

#### National Documentation Centre

The Digital Repository Service of the National Documentation Centre in Greece: a model for Digital Humanities data management and representation

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#### The National Documentation Centre / EKT



- Is located at the National Hellenic Research Foundation
- Is operating under the supervision of the General Secretariat of Research & Technology of the Ministry of Education, Research & Religion
- Was founded in the 80s



# EKT is a key player in knowledge dissemination in Greece



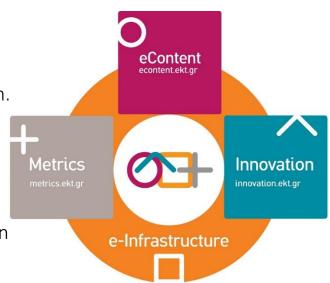
We collect, document and disseminate quality scientific and cultural digital content.

We measure and record the Greek Research, Technology, Development, Innovation ecosystem.

We help enterprises network, become outwardoriented and collaborate with the research community.

We actively participate in the formation of Nation strategy for Open Science and Open Access.

We aim for wide knowledge dissemination and support Greece's development and harnessing of its human resources.



### eContent.ekt.gr digital content & services



We create a single point of access for scientific and cultural content and provide access to reputable information sources, contributing to research, education and life-long learning.

We document scientific and cultural content and disseminate the knowledge the country generates.

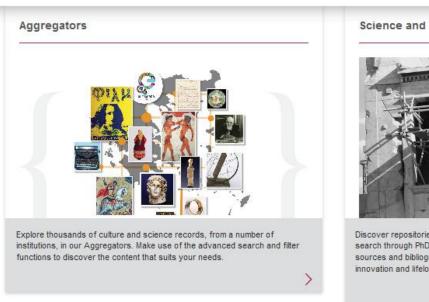
We develop and provide access to the Greek National Archive of PhD Theses, the National Union Catalogue of Scientific Journals and Indexes of Greek scientific journals.

We provide content organisations with public services, highlighting the wealth of Greek knowledge in the public digital space.

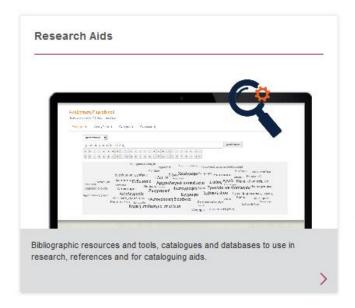
We participate in national networks and European initiatives focusing on the development of a single open research environment, and we are the national aggregator for Europeana.

## Aggregators, Repositories, Library Catalogues, eJournals, eBooks, eProceedings, Indexes, Thesauri, Education Platforms, etc





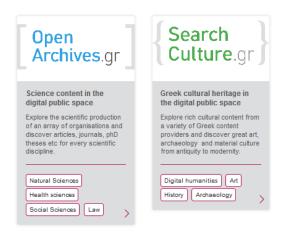


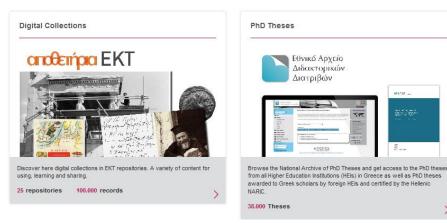




Digital Services for aggregating, publishing and enriching thousands of digital assets from hundreds of knowledge and cultural organizations







723.000 records | 432.812 records 30 repositories | 130.00 records 40.000 PhD theses







Mistral ....

