DARIAH in-kind – collection form

Date: 1 April 2015
Version: v1.0
VCC (mark with X): X VCC 1; e-Infrastructure
X VCC 2; Research and Education Liaison
X VCC 3; Scholarly Content Management
_ VCC 4; Advocacy, Impact and Outreach

1. Title of the contribution

"Synthesis$_{museum}$": An open source system for museum collections management

2. Academic entity offering the contribution (Institution, Laboratory, Consortium, Project, etc.)

- Academic entity acronym: *DYAS*
- Academic entity website: http://www.dyas-net.gr
- Link to the academic entity logo: http://www.dyas-net.gr/wp-content/themes/dyas/img/dyas-logo-full.png
- Description of the academic entity: *DYAS is a consortium of six institutions that operates DARIAH-GR that aims to create the national digital research infrastructure for the Arts and Humanities, that will operate in tandem with DARIAH-EU.*

3. Administrative entity

- Administrative entity acronym: *FORTH*
- Administrative entity address: *Foundation for Research and Technology, 100 Nikolaou Plastira Str, 711 10Vassilika Vouton, Heraklion, Crete, Greece*
- First name, Last Name and email address of the contact person of the administrative entity: *Chryssoula Bekiari, bekiari@ics.forth.gr*
- First name, Last Name and email address of the director of the administrative entity: *Konstantinos Fotakis, fotakis@iesl.forth.gr*
- Main supervisory bodies of the of the administrative entity: *MINISTRY OF CULTURE, EDUCATION AND RELIGIOUS AFFAIRS*

4. Description of the contribution:

Based on the file: "The types of in-kind contributions"

"Synthesis$_{museum}$" is a cultural information system for collections management. The system has a generic and flexible enough documentation process model, the user interface environment is provided through the internet and it is specially adapted for describing the knowledge for cultural instances for administration and scientific use, for curators and administrative staff of a cultural institution. Synthesis is a multilingual system. It supports the documentation in Greek, English, French, Italian, Arabic and data exchange with other systems in xml format. The data model of "synthesis" is fully compatible with ISO 21127 and includes the appropriate functional information units for administrative and scientific documentation of museum objects.

The system supports a generic process model for documentation which can be adapted according to the administrational requirements of a cultural institution. The process model supports, four types of users, "administrator", "documentation administrator", "editor" and "reader". According to their type, the system allows to the users of one or more organizations,

to create, process, publish, un publish, and translate documents of a cultural object or a monument.

The system exploits XML technology, multi layered architectures, open source software, and international standards.

The system supports the documentation for

- Museum objects
- Collections
- Multimedia objects (photos, designs, studies etc)
- Bibliography
- Evidences
- Persons
- Organizations
- Departments
- Places
- Materials
- Events

The system supports the process control for the following documentation procedures:

- The creation of a new unpublished document
- The editing of an unpublished document
- The notification for publishing of an unpublished document
- The rejection of publication of an unpublished document
- The publishing of an unpublished document
- The unpublishing of a published document
- The viewing of a published or unpublished document
- The deletion of an unpublished document
- The creation of a new edition of an existing document
- The translation of an existing published or unpublished document

It supports the following user types:

- System administrator
- Documentation administrator
- Editor
- Reader

The system "synthesis$_{museum}$" is a web application and uses 3 tier architecture. It can be distributed to different machines, in the same or different physical places, ensuring the open architecture, expandability, adaptability and flexibility.

The general idea is that the data is stored in xml documents in a central database and the users through the internet can use the functions of the system analogously to their type and permissions they have.

Synthesis provides the functions to the users for

- Create and edit documents
- Navigate and retrieve documents
- Data migration
- Documentation of cultural instances to more than one language
- Associate cultural instances and events.

