



<b>Meeting title</b>	<b>2<sup>st</sup> Plenary Meeting</b> <b>TRIQUETRA 2<sup>st</sup> Plenary Meeting, 7-8 December 2023</b>
<b>Venue</b>	Conference room "Säulenhalle" (hall of columns) - Bayerisches Landesamt für Denkmalpflege / Bavarian State Office for Monument Protection, Hofgraben 4 - 80539 München – Germany Hybrid event ( <a href="https://blfd-bayern.webex.com/wbxmjs/joinservice/sites/blfd-bayern/meeting/download/92fb1923e87243cd8434acea1cbe381?siteurl=blfd-bayern&amp;MTID=m1f844f538f0e1b2b4377807f8b1bfce5&amp;fromPanelistJoin=true">https://blfd-bayern.webex.com/wbxmjs/joinservice/sites/blfd-bayern/meeting/download/92fb1923e87243cd8434acea1cbe381?siteurl=blfd-bayern&amp;MTID=m1f844f538f0e1b2b4377807f8b1bfce5&amp;fromPanelistJoin=true</a> )
<b>Date and time</b>	<b>Thursday, 7 December 2023 (9:00 – 18:30 CET)</b> <b>Friday, 8 December 2023 (9:00-15:00 CET)</b>
<b>Organizer</b>	Gschwind, Markus (BLFD)
<b>Chair</b>	Charalampos Ioannidis (NTUA)
<b>Moderator</b>	Charalampos Ioannidis (NTUA), Styliani Verikokou (NTUA)
<b>Project Officer</b>	Dr. Athanasios Gerakis
<b>Status/Issue</b>	Final
<b>Reviewed by (if applicable)</b>	
<b>Date of last changes</b>	06/12/2023





## LIST OF INVITED PARTICIPANTS

No	Organisation	Short name
1	NATIONAL TECHNICAL UNIVERSITY OF ATHENS	NTUA
2	DEUTSCHES ARCHAOLOGISCHES INSTITUT	DAI
3	HELLENIC MINISTRY OF CULTURE AND SPORTS	HCMS
4	MINISTERO DELLA CULTURA	MIC
5	BAVARIAN STATE OFFICE FOR MONUMENT PROTECTION	BLFD
6	MINISTRY OF TRANSPORT, COMMUNICATIONS AND WORKS	MTCW
7	UNIVERSITA DEGLI STUDI DI ROMA LA SAPIENZA	SUR
8	DEUTSCHES ZENTRUM FÜR LUFT- UND RAUMFAHRT	DLR
9	NARODOWY INSTYTUT DZIEDZICTWA – KOBIDZ	NID
10	ERATOSTHENES CENTRE OF EXCELLENCE	EcoE
11	PARIS-LODRON-UNIVERSITÄT SALZBURG	PLUS
12	GEOSYSTEMS HELLAS IT KAI EFARMOGESGEOPLIROFORIAKON SYSTIMATON ANONIMIETAIRESIA	GSH
13	UNIVERSITY OF CYPRUS	UCY
14	ARISTOTLE UNIVERSITY OF THESSALONIKI	AUTH
15	UNIwersytet im. Adama Mickiewicza w Poznaniu	AMU
16	ENGINEERING MATERIALS FOR CONSTRUCTION PRIVATE CAPITAL COMPANY	EM4C
17	NANOPHOS COMMERCIAL SOCIETE ANONYME OF SERVICES AND DEVELOPMENT	NPHOS
18	UNIVERSITÄT ULM	UULM
19	OFFICE DU PARTIMOINE ET DE L'ARCHÉOLOGIE DU CANTON DE NEUCHÂTEL, SECTION ARCHÉOLOGIE	OPAN
20	CSEM CENTRE SUISSE D'ELECTRONIQUE ET DE MICROTECHNIQUE	CSEM
21	ALPES LASERS SA	ALPES

### Advisory Board

Name	Position and Organisation
<b>Andrew Potts</b>	Climate Heritage Network Secretariat, ICOMOS Climate Change and Heritage Working Group
<b>Antonia Moropoulou</b>	Emeritus Professor - National Technical University of Athens - President of the General Assembly of the Technical Chamber of Greece
<b>Alexis Catsambis</b>	Senior Maritime Archaeologist & Principal Policy Advisor at the Underwater



