



ELAICH - Educational Linkage Approach In Cultural Heritage



The EuroMed Heritage 4 Programme **Project ELAICH (Educational Linkage Approach In Cultural Heritage)** (2009-2012), developed scientifically-based, attractive, easy, flexible ELAICH *Educational Toolkit, for educators and heritage authorities to introduce the values of cultural (built) heritage and principles and challenges of its preservation to youth.* ELAICH Toolkit can be accessed through the eLAICH elearning platform.

eLAICH e-learning platform: http://elaich.technion.ac.il/e-learning/

eLAICH Project Video: http://www.youtube.com/watch?v=GloGPS6uy5k

eLAICH Courses Video: http://www.youtube.com/watch?v=hKDhcRXx_Mo

About the ELAICH Project: http://elaich.technion.ac.il/





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SUMMARY

eLAICH (Educational Linkage Approach In Cultural Heritage), a scientifically-based, easy, flexible educational e-learning toolkit, was developed for the general public, and especially youth, to raise awareness and develop understanding of the values of cultural heritage, and principles and the challenges of its preservation. eLAICH helps young people acquire knowledge and skills for a complex and globalizing world by instilling basic understanding of the ultimate contemporary inter- and multidisciplinary field: conservation of cultural heritage. eLAICH opens the door for the general public to the study and research of historic monuments, and, at the same time, educates responsible citizens and contributes to intercultural dialogue through the introduction of universal cultural values and preservation of multi-faceted global cultural heritage. eLAICH can be accessed by anyone and taught by any school teacher through the eLAICH e-learning platform.

DESCRIPTION

The ELAICH (Educational Linkage Approach In Cultural Heritage) Educational elearning Toolkit enables educators and heritage authorities to introduce the values of cultural heritage, and principles and the challenges of its preservation to youth. ELAICH, a project in the Euro-Mediterranean Heritage 4 Programme (2009-2012), developed the scientifically-based, easy, flexible ELAICH Educational Toolkit. The eLAICH e-learning Toolkit can be accessed by any citizen and taught by any school teacher through the eLAICH e-learning platform without charge or registration.

eLAICH has been developed for youth, but any person can learn with it. eLAICH makes science accessible to citizens. It presents results of scientific research, and supports forms of scientific inquiry.

"Contemporary conservation of cultural heritage comprises such different areas as art, history, architecture, crafts, technology, engineering, and scientific research in different fields, e.g., chemistry, mathematics, physics, biology and nano-materials." (A. Lobovikov-Katz, eLAICH, Topic 1.1 (1), slide 38). By introducing the field of conservation to its users, eLAICH instills in them a basic understanding of the inter- and multidisciplinary character of contemporary sciences and technology. In this way, eLAICH serves the needs of learners acquiring knowledge and skills for a complex and globalizing world. The positive approach of eLAICH enables its young, virtual students to link between modern technological globalization and universal humanistic cultural values.

The eLAICH e-learning platform is user-friendly. It enables easy navigation and immediate access to every piece of learning material, interactive exercise, and instructions for the off-line laboratory or on-site activities, and at the same time allows successive progress through the whole eLAICH e-learning package.





The eLAICH Educational Toolkit has been tested through a series of courses in various locations in Israel, Italy, Greece, Malta, Jordan and Turkey, including an online simulation course. eLAICH has multiple and lasting community impact through the eLAICH Website and dissemination channels. Inter-and multidisciplinary value of eLAICH and its inter-cultural universal values is evidenced by continuing and increasing commitment by heritage and education authorities who apply eLAICH in their awareness, education, and training activities.

The eLAICH Educational Toolkit provides an obligatory Basic Course and optional Advanced Topics. Users can choose Advanced Topics according to their interests.

Through its flexibility, eLAICH addresses the learning needs of all. It provides rich learning content, assisted by on-line downloadable manuals. It combines interactive on-line educational activities and in-situ study of cultural heritage, contributing to heritage preservation by building a sense of identity, ownership and responsibility.