32 journals | 8 monographs | 24 conference proceedings

#### Volume of visits to our sites



## 2017

## 2016

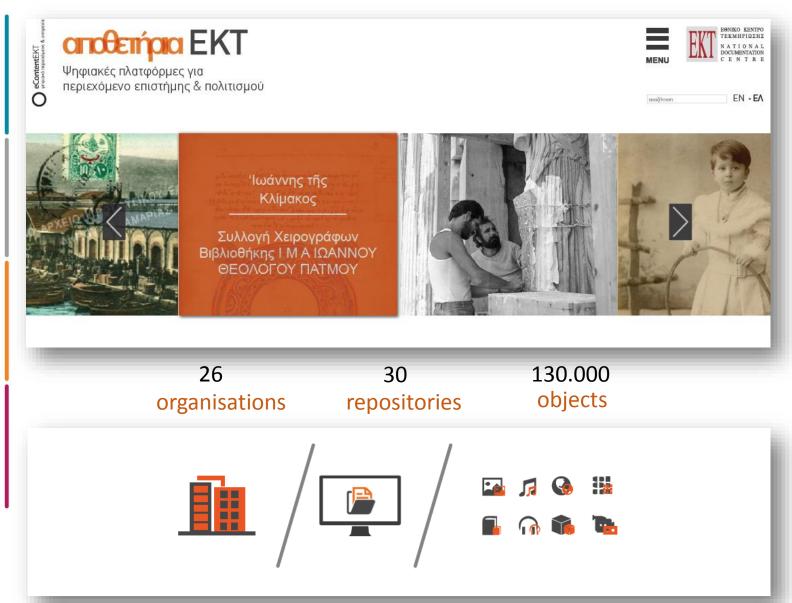
- 1.391.902 epublishing.ekt.gr
- 1.096.442 www.didaktorika.gr
- 874.108 www.ekt.gr
- 706.991 openarchives.ekt.gr
- 199.194 www.openaccess.gr
- 178.127 www.epset.gr
- 175.118 www.enterprise-hellas.gr
- 157.220 repository.edulll.gr
- 137.756 www.searchculture.gr

- 827.392 www.didaktorika.gr
- 764.688 epublishing.ekt.gr
- 665.616
   openarchives.ekt.gr
- 551.556 www.ekt.gr
- 215.553 www.epset.gr
- 106.997 helios-eie.ekt.gr
- 91.756 argo.ekt.gr
- 86.708 www.openaccess.gr
- 84.389 pandektis.ekt.gr

### EKT's Digital Repository Service (DRS)







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#### **FUNDING**

through the Operational Programme "Digital Convergence" (2011-2015)

#### TARGET AUDIENCE

Digital Humanities (DH) organizations, Science organizations, Educational organizations

#### **DELIVERY MODEL**

SaaS (Software as a Service)

#### **TECHNOLOGIES-SOFTWARE**

Cloud computing, Open source software (DSpace)

#### **OBJECTIVES**

- ✓ to meet EU priorities for open access and economies of scale through
  the dissemination and re-use of large amounts of data
- ✓ to focus on the organisations needs regarding administration and dissemination of content with proper licensing
- ✓ to increase the volume of documented, interoperable, open content
  fed through to EKT's aggregators for culture and science





The methodology used to develop the DRS model built upon several factors:

- the National Documentation Centre long-term experience in developing data administration systems as well as collecting and maintaining high quality data for various purposes and users
- major past and current international practices and initiatives for managing and curating cultural and/or scientific data (Europeana, DPLA, DM2E project)
- an extensive literature review on cultural ontologies and vocabularies used in similar initiatives (CARARE, CIDOC-CRM, EDM, DC, MARC, EAD, MODS, FRBR)
- addressing community needs, the restrictions and the variety of the material (questionnaire to cultural organisations)





#### Questionnaire

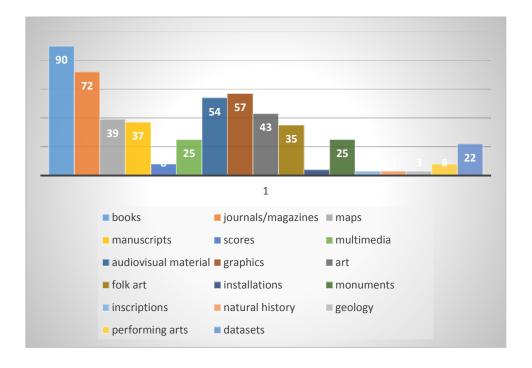
114 organisations (museums, archives, cultural organizations, libraries)

