Greek digital collections go to primary school: Resources and infrastructure for learners and teachers

This talk will introduce Greek digital collections openly available to educators, researchers, and the general public via *SearchCulture.gr*. *SearchCulture.gr* is the Greek national cultural content provider for Europeana, the biggest portal of digitised cultural heritage collections in Europe, funded by the European Union.

In the 7 years that have passed since its launching, *SearchCulture.gr* has contributed more than half a million items contributed by 78 Greek memory institutions (libraries, archives, museums etc.) including historical documents and manuscripts, books, photographs, cartographic material, material culture, art, 3D models and audio-visual material of archaeological items.

The talk will focus on how this digital content can be utilized for the teaching of some of the most sought after 21st century skills in the era of data-enabled artificial intelligence technologies, notably critical thinking, creativity, soft skills, and data literacy skills.

maria.papadopoulou@ppp.uoa.gr
http://o4dh.com/

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By the end this presentation, you will:

- Be introduced to what SearchCulture and Europeana are and what they do
- Know where to find reusable content relevant for use in education
- Be more aware on how to integrate 21st c. skills in your teaching
- Be more confident in creating and sharing your own educational resources using Search Culture and Europeana
- Be better prepared to facilitate open schooling experiences with museums and other memory institutions

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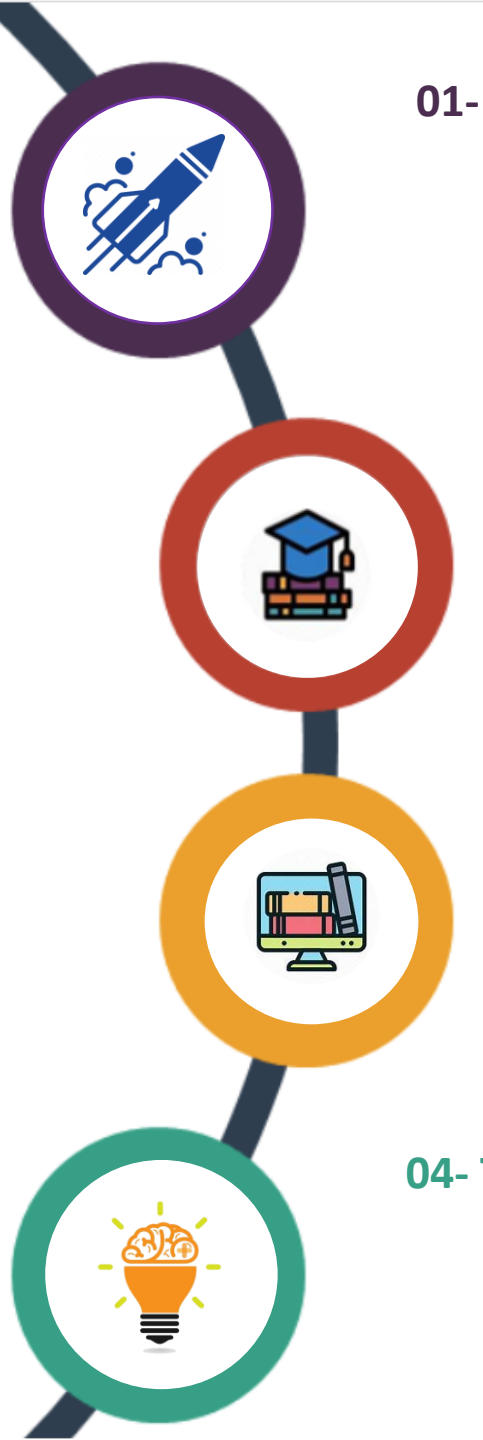
CONTENTS



01- Points of departure

02- 21st century skills

03- SearchCulture (as part of Europeana) digital collections

04- Teaching 21st c. skills with SearchCulture

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01- Points of departure

1- Should we embrace or limit the digitalization of learning for younger students?

2- Why use digital collections in supporting teaching and learning?

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01 Why Digital + Collections?

Digital technology continues to infiltrate education

Digital technology can transform students into actual researchers with good leadership

By discouraging elementary school students from using digital technology in the classroom, one only deprives them of the chance to experience the modern world.

Collections - print, digital, and other resources - support students' literacy and learning needs

Student needs should be central to a collection's development decisions

Resources for students should be balanced & inclusive, catering for a wide range of student interests & abilities

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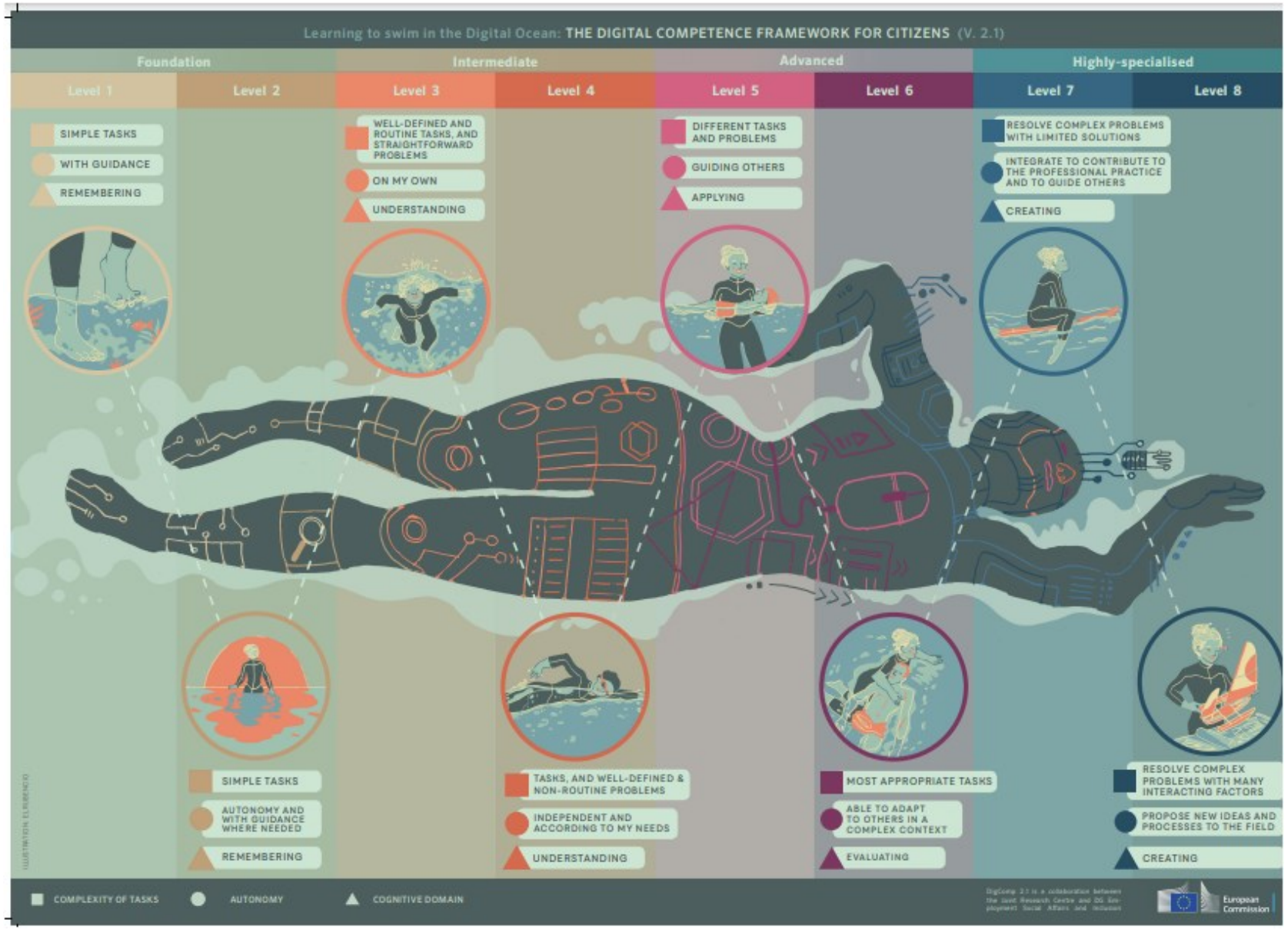
02- 21st century skills….for swimming in the digital ocean

This **Digital Competence Framework Poster** explains the 8 levels of competence of the **Digital Competence framework for citizens**

This **DigComp v.2.1** infographic uses the metaphor of **Learning to swim in the digital ocean**



- ✓ 8 competency levels
- ✓ 4 levels of task complexity ■
- ✓ 4 levels of autonomy ●
- ✓ 4 cognitive domains ▲

Digital youth

URL: https://digitalyouth.eu/wp-content/uploads/2021/10/Learning-to-swim-in-the-Digital-Ocean.pdf

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02- 21st century skills….for swimming in the digital ocean

Platform 21+ 21st century skills' lab

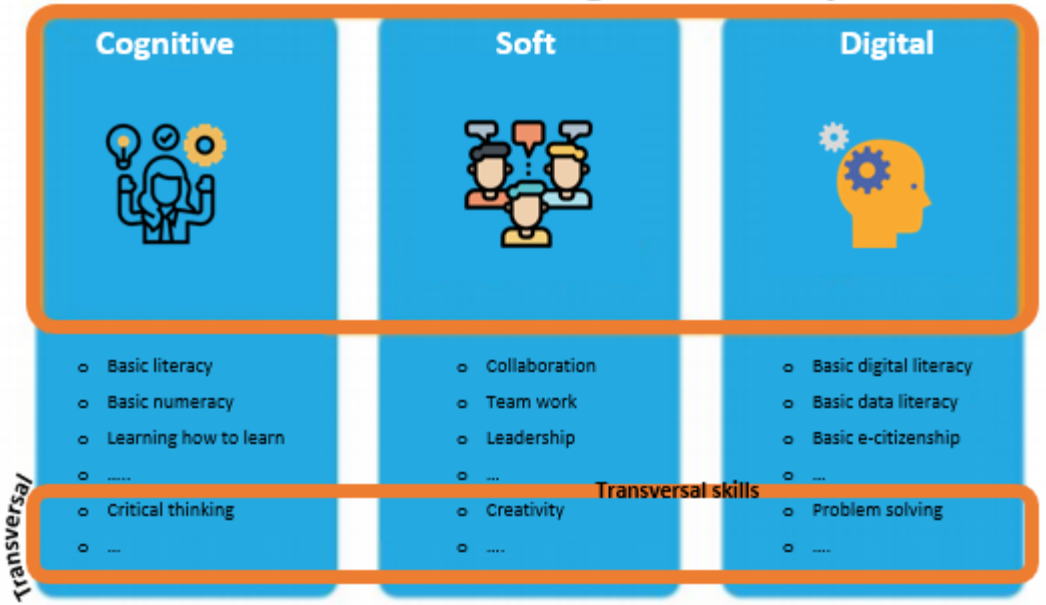
URL: http://iep.edu.gr/en/psifiako-apothetirio/skill-labs

21st century skills are defined by a set of 12 competences that today's students and professionals rely on to excel in their studies and careers.

The 12 21st Century Skills are:

- critical thinking, creativity, creativity, collaboration, communication,
- digital literacy,
- media literacy,
- technological literacy,
- flexibility,
- leadership,
- initiative,
- productivity and
- social and emotional skills.

Which skills for the digital economy?