The manual – a set of introductions and guidelines (available in English, Italian, Hebrew, Arabic, Greek and Maltese) - facilitates independent learning with eLAICH. Introductions and guidelines are provided on all levels: from the general level to the level of a single topic. Introductions explain the content, while the guidelines explain how to actually study (duration, equipment, etc.).

The eLAICH e-learning platform consists of six modules, subdivided into topics. Each module is devoted to a specific integral part of contemporary interdisciplinary conservation of cultural heritage, and linked to eLAICH's on-site teaching unit - "Adopt a site".

Please see the eLAICH video for the modules. The eLAICH modules should be studied sequentially – from 1 to 6. After Module 6 the "Adopt a site" unit should be undertaken.

The "Adopt a site" unit is based on knowledge and understanding developed through all 6 modules. It allows students to link virtual e-learning with the real world of cultural heritage. It enables them to contribute to their own cultural heritage through its study, monitoring, and documentation.

TESTIMONIALS

Prof. Roko Zarnic, Minister of Environment and Spatial Planning of the Republic of Slovenia, Coordinator, EUCHIC Project (2012)

"A typical problem for students from ages 14-18 is 'what to study' – the ELAICH programme can help them by providing an idea. Students can see physics, chemistry, humanities brought together – it is good starting point for studying architecture, archaeology, chemistry, etc."





Prof. Moropoulou (2012), **Vice President - SEFI - The European Society for Engineering** Education; former Vice Rector, NTUA:

"ELAICH introduces inter-disciplinary and multi-disciplinary sciences and arts to students. As they are usually taught each subject separately, with ELAICH they see the inter-relationships of these subjects."

"All human abilities to learn are activated in the ELAICH course – spatial, linguistic, logical, mathematical, kinaesthetic, interpersonal, intra-personal, etc."

Dr. A. Krause, UNESCO Culture Office-Venice (2011):

" ELAICH contributes to transmit to the young generation the cultural heritage values and importance of its preservation; ELAICH is very relevant to the UNESCO peace-building policy; it might be used on UNESCO sites."

Prof. Rene Van Grieken, former Dean of Science Department, University of Antwerp (2012):

"Students who are shown the connection between chemistry and other subjects, like cultural heritage see the value and are more interested in chemistry".

Prof. Guido Biscontin, University Ca'Foscari of Venice (2012) :

"It can be difficult to work with young people but if we start, maybe they can become a civil society that can understand their own cultural heritage, if we interest young people then maybe they will become interested in other subjects like chemistry, or environmental science, archaeology. They can have a different understanding that science and humanities can work together. "

Mrs. Noga Cohavi, Pedagogy Director and Mr. Orel Neeman, Science Director in Campus Matos, the Hebrew Reali School, Haifa (2012) summarized the experience of the ELAICH course at school and the impact it had on their students: "The students had "learned a lot about a new way of thinking about heritage values" that they had developing teamwork, and that "our students now see the world around them differently as now every block looks different". They see history through the stones and recognize that 'the responsibility is on our shoulders for future generations."

Prof. A. Georgiadou, Greek Ministry of Education (2010): "ELAICH is highly effective for teaching cultural heritage for youth, with added educational values to school curricula in general, and to science education in particular".

From presentations at the International conferences and from the Minutes of the ELAICH workshops, from the ELAICH Report to the European Commission, 2012





AWARDS

Educational Linkage Approach In Cultural Heritage (ELAICH)

AWARDS

- 2014 ELAICH awarded the "Project of the Year" First Prize in the category Research, in the framework of the International Competition 2014 of Architecture of Israel and the European Union (<u>http://www.aiq.co.il/gallery/1394973676.pdf</u>).
- 2013 ELAICH Inter- and multidisciplinary e-learning platform on cultural heritage conservation (<u>http://elaich.technion.ac.il/e-learning/</u>) nominated for the World Summit Award (<u>www.wsis-award.org</u>), as the best e-Content example in e-Learning & Science from Israel.

BASIC DATA

Educational Linkage Approach In Cultural Heritage (ELAICH) - ENPI 150583 - Euromed Heritage Programme 4:

- the first Israeli-led Project in the framework of Euromed Heritage Programme;
- the first Technion-led European Project at the Technion.

