation contour lines generation
- Coordinate/distance/area/volume/profile measurements
- Automatic powerlines detection
- Vegetation index calculation for multispectral imagery projects
- Prescription maps generation and export
- Polygonal model reconstruction, including block models
- Texture generation with delighting filter
- Deghosting filters for texture and orthomosaic

- Ambient occlusion, normal and displacement maps generation
- Hierarchical tiled model generation and visualization
- Mission planning for complex sites
- 4D reconstruction for dynamic scenes
- Spherical panorama stitching
- Python scripting and Java API for job automation
- Headless operation support
- Batch processing for multi-task pipelines automation

Compatibility

Processes images from digital/film/video cameras and multi-camera systems, as well as terrestrial laser scans and aerial LiDAR data

Supports registered/non-registered terrestrial laser scans

Supports frame/fisheye/spherical/cylindrical/RPC camera models

Works well with most UAVs (copters, fixed-wings, VTOLs)

Exports results in widely supported formats

Supports most EPSG coordinate systems and configurable vertical datums

Earth, Mars and Moon coordinate systems support

Runs on Windows, macOS, Linux

Metashape

Want to try?

Start your testing with free 30-day trial license — compare editions and download at www.agisoft.com

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