



Povezani odprti podatki (LOD) v praksi

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Julian Richards

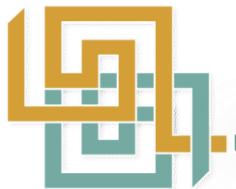
JT-DH, 29.9. - 1.10 2016, Ljubljana



ARIADNE is funded by the European Commission's Seventh Framework Programme

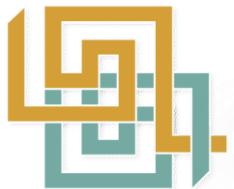
O projektu ARIADNE

Advanced
Research
Infrastructure for
Archaeological
Dataset
Networking in
Europe



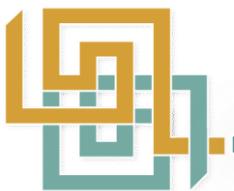
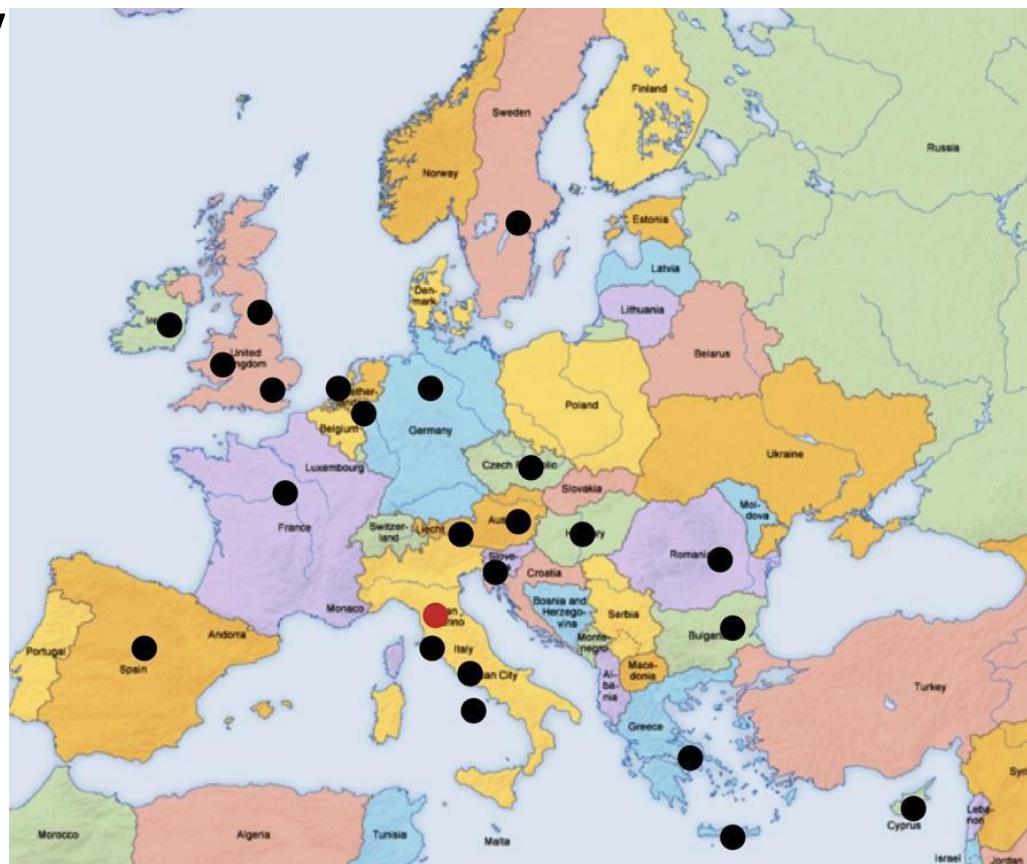
O projektu ARIADNE

- 4 letni projekt projekt (začetek 02/2013)
- OP7 - “Integrating Activity”
- 6.5m €
- Koordinatorja
 - Prof. Franco Niccolucci, Univerza Firence
 - Prof. Julian Richards, Univerza York
- www.riadne-infrastructure.eu



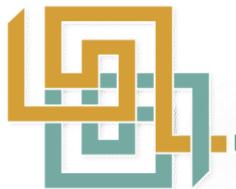
O projektu ARIADNE

- 24 partnerjev, 18 držav
- 15 pridruženih partnerjev
- Odprto partnerstvo
- Gradimo skupnost
 - “Trans national access”
 - Delavnice
 - Interesne skupine