ELAICH Consortium:

- Leader; Beneficiary: Technion Israel Institute of Technology.
- Contributing partners: National Technical University of Athens (NTUA), University of Antwerp, University Ca' Foscari of Venice, University of Malta.

Project duration: 36 months

Project period: 2009-2012



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END-PRODUCT

Tips on navigating through eLAICH

WELCOME TO eLAICH e-learning platform: <u>http://elaich.technion.ac.il/e-learning/</u> (at any moment you can navigate anywhere via Top Menu on every page)

Click the **Start** button. This takes you to the general Introduction for eLAICH.

Scroll down the Introduction page.

Watch Video 2 - a complete short guide to eLAICH http://www.youtube.com/watch?v=GloGPS6uy5k

Recommended: Download eLAICH Booklet and eLAICH Manual - provided in six languages: English, Italian, Hebrew, Arabic, Greek, and Maltese.

At the bottom of the Introduction page click the **Next** button, or, on the top menu click **Guidelines**.

On the top menu click the **content** button. You are now in the eLAICH knowledge treasury! Click on any **module** or **Adopt a site** in the picture of the vaulted structure ascending the hill of eLAICH knowledge, OR click on any title or icon of learning material/exercise /advanced material from the list below the picture. **Scroll** through the entire '100 km' list of the topics. You might choose topics of your interest, e.g., art, chemistry, materials science, architecture. eLAICH provides access to all learning materials online, and allows downloading all learning materials to a PC in order to watch them offline (note: Copyright).

The following are a few **examples** of different formats of learning materials and activities:

PPT: http://www.elaich.technion.ac.il/e-learning/en/activities/part-i.html

DOC: http://www.elaich.technion.ac.il/e-learning/en/activities/lab-exercise.html

PDF: http://www.elaich.technion.ac.il/e-learning/en/activities/exercise-1.html

Audio Lesson: http://www.elaich.technion.ac.il/e-learning/en/activities/14-audio-i.html

Video Lesson: <u>http://www.elaich.technion.ac.il/e-learning/en/activities/monitoring-water-the-case-of-venice1.html</u>

Online Interactive Exercise: <u>http://www.elaich.technion.ac.il/e-learning/en/activities/questionnaire-34.html</u>

Online Interactive Activity: <u>http://www.elaich.technion.ac.il/e-learning/en/activities/drag-to-match-question.html</u>

Enjoy eLAICH!

Dr. Anna Lobovikov-Katz Head, ELAICH Project anna@technion.ac.il





END-PRODUCT

eLAICH e-learning Platform - World Map 2015



Top 10 countries

- 1. Israel
- 2. Morocco
- 3. Greece
- 4. Italy
- 5. India
- 6. Egypt
- 7. Algeria
- 8. United States
- 9. United Arab Emirates
- 10. Saudi Arabia





Appendix I

Selected publications about the ELAICH Project and e-learning Platform

Lobovikov-Katz, A., *The virtual and the real: e-learning in interdisciplinary education – the case of cultural heritage*, The 13th Annual MEITAL National Conference "New Technologies and Their Evaluation in Online Teaching and Learning" Technion - Israel Institute of Technology, Haifa

Lobovikov-Katz, A., Moropoulou, A., Konstanti, A., Ortiz Calderón, P., Van Grieken, R., Worth, S., Cassar, JA, De Angelis, R., Biscontin, G., Izzo, F., "*Tangible Versus Intangible in e-Learning on Cultural Heritage: from Online Learning to on-Site Study of Historic sites*", in: Digital Heritage. Progress in Cultural Heritage: Documentation, Preservation and Protection, LNCS, Volume 8740, 2014, pp 819-828, Springer <u>http://link.springer.com/chapter/10.1007%2F978-3-319-13695-0_84</u>

Lobovikov-Katz, A., Konstanti, A., Labropoulos, K., Moropoulou, A., Cassar, JA, De Angelis, R. "*The EUROMED 4 Project "ELAICH": e-tools for a teaching environment on EU Mediterranean cultural heritage*" in: Progress in Cultural Heritage Preservation; 4th International Conference, EuroMed 2012, Limassol, Cyprus, October /November / 2012, Lecture Notes in Computer Science, LNCS 7616, Springer 2012