Adapted from: M. C. Morandini, A. Thum-Thysen and A. Vandeplas Facing the Digital Transformation: Are Digital Skills Enough? ECONOMIC BRIEF 054 | JULY 2020 URL: https://ec.europa.eu/info/publications/facing-digital-transformation-are-digital-skills-enough_en

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02- 21st century skills….for swimming in the digital ocean

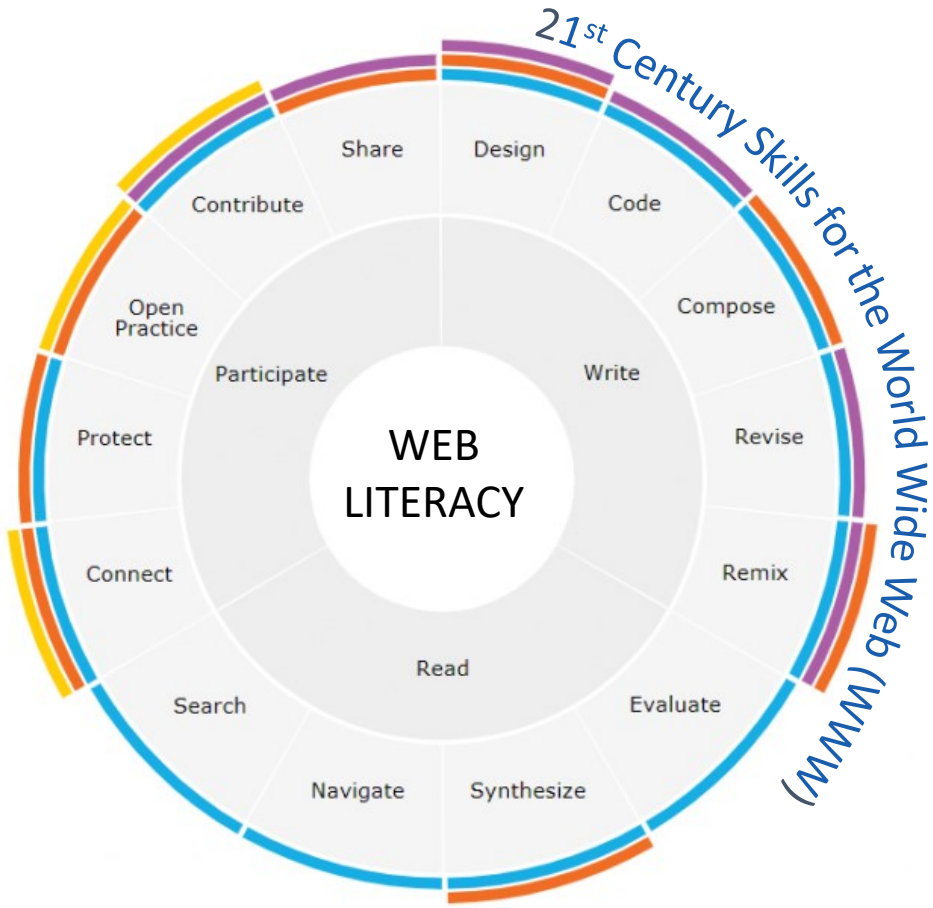
https://en.wikipedia.org/wiki/World_Wide_Web

moz://a

In today's digital world, knowing how to read, write, and participate online is a foundational skill next to reading, writing, and arithmetic.

At Mozilla, we call this **Web Literacy**.

Combined with **21C Skills**, these digital-age skills help us live and work in today's world.



URL: https://foundation.mozilla.org/en/initiatives/web-literacy/

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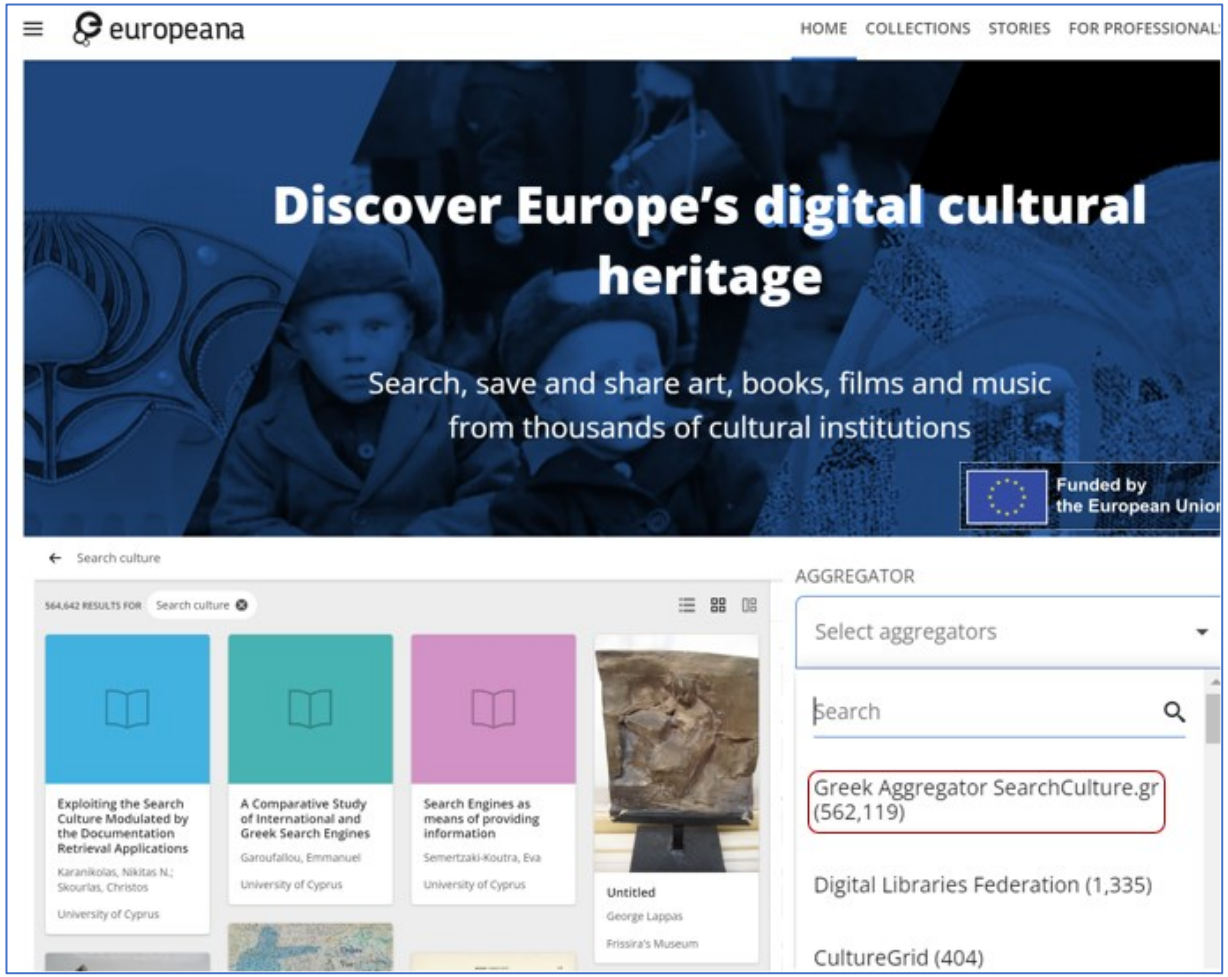
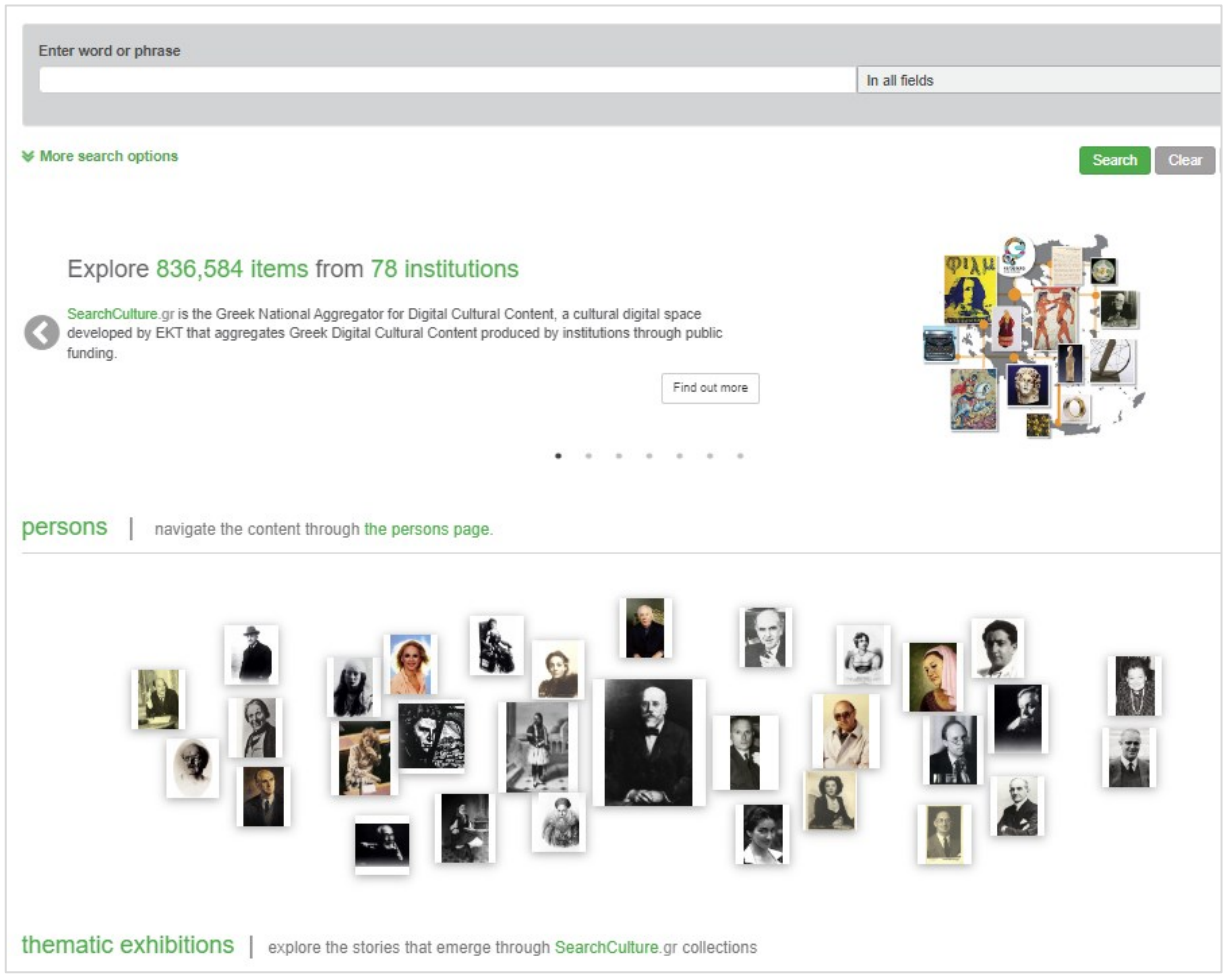
03 SearchCulture and Europeana

Search Culture.gr — Culture in the digital public space



URL: https://www.europeana.eu/en



URL: https://www.searchculture.gr/aggregator/portal/?language=en

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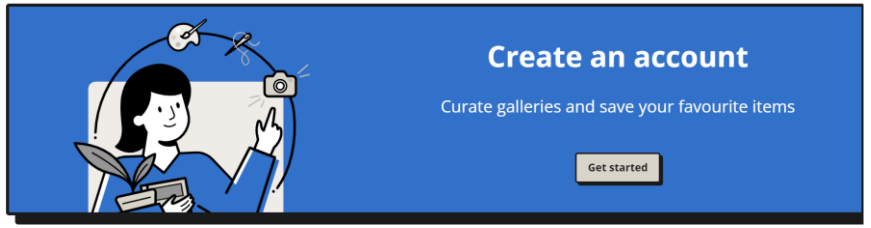
03- What is Europeana?

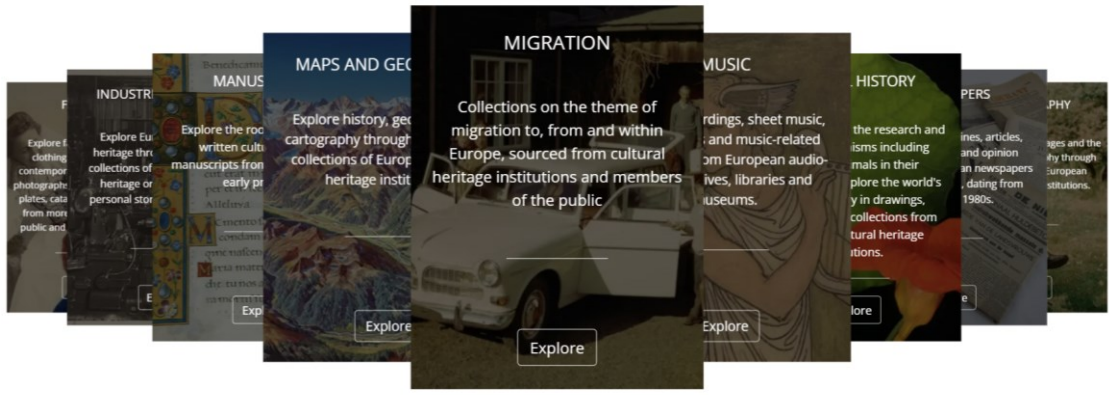


URL: https://www.europeana.eu/en

SearchCulture.gr is the accredited National Aggregator for Europeana for Greece. It has developed workflows and procedures for integrating its content into the European Digital Library. Presence in Europeana ensures even greater visibility for the participating institutions. So far, SearchCulture.gr has contributed over 562,119 items from 54 collections/owning institutions to Europeana.

