















The Name of Archaeological Area	Beginning Date of Excavation	President of Excavation	
Boğazköy- Hattuşa	1906	Dr. Andreas Schacahner	
Alacahöyük	1996 (1907)	Dr. Aykut Çınaroğlu	
Ortaköy-Şapinuva	1992	Dr. Aygül Süel	
Resuloğlu Cemetry-Settlement Area	2003 (1968-1983)	Dr. Tayfun Yıldırım	
Eskiyapar	2010	Dr. Tunç Sipahi	
FIG May	WORKING W 15 00D-Survey Prolima Mund Oc Be, Italy	EEK 2012 🔉	





DIAGNOSING THE PROBLEMS

- Using the different coordinate (projection) systems.
- Producing final maps in different scales.
- > The measurement errors due to using different measurement techniques.
- Using a symbol in legend in different meanings (deficiencies in standard illustration).
- > Not including some information such as the creation date, publication date etc.
- Deficiencies for routing and informing.
- > Not including the contour lines or the information about their intervals.
- > Inconsistencies between the textual information about the area and illustration.
- Deficiencies about the updates.
- Deficiencies in 3D studies.
- The basic analyzes on the numerical maps can't perform, because of using printed maps.









PHASE 1	PHASE 2	PHASE 3
SURVEY	TESTING EXCAVATION	EXCAVATION
Documenting the archaeological artifacts acquiring from the pre-defined area, registering them to the maps and marking on them.	Detecting the archaeological levels in a small area defining during the excavation or a survey and examining these levels.	Detecting archaeological levels in a pre- defined archaeological area by long-termed studies, and determining the probable relationships between these levels and neighboring settlements.
Data Set I (DS-I)	Data Set II + (DS-I)	Data Set III + (DS-I) + (DS-II)
STH at scales of 1/25000 Cadastral map at scales of 1/5000 SYM/ DEM (Altitudes) Satellites images > 5m Aerial photos; Geologic maps The literature relating with the area.	Cadastral map at scales of 1/2000; Zoning sheet at scales of 1/1000; Satellites images > 5m Aerial photos LIDAR Survey maps.	Final maps about drillings; Topographic maps at scales of 1/1000; Aerial Photos (Balloon-Drones)
Set Lof Measurement Tools (MES-I)	Set II of Measurement Tools + (MES-I)	Set III of Measurement Tools + (MES-I + (MES-II)
GPS/ DGPS; Portable GIS record unit including digital records formats; Digital Photo cameras etc.	DGPS/RTK-GPS; GPR (Topographic radar); Nivo- Total Station; Detailed register forms.	Robotic Total Station Topographic Laser Scanner Balloon- Drones Video and audio recorder etc.
Software Set I (S-I)	Software Set II + (S-I)	Software set III + (S-I) + (S-II)
GPS, CAD and CBS software; Data Transfer Software; Image Processing Software; Office Programs.	GPR; Programs about cartography; 3D generating programs.	Programs about modeling an animation; Architectural programs; Laser scanning Software using to scan the topography; Image Processing software.
GATHERING AND PROCESSING PROCESSES OF DATA		
Producing new data; Documentation; Registration; Producing data suited for standards; Survey Reports.	Creating detailed maps; Documentation; Registration; Producing data suited for standards; Drilling excavation reports.	Creating detailed maps of excavation area; Documentation; 3D Models; Producing outcomes suited for Standards. Regular Excavation reports.
A decision about whether a testing excavation will perform, or not.	A decision about whether a long-termed excavation will perform, or not.	Planning the excavation – to determine the spatial relationships in other sites.
The projection system must be indicated for	merly. For the maps which will be included	to the system, the transformation parameter
	SURVEY SURVEY Documenting the archaeological artifacts acquiring from the pre-defined area, registering them to the maps and marking on them. Data Set I (DS-I) STH at scales of 1/25000 Cadastral map at scales of 1/5000 STH at scales of 1/25000 Stabilities images > 5m Aerial photos, Set I of Measurement Tools. (MES-I) GPS/ DGPS; Portable GIS record unit including digital records formats; Digital Photo cameras etc. Software Set I (S-I) GPS, CAD and CBS software; Image Processing Software; Office Programs. GATHE Producing new data; Documentation; Registration; Producing data suited for standards; Survey Reports. A decision about whether a testing execution will perform, or not. The projection system must be indicated for	PHASE 1 PHASE 2 SURVEY TESTING EXCAVATION Documenting the archaeological artifacts acquiring from the pre-defined area, registering them to the maps and marking or a survey and examining these levels. Detecting the archaeological levels in a small area defining during the excavation or a survey and examining these levels. Data Set I (DS-I) Data Set II + (DS-I) STH at scales of 1/2000; Zoning sheet at scales of 1/2000; Zoning sheet at scales of 1/2000; Statellies images > 5m Arrial photos; LDAR Survey maps. The literature relating with the area. Set I of Measurement Tools. (MES-I) STH I SCALES, (MES-I) GPS/ DGPS; DGPS/RTK-GPS; GPS/RTK-GPS; Portable GIS record unit including digital Nicrocroft software; Digramphic radar); Nicroords formats; Data Transfer Software; DGPS/RTK-GPS; GPR (Topographic radar); Nicroords formats; Data Transfer Software; Drograms about cartography; 3D generating programs. 3D generating programs. Office Programs. GATHERING AND PROCESSING PROCESSES O Producing data suited for standards; Drolling excavation reports. A decision about whether a testing excavation will perform, or not. A decision about whether a long-termed excavation will perform, or not.

RESULTS

In a condition of establishing the system which we point out in this context, updating the data from the scientific researches in the archaeological sites, reaching to the information resources and sharing the data will be so quickly and safely. The practices about accessing the data, questioning and reporting the results can be performed safely and quickly apart from the time.

> PIG WORKING WEEK 2012 TS 07D- Surveying and Cultural Heritage. 5844 Tradium Murato Orabu, Mustafa Stel, Fazi, Engin Tombuy, Mustafa Cogar and Murat The Importance of Murat of Archaeological Exervational Works (584)

RESULTS

- By using the sets of data, which we offer as a suggestion here, the measurement tools and software in the archaeological studies, we can produce maps which are suitable for the pre-defined standards.
- The maps in question will be equipped with a number of characteristics such as accuracy, relevance for the purpose, lucidity, comprehensibility, easy readability and aesthetic.
- The data which are required by users will be transferred in an accurate, qualified and reliable manner, according to a certain systematic.