Lobovikov-Katz, A., "*The ELAICH project, a contribution to the documentation and survey of cultural heritage*" in: Proceedings, International Conference on Cultural Heritage Preservation, Split – Croatia, May 29 – June 1, 2012 (published August, 2012) http://www.eu-chic.eu/

Other reports and presentations at conferences & workshops, and numerous publications in press etc., also on ELAICH public website under "Resources" – Press Releases and Announcements:

http://elaich.technion.ac.il/index.php?option=com_content&view=article&id=70&Itemid=92

e.g.,

Heritage prevention starts with education: EU project releases five videos on monitoring and maintenance

http://www.enpi-info.eu/main.php?id=28324&id_type=1

Raising Awareness of Cultural Heritage http://www.thecultureconcept.com/circle/raising-awareness-of-cultural-heritage

Middle Eastern Students Learn That History Can Unite <u>http://www.turkishweekly.net/news/122031/middle-eastern-students-learn-that-history-can-unite.html</u> (Article: Middle Eastern students learn that history can unite - Author: Ruth Eglash

Total Reprints: 33 - Source: CGNews

English Reprints: 23

eLAICH - Inter- and multi-disciplinary e-learning platform on cultural (built) heritage conservation <u>http://elaich.technion.ac.il/e-learning/</u>





Israeli-led ELAICH Euromed Heritage Project to hold first workshop in Athens http://eeas.europa.eu/delegations/israel/press_corner/all_news/news/2010/20100218_01_en.htm

No stone left unturned http://www.jpost.com/Features/InThespotlight/Article.aspx?id=230962

ELAICH Project Ends Winning Support from Governments and NGOs http://www.prlog.org/11833708-elaich-project-ends-winning-support-from-governments-and-ngos.html

ELAICH Website: <u>http://elaich.technion.ac.il/</u> and the eLAICH Learning Platform: <u>http://elaich.technion.ac.il/e-learning/</u>

ELAICH Video (2) – The Project and the eLAICH Toolkit: http://www.youtube.com/watch?v=GloGPS6uy5k

ELAICH Video (1) – The Project and the ELAICH Courses: http://www.youtube.com/watch?v=I2QRbXn5wbM

Listing of ELAICH on the Flemish Research Portal FRIS http://www.researchportal.be/en/projects/search.html?query=elaich

Listing of ELAICH on the University of Antwerp's list of current projects http://webh01.ua.ac.be/mitac1/pages/projects.htm#ELAICH

Overview of the Athens Dissemination Event on **Forum UNESCO-University and Heritage** website: "Euromed Heritage targets students to raise awareness about heritage protection - ELAICH dissemination meeting. Athens - February 2010" <u>http://universidadypatrimonio.neteng/noticias/Archive 2010/05 04 2010.html</u>

Listing of ELAICH

http://www.unive.it/nqcontent.cfm?a_id=415&persona=000192&vista=ricerca

Overview of ELAICH on the Ca'Foscari University website http://www.unive.it/ngcontent.cfm?a_id=65174

The ELAICH educational cultural heritage project completes pilot course <u>http://d157696.si27.siteam.co.il/eu-news/index.cfm?ald=91&eld=17</u> (English) <u>http://d157696.si27.siteam.co.il/eu-news/indexHeb.cfm?ald=91&eld=17</u> (Hebrew)

An interview about ELAICH with Dr. Anna Lobovikov-Katz on youtube http://www.youtube.com/watch?v=2q4M9pf05lQ&feature=related

The Israel Nature and Parks Authority, ed. Dr. Zvika Zuk, Newsletter: February 2012 (in Hebrew) <u>http://elaich.technion.ac.il/images/pdfs/News-Antiques-February2012.pdf</u>

Announcement on ELAICH in Greek:







http://webcache.googleusercontent.com/search?q=cache:JSaWmJMqP9cJ:portal.tee.gr/portal/page /portal/press/dt/2010/20100219EuroMesogeiakoDihmeroPolitistikhKlhronomia.doc+elaich+cultural &cd=37&hl=iw&ct=clnk&gl=il&client=firefox-a

