National Documentation Centre

SearchCulture.gr

Open access in Cultural Heritage digital content

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The beginning ..

• 42 institutions documented & digitalized items of Cultural Heritage & created on-line digital repositories
  • Co-funding projects by Greece and EU structural funds
• The role of EKT with respect to this content was to
  • collect it
  • validate and certify it
  • enriched it semantically
  • publish it in searchculture.gr
  • preserve it
The ecosystem architecture

harvester, aggregator (searchculture.gr), validator (back-end & front-end), system for enrichment (semantics.gr)
Open access in Cultural Heritage digital content

Search Culture.gr

Explore 157959 items of a rich variety of types* from 42 institutions...

*The classification of the content against a vocabulary of types was held by EKT
Open access in Cultural Heritage digital content

150,000+ items | 53 collections | 42 institutions
Features

- **Aggregates digital content** from registered digital repositories

  **Public portal**
  - Modern & effective search engine
    - facet queries
    - thumbnails
  - Dissemination as Open Linked Data (Open Linked Data)
  - Multilingual (English / Greek)
  - Responsive design
  - Rights statements per item, mostly CC, defining copyright, accessibility and reusability status

  **Presents the participating institutions & their collections**

  Supports hierarchical navigation
Challenges for aggregators
SearchCulture.gr deals with this problem using **two strategies**:

EKT has set specific requirements against which it validates and certifies the aggregated content using **Validator**.

EKT using **Semantics.gr** enriches and homogenizes the aggregated content with respect to **dc:type** against a hierarchical bilingual vocabulary of types.

Metadata records are enriched with a separated field ‘**EKT Type**’ that holds references to terms of the vocabulary.
1. Key-based search
2. Narrower search in specific fields
3. Multiple key-based criteria
4. Choose collection
5. Choose EKT type
6. Choose license for digital content
Search Results - facet filtering

Filters

- EKT type
  - 2D Graphics (382)
  - Mosaic (51)
  - Mural painting (321)
  - Religious visual works (331)
  - Icon (10)
  - 3D Artefacts and Realia (2231)
  - Archaeological object (1454)
  - Archaeological site (62)
  - Architectural element (478)
  - Arm (28)
  - Artifact (1)
  - Bone (14)
  - Building (23)
  - Ceramic ware (536)

- Europeana type
  - Image (2577)

- Rights
  - CC BY-NC-ND 4.0 (2577)
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<thead>
<tr>
<th><strong>EKT type</strong></th>
<th>Ζωγραφική (EL) Painting (EN)</th>
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<tbody>
<tr>
<td><strong>Title</strong></td>
<td>Κεφάλι νίου</td>
</tr>
<tr>
<td><strong>Creator</strong></td>
<td>Τσαρούχης Πάνης</td>
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</table>
| **Description** | Inventory number Π.6179Π.6179  
Πειρακτική Πινακοθήκη - Μουσείο Αλεξάνδρου Σουτζήρου  
Λάθι σε ξύλο |
| **Type**    | Ζωγραφική                     |
| **Subject** | Προσωπογραφία Μορφή           |
| **Provider** | Εθνική Πινακοθήκη και Μουσείο Αλεξάνδρου Σουτζήρου (EL)  
National Gallery – Alexandros Soutzos Museum (EN) |
| **Source**  | Εθνική Πινακοθήκη - Μουσείο Αλεξάνδρου Σουτζήρου |
| **Publisher** | Εθνική Πινακοθήκη - Μουσείο Αλεξάνδρου Σουτζήρου |
| **Created** | 2006-12-19T00:00:00.000+02:00 |
| **Date**    | 1941                         |
| **Europeana type** | Image |
| **Format**  | 35.5 x 24.5 cm.             |
| **Language** | No linguistic information   |
Institutions

42 institutions contributed with 56 collections / repositories in total

Search institution

Ephorate of Antiquities of Chania – Archaeological Museum of Chania

http://www.chani museum.culture.gr/

The Archaeological Museum of Chania is subject to the Ephorate of Antiquities of Chania. It was founded in the early 20th century. Its purpose is the preservation, protection and promotion of cultural heritage of the area and includes exhibits from the Neolithic era (4th millennium BC) up to the Roman period (3rd century AD).

Repository

Reposit ory of Archaeological Museum of Chania – Digitized items database

http://chani museum.culture.gr

The Portal of the Archaeological Museum of Chania provides access to digital collections and particularly to 614 items of the permanent exhibition distributed in 18 individual categories according to their type (Vessels - utensils, sculptures - reliefs, mosaics, inscriptions, coins, jewelry - gems, Others, figurines, miniature, clay tablets - seals, weapons - tools). In addition, eight of the above categories are presenting their objects in 3D application. Each object has been scientifically documented and the information concerning it are contained (data source, description, date, bibliographic reference). There are also photos or 3D presentations that allow an interactive rotation of the object. Finally, in the portal are educational programs, an entertainment platform, cultural routes and information about the opening hours and the activities of the Museum.