Europeana is a Foundation based on the Netherlands, run by a Board of Directors representing bodies and associations of GLAMs from all over Europe. Since 2008, Europeana developed its portal and now hosts over 50 million digital cultural resources. Europeana has made a significant contribution to the development of a common European consciousness, not only for museums, libraries and archives, but also for citizens and innovation communities. It spearheaded the creation of networks of content collaboration and re-use. At the same time, it highlighted the value of coexistence of heterogeneous digital cultural content and the possibilities of multiple narratives for objects and testimonies of our shared heritage.

For culture, Europeana has been a catalyst, sharing good practices and know-how about content aggregation, as well as participating in pan-European multi-partner projects with a focus on fashion, music, photography and shared European heritage. Its licensing policy, supported by the Open Access movement and the use of Creative Commons licenses, have contributed both to the circulation of knowledge and to the protection of copyright. Organizations with tangible and intangible heritage collections what wish to join SearchCulture.gr and Europeana and participate in a dynamic national and international network of cultural institutions, consisting of museums, archives, archives, universities, associations and cultural organizations, can declare their interest here.



- 50m+ items of digitized cultural heritage
- like photographs, videos, music,
- newspapers, text (letters, diaries and
- books), spoken word and newsreels
- 20m+ items suitable for use in education
- Curated exhibitions and themed collections
- Content in 22 languages (and growing) and exhibitions available in 12 languages

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03- What is SearchCulture.gr?

Greek Digital Collections' Aggregator: SearchCulture

SearchCulture.gr is the Greek National Aggregator for Digital Cultural Content, a cultural digital space developed by EKT that aggregates Greek Digital Cultural Content produced by institutions through public funding.

Explore 800+ items from 53 institutions

Development started in 2013
Developed in-house
SearchCulture.gr was launched in 2016

- 85 collections
- 78 Greek cultural institutions
- 200,000+ visits
- Curated exhibitions
- Tools for Educators
- Content in Greek and English

museums
archives
ephorates of antiquities
municipalities
cultural foundations
universities
scientific institutions
research centres
libraries
public organizations

URL: https://www.searchculture.gr/aggregator/

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03- Types of digital content

vase

dagger

ostracon

coin

jewelry

painting

photograph

video

Bronze Age — **3000 BCE**

2000 BCE — **Middle Bronze Age**

figurine

disk

Geometric Period — **1000 BCE**

sculpture

1 CE — **Roman Period**

inscription

Byzantine Period — **1000 CE**

icon

manuscript

2000 — **Contemporary Greece**

newspaper

audio

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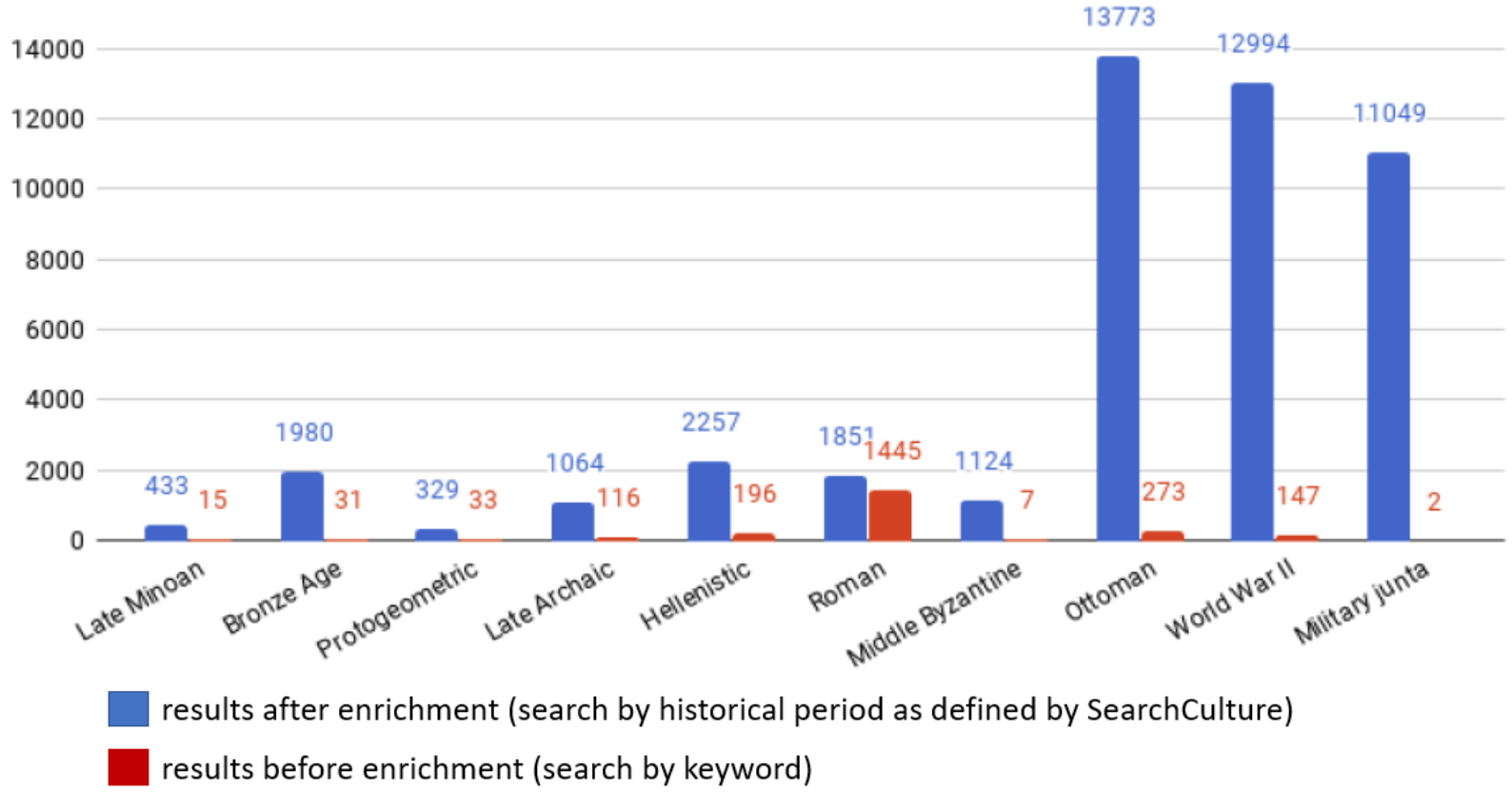
03- Improved Searchability

Searchability of 10 chronological periods of Greek history before and after semantic enrichment



From Georgiadis et al. **Using type and temporal semantic enrichment to boost content discoverability and multilingualism in the Greek cultural aggregator SearchCulture.gr** *Int. J. Metadata, Semantics and Ontologies, Vol. 13, No. 1, 2018*

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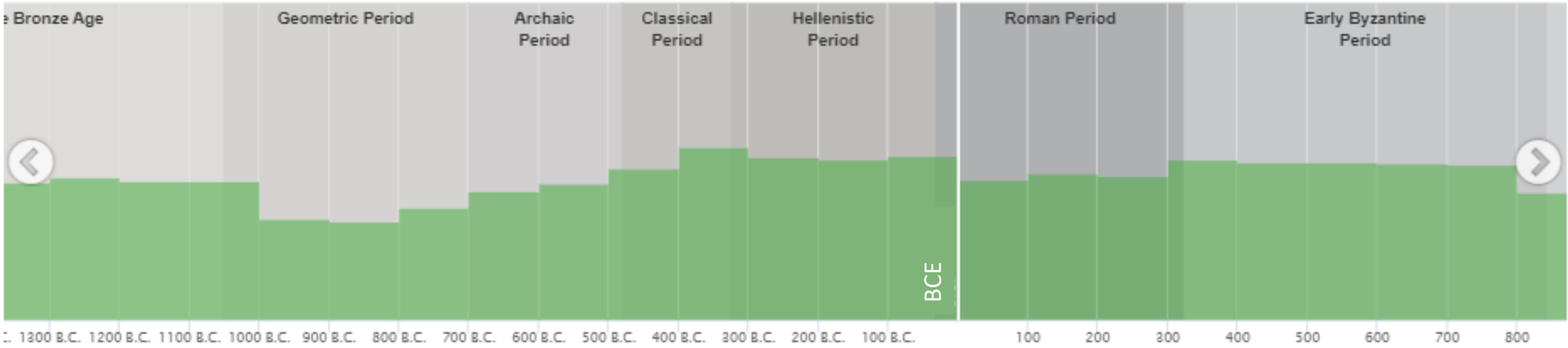
03- Periods of Greek history

Search Culture.gr } Culture in the digital public space

timeline | navigate the content through all historical periods.



https://www.searchculture.gr/aggregator/portal/ekt-periods?language=en

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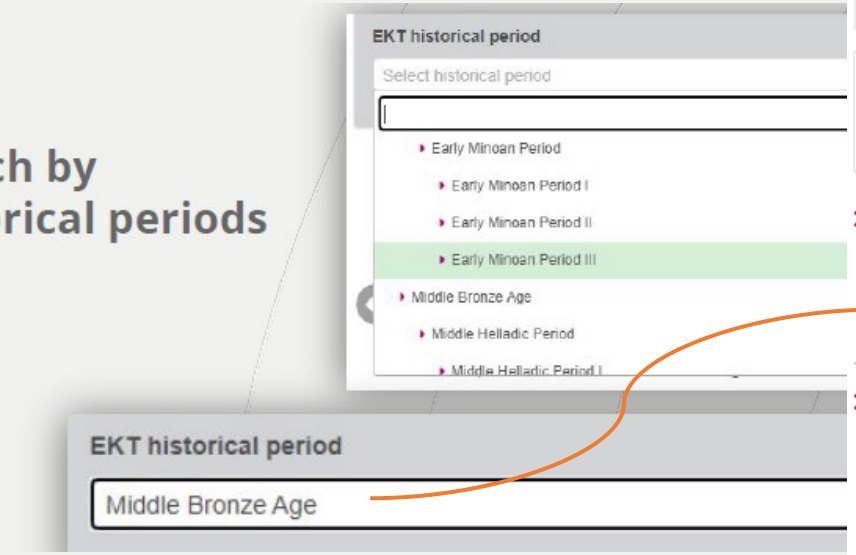
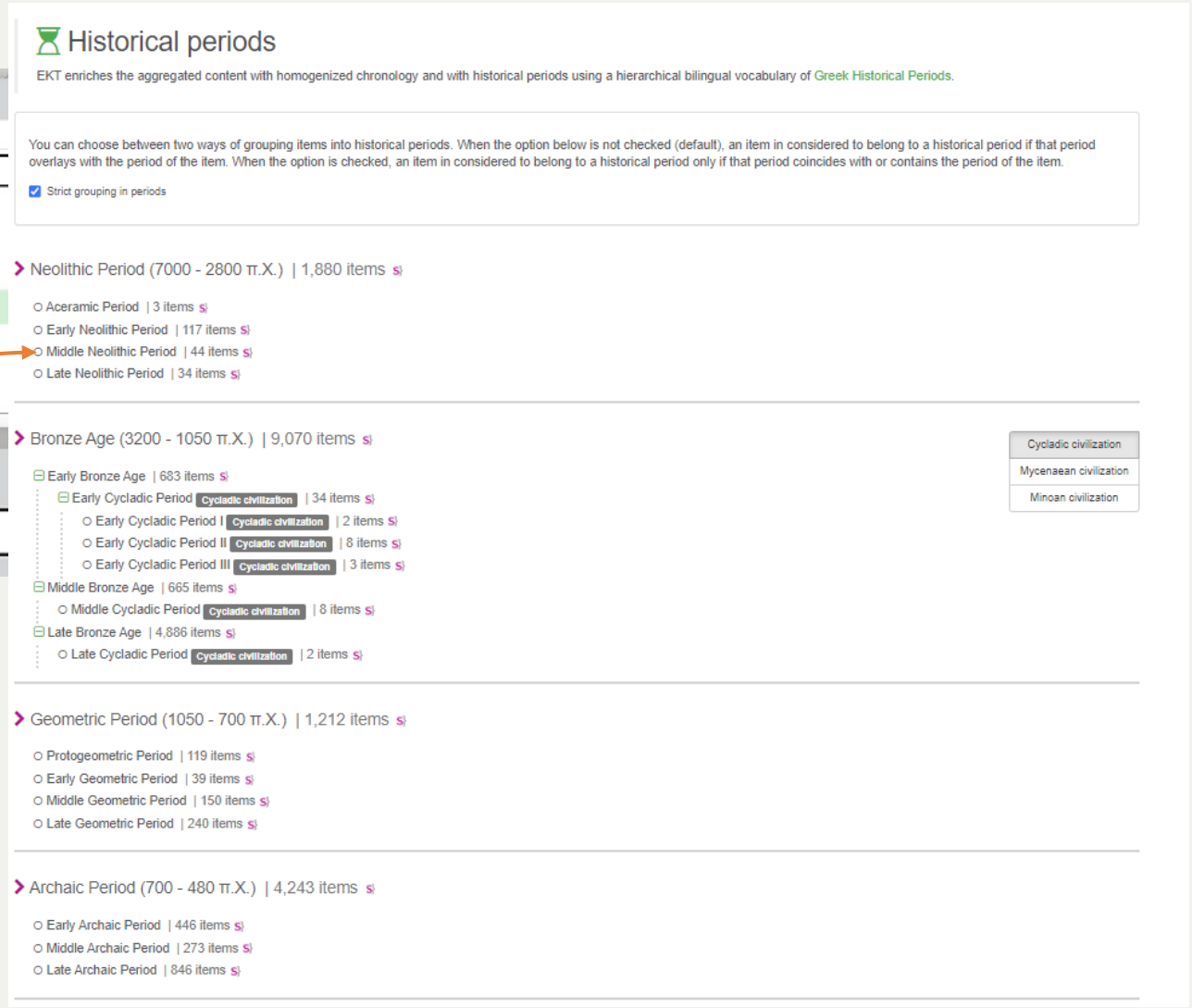
03- Periods of Greek history