Announcement and schedule of the Athens Dissemination Event http://users.sch.gr/kontaxis/ekdiloseis/1001politistikiklironomia.htm

Venice Workshop Press & Web Releases http://elaich.technion.ac.il/images/pdfs/VeniceWorkshop_press_web_releases.pdf

Heritage custodians in the making <u>http://www.timesofmalta.com/articles/view/20110505/local/Heritage-custodians-in-the-making.363729</u>

Announcement of the partners' meeting in Venice with links to the project leaflet and meeting agenda on the Ca'Foscari University website: http://www.unive.it/ngcontent.cfm?a_id=63&gruppo=0&event_id=2613962

General overview of ELAICH (in the context of the partners' meeting in Venice) on the Ca'Foscari University website: <u>http://www.unive.it/nqcontent.cfm?a_id=1486</u>

ELAICH to Launch Online Educational Cultural Heritage Tool kit at Closing Conference <u>http://www.prlog.org/11780048-elaich-to-launch-online-educational-cultural-heritage-tool-kit-at-closing-conference.html</u>

ELAICH to Hold Special Workshop for Public Officials in Venice, Italy <u>http://elaich.technion.ac.il/images/pdfs/Special%20Workshop%20for%20Public%20Officials%20in%2</u> <u>0Venice.pdf</u>

http://www.unive.it/ngcontent.cfm?a_id=97898

http://www.connessomagazine.it/universit%C3%A0/i-monumenti-piu-vicini-ai-giovani-con-il-progetto-elaich-ca-foscari

Huffington Post, Ruth Eglash, posted: 9/16/11 http://www.huffingtonpost.com/ruth-eglash/middle-eastern-students-l_b_965907.html

Common Ground News Service "Middle Eastern students learn that history can unite" by Ruth Eglash, 16 August 2011

http://www.commongroundnews.org/article.php?id=30214&lan=en&sid=2&sp=0

The Journal of Turkish Weekly, 17 August 2011

http://www.turkishweekly.net/news/122031/middle-eastern-students-learn-that-history-canunite.html

ELAICH Course in Jordan http://www.jpost.com/Features/InThespotlight/Article.aspx?id=230962





Article from The Jordan Times "EU-funded project brings cultural heritage alive for students" (By Hani Hazaimeh)

http://www.jordantimes.com/?news=39484

Article from Euromed Heritage site "On-site heritage preservation for high-school students in Amman"

www.euromedheritage.net/intern.cfm

The Times, June 4, 2011 -Keen interest in island's cultural heritage http://www.timesofmalta.com/articles/view/20110604/editorial/Keen-interest-in-island-s-cultural-heritage.368777

Article and video (Thursday, May 5, 2011) <u>http://www.timesofmalta.com/articles/view/20110505/local/Heritage-custodians-in-the-making.363729</u>

Radio interview with the participants of the ELAICH course in Malta <u>http://www.campusfm.um.edu.mt/Convertedaudio/Spring 11/uni matters 2/uni15.wma</u>

Editorial, in Euromed Heritage *Connecting*, Issue No. 7 http://www.euromedheritage.net/euroshared/doc/en%20n%C2%B07_mise%20en%20page%201.pdf

ELAICH – Educational Linkage Approach in Cultural Heritage <u>http://forumlifebeyondtourism.wordpress.com/2011/02/14/elaich-%E2%80%93-educational-</u> <u>linkage-approach-in-cultural-heritage/</u>

The Educational Linkage Approach in Cultural Heritage (ELAICH) The Systems of Knowledge website (Malta Junior College) <u>http://www.jc.um.edu.mt/sok/notices/selection_requirements_for_elaich_project</u>

The Elaich Project in Malta http://www.jc.um.edu.mt/sok/notices/?a=89421

End event of pilot project – Technion-led European ELAICH (Hebrew) <u>http://arc.asat.org.il/?p=726</u>

ELAICH project concludes cultural heritage course http://www.enpi-info.eu/mainmed.php?id=23841&id type=1