O projektu ARIADNE

- ARIADNE je osredotočena na arheološko snovno dediščino
 - želimo preseči fragmentacijo repozitorijev arheoloških podatkov
 - spodbujamo kulturo deljenja in pre-uporabe podatkov
- Imamo skupne točke z digitalnim humanizmom in drugimi raziskovalnimi infrastrukturami



O projektu ARIADNE

- Omogočiti raziskovalcem enostaven in nadzorovan spletni dostop do:
 - Podatkov in podatkovnih zbirk
 - Spletnih storitev
 - Orodij za sodelovanje
- Preseči politične in institucionalne meje



O projektu ARIADNE

- Mobilizirati
- Integrirati
- Narediti dostopno

Vaši podatki

Archaeological Survey of Ireland,
141,000 records

ADS: 36,000 strokovnih poročil,
več kot 1000 projektnih arhivov;
skupaj 1.3 miljonov zapisov

Dendrokronološki podatki
(DCCD) 5200 vzorcev

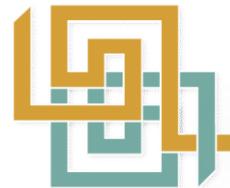
ARACHNE: 500,000
archeoloških predmetov,
zapisov, slik

INRAP: 27,000
terenskih poročil

ZRC-SAZU, 11,000
najdišč

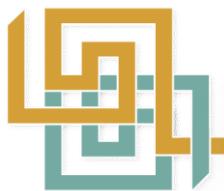
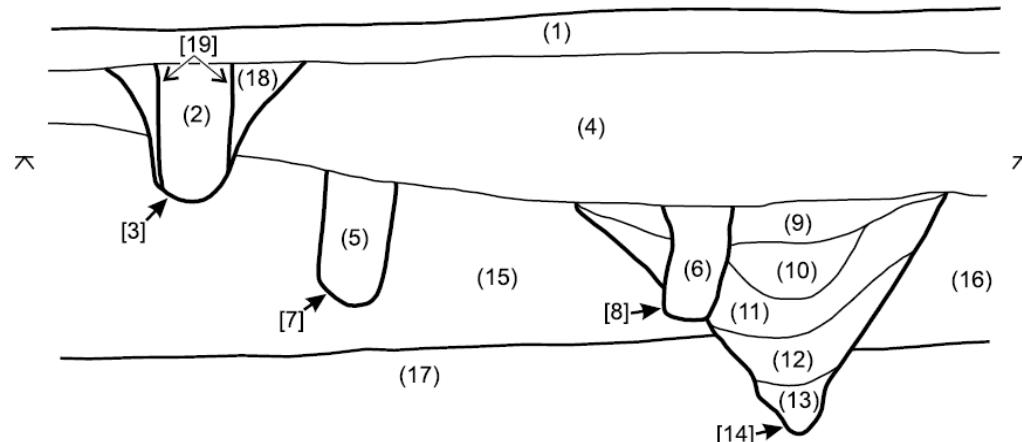
SIGECweb: 326,000
arheoloških predmetov

