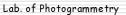
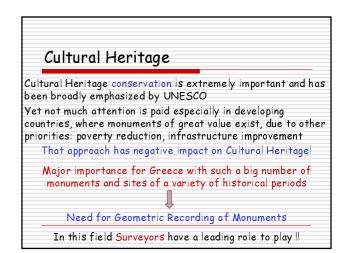
BASIC PRINCIPLES FOR DEVELOPING CAPACITY BUILDING IN GEOMETRIC RECORDING OF CULTURAL HERITAGE

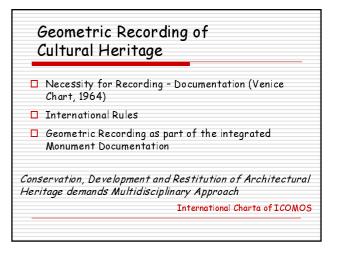
<u>Ch. Ioannidis</u> & A. Georgopoulos

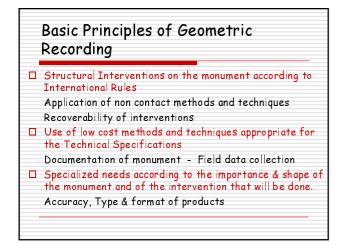


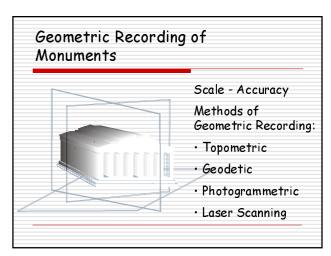
School of Rural & Surveying Eng. National Technical University of Athens - NTUA



The geometric recording of a monument is the procedure of acquiring, processing, archiving and presenting data for the determination of the position and the actual present form, shape and size of a monument in 3D space at a given moment in time
The geometric recording monitors the present condition of the monuments, as it has been formed through time and it is a necessary document for those would understand their past, as well as for those who provide for their future



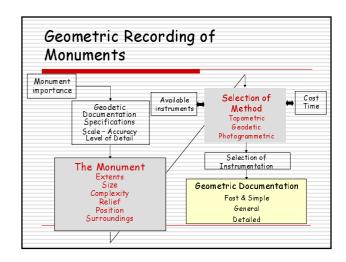


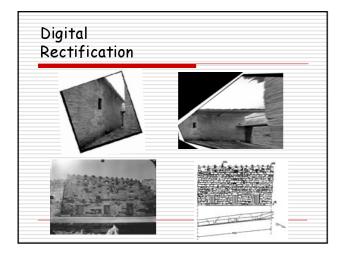


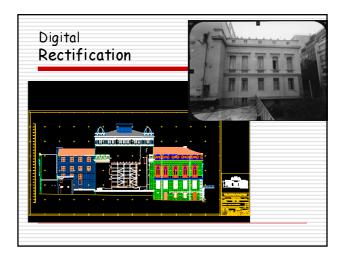
Geometric Recording of Monuments

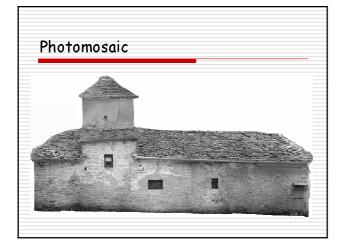
The geodetic and photogrammetric methods:

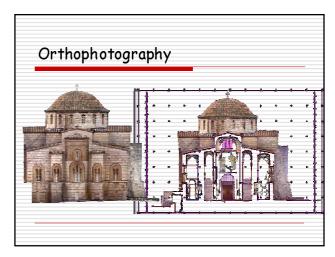
- Are based on direct measurements of lengths and angles either on the object itself or on images of it
- Determine 3D co-ordinates in a common reference system
- Ensure the specified and common accuracy
- Provide adaptability and flexibility, together with speed, security and efficiency
- Are cost effective, in the sense that they are the only ones capable of satisfying and meeting any specifications with the least possible cost and maximum possible benefit

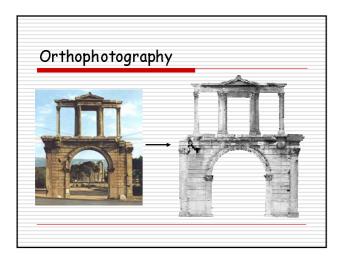


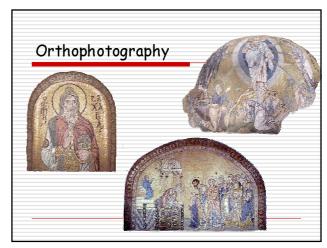


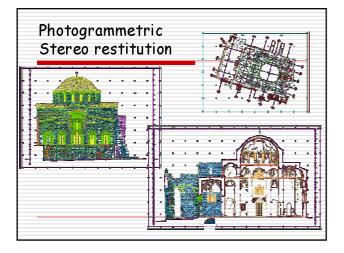


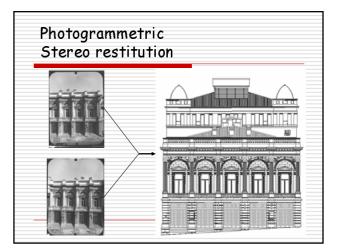


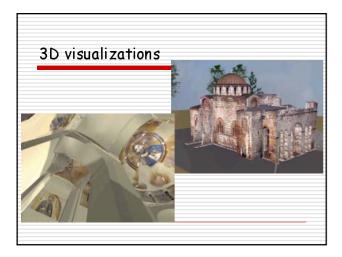












	acity can be defined as the ability of individuals
	l organizational units to perform functions
eff	<u>ectively, efficiently</u> and <u>sustainably</u>
	UN publication on Capacity Assessment and Development
	Capacity is not a passive state but is part of a
	continuing process
	Human resources are central to Capacity development
п	The overall context within which organizations
_	undertake their functions will be a key consideration in
	strategies for Capacity Development