- DARIAH "High-level principles" applicable to the contribution (mark with X)

SCIENCE AND TECHNOLOGY PRINCIPLES

X Enable digital arts and humanities research
X Integrate existing resources, research and services
X Use innovations from the national DARIAH partners and scale them to a European level
X Deliver methodological innovation and promote interdisciplinary research
X Stay digitally-focused and analogue-aware
ORGANISATIONAL PRINCIPLES
X Operate under a sustainable business model within the larger scientific community in Europe
X Be receptive to community needs
X Deliver easy-to-use services and resources
_ Delegate trust and share responsibilities
_ Display high quality services
COMMUNITY PRINCIPLES
X Governed and led by the arts and humanities research community
_ Become community-driven
_ Be inclusive
X Promote openness
X Enable transnational collaboration
X Promote standards and best practices

- Type(s) of in-kind contribution (mark with X)

_ Access	_ Event	_ Data
_ Expertise	_ Training	_ DARIAH Coordination
_ Interoperability	_ Summer School	_ Others
_ Content Hosting	_ Cooperation	
X Tools and Software	_ Educational Resources	

- Response to the specific requirements associated to the chosen type of contribution. See the file "The types of in-kind contributions"

• **Requirements: a partner must**
• Provide a description in English including: targeted public, objectives and content of the software and hosted services. *Museum Curators, Students of history and archaeology departments, scholars, researchers, scientists, Conservators*
• Software and/or services in open source are fostered. *It is provided under EUPL licence*
• Provide documentation, instructions for users about the software and hosted services, which should ideally be in English or in English and any other relevant language(s). *It is provided a user manual and an installation guide in english*
• Provide information about the annual availability rate of the service. *"Synthesis$_{museum}$" is licensed under the EUPL, and it can be downloaded from Github by the end of September 2015*
• If necessary, provide the present availability and specify the timetable and means used to improve availability.
• Use due diligence to ensure compliance with legal regulations and contracts including, when applicable, regulations governing the protection of human subjects. [DSA guideline 5]
• Provide sufficient information for others to assess the quality of the software, compliance with disciplinary and ethical norms and (alt)metrics about the use of the information. [DSA guideline 1]

- Provide the name of a contact person. *Konstantina Konsolaki, Dimitris Agelakis*
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- Link to the contribution logo (if it exists)

5. Dariah information

- Discipline(s) associated with the contribution (mark with X)

X Archaeology and Prehistory
_ Architecture, space management
X Art and art history
_ Biological anthropology
_ Classical studies
_ Communication sciences
X Cultural heritage and museology
_ Demography
_ Economies and finances
X Education
Environmental studies
Gender studies
_ Geography
X History
_ History, Philosophy and Sociology of Sciences
_ Law
_ Linguistics
_ Literature
_ Management
_ Methods and statistics
_ Musicology and performing arts
_ Philosophy
_ Political science
_ Psychology
_ Religions
_ Social Anthropology and ethnology
_ Sociology

- TaDiRAH keywords (version 0.5) describing the contribution http://tadirah.dariah.eu/vocab/
  - TaDiRAH - Research Activities (mark with X)

X 1. Capture
X 2. Creation
X 3. Enrichment
X 4. Analysis
X 5. Interpretation
X 6. Storage
X 7. Dissemination
X 8. Meta-Activities

  - TaDiRAH - Research Objects (mark with X)

X Artifacts
X Bibliographic Listings
X Code
_ Computers
_ Curricula
X Digital Humanities
X Data
X File
X Images
X Images (3D)
X Infrastructure
X Interaction
X Language
_ Link
X Literature
X Manuscript
X Map
X Metadata
_ Methods
X Multimedia
_ Multimodal
X Named Entities
X Persons
_ Projects
X Research
_ Research Process
_ Research Results
_ Sheet Music
X Software
_ Sound
X Standards
X Text
_ Text Bearing Objects
X Tools
X Video
_ VREs

- TaDiRAH - Research Techniques (mark with X)

X Encoding
_ Gamification > Dissemination-Crowdsourcing
_ Georeferencing > Enrichment-Annotation
X Information Retrieval > Analysis-Content Analysis
X Linked open data > Enrichment-Annotation; Dissemination-Publishing
_ Machine Learning > Analysis-Structural Analysis; Analysis-Stylistic Analysis; Analysis-Content Analysis
_ Mapping
X Migration > Storage-Preservation
_ Named Entity Recognition > Enrichment-Annotation; Analysis-Content Analysis
X Open Archival Information Systems > Storage-Preservation
_ Pattern Recognition > Analysis-Relational Analysis
_ Photography
_ POS-Tagging > Analysis-Structural Analysis
X Preservation Metadata > Storage-Preservation
_ Principal Component Analysis > Analysis-Stylistic Analysis
_ Replication > Storage-Preservation
X Scanning
X Searching
_ Sentiment Analysis > Analysis-Content Analysis
_ Sequence Alignment > Analysis-Relational Analysis
_ Technology Preservation > Storage-Preservation
_ Topic Modeling > Analysis-Content Analysis
X Versioning > Storage-Preservation
_ Web Crawling > Capture-Gathering
_ Bit Stream Preservation > Storage-Preservation
_ Brainstorming
X Browsing
_ Cluster Analysis > Analysis-Stylistic Analysis
_ Collocation Analysis > Analysis- Structural Analysis
_ Concordancing > Analysis-Structural Analysis
_ Debugging
_ Distance Measures > Analysis-Stylistic Analysis
_ Durable Persistent Media > Storage-Preservation
_ Emulation > Storage-Preservation