FASTI online: 12,000
poročil o izkopavanjih iz
3,300 najdišč v 14 državah



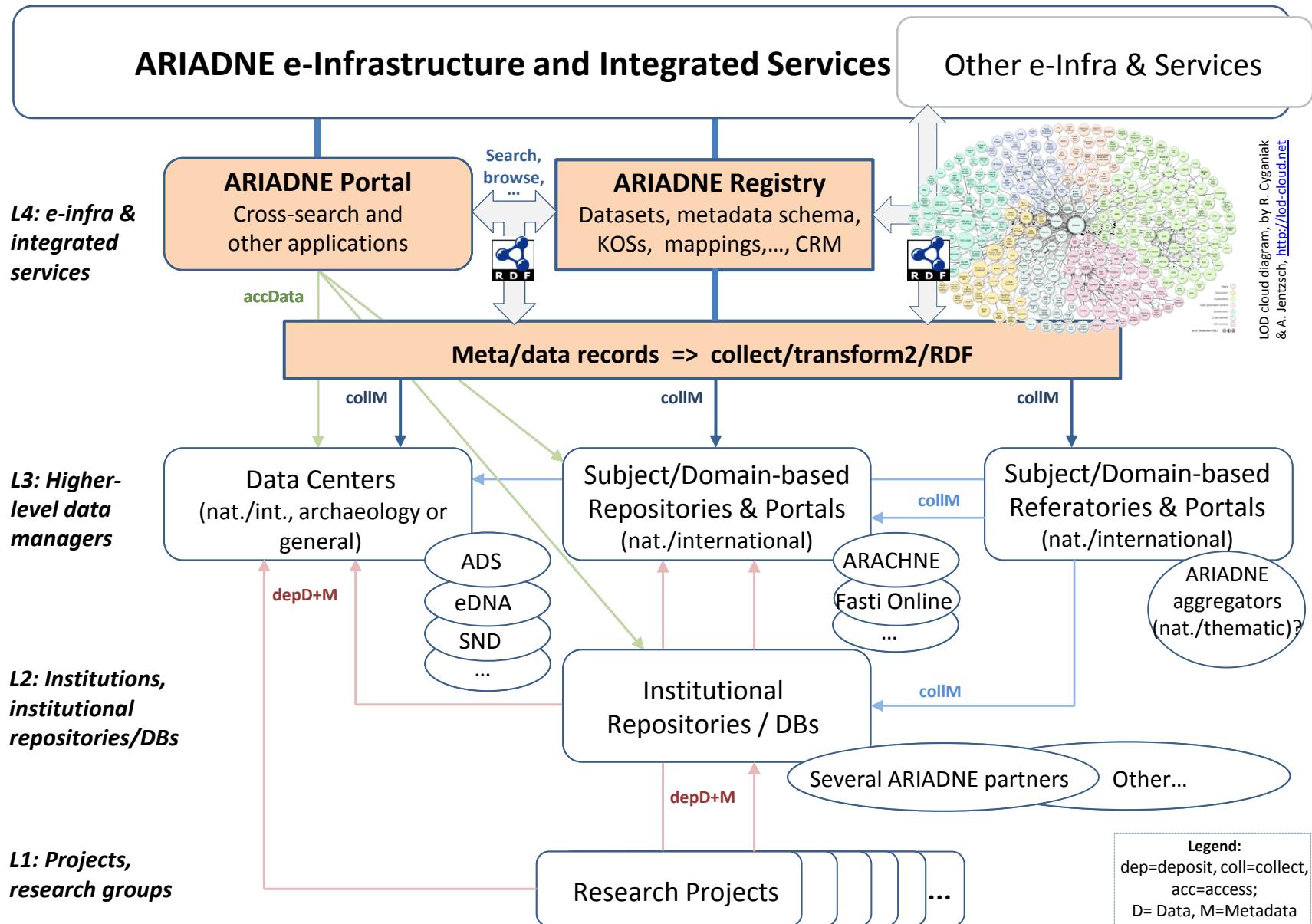
Povezovanje podatkov

- Povezujemo podatke v številnih (naravnih) jezikih in standardih
- ARIADNE za integracijo podatkov uporablja CIDOC CRM z dodatkom za arheologijo
 - Obstojеči podatki so mapirani na “ARIADNE data model”
 - Koncepti so mapirani na Getty AAT tezaver



Povezovanje podatkov

ARIADNE Users Framework



ARIADNE Portal

Catalog

Services

About



All fields ▾

tumu



tumuli / tumuli / tumulus ⓘ

Welcome

ARIADNE brings together and integrates existing archaeological research data infrastructures so that researchers can use the various distributed datasets and new and powerful technologies as an integral component of the archaeological research methodology.

Browse the Catalog

Where



When



farmhouses
hae[n]loov[er] cairns fosse

burials farms ditches[...]
pits (earthworks)

- Pojmi iz “Getty Art & Architecture Thesaurus” (AAT) kot ponujeni pojmi
 - Omogoča razširitev poizvedbe
 - Večjezična podpora (brez Slovenščine, samo “veliki” jeziki)



Start a new search...



Catalog

Services

About

tumuli

Getty AAT ID 300391495

Note Ancient sepulchral mounds, particularly those created by the Bronze Age Tumulus culture evident in Europe from around 1600 BCE.