Capacity Development

Capacity Development is the process by which individuals, groups, organisations, institutions, societies increase their abilities to:

- Perform core functions, solve problems, define and achieve objectives
- > Understand and deal with their development needs in a sustainable manner

Capacity Development includes retaining & strengthening **existing capacities** of people & organisations to perform their tasks

Capacity Building

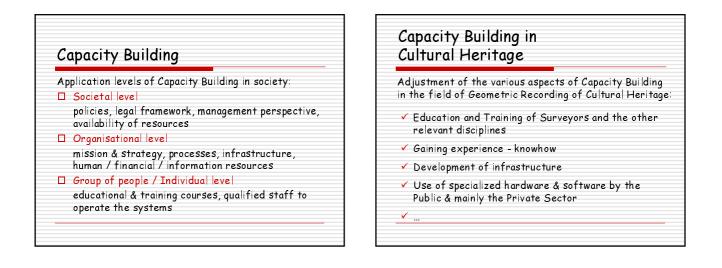
Capacity Building encompasses the country's human, scientific, technological, organisational, institutional and resource capabilities.

It includes the ways and means by which the overall goals are achieved:

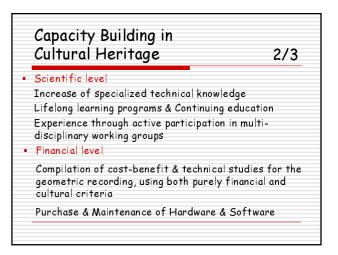
- Education & Training
- Human resource development

Development of institutional infrastructures

Adequate policy framework



Cultural Heritage	1/3
Capacity Building should be improved at Political level / Decision Makers	all fields:
Awareness about the necessity for mult approach	ti-disciplinary
Adopting the necessary legislation	
Financing the compilation of studies	
Administrative level	
Institutional arrangements & Collaborat Services	tion of Public
Development of a system for the superv quality control tests & compilation of th	



Capacity Building in Cultural Heritage

End-user level

Raising awareness about: What they can demand? What they can expect? What are the procedures & techniques for Recording Which are the levels of Documentation & Archiving

3/3

Citizen level

Developing public awareness about Cultural Heritage

Historic knowledge - Aesthetic upgrading

Recording of curit	g of Cultural Heritage			
Present situation in the Schools of Surveyors & Architec (NTU Ather				
Under-graduate studies	5 years			
Surveyors: - Large number of Photogrammetry	courses in Geodesy, , Laser Scanning			
- Optional Diplom	rse at the final academic yea a thesis (1 full semester)			
Architects: 1 course				
Post-graduate Programme	1.5 year			

Decisions about Advanced Education in EU

June 1999 (Bologna):

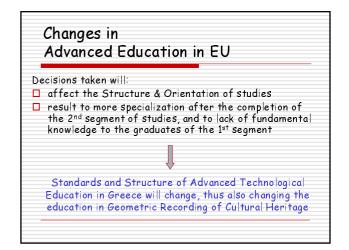
Symposium on "Advanced Education in Europe" participation of 29 European Ministers of Education Statement (among others):

Two-segment studies: 3 years for the 1st degree +2 years for a Master degree

September 2003 (Berlin):

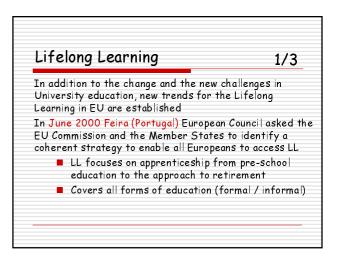
Ministerial Decision of 33 Ministers of Education

Commitment for validation by the end of 2005

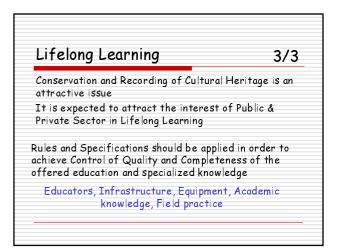


Universities & New European Challenges Universities are facing an imperative need to adapt and adjust to a series of changes: > Increased demand for higher education

- The internationalisation of education & research
- > To develop effective & close cooperation with industry
- > The proliferation of places where knowledge is produced
- ➣ The re-organisation of knowledge
- > The emergence of new expectations



Lifelong Learning	2/3
Present situation in Gree	ce, in the field of Recording:
Sporadic programmes in Cont	inuing Education
Financed (or not) by th	e State & EU
are offered by the 2 Univers and the Private Sector (at a degree)	ities (NTUA, AUTH), the TGC evel lower than the University
Future situation:	
 A new semi-independent ag each University responsible 	ency will be established within e for the LL <mark>self-financec</mark>
Educational Institutes for Authority optionally	LL in each Prefecture doubtful quality of studies



Guidelines & Action Plan Framework

All the above mentioned show the need for "Guidelines on Specialized Education and Study Compilation for the Documentation of Cultural Heritage"

In the international literature only general Rules and Specifications exist, and some more are under compilation, such as from the International Scientific Committee for Analysis and Restoration of Structure of the Architectural Heritage

Producing Guidelines is not an easy task, due to the broad variety and the different type of monuments Each monument needs a special approach and different level of treatment