Search by Historical periods





https://www.searchculture.gr/aggregator/portal/ekt-periods?language=en

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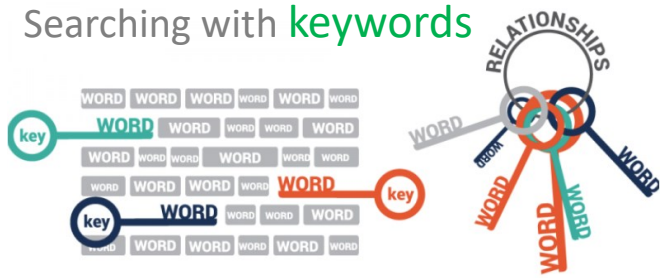
04

Semantic search denotes search with meaning, as distinguished from lexical search where the search engine looks for literal matches of the query words or variants of them, without understanding the overall meaning of the query.

versus

Searching with **keywords**


RELATIONSHIPS
key
WORD
WORD
WORD

04- Teaching 21st c. skills with Greek Digital Collections

thematic exhibitions | explore the stories that emerge through SearchCulture.gr collections

Browse

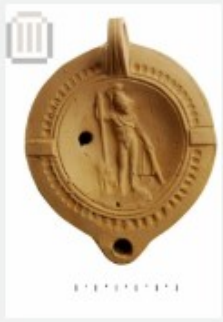
- Persons
- Types
- Subjects
- Historical periods
- Institutions
- Collections
- Thematic exhibitions

Byzantine hymnography and Byzantine chant

A theology of beauty and poetry

The Cretan School of Icon-Making

The Cretan Renaissance



Ancient lamps

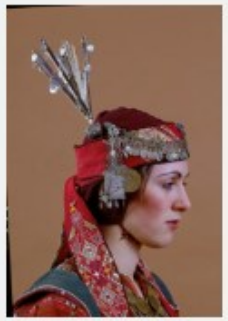
Lighting the ancient world

The Generation of the '30s

Avant-Garde intellectuals of the Inter-War period

World War II Photography

The War, German Occupation, Resistance, Liberation



Greek folk costumes

A journey in folk Greek local costumes

Rebetiko

The story of the Greek urban working class music

Olympic Games and Philosophy

Olympic Memorabilia

Protests, demonstrations, marches

A century of democratic disobedience through archival photographs, artworks and documents

The world of archaeological digs

100 years of archaeological excavations in Greece in photographs

See all thematic exhibitions

URL https://www.searchculture.gr/aggregator/portal/?language=en

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04- Teaching 21st c. skills with Greek Digital Collections

Distinguished Persons in Greek History and Art

Explore SearchCulture.gr for persons of interest. The new bilingual catalogue links persons with items they created and items they relate to, across all collections. Use the search box and filters to find persons and related items.

https://www.searchculture.gr/aggregator/portal/?language=en

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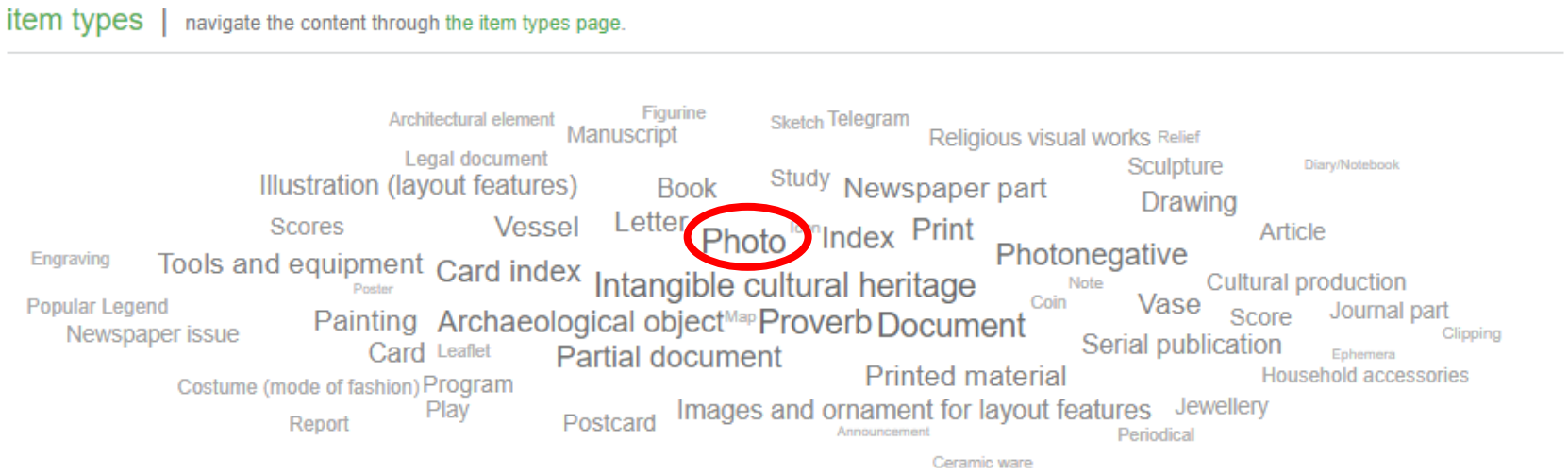
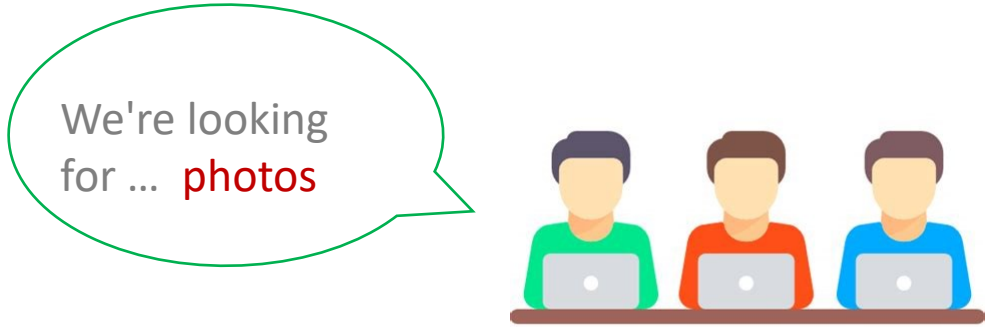
04- Does the computer know about culture?

The SearchCulture **vocabulary of types** is hierarchical and bilingual and is linked to the **Getty Art & Architecture Thesaurus** (AAT) and the **semantic thesaurus** Dbpedia of Wikipedia. The vocabulary is used for the homogenization and classification of the content aggregated by SearchCulture.gr.



https://www.dbpedia.org/

https://www.getty.edu/research/tools/vocabularies/



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04- Teaching about….

Πληκτρολογήστε λέξη ή φράση

middle byzantine coins | Σε όλα τα πεδία

Περισσότερα κριτήρια αναζήτησης

Αναζήτηση | Καθαρισμός | Βοήθεια

Φίλτρα αποτελεσμάτων

Καθαρισμός

Θέμα

Τύπος τεκμηρίου

Πρόσωπο

δημιουργοί ή αναφερόμενοι

Χρονολόγηση

Ιστορική περίοδος

Φορέας / συλλογή

Europeana τύπος

Άδεια χρήσης αρχείου

Γλώσσα

1 - 30 από 49.569 αποτελέσματα

Ταξινόμηση

Σχετικότητα με κριτήρια

1 2 3

Νόμισμα

EKT τύπος τεκμηρίου
Νόμισμα

Δημιουργός
Άγνωστος

Άδεια χρήσης αρχείου
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Φορέας
Εφορεία Αρχαιοτήτων Ευβοίας

Συλλογή
Αποθετήριο Εφορείας Αρχαιοτήτων Εύβοιας

RDF

Νόμισμα

EKT τύπος τεκμηρίου
Νόμισμα

Δημιουργός
Άγνωστος

Άδεια χρήσης αρχείου
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Φορέας
Εφορεία Αρχαιοτήτων Ευβοίας

Συλλογή
Αποθετήριο Εφορείας Αρχαιοτήτων Εύβοιας

RDF

Νόμισμα

EKT τύπος τεκμηρίου
Νόμισμα

Δημιουργός
Άγνωστος

Άδεια χρήσης αρχείου
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Εφορεία Αρχαιοτήτων Ευβοίας

Συλλογή
Αποθετήριο Εφορείας Αρχαιοτήτων Εύβοιας

RDF

Complex search

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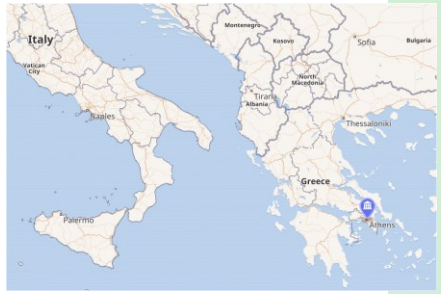
04- Teaching about..

Where is the primary source?



Can I reuse this ?

Photograph of children and their teacher outside their school class, Athens.

URI: https://www.searchculture.gr/aggregator/edm/jewishmuseum/000141-photograph-2655_

RDF/XML | JSON-LD

Το τεκμήριο παρέχεται από τον φορέα :

Εβραϊκό Μουσείο της Ελλάδος

Αποθετήριο :

Συλλογές Εβραϊκού Μουσείου της Ελλάδος

Jewish Museum of Greece
Research Center

δείτε την πρωτότυπη σελίδα τεκμηρίου

στον ιστότοπο του αποθετηρίου του φορέα για περισσότερες πληροφορίες και για να δείτε όλα τα ψηφιακά αρχεία του

χρησιμοποιήστε

το αρχείο ή την εικόνα προεπισκόπησης σύμφωνα με την άδεια χρήσης :

In Copyright (InC)

Σε καθεστώς Πνευματικής Ιδιοκτησίας - Περιορισμένη Χρήση

IN COPYRIGHT

Τίτλος	Photograph of children and their teacher outside their school class, Athens.
Περιγραφή	Photograph of children and their teacher outside their school class, Athens.
Τύπος	Photograph Φωτογραφία (EL) S EKT
Θέμα	Photographic Archive of the Jewish Museum of Greece Εβραίοι (EL) S EKT
Πάροχος	Εβραϊκό Μουσείο της Ελλάδος
Αποθετήριο / συλλογή	Συλλογές Εβραϊκού Μουσείου της Ελλάδος
Επιμέρους συλλογή	Photographic Archive of the Jewish Museum of Greece
Πηγή	The Jewish Museum of Greece
Γεωγραφική κάλυψη	Athens
Χρονική κάλυψη	Από Βασιλεία Γεωργίου Α' (EL) S EKT Έως Μεταπολίτευση (EL) S
Ημερομηνία	[20th century]
Χρονολογία	1901 - 2000 (EL) EKT

- **digital surrogates of actual things**
- **copyright and licences online**

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04- Teaching about..