URI <http://vocab.getty.edu/aat/300391495>

Broader [burial mounds](#)

Connected resources

[Search connected resources](#) 354

Terms

English

Provider mapping

Tumulus

Match URI <http://www.w3.org/2004/02/skos/core#closeMatch>

Source URI <http://www.fastionline.org/concept/attribute/tumulus>

gomila (neopredeljena)

Match URI <http://www.w3.org/2004/02/skos/core#closeMatch>

Source URI <http://tempuri/aat-mappings-zrc-sazu-arkas/gomila%20neopredeljena%29>

gomilno grobišče

Match URI <http://www.w3.org/2004/02/skos/core#broadMatch>

Source URI <http://tempuri/aat-mappings-zrc-sazu-arkas/gomilno%20grob%C5%A1%C4%8De>

Tumulus

Match URI <http://www.w3.org/2004/02/skos/core#exactMatch>

Source URI <http://tempuri/DAI/Tumulus>



Start a new search... 

Catalog 

Services 

About 

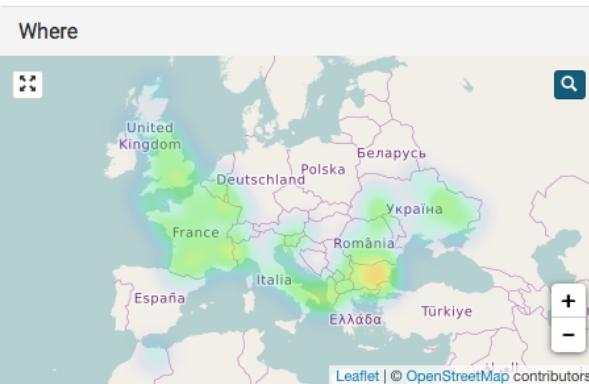
Total results: 1,290 

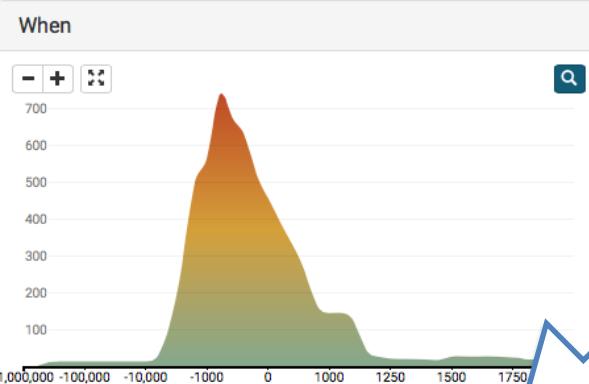
Order By  Score 

Current search

tumuli 

Filters

Where 
United Kingdom, Deutschland, Polska, Беларусь, Україна, România, Italia, Espana, Ελλάδα, Türkiye
Leaflet | © OpenStreetMap contributors

When 
700
600
500
400
300
200
100
1,000,000 -100,000 -10,000 0 1000 1250 1500 1750

Resource type 

Native Subject

Keyword

Contributor

Publisher

Place

Dating

resource.aatSubjects.label: tumuli
Derived Subject: tumuli

Ravnisheteto Tumuli 2005 

Type: Event/Intervention resources Publisher: International Association for Classical Archaeology

Bailar Kairyak Tumuli 2010 

Type: Event/Intervention resources Publisher: International Association for Classical Archaeology

Fasti record for interventions in the year 2010 at Bailar Kairyak Tumuli

Derived Subject: tumuli
resource.aatSubjects.label: tumuli
Derived Subject: tumuli

Isperih Tumuli 2009 

Type: Event/Intervention resources Publisher: International Association for Classical Archaeology

Fasti record for interventions in the year 2009 at Isperih Tumuli

Derived Subject: tumuli
resource.aatSubjects.label: tumuli

Borisovo Tumuli 2011 

Type: Event/Intervention resources Publisher: International Association for Classical Archaeology