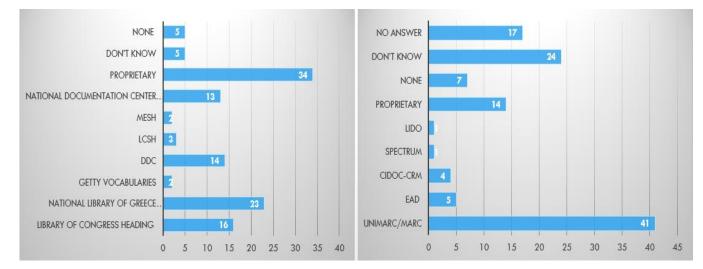
#### Aims of the questionnaire

- Identify variety of material collected
- Appraise quantity and quality of material documented
- Evaluate community need for such a service
- Assess willingness to share their collections
- Estimate possible restrictions posed by organizational mentalities towards openness













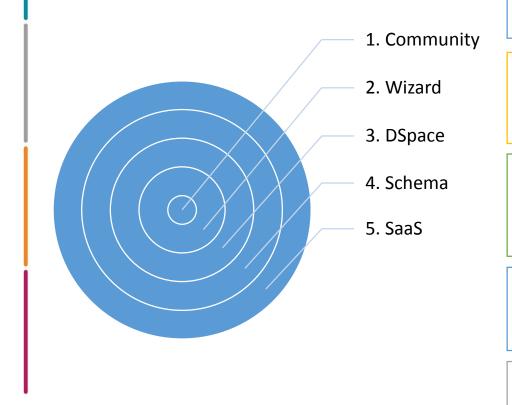
Key issues taken into consideration:

- material heterogeneity, specifications and restrictions
- metadata semantic and structural viability and cohesion
- interoperability of data and systems
- data licensing
- data long-term preservation
- user/community studies and respective provisions

#### Implementation parameters







- 1. COMMUNITY support engagement e-learning customization
- 2. CUSTOMIZATION rep specifications user centric automatic implementation
- 3. SOFTWARE open source scalable hierarchies support community-developed
- 4. SCHEMA modular and dynamic DC centric interoperable
- 5. DELIVERY MODEL high availability sustainability and scalability robustness economies of scale

### Developing the DRS schema





#### Approach

- a global application profile should have:
- ✓ sufficient rigidity for interoperability among data
- ✓ adequate scalability and modularity to include various types of material

#### Model

- ✓ based on Qualified Dublin Core (DC)
  - Popularity
  - flexibility, interoperability,
  - OAI-PMH compatible
  - enables dissemination feeds into Europeana and other aggregators
- ✓ enrichment with elements from different schemata:
  - VRACore, CDWA Lite for the description of images, visual culture and artworks
  - LOM for the description and evaluation of learning resources

#### **Features**

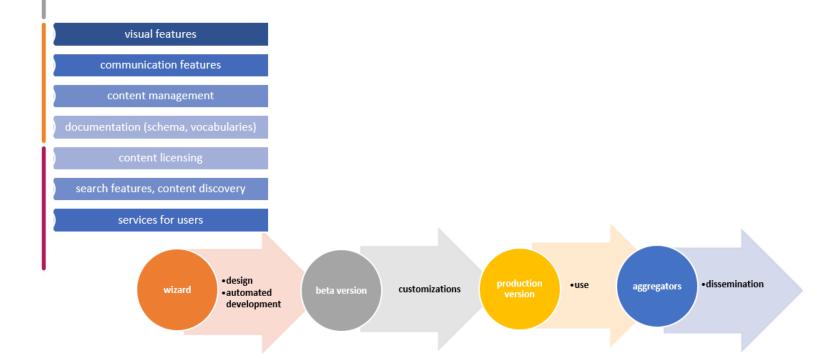
- ✓ a dynamic and modular corpus of elements that can adjust to different types of data needs
- ✓ boosts up information retrieval by providing fixed elements with the same semantics
- ✓ IPR issues were also dealt with

#### Wizard Repository Designing Tool (WRDT)





- o a functional dynamic procedure through which users can define all the specifications (branding, information, collections structure, metadata fields, vocabularies etc.) of their future Repository Application
- o as soon as someone fills in their specifications, the WRDT produces the Repository Application automatically
- o the tool provides also all the necessary instructions for the user to configure their future digital repository according to their needs.