- **Structured Information**
- **The notion of 'metadata'**

RDF/XML | JSON-LD

Το τεκμήριο παρέχεται από τον φορέα :

Αμερικανική Σχολή Κλασικών Σπουδών

Αποθετήριο :
Αποθετήριο Αμερικανικής Σχολής Κλασικών Σπουδών

The American School of Classical Studies at Athens

δείτε την πρωτότυπη σελίδα τεκμηρίου
στον ιστότοπο του αποθετηρίου του φορέα για περισσότερες πληροφορίες και για να δείτε όλα τα ψηφιακά αρχεία του τεκμηρίου

κατεβάστε το βασικό αρχείο
απευθείας από τον ιστότοπο του αποθετηρίου

χρησιμοποιήστε
το αρχείο ή την εικόνα προεπισκόπησης σύμφωνα με την άδεια χρήσης :
CC BY-NC-ND 4.0 GR
Αναφορά Δημιουργού-Μη Εμπορική Χρήση-Όχι Παράγωγα Έργα

Τίτλος	Mystras. Small children (EN)
Δημιουργός	Canaday Doreen D. (EN)
Περιγραφή	Blegen Library Archives (EN) MISTRA 1937, "On cardboard with title ""MISTRA 1937""" (EN)
Τύπος	Print (EN) Εκτύπωση (EL) s| EKT Φωτογραφία (EL) s|
Θέμα	Photography (EN) Archaeology (EN) Ethnography (EN) Antiquities (EN) Archaeological Photography (EN) Αρχαίοι πολιτισμοί (EL) s| EKT Αρχαιολογία (EL) s| Εθνολογία (EL) s| Αρχαιότητες (EL) s| Φωτογραφία (EL) s|
Πάροχος	Αμερικανική Σχολή Κλασικών Σπουδών
Αποθετήριο / συλλογή	Αποθετήριο Αμερικανικής Σχολής Κλασικών Σπουδών
Πηγή	Blegen Library Archives (EN)
Εκδότης	Blegen Library Archives
Γεωγραφική κάλυψη	Greece, Laconia, Mystras
Χρονική κάλυψη	Μεσοπόλεμος (EL) s| EKT
Ημερομηνία	1937

title

creator

description

type

topic

repository / collection

repository / collection

http://dlibrary.ascsa.edu.gr/ascsa-omeka/items/show/53541

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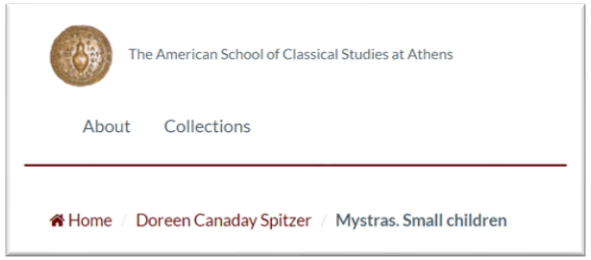
04- Data Detectives

Mystras. Small children



Title | **Metadata** | Citation

Identifier: "0548"
Title: "Mystras. Small children"
Subject: Antiquities, Photography, Archaeological Photography, Archaeology, Ethnography
Description: "MISTRA 1937, "On cardboard with title ""MISTRA 1937""""
Creator: "Canaday Doreen D."
Publisher: "Blegen Library Archives"
Date: "1937"
Format: "6x9"
Type: "Print"
Coverage: "Greece, Laconia, Mystras"

What are "metadata"?

Difference from "title"?

URL: http://dlibrary.ascsa.edu.gr/ascsa-omeka/items/show/53541

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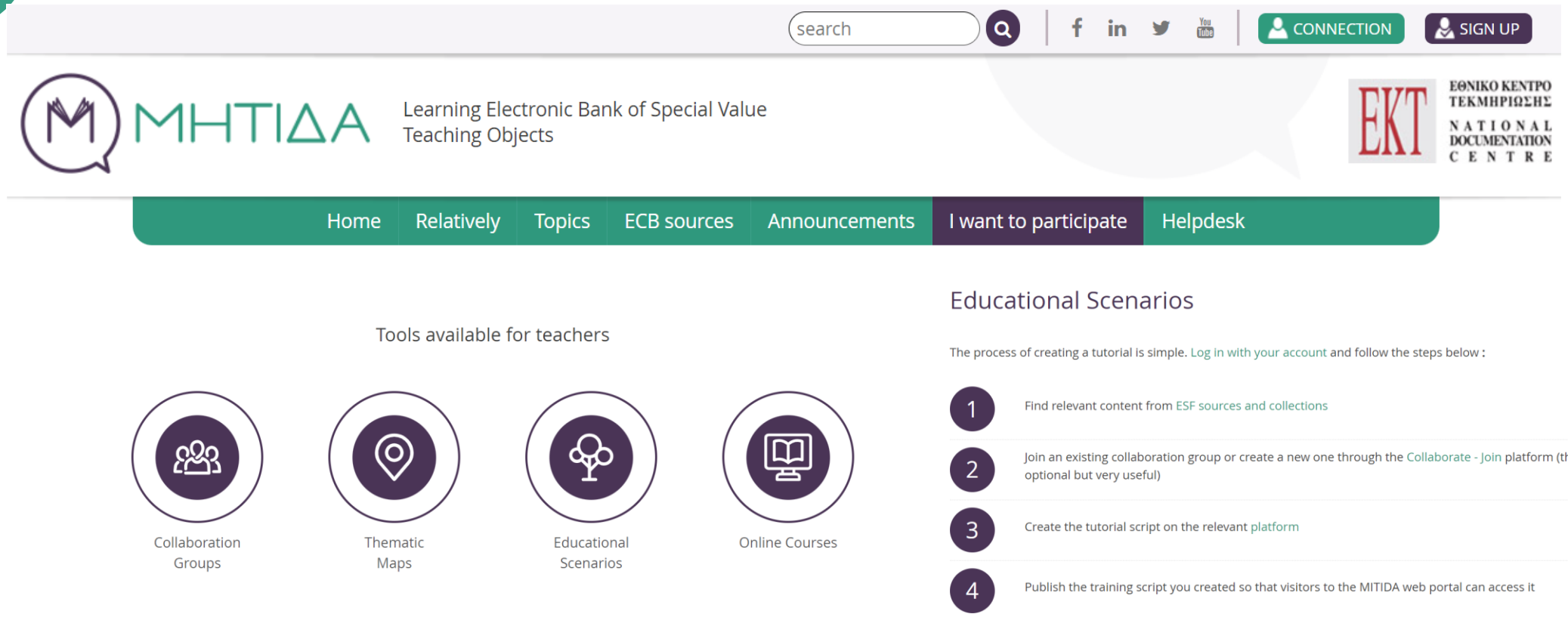
04- Tools for teachers

MITIDA: Discover 1.200.000 digital items and create educational content



The **MITIDA** online platform of the National Documentation and Electronic Content Center (EKT) enables teachers to create content for primary and secondary education using online collaboration tools and free content from SearchCulture sources.

URL http://www.mitida.gr/el

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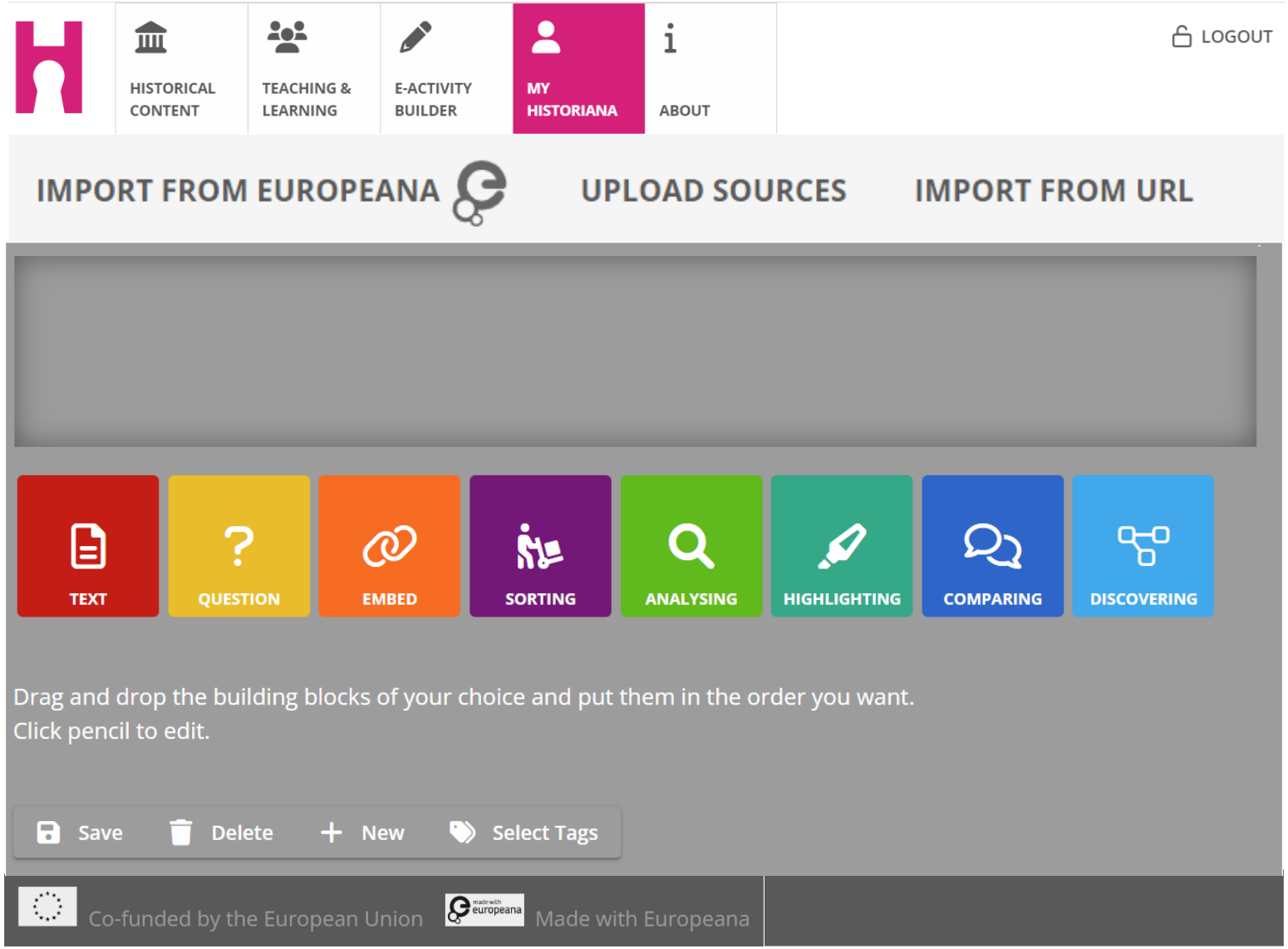
04- Tools for teachers

Historiana is an on-line educational multimedia tool that offers students multi-perspective, cross-border and comparative historical sources to supplement their national history textbooks.

Historiana offers free historical content, ready to use learning activities, and innovative digital tools made by and for history educators across Europe.



URL https://live.historiana.eu/
Coordinated by EuroClio – European Association of History Educators

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04- A Learning Scenario

Thematic exhibition

Olympic Games and Philosophy

Olympic Memorabilia

ΠΑΡΙΣΙ 1924, ΟΛΥΜΠΙΑΚΟΙ ΑΓΩΝΕΣ, Διεθνής Ολυμπιακή Επιτροπή, CC BY-NC-ND 4.0 GR
Thessaloniki Olympic Museum

The Olympic Games have grown exponentially over their 120-year history and incorporate more sports. From the 9 sports included in the first contemporary Olympic Games in Athens in 1896, the program now includes 33. We see a similar growth in the number of communication tools required for their organization and the number of souvenirs created to commemorate them. Collectors all over the world passionately buy and sell Olympic memorabilia.

This thematic exhibition presents a variety of memorabilia, including medals, mascots, souvenirs, torches and the official Olympic posters of many Games. The branded material that was developed for each of the Games reflects the style of each period, the character of the host city as well as the socioeconomic conditions in which the Games took place.

However, as different as these conditions were, from 1896 to today, the Olympic philosophy remains unaltered and promotes the principles of tolerance, peace, ethical competition and noble rivalry in order to create a peaceful society with less violence and competitiveness.

Activity: Olympic Games	
Link to curriculum	**Greek National Curriculum of PrimarySchool in History, PE, Greek language, Art**
Topic	**Olympic Games**
Age of participants	**9-11 years old**
Where?	**in the museum, online, in class**
How long?	**1 hr. and 10'**
Online educational material	**https://teachwitheuropeana.eun.org/learning-scenarios/what-about-olympic-games-en-cur-668/** **https://www.searchculture.gr/aggregator/portal/thematicCollections/olympicgames**
Offline educational material	**paper, glue, paper cards, coloring pencils/ crayons**

This Learning Scenario is focused on the theme of the Olympic Games. To provide a holistic approach, this Learning Scenario is underlying the history, the meaning, and the athletic festivity that Olympic Games manifest through the centuries from ancient Greece to nowadays the whole world.