Fasti record for interventions in the year 2011 at Borisovo Tumuli

Derived Subject: tumuli
resource.aatSubjects.label: tumuli

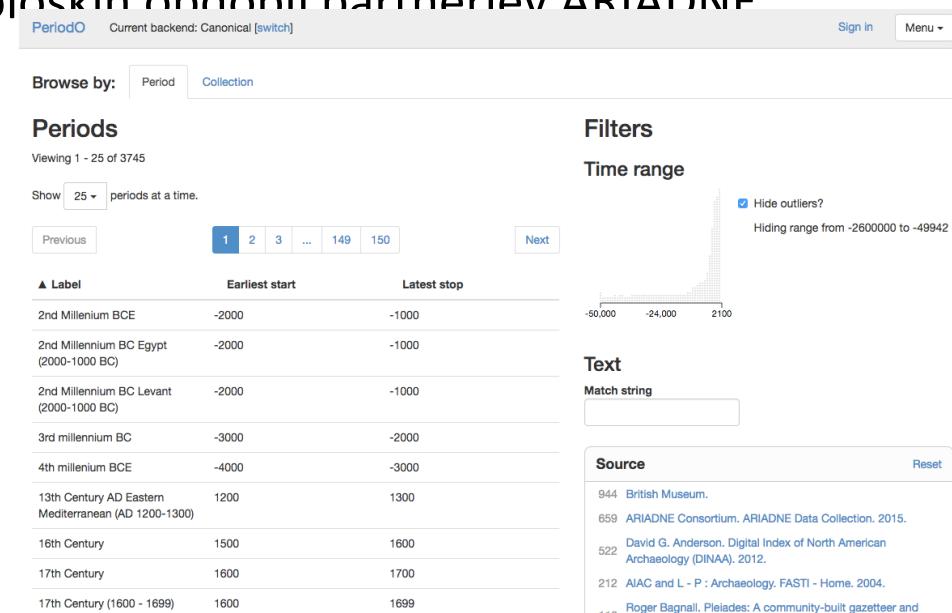
Ravnisheteto Tumuli 2005 

Type: Event/Intervention resources Publisher: International Association for Classical Archaeology

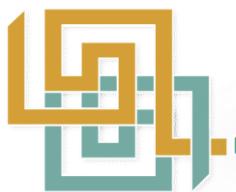
12 

ARIADNE in PeriodO

- PeriodO je gazetir odprtih povezanih podatkov (LOD gazetteer)
 - Strokovne definicije zgodovinskih, umetnostno-zgodovinskih in arheoloških obdobij
 - Pojmi imajo PeriodO URI naslove
- Omogoča lažje povezovanje podatkov z različno definiranimi obdobji
 - (arheologija = časoprostor)



<http://perio.do/>



ARIADNE visual media service

Create your online showcase for 3d models, images and RTI.

[Upload »](#)[Browse »](#)

3D models

3D representations produced with 3D scanners or photogrammetry are extremely high-resolution and hard to visualize at interactive rate. This service produces a web page that supports interactive visualization of your data, after converting it into an efficient multiresolution encoding.

[View details »](#)[Demo](#)

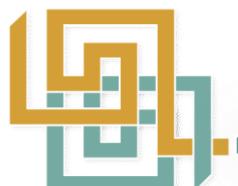
RTI images

Relightable images (called Reflection Transformation Images, RTI, or Polynomial Texture Maps, PTM) are becoming an [increasingly used media](#). This service closes a current gap, giving support for easy publication on the web and interactive visualization of RTI images.

[View details »](#)[Demo](#)

High-resolution images

High-resolution images are a commodity resource in archaeology. Unfortunately, they are most often disseminated and published on the web by using low-resolution versions (a single 40Mpixel images is 120MB in uncompressed format and around 10MB when lossy compressed).

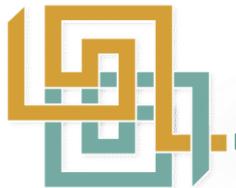
[View details »](#)[Demo](#)

<http://visual.ariadne-infrastructure.eu/>

Storitve za objavljanje vizualnih medijev

Konverzija podatkov v format primeren za spletno objavo oz. vizualizacijo:

- 3R modeli
- Računalniško upodabljanje pretvarjanja odbojnosti (RTI)
- Visokoločljive 2R slike



<http://visual.riadne-infrastructure.eu/>

Storitve za objavljanje vizualnih medijev

Nalaganje lastnih podatkov

- Za vsako enoto uporabnik izpolni enostaven obrazec (metapodatki)
- Izberemo datoteko
- Sprejmemo pogoje (© ostane vaš!)
- Upload!

Upload your media
For the list of supported filetypes see the [help page](#).

Information about you

Email

Name

Institution

Information about the digital object

Label

Title

Description

Tags

Web resource

Collection/Dataset

Copyright owner

Private Keep this object private.