	Archaeology Branch, Naval History & Heritage Command, Immediate Office of the Chief of Naval Operations, Washington, D.C.
<b>Jeffry Moore</b>	Ass. Prof. of Geology & Geophysics at the University of Utah
<b>Tony Cassar</b>	Digitisation Unit, Heritage Malta, Head Office
<b>Harald Drager</b>	TIEMS President, The International Emergency Management Society

## AGENDA

### Day 1

Item	Time (CET)	Topic	Presenter
0	09:00-09:10	<b>Welcome by the Host</b> Dr Jochen Haberstroh Deputy Head of Archaeological Heritage Protection	BLFD
1	09:10-09:25	<b>WP1: Project Management (M1-M36)</b> [Goals and progress of the WP up to date]	NTUA
1.1	09:25-09:30	<b>T1.1 Project management and coordination towards objectives (M1-M36)</b> [Status update; main findings up to date; list of actions and next steps]	NTUA
1.2	09:30-09:35	<b>T1.2 Data management plan (M1-M36)</b> [Status update; main findings up to date; list of actions and next steps]	GSH
1.3	09:35-09:50	<b>Q&amp;A concerning WP1</b>	All
2	09:50-10:05	<b>WP2: CH site risk identification - The Knowledge Base Platform (M1-M35)</b> [Goals and progress of the WP up to date]	UCY
2.1	10:05-10:10	<b>T2.1 Review of literature on CC and other risks &amp; mitigation measures for CH sites (M1-M9)</b> [Status update; main findings up to date; list of actions and next steps]	UCY
2.2	10:10-10:15	<b>T2.2 Gathering of existing &amp; historical site-specific data (M1-M9)</b> [Status update; main findings up to date; list of actions and next steps]	UCY
2.3	10:15-10:20	<b>T2.3 Geological risk identification (M1-M12)</b> [Status update; main findings up to date; list of actions and next steps]	SUR



2.4	10:20-10:25	<b>T2.4 Historical and in-situ climatic data towards risks identification (M1-M12)</b> [Status update; main findings up to date; list of actions and next steps]	AUTH
<b>10:25 – 10:55 Coffee Break</b>			
2.5	10:55-11:00	<b>T2.5 Development of the Knowledge Base platform (M1-M12)</b> [Status update; main findings up to date; list of actions and next steps]	GSH
2.6	11:00-11:05	<b>T2.6 New data collection campaigns (M7-M36)</b> [Status update; main findings up to date; list of actions and next steps]	AUTH
2.7	11:05-11:20	<b>Q&amp;A concerning WP2</b>	All
3	11:20-11:35	<b>WP3: Development of novel sensing and mitigation modules (M1-M28)</b> [Status update; main findings up to date; list of actions and next steps]	CSEM
3.1	11:35-11:40	<b>T3.1 Specifications and requirements for in-situ &amp; remote sensing (M1-M4)</b> [Status update; main findings up to date]	ECoE
3.2	11:40-11:45	<b>T3.2 Remote sensing applications for CH (M3-M28)</b> [Status update; main findings up to date; list of actions and next steps]	DLR
3.3	11:45-11:50	<b>T3.3 In-situ water quality analysis against chemical risks &amp; other pollutants (M3-M22)</b> [Status update; main findings up to date; list of actions and next steps]	UULM
3.4	11:50-11:55	<b>T3.4 Novel flash lidar for rapid 3D scanning (M3-M28)</b> [Status update; main findings up to date; list of actions and next steps]	CSEM
3.5	11:55-12:00	<b>T3.5 Novel coatings against wetting and deterioration of CH sites (M3-M28)</b> [Status update; main findings up to date; list of actions and next steps]	NPHOS
3.6	12:00-12:05	<b>T3.6 Mitigation tools, methods &amp; technologies for protection of CH sites (M5-M28)</b> [Status update; main findings up to date; list of actions and next steps]	EM4C
3.7	12:05-12:20	<b>Q&amp;A concerning WP3</b>	All
4	12:20-12:35	<b>WP4: CH site risk assessment and quantification - Models &amp; data analysis (M1-M26)</b> [Status update; main findings up to date; list of actions and next steps]	AUTH
4.1	12:35-12:40	<b>T4.1 Climate models &amp; climate-related risks assessment (M3-M19)</b>	AUTH