### Wizard Interface (Greek)



ΠΕΡΙΕΧΟΜΕΝΟ

Οργάνωση Περιεχομένου

Τύποι περιεχομένου

Φόρμες τεκμηρίωσης

Καρτέλα τεκμηρίου

Αναζήτηση και Δίοδοι

🎋 Πρόσθετες λειτουργίες

NOMIKA ØEMATA

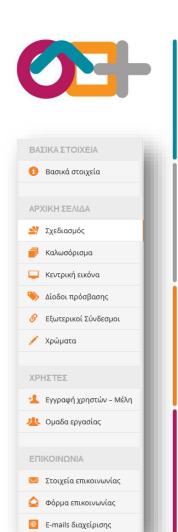
💼 Νομικά θέματα

Η Υποβολή

Αποτελέσματα αναζήτησης

Πλοήγηση

Γλώσσες μεταδεδομένων

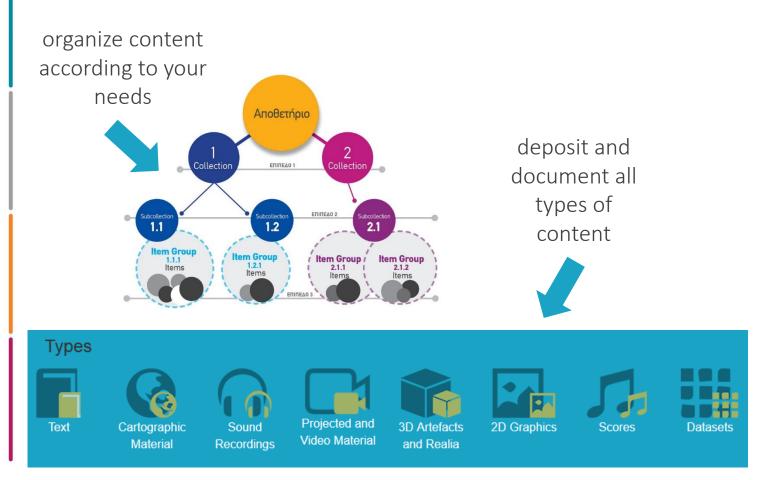




### Communicating the service





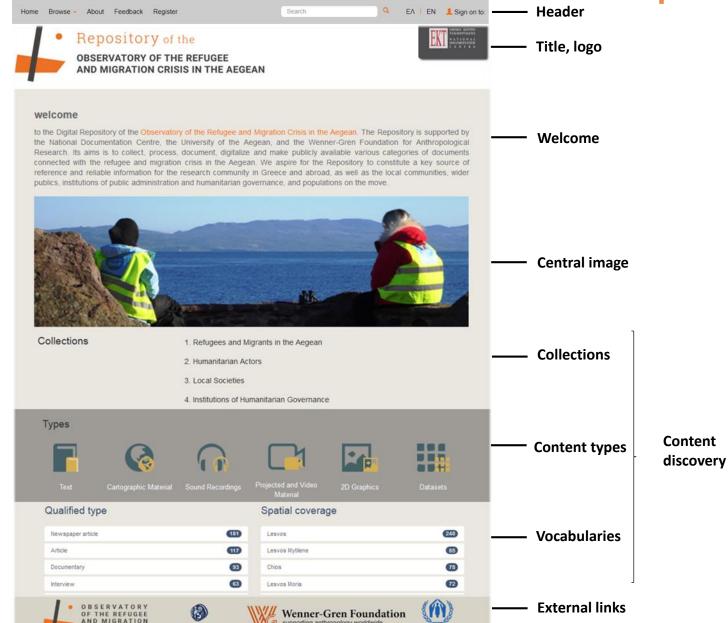


## The outcome of Wizard design in an DRS application

UNIVERSITY OF THE AEGEAN







#### **Production Workflow**





1 2 3
repository content is content is customization deposited in published in 8 production repository repository