Invitation to the closing event of ELAICH pilot course, Haifa English:

http://eeas.europa.eu/delegations/israel/press_corner/all_news/news/2011/20110119_01_en.htm Hebrew:

http://eeas.europa.eu/delegations/israel/press_corner/all_news/news/2011/20110119_01_he.htm

ELAICH project cultural heritage pilot course

http://93.93.202.18/workeuromed/intern.cfm?menuID=9&submenuID=7&idnews=485





Ca' Foscari infoscari – I monumenti più vicini ai giovani con il progetto ELAICH sviluppato da Ca' Foscari con 4 università straniere (Italian) <u>http://www.unive.it/nqcontent.cfm?a_id=78662</u>

Ca' Foscari infoscari - Progetto ELAICH (Italian) http://www.unive.it/nqcontent.cfm?a_id=77522

Announcement on the Athens Dissemination event on the Technical Chamber of Greece website: "Euromed Heritage targets students to raise awareness about heritage protection - Elaich dissemination meeting. Athens - February 2010" (Greek)

http://webcache.googleusercontent.com/search?q=cache:JSaWmJMqP9cJ:portal.tee.gr/portal/page /portal/press/dt/2010/20100219EuroMesogeiakoDihmeroPolitistikhKlhronomia.doc+elaich+cultural &cd=37&hl=iw&ct=clnk&gl=il&client=firefox-a

Announcement on the workshop in Athens on the ENPI website: "Euromed Heritage targets students to raise awareness about heritage protection http://www.enpi-info.eu/mainmed.php?id type=1&id=20780&lang id=450

Announcement and schedule of the Athens Dissemination Event http://users.sch.gr/kontaxis/ekdiloseis/1001politistikiklironomia.htm

An article on the Athens Dissemination Event in the Technical Chamber of Greece Magazine, p.13 (Greek)

http://www.elaich.technion.ac.il/images/pdfs/tcg_magazine_page_13-ntua.pdf

Press coverage on the Athens Dissemination Event (Eleutheros_Typos; in Greek) http://www.elaich.technion.ac.il/images/pdfs/eleutheros_typos%2026-2-10.pdf

Press coverage on the Athens Dissemination Event (European_Agency; in Greek) http://www.elaich.technion.ac.il/images/pdfs/european_agency%2026-2-10.pdf

Press coverage on the Athens Dissemination Event (Express; in Greek) <u>http://elaich.technion.ac.il/images/pdfs/express%2024-2-10.pdf</u>

Press coverage on the Athens Dissemination Event (Green Business; in Greek) http://elaich.technion.ac.il/images/pdfs/green%20business%2023-2-10%20ntua.pdf

Press coverage on the Athens Dissemination Event (Pathfinder; in Greek) <u>http://elaich.technion.ac.il/images/pdfs/presscode%2023-2-10.pdf</u>

Press coverage on the Athens Dissemination Event (MINISTRY YPOIAN; in Greek) http://elaich.technion.ac.il/images/pdfs/ministry%20ypoian%2023-2-10.pdf

Press coverage on the Athens Dissemination Event (Presscode; in Greek) <u>http://elaich.technion.ac.il/images/pdfs/inews%2023-2-10.pdf</u>

Press coverage on the Athens Dissemination Event (inews; in Greek) http://elaich.technion.ac.il/images/pdfs/diorismos_20-2-10-ntua.pdf





Press coverage on the Athens Dissemination Event (Diorismos; in Greek) <u>http://elaich.technion.ac.il/images/pdfs/xrimatistirio-ntua.pdf</u>

An article on the Athens Dissemination Event in GGE, p. 40 (in Greek) <u>http://elaich.technion.ac.il/images/pdfs/gge_page_40-ntua.pdf</u>

Radio interview with Prof. JoAnn Cassar and Roberta De Angelis, University of Malta http://campusfm.um.edu.mt/

Short overview of ELAICH in CHRESP: 8th EC Conference on Sustaining Europe's Cultural Heritage, Ljubljana, Slovenia, 10-12/11/2008 <u>http://www.uni-muenster.de/Forum-Bestandserhaltung/downloads/CHRESP_2008_LJUBLJANA.pdf</u>