- Keywords describing the contribution (English), other than those already mentioned, terminology systems, thesaurus

6. People involved in the contribution

- *Dr. rer. nat. Martin, Doerr, Head of the Centre for Cultural Informatics, Information Systems Laboratory, Institute of Computer Science, FORTH Email: martin@ics.forth.gr, URL: http://www.ics.forth.gr/isl/index_main.php?l=e&c=529 , Scientific responsible*
- *Chryssoula Bekiari, M.Sc., co-ordinator of Centre for Cultural Informatics, Information Systems Laboratory, Institute of Computer Science, FORTH Email: bekiari@ics.forth.gr, URL: http://www.ics.forth.gr/isl/people/people_individual.jsp?Person_ID=13*

Consultant

- *Dimitris Angelakis, M. Sc., member of Centre of Cultural Informatics, Research and development engineer, Information Systems Laboratory, Institute of Computer Science, FORTH, Email: agelakis@ics.forth.gr, URL: URL: http://www.ics.forth.gr/isl*, systems designer
- *Konstantina Konsolaki, M.Sc., member of Centre of Cultural Informatics, Research and development engineer, Information Systems Laboratory, Institute of Computer Science, FORTH, Email: konsolak@ics.forth.gr URL: URL: http://www.ics.forth.gr/isl*
  Software engineer
- *Athina kritsotaki, M.Sc., archaeologist, member of Centre of Cultural Informatics, Research and development engineer, Information Systems Laboratory, Institute of Computer Science, FORTH, Email: athinak@ics.forth.gr, URL: http://www.ics.forth.gr/isl, conceptual modelling, trainer*
  Conceptual modelling
- *Lida Charami, MA. archaeologist, member of Centre of Cultural Informatics, Research and development engineer, Information Systems Laboratory, Institute of Computer Science, FORTH, Email: lida@ics.forth.gr, URL: http://www.ics.forth.gr/isl, conceptual modelling, trainer*

7. Value

Method 1

- Hardware (Give an estimate, which takes the usage rate and depreciation into account)
- Operating costs
  - Travels
  - Service provisions
  - Other costs
- Salaries
  a. annual percentage given to the contribution
  b. annual salary (real salary or use an average grid)
  c. overhead
  d. a × b × c

First Name Last Name	a	b	c	d = a × b × c
Martin Doerr	0,05	50400	1,25	3150
Chryssoula Bekiari	0,1	50400	1,25	6300
Dimitris Angelakis	0,1	48000	1,25	6000
Konstantina Konsolaki	0,15	30000	1,25	5625
Athina Kritsotaki	0,1	30000	1,25	3750
Lida Charami	0,15	30000	1,25	5625

Method 2

An institute calculates the DARIAH contribution on the basis of the number of visits to their platforms. This rate is calculated using the number of visits to pages on the

platforms from DARIAH member countries excluding the national country (France in this case).
This is an indirect indicator that provides figures for the percentage of visits to the platform from the DARIAH European area. An increase in the number of visits has been observed and is attributable to the focus on internalisation activities and on resources and equipment that enhance international visibility.

The percentage of visits for December 2013 is 15.43%.

Austria	0.12%	Ireland	0.27%
Belgium	2.18%	Italy	0.84%
Croatia	0.01%	Luxembourg	0.11%
Cyprus	0%	Malta	0%
Denmark	0.21%	Netherlands	2.36%
Germany	8.99%	Serbia	0.13%
Greece	0.09%	Slovenia	0.06%
		Total	15.43%

The percentage is applied to the provisional budget for 2014 for the platform's production costs (excluding R&D).

Provisional budget 2014 (excl. R&D) in euro's	Percentage	Total
2,491,166	15.43	384,386