Also, through this Learning Scenario, basic current elements that connect with history are shown as Olympic torches, metals, sports and elements that are a current celebration of the Olympic Games like postcards and stamps, mascots, the manifestation of Olympic in art etc. The L.S. is considered for young primary school students aged between 9 yr. and 10 yr. and can be used in the curriculum of Greek schools as part of the history, gymnastics, or art subject. By the completion of it, students would be able to recall basic historical moments of the Olympic Games, would be able to spot and understand some key elements of the current Olympic Games, present sports that are part of them and of course learn about the honour and meaning that Olympic Games still stand for.

Author: Eleni Vasilaki

https://www.searchculture.gr/aggregator/portal/thematicCollections/olympicgames
https://teachwitheuropeana.eun.org/learning-scenarios/what-about-olympic-games-en-cur-668/

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04- Tools for teachers

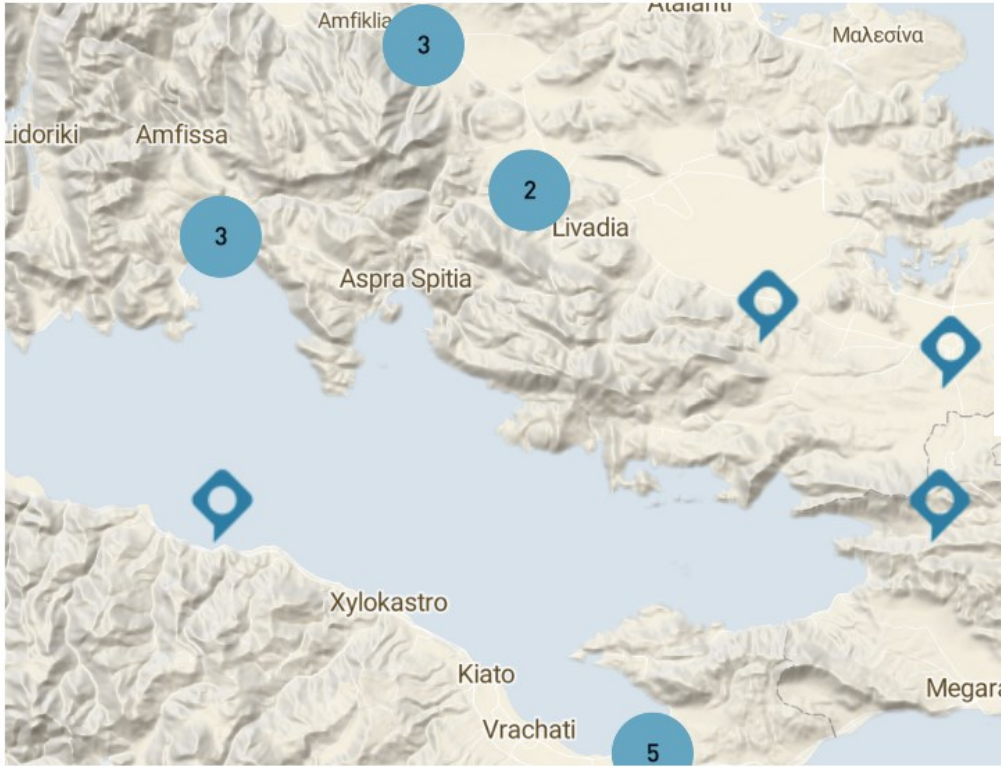
TRANSCRIBATHON CONTACT US PROJECTS REGISTER LOGIN

europeana transcribe

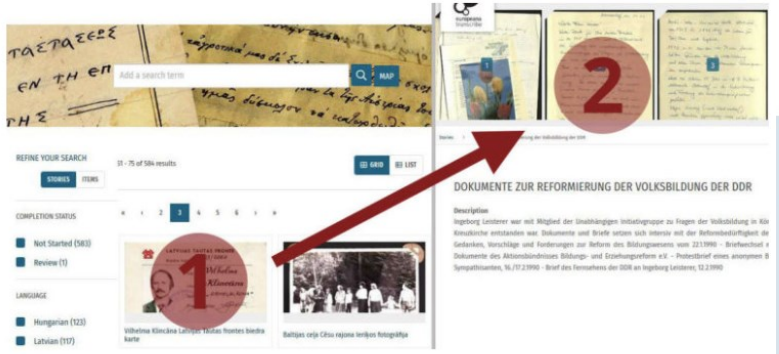
PARTICIPATE RUNS DISCOVER NEWS STORIES OF THE MONTH

TUTORIAL: HOW TO TRANSCRIBE

ocuments on the map!



Enrich - Find a document and start transcribing



First, find an item (a single document) you want to enrich by searching and browsing the project collection on the **Discover** page. Here you can filter your search results by language, completion status, etc. Click on a story (1) and select an item from the story page (2), or select an item directly from your discovery results.

Additionaly, you can search for the documents on the **map**.

You can only add new enrichments to items marked with the grey (Not Started) or yellow (Edit) statuses. Tasks for items in the orange and green statuses are explained in the **Review** section of this tutorial.

https://europeana.transcribathon.eu/map/

04- Teacher competition

Europeana Education Competition 2022

In collaboration with the 2022 STEM Discovery Campaign, the Europeana Education Competition 2022 is inviting primary and secondary school teachers of all subjects, museum educators and any other CHI professional – e.g. librarians, archivists, curators, etc. – to find innovative ways of using Europeana arts and science digital heritage in their educational activities and share their story of implementation about it!

Luckily, the Europeana Collections are an online database that can be easily employed for online activities. Why not check out Historiana or Transcribathon? You can liven any educational activity with these online tools. On the Teaching with Europeana blog you can already find some learning scenarios and stories of implementation that have been partially or fully virtually organized.

https://teachwitheuropeana.eun.org/europeana-competition-2022/

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04- Tools for teachers

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04- Teaching 21st c. skills with Greek Digital Collections

Thematic exhibition

Karagiozis, shadow puppet theatre

Shadow puppet theatre, an all time favorite folk tradition

Φιγούρα Θεάτρου Σκιών (Καραγκιόζη) από τη συλλογή του ΛΕΜΜ-Θ., Μελίδου Κεφαλά Γλυκερία, CC BY-NC-ND 3.0 GR
Folklife and Ethnological Museum of Macedonia-Thrace

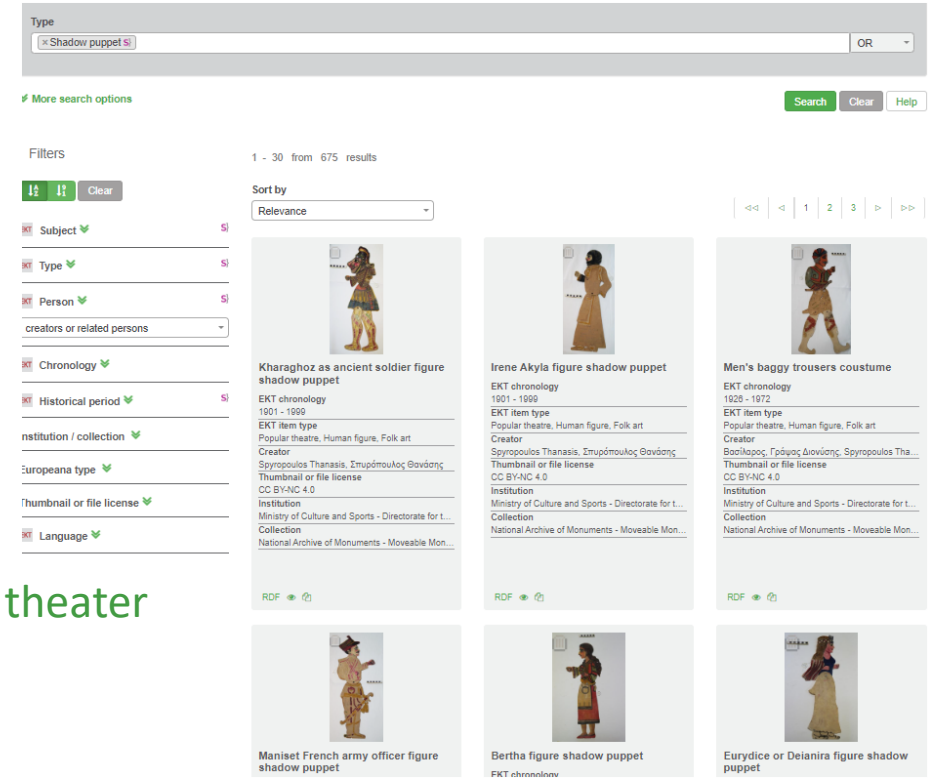
Shadow theater flourished in many lands, including China, India, Persia, Indochina and Asia Minor. It seems to have come to mainland Greece, probably from Asia Minor during Ottoman rule. The moral tales enacted by the puppeteers feature satirical observations about the social and political issues of the time - a form of social commentary understood by people of all classes.

The central character is Karagiozis, whose name now represents the genre. Karagiozis is poor and uneducated, relying on his cunning and wit to survive, a Greek folk hero for children and adults.

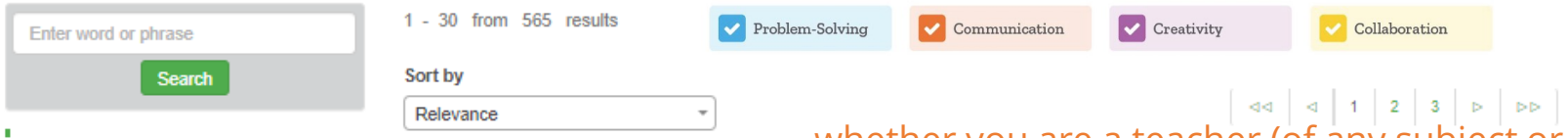
The puppet show is usually accompanied by a singer with a small group of musicians as well as enough shouting and noise and witty dialogue keep the audience laughing. While there are scenarios and the plots are familiar, the puppeteer improvises and adapts storylines according to the audience, enhancing them with impromptu wise cracks and bawdy remarks.

The puppets are traditionally made from translucent camel or donkey skin. Worked until it is semi-transparent, the hide was cut into the desired shape and painted with vegetable pigments.The puppeteer moves the puppets using detachable rods. Between the figures and the player (who was invisible), were candles or lamps that shed light to the figures and made their silhouettes visible to the audience through the cloth.

The hilarious movement of the characters, the innocent beatings, the strange and ragged clothing, the cunning word games and numerous linguistic mistakes were what gave Karagiozis a special place in the hearts of Greek audiences for decades.



Teaching 21st skills with Greek shadow puppet theater



...whether you are a teacher (of any subject or level), a non-formal educator, or someone with an interest in designing educational activities using SearchCulture and Europeana, your participation is welcome.

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To conclude…

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Thanks for your attention!

maria.papadopoulou@ppp.uoa.gr

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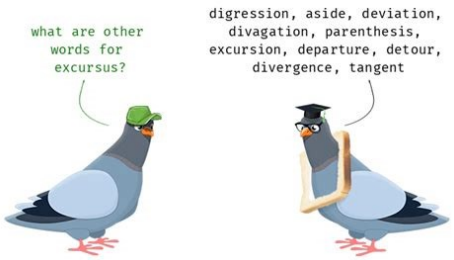
Excursus: The Greek Education System



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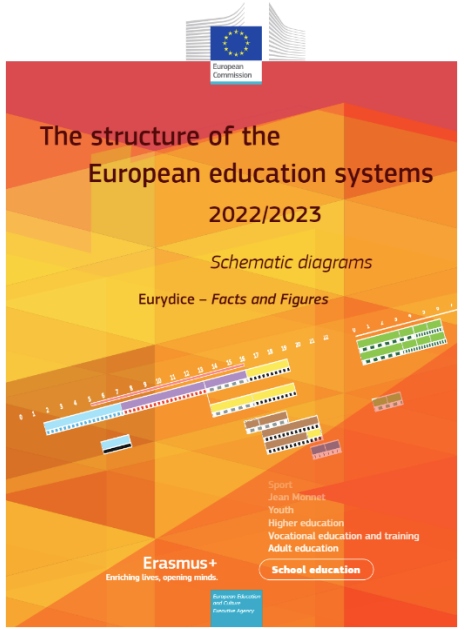
02- The Greek Education System

Key features:

- The Greek educational system is **centralised**.
  National laws, presidential decrees and ministerial acts are prevalent within it.
- The central administrative body for the education system across all fields, agencies and levels is the **Ministry of Education and Religious Affairs**.
- **At regional level**, the regional education directorates oversee the implementation of the national educational policy.
- **At local level**, the directorates of primary and secondary education supervise all schools in their area. In their turn, school units make sure they run smoothly.
- The **main route into teaching in primary schools** is to take a 4-year degree in a pedagogical department.