support & e-learning

eHelpDesk eKnowledgeBase elearning

#### Service Workflow





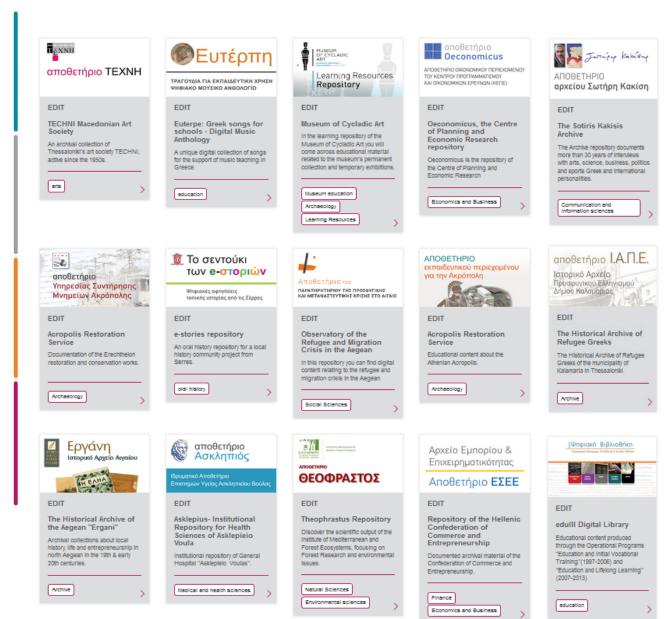
1. CUSTOMIZATION SacSwizard 2. PRODUCTION IMPLEMENTATION **EKTCloud** Content Migration repositories 3. TRAINING & SUPPORT eKnowledgeBase eHelpDesk elearning Disaster Recovery

#### Implementation, rolling out & results

Rolling out: 28 repositories +2 under development













The repository carries the brand of the content provider: a cultural repository for a small arts organization with varied material

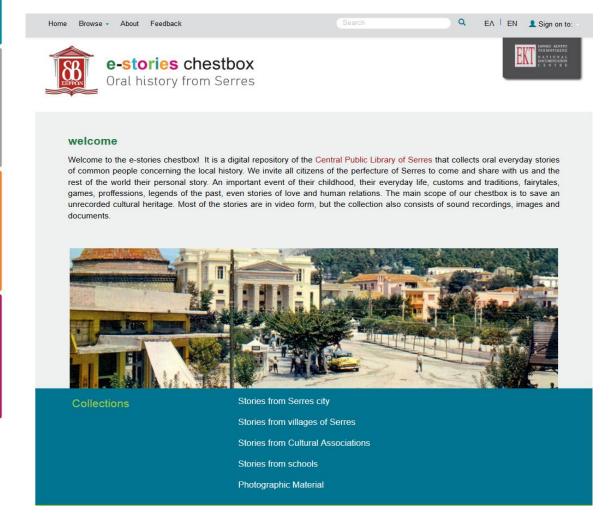
Home Browse - About	Feedback Register	Search	٩	EA I EN . ♣ Sign on to: -
TÉXNH	repository TECHN' Macedonian Art Society	11		Services SasS repositories
welcome				
Explore 6 decades of arts and culture in Thessaloniki, through the Macedonian Culture Society "TECHNI" archive.				
The repository show cases the Societys innovative and dynamic contribution to the arts and cultural communities of Music, Theatre, Visual				
Arts, Literature, Dance and Architecture.				
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Collection	TECHNI Arc	hive		
Creator				
Καρπέτη, Σοφία		3		
Τέχνη-Μακεδονική Κα	αλλιτεχ νική Ετα	2		
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Βασιλείου, Σπύρος				
Βεν ετούλιας, Λουκάς		0		
Γ. Π. Σαββίδης		0		
Ζερβόπουλος, Σωτήρι	ης	0		
Καλογερόπουλος, Άγγ	/ελος	0		
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### Oral history repository





