



Modern methods of documentation for conservation - digital mapping in metigo[®] MAP, Software for documentation, mapping and quantity survey and analysis

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Abstract:

Several years of experience of heritage documentation have given a background to develop methods of cartography and digital evaluation. The outcome of which is the development of a 2D-mapping software with integrated image rectification over a period of more than 10 years and that became the state of the art software in Germany initially and now elsewhere for Conservation and Restoration projects.

If there are no mapping bases (image plan or CAD-drawing), the user can create its own image plans using different types of rectification functions. Based on true to scale mappings, quantity surveys of areas and lines can be calculated automatically.

Digital maps were used for the documentation and analysis of materials and damages, for planning of required action and for calculation of costs.

With the help of the hierarchy even large mapping projects with many sub projects can be managed. The results of quantification can be exported to excel spreadsheets for further processing.

The combination of image processing and CAD-functionality makes operation of the programm user-friendly, both in the office and on-site. metigo MAP was developed in close cooperation with conservators and restorers. Based on simple equipment consisting of digital camera, laser measuring instrument for measuring distances or total station and standard notebook the mapping software is used in many restoration companies.