Publications Office of the European Union

Source: https://eurydice.eacea.ec.europa.eu/#MOE

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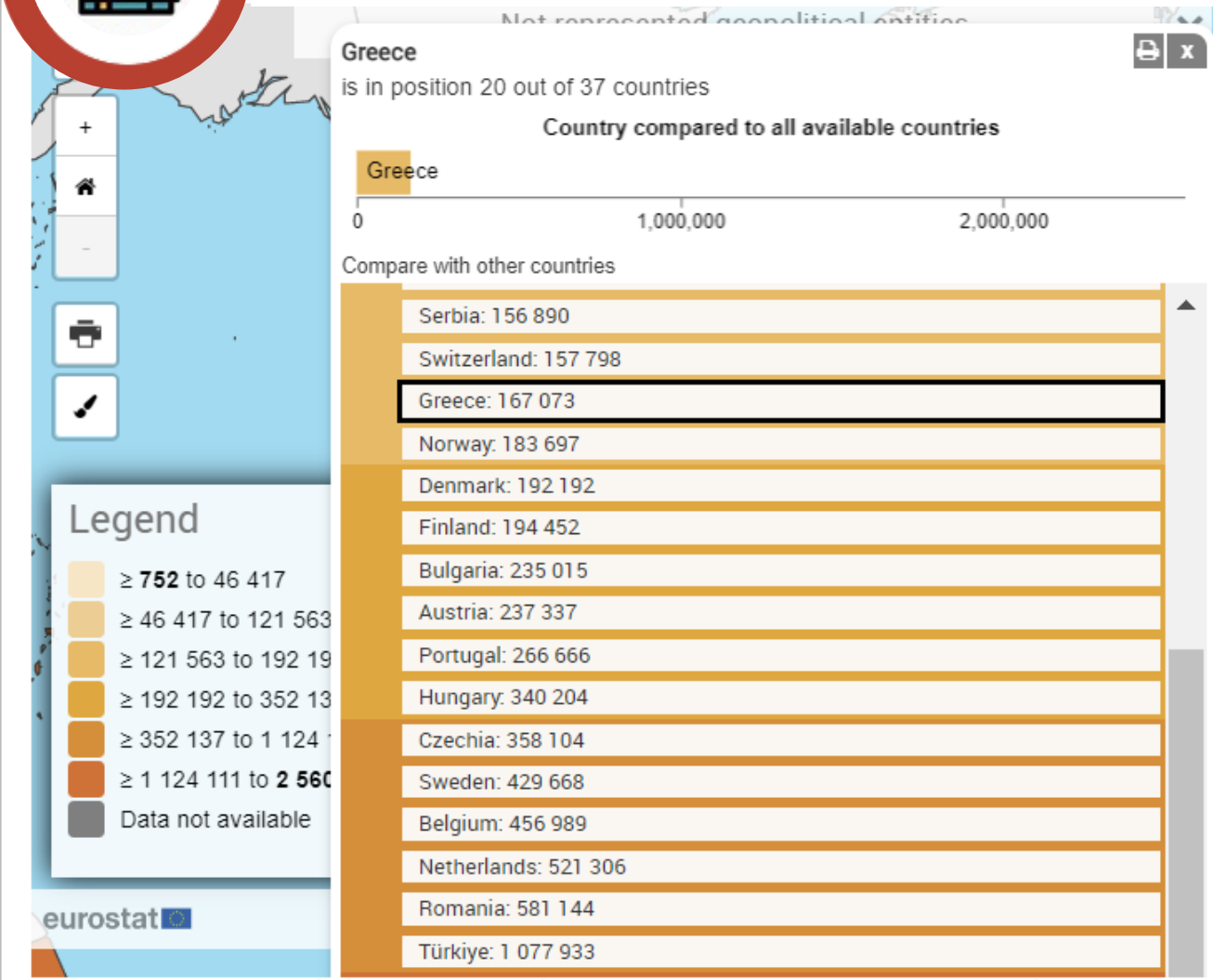
02- How many children in Greek primary education?



Source: https://ec.europa.eu/eurostat/databrowser/view/educ_uoe_enrp01/default/map?lang=en

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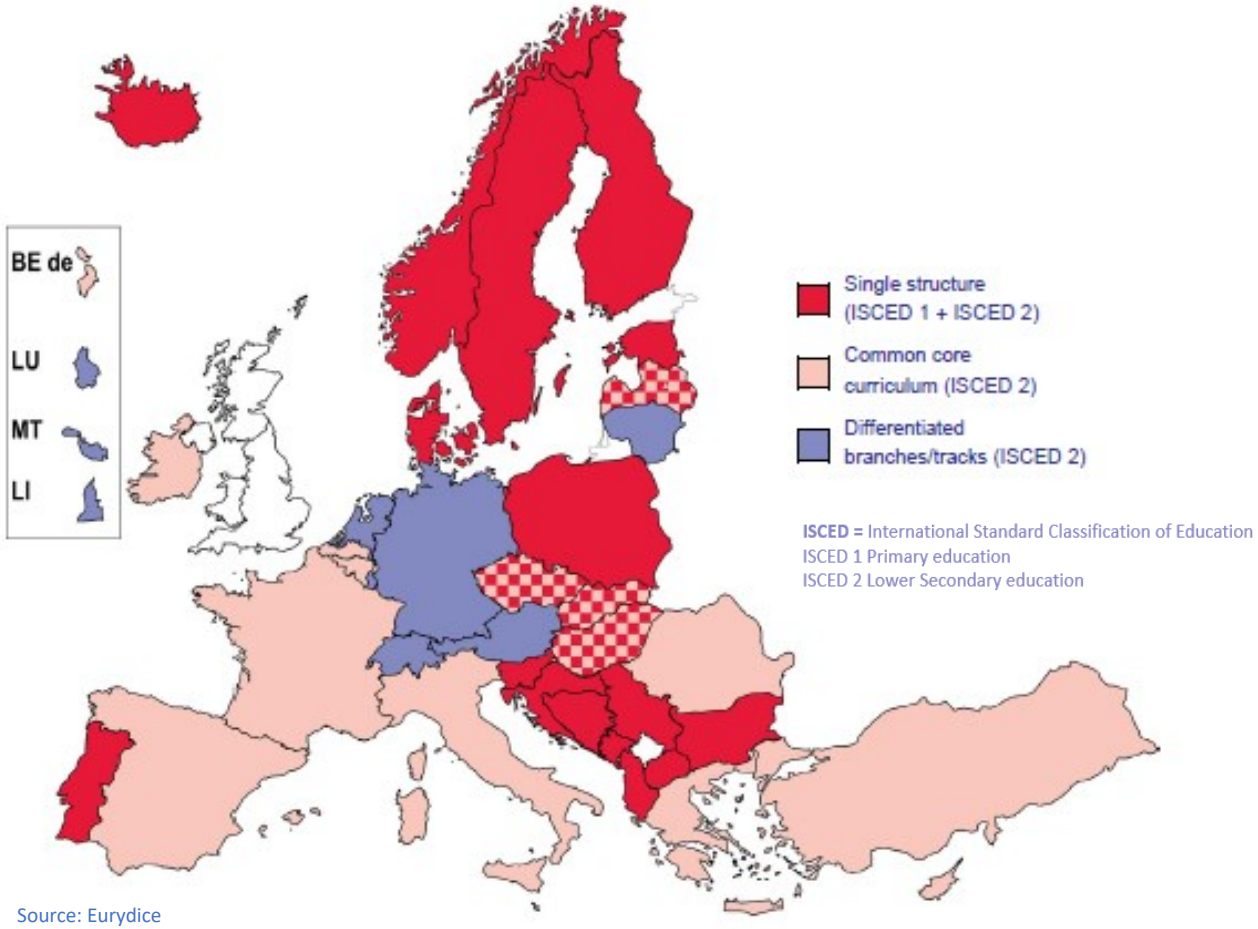
02- The Greek Education System



Source: Eurydice

Main models of primary and lower secondary education in Europe, 2022/2023

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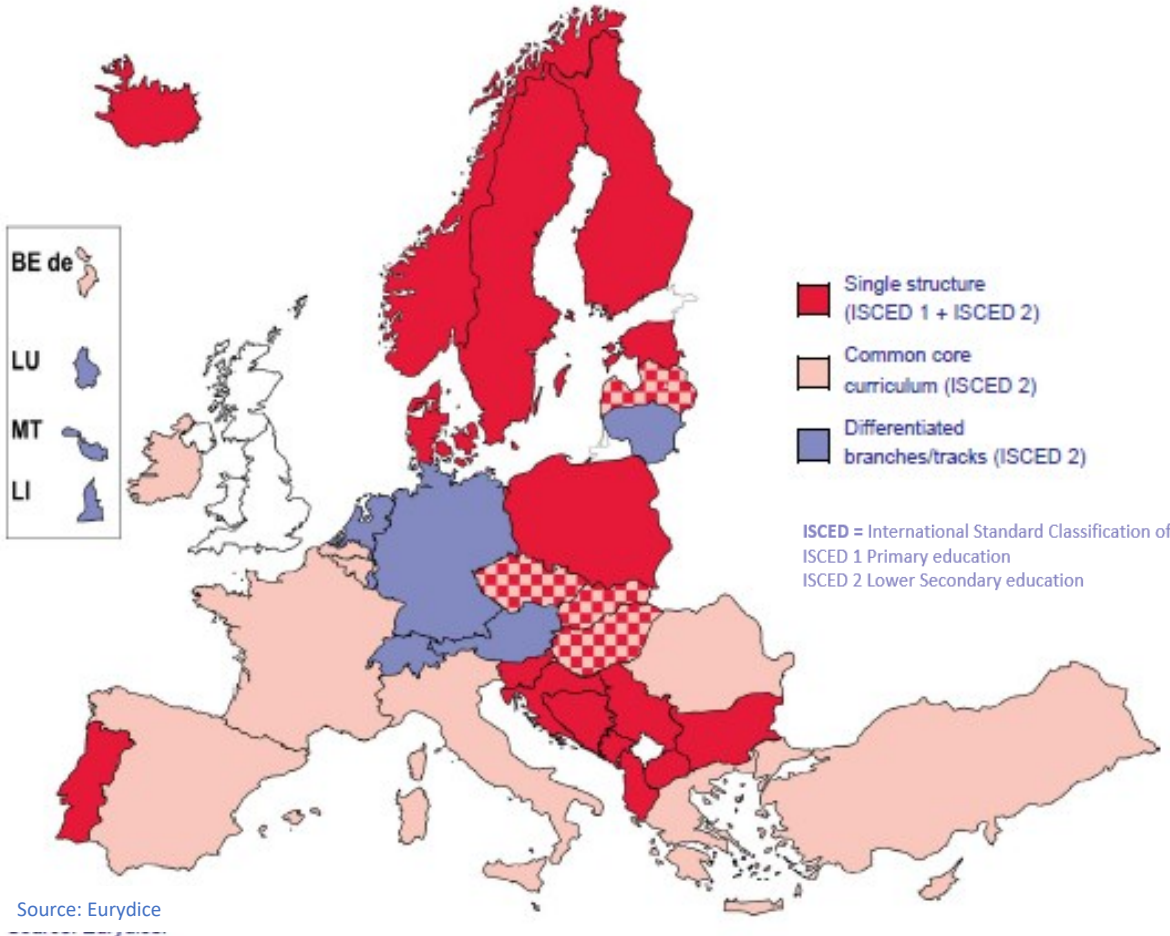
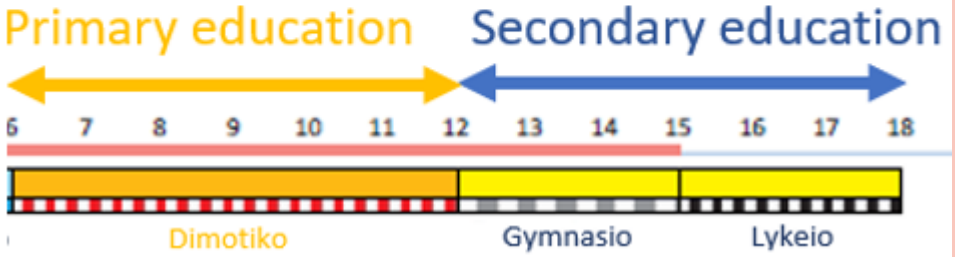
02- The Greek Education System



Source: Eurydice

Main models of primary and lower secondary education in Europe, 2022/2023

Greece: After successfully completing primary education, all students progress to lower secondary level where they follow the same general common core curriculum.



