The Role of Digital Fixation of Monuments in the Management of Museum Documentation

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Aims and Objectives

• Documentation Development
• Navigation improvement
• Selection of Information
• Presentation of Information
• Transportation of Information
• Transformation of information
• Socialization of Information
Process of scanning - components:
a 3D laser scanner, a high resolution digital camera, a monument, a station of copying, environment, etc

Stations deployment plan
Oshki Cathedral, Turkey
Process of Scanning

Oshki Cathedral, Turkey
Point Cloud. Registration. Ateni Sioni, Georgia

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Database of Point Cloud Information, Cyclone application.
AutoCAD Platform for metadata organization
The Scheme of Possible Interactive Collaboration.
MU – Museums
Org – Organizations collecting the Information about the Monuments
SA – Scientific-Educational Institutions
PH – Photo labs
MO – Monuments protection Governmental Organizations
RE – Organizations working in Reconstruction, Rehabilitation and Restoration Field
ME – Media Sources, TV

It is to be noted, that previously it posed a great difficulty (or was impossible) to transfer information acquired by various organizations to museums. As a result of development of digital technologies, it became possible and became easier to share and transform information within museum space and archives.
Recurrent use of docs for museum archives
Diwanie. El Kuwait.
Virtual, digital copy of Mural Painting. Point Cloud. Vardzia, Georgia
Virtual, digital copy. Fragment. Point Cloud
Digital information can be used for structuring and expanding digital archive in storing of initial digital data.
The Processed digital documentation can be used in structuring and expanding digital archive as a systematized information.
The Processed digital documentation can be used in structuring and expanding digital archive as a photo-realistic information.
Photorealistic image,. Holy Mother Georgian Monastery. Cyprus.
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Monuments virtual placement to their native location
Tatev Monastery, Armenia.
Results

The digital documentation can be used in other directions of museum work:

• Scientific work
• Educational work
• Advertising, commercial work
• Monument catalogue-making and works on their improvement
• Management of restoration works
• Mobility of museum
Complex usage by museums of the archives of presented organizations and co-sharing strategy will take museum work on a new level of development, will increase its potential, will support expansion of museum space, as well as information exchange and collaboration, expansion of target groups, work planning and management.
The End

Thank You for Attention