		[Status update; main findings up to date; list of actions and next steps]	
4.2	12:40-12:45	<b>T4.2 Extreme water, snow &amp; ice hazard risk assessment (M3-M19)</b> [Status update; main findings up to date; list of actions and next steps]	DLR
4.3	12:45-12:50	<b>T4.3 Geological &amp; geophysical risk assessment (M3-M19)</b> [Status update; main findings up to date; list of actions and next steps]	SUR
4.4	12:50-12:55	<b>T4.4 Assessment of damage and failure modes of CH structures (M3-M19)</b> [Status update; main findings up to date; list of actions and next steps]	NTUA
<b>12:55-13:40 Lunch Break</b>			
4.5	13:40-13:45	<b>T4.5 Chemical &amp; biological hazard risk assessment (M3-M19)</b> [Status update; main findings up to date; list of actions and next steps]	UULM
4.6	13:45-13:50	<b>T4.6 Multi-hazard compound and cascading effects (M13-M26)</b> [Status update; main findings up to date; list of actions and next steps]	NTUA
4.7	13:50-14:05	<b>Q&amp;A concerning WP4</b>	All
5	14:05-14:20	<b>WP5: Development of the TRIQUETRA DSS (M6-M30)</b> [Status update; main findings up to date; list of actions and next steps]	NTUA
5.1	14:20-14:25	<b>T5.1 End-user requirements &amp; expected functionalities (M6-M9)</b> [Status update; list of actions and next steps]	HMCS
5.2	14:25-14:30	<b>T5.2 Risk severity quantification module (M9-M26)</b> [Status update; list of actions and next steps]	NTUA
5.3	14:30-14:35	<b>T5.3 Mitigation measure selection &amp; optimisation module (M9-M26)</b> [Status update; list of actions and next steps]	GSH
5.4	14:35-14:40	<b>T5.4 Development of the TRIQUETRA DSS Platform (M17-M30)</b> [Status update; list of actions and next steps]	NTUA
5.5	14:40-14:55	<b>Q&amp;A concerning WP5</b>	All
6	14:55-15:10	<b>WP6: Validation of the TRIQUETRA approach (M13-M36)</b> [Status update; main findings up to date; list of actions and next steps]	DAI
6.1	15:10-15:25	<b>Q&amp;A concerning WP6</b>	All
7	15:25-15:40	<b>WP7: Communication, Dissemination, Training and Exploitation of the Results (M1-M36)</b>	GSH



		[Status update; main findings up to date; list of actions and next steps]	
7.1	15:40-15:45	<b>T7.1 Dissemination plan &amp; high impact collateral (M1-M36)</b> [Status update; main findings up to date; list of actions and next steps]	GSH
7.2	15:45-15:50	<b>T7.2 Active citizen engagement &amp; crowdsourcing in CH site monitoring (M3-M35)</b> [Status update; main findings up to date; list of actions and next steps]	ECoE
<b>15:50-16:20 Coffee Break</b>			
7.3	16:20-16:25	<b>T7.3 Business models and exploitation plans (M1-M36)</b> [Status update; main findings up to date]	GSH
7.4	16:25-16:30	<b>T7.4 Training platform and digital content development (M7-M36)</b> [Status update; list of actions and next steps]	GSH
7.5	16:30-16:45	<b>Q&amp;A concerning WP7</b>	All
8	16:45-17:00	<b>WP8: Ethics requirements (M1-M36)</b> [Status update; main findings up to date; list of actions and next steps]	NTUA
8.1	17:00-17:15	<b>Q&amp;A concerning WP8</b>	All
9	17:15-18:00	<b>Open issues and discussion for the 1<sup>st</sup> plenary</b>	All



## Day 2

### Excursion to Roseninsel, 8th of December, 2023

Item	Time* EET	Topic
1	09:00-15:00	<p><b>Fieldtrip to Roseninsel (and lunch)</b></p> <ul style="list-style-type: none"><li>- Buchendorf, well preserved Late Celtic square enclosure next to the Roman road Augsburg-Salzburg</li><li>- Feldafing, Wittelsbach Park at Lake Starnberg and view of nearby Roseninsel</li><li>- Andechs, monastery and Baroque pilgrimage church</li></ul> <p>NOTE: On the way back there will be a stop at München-Pasing train station, from where trains leave directly to Munich airport.</p>