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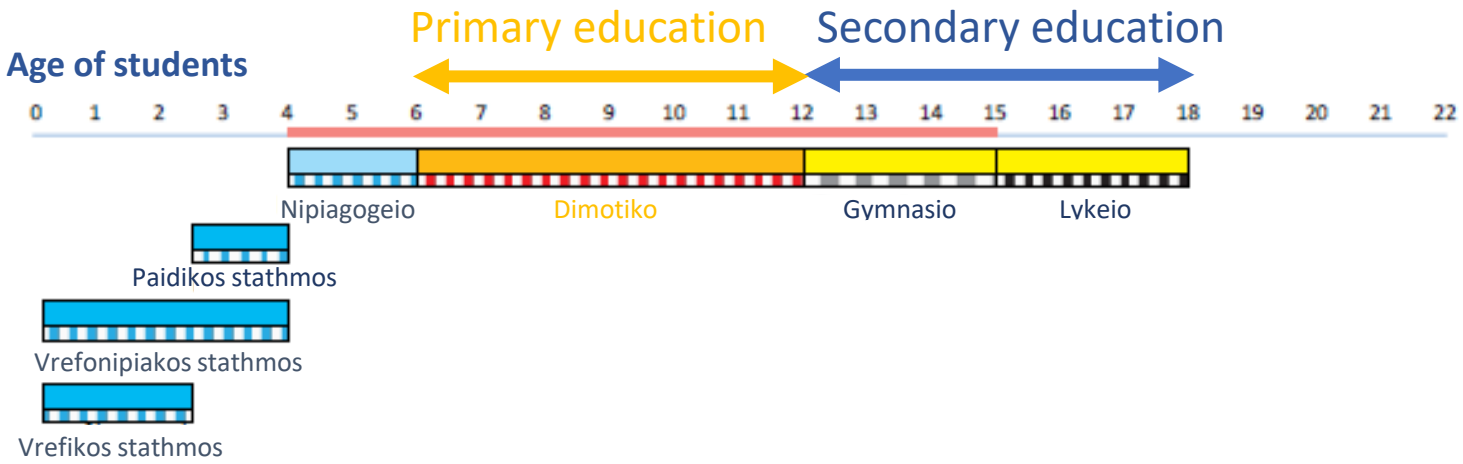
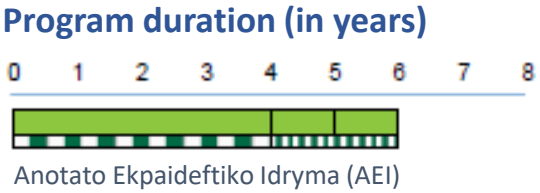
02- The Greek Education System





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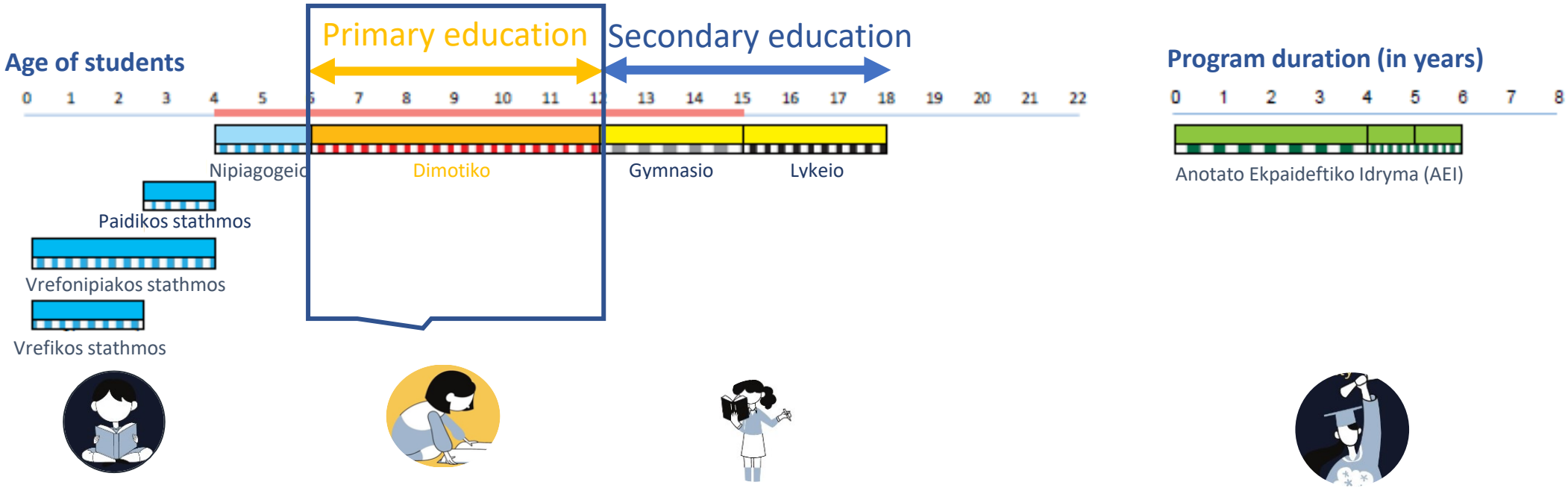

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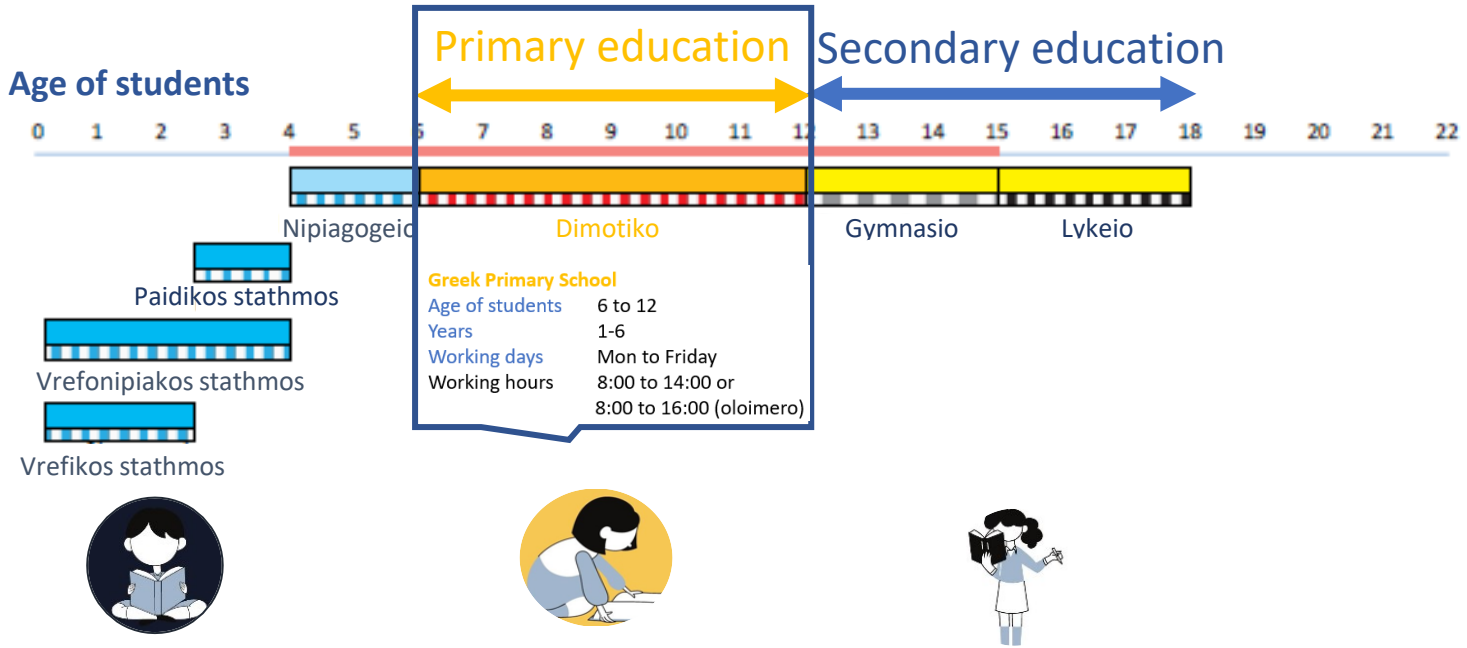
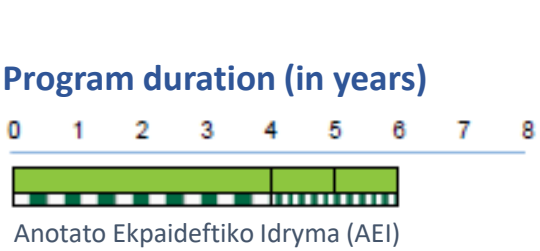
02- The Greek Education System - Structure





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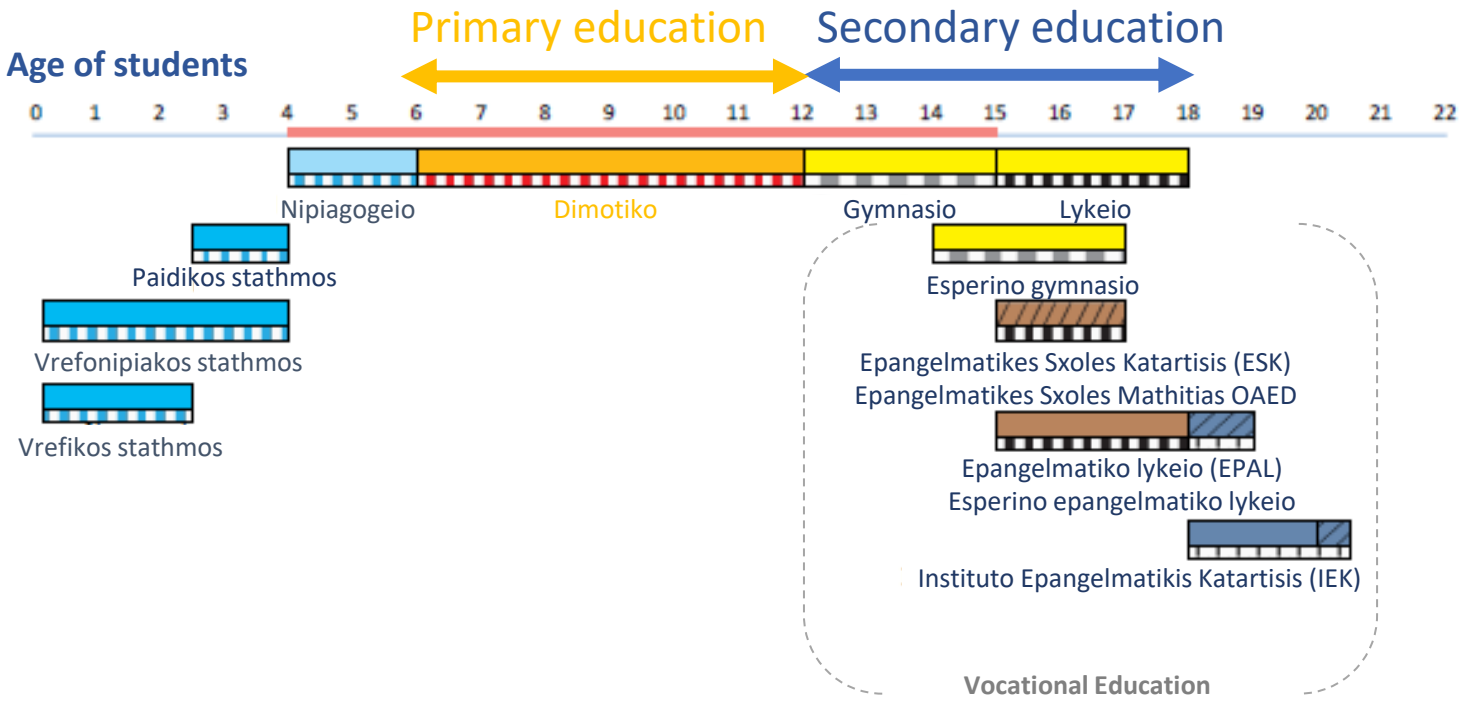
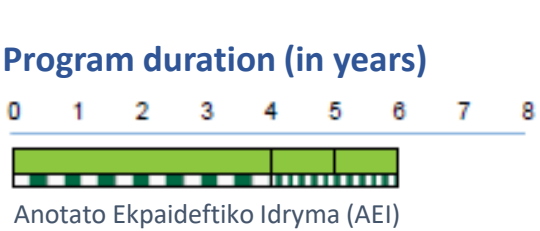
02- The Greek Education System - Structure





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