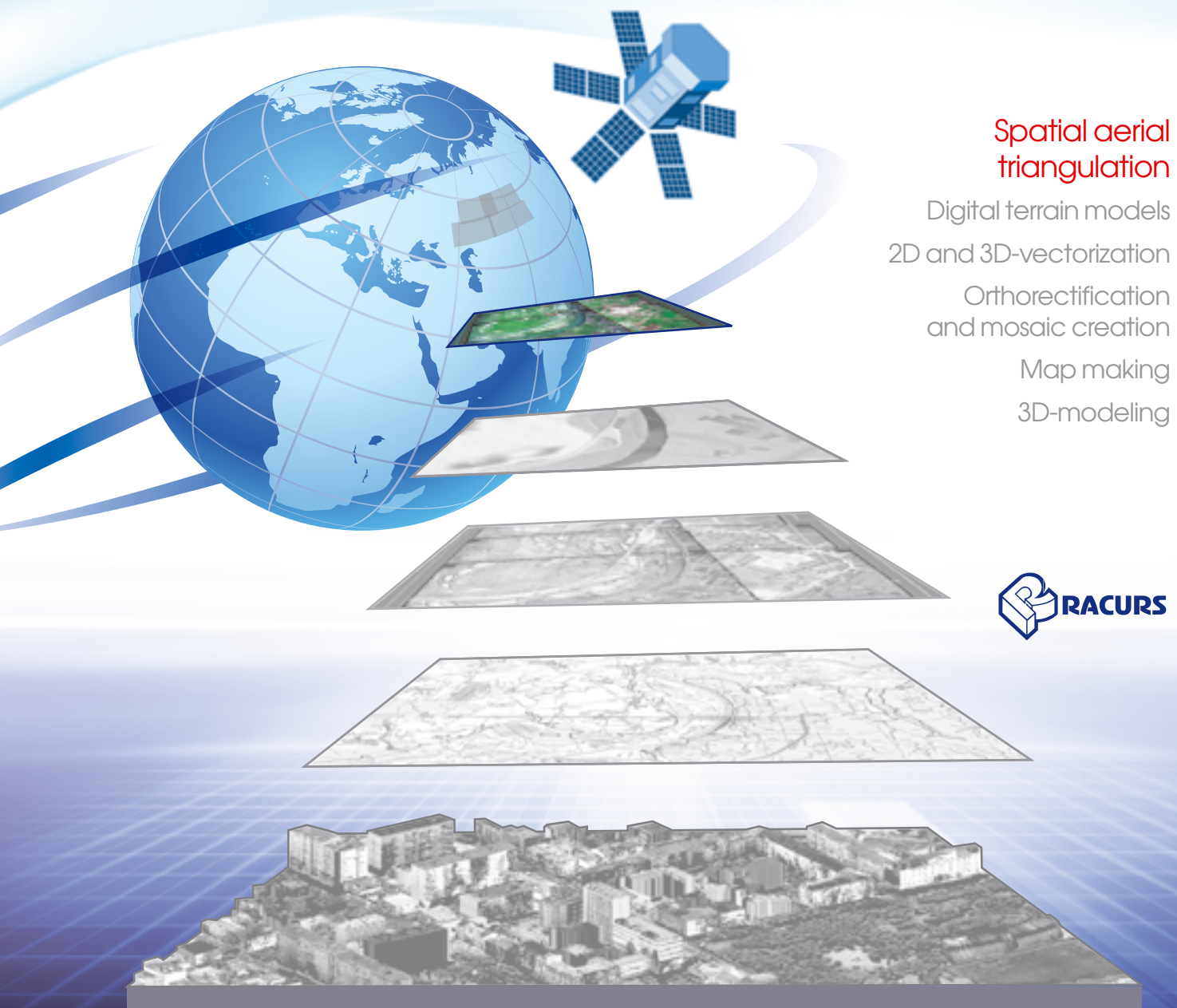# PHOTOMOD

Spatial aerial triangulation

High accuracy and full automation!

Spatial aerial triangulation

Digital terrain models

2D and 3D-vectorization

Orthorectification and mosaic creation

Map making

3D-modeling

RACURS

The functions of the aerial triangulation in PHOTOMOD are required to accurately calculate the orientation parameters of images and provide a high geometrical accuracy of the output products: DEM, orthomosaics, and digital maps.
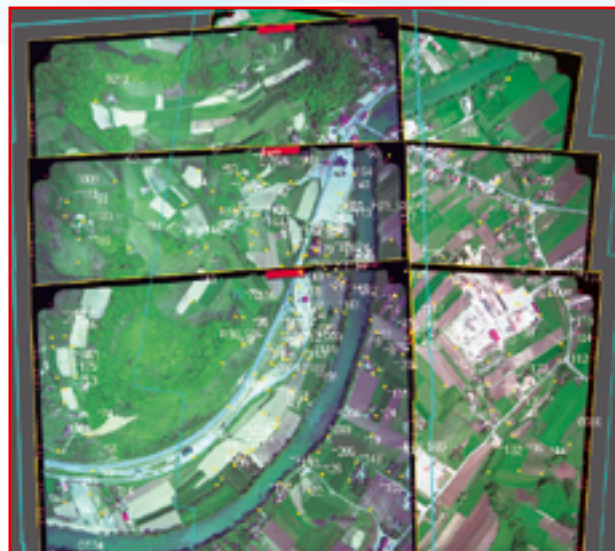
Aerial triangulation results (orientation parameters) are calculated automatically, and the system provides a full range of tools for accuracy evaluation, visual control and errors analysis.

A successful implementation of an aerial triangulation project in the PHOTOMOD program allows the user to define spatial coordinates of terrain points with high accuracy and reliability. This provides for high quality of further measuring and mapmaking (topographic) works on images.

Basic capabilities

- Tens of thousand images in the project

- Automatic interior orientation

- Fast block layout from on-board exterior orientation parameters

- Precise block layout by using digital elevation model

- Reliable and precise sub-pixel algorithm of tie points measurements

- Full control of relative orientation accuracy

- Transfer of GCPs from digital maps and othophotos along with their manual measurements

- Stereocomparator mode for GCP measurements

- Special aerial triangulation tool for UAV data processing

- Block adjustment by models and bundles methods

- Free model block adjustment

- Numerous criteria for blunders detection

- Flexible system of selection of a priory accuracies for CCPs and GPS/IMU data

- Interchange of point type ground control – check and visa versa

- Comfortable graphic interface for the block adjustment

- Self-calibration tools for non-professional cameras processing

- Merging block of images for all-together adjustment

- PAT-B and CSV formats for interchange with other photogrammetric systems

- Import of ADS 40/80 and VisionMap A3 adjusted project for further processing

- Support of a comprehensive number of coordinate systems and map projections

- User-defined coordinate systems

Racurs provides unlimited technical support for its customers. Experienced software support specialists provide immediate professional help by phone, fax or e-mail.

Download Lite version of PHOTOMOD! The program is created to help familiarize with the systems features and functionality and allows you to perform test projects using your data.

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