A repository solved the problem of publishing the output of a local history project: an oral history repository

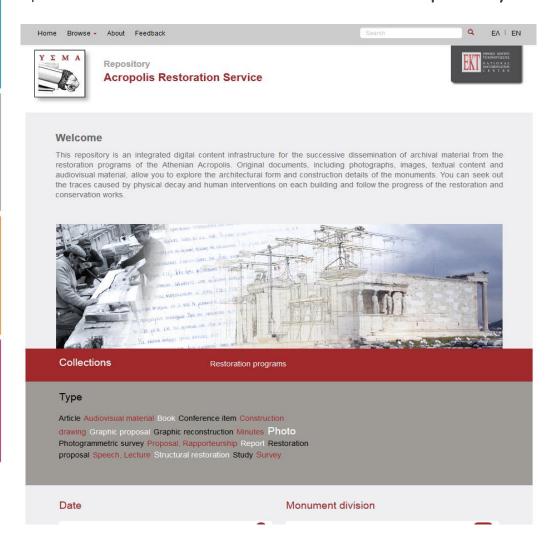


### Archaeological content repository





The digital archive of the Acropolis restoration programs open to the public: a monument restoration archive repository

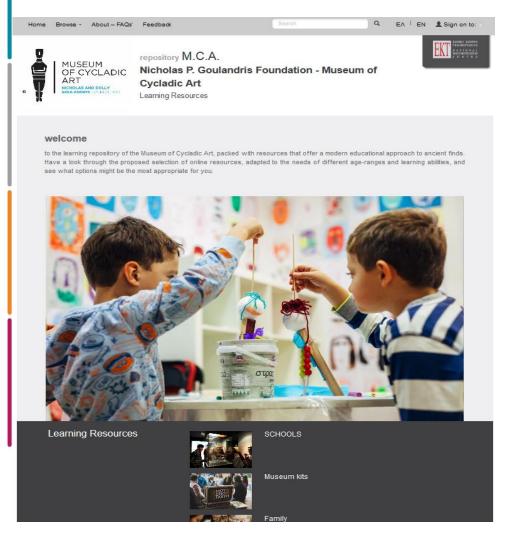


#### Learning resources repository (museum)





It s a great solution for opening up a museum's education resources collection: a museum education repository

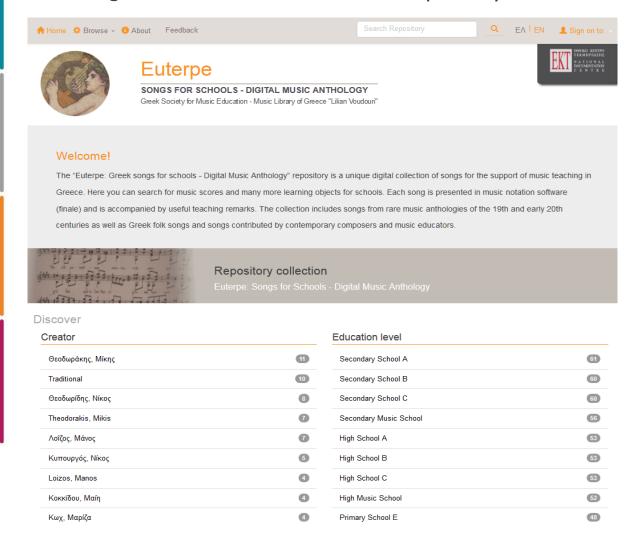


### Learning resources repository (music)





The repository hosts a unique digital collection to support music teaching in Greece: a music education repository