Archaeological object (609), 3D Artefacts and Rea lla (609), Vessel (262), Vase (281), Ceramic ware (280), Coin (99), Sculpture (85), Figurine (41), Jewellery (32), Relief (26), Sealstone (20), Imprint (17), Arm (12), Fragment (11), Disk (10), Tablet (10), Tools and equipment (9), Inscription (5), Mosaic (3), 2D Graphics (3)

Baron Michael Tossizza Foundation

http://metsovomuseum.gr/

THE BARON MICHAEL TOSSIZZA FOUNDATION was founded in 1947 with the aim of maintaining Metsovo’s cultural heritage and sustaining its economic growth. Today, the Foundation works to achieve the same goals as in the past, adjusted to Metsovo’s modern needs and conditions. The foundation remains focused on the Tossizza Cheese Factory, the Ski Resort, the Metsovo Folk Art Museum, Aghios Nikolaos Monastery and the Student House in Athens for students from Evros, as well as on more recent initiatives, such as the Children’s Library, the
EKT enriches and homogenizes the aggregated content against a hierarchical bilingual Vocabulary of Types that has created. Metadata records are enriched with a separated field ‘EKT Type’ that holds references to terms of the vocabulary. Therefore, the content of SearchCulture.gr is classified to a compact and balanced set of types which gives it semantic cohesion and improves its searchability, presentation and multilingualism.

2D Graphics (77914)
- Banknote (7)
- Chart (1)
- Clipping (1)
- Collage (1)
- Drawing/Sketch (9009)
  - Architectural drawing (1126)
  - Technical drawing (675)
- Greetings card (40)
- Identifying marking (732)
- Images and ornament for layout features (2896)
- Master (3344)
- Mosaic (806)
- Mural painting (720)
- Painting (10862)

3D Artefacts and Realia (44370)
- Album (19)
- Archaeological object (23861)
- Archaeological site (1463)
- Architectural element (2272)
- Arm (475)
- Artifact (1)
- Bone (238)
- Building (34)
- Ceramic ware (3768)
- Coin (2128)
- Costume (mode of fashion) (6596)
- Disk (51)
- Doll (364)
- Fragment (2044)

Text (34693)
- Announcement (481)
- Article (2580)
- Biography (3)
- Book (2516)
- Book page (1284)
- Catalogue (110)

Sound Recordings (882)
- Sounds (16)

Projected and Video Material (804)
The problems before enrichment

- Some types are in Greek others in English
- Some types are in capitals
- Some types are synonyms with each other
- Some providers give very general types some very detailed

- Low searchability
- Narrow options for navigation and discoverability
- Poor presentation
Information system for vocabularies & semantic enrichment

- **A platform for establishing vocabularies and thesauri**
  - public portal
  - dissemination as **Open Linked Data**

- **Tool for semantic enrichment**
  - supports **automatic** classification of metadata items against **vocabulary terms**
  - uses information retrieval and **self-improving techniques**
  - can be used by repositories and aggregators for **controlled homogenization & enrichment** of their content
A hierarchical bilingual Vocabulary of Types created by EKT in semantics.gr

<table>
<thead>
<tr>
<th>Category</th>
<th>RDF</th>
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<tbody>
<tr>
<td>Concepts</td>
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<th>Item types by EKT</th>
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<tr>
<td>Ευχετήρια κάρτα</td>
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</tr>
</tbody>
</table>

| Login | EN | EAI |
- **SearchCulture.gr** collections are registered in **Semantics.gr**

- Per collection, for metadata field **dc:type**, the tool allows the user to map **all the distinct values** to terms of the **EKT Types Vocabulary**
  - automatic OAI-PMH **harvesting** of distinct values
  - **automatic mapping** attempt based on string matching
  - a **secondary field** may be used for more precise mapping

- The tool improves the automatic suggestion effectiveness based on previous experience
Real example (1)

Homogenization based on **dc:type** and **dc:subject** (secondary field for filtering)
Real example (2)

Homogenization based on **dc:type** and **dc:title** (secondary field for filtering)
Improved searchability & search multilingualism

Imagen de gráfico con datos en griego:

Αριθμός αποτελεσμάτων τύπων στα Ελληνικά πριν και μετά τον εμπλουτισμό

Imagen de gráfico con datos en griego.

Agría, Γλυπτό, Ενδυμασία, Νόμισμα, Κόσμημα, Εγγράφο, Ζωγραφική, Εργόχειρο

Aριθμός αποτελεσμάτων Χωρίς εμπλουτισμό Αριθμός αποτελεσμάτων Με εμπλουτισμό
New ways for navigation → improved discoverability of content
Thank you!

Learn more