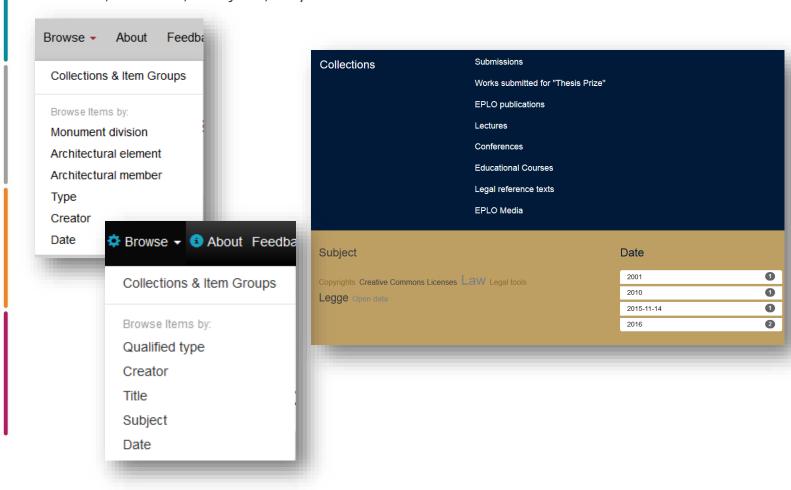


#### Some features





end users can search by various metadata fields, such as date, creator, subject, keywords and collections



#### Some features

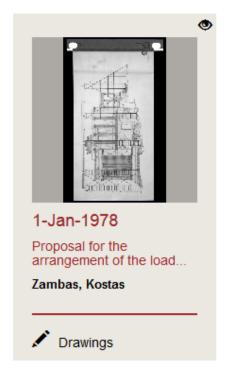




digital assets are presented in an elegant, contemporary way





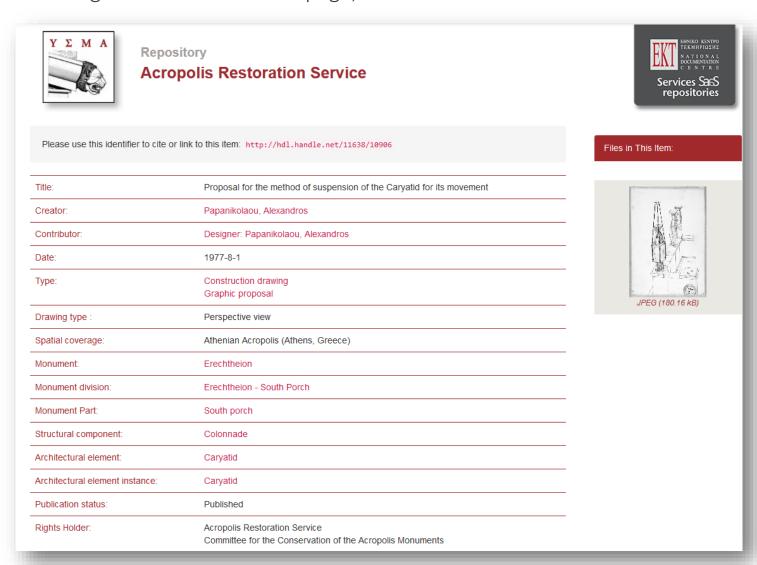


#### Some features





each digital asset has its own page, with thumbnail and its metadata



#### Results so far...





- ✓ 28 repositories were developed
- √ <100.000 digital assets deposited
  </p>
- √ <5 million online visits
  </p>
- ✓ Content feeds EKTs Aggregators, SearchCulture.gr & OpenArchives.gr
- ✓ Content ingested by Europeana
- ✓ Knowledge transfer and sharing technical know-how with a community of users not specialized in knowledge and data management
- ✓ Promoted collaborative actions for re-use of Digital Humanities content and applications for learning purposes
- ✓ Published a wide variety of digital content for education, research and life-long learning
- ✓ Made more data available for research, esp. for the Humanities (whole archives, audio-visual material, oral history, digitized archaeological research, etc)





www.ekt.gr

Εθνικό Κέντρο Τεκμηρίωσης

National Documentation Centre