File

I have read and accepted the [usage terms](#).



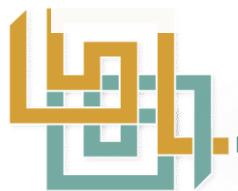
<http://visual.riadne-infrastructure.eu/>

Storitve za objavljanje vizualnih medijev

- Iskanje z brskanjem

Media

Search...			
	3D models Images RTI		
type	title	size	
	-	111.13 MB	View
	3D model of the Arringatore	80.23 MB	View
	Alchemy high-res image of right-side spiral	44.87 MB	View
	Alchemy high-res image of top-left angle	40.22 MB	View
	Amarna Figurine	28.71 MB	View
	Apollo - Luni Temple.	6.12 MB	View
	Askos	29.23 MB	View
	Askos	128.91 MB	View
	A small bronze horse	26.87 MB	View

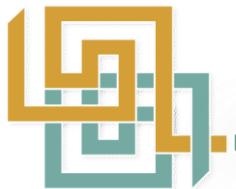


<http://visual.ariadne-infrastructure.eu/>

Storitve za objavljanje vizualnih medijev

3R modeli:

- 3R model kipa
“Frontone A” iz
templa Luni,
terracota, 2. st.
pr. n. št.
- National
Archaeological
Museum in CNR-
ISTI

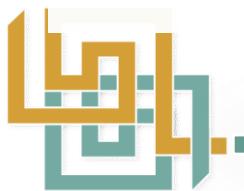


<http://visual.riadne-infrastructure.eu/3d/apollo>

Storitve za objavljanje vizualnih medijev

RTI model:

- 46,7 mb
- Bizantinski kovanec
- ISTI-CNR

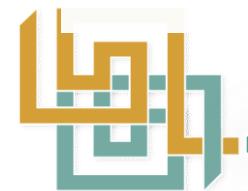
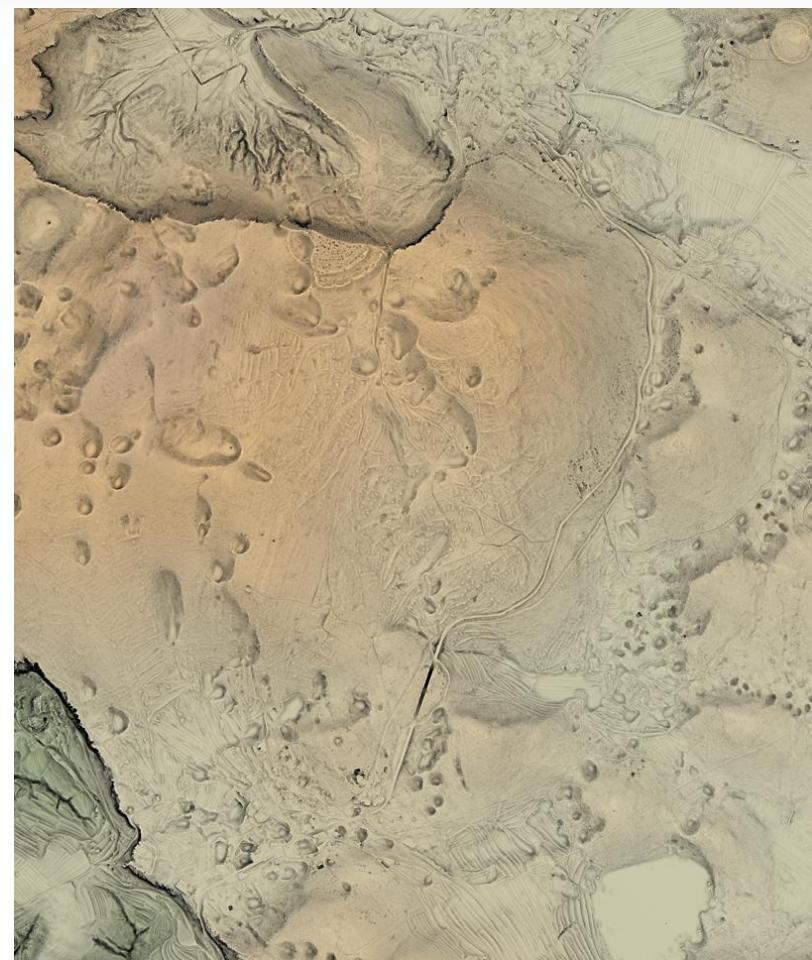


http://visual.riadne-infrastructure.eu/rti/testnomprojemj30052016_02

Storitve za objavljanje vizualnih medijev

Visokoločljive 2D slike:

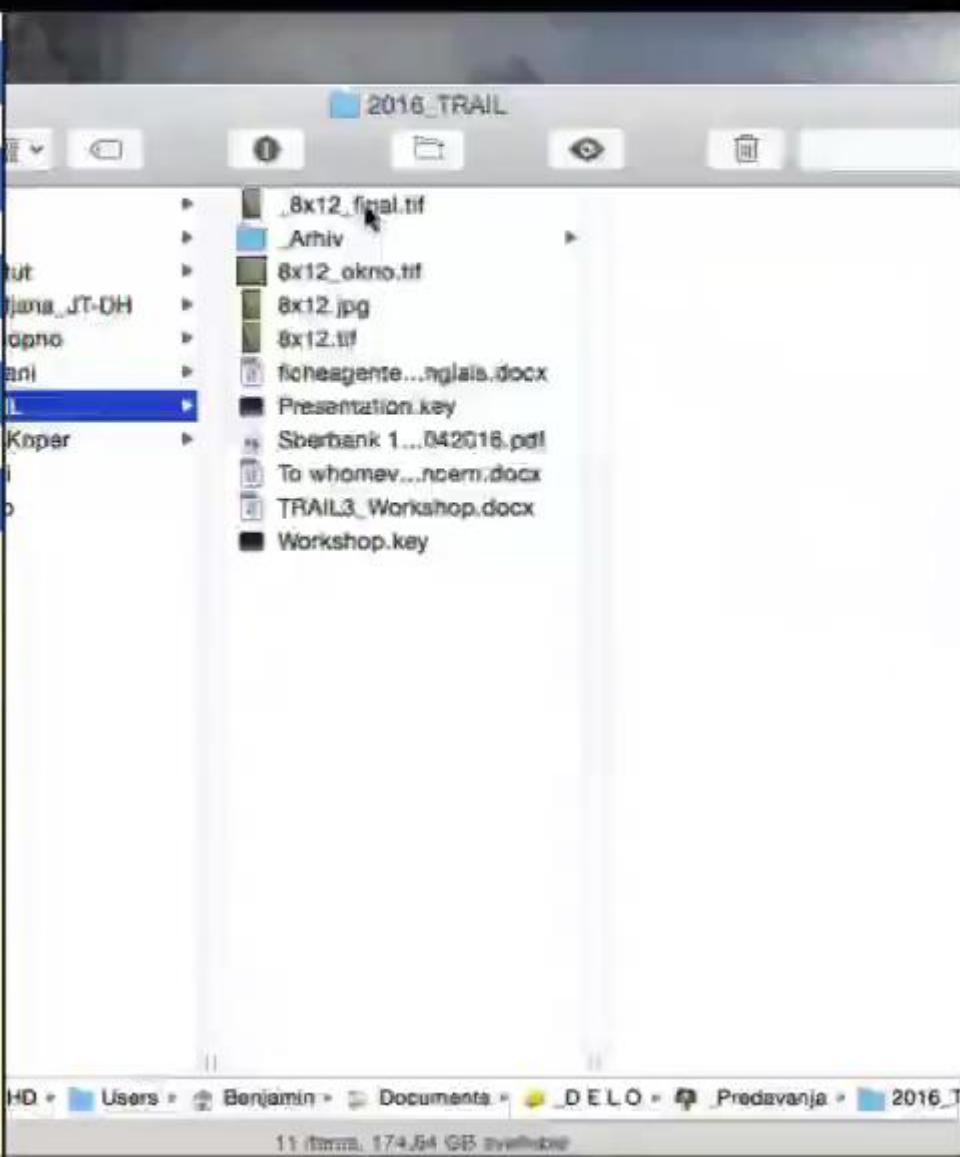
- 138,2 mb
- Vizualizacija
lidarskih podatkov,
Gradišče nad
Knežakom
- ZRC SAZU



http://visual.riadne-infrastructure.eu/img/lidar_a

Online Desktop

photograph	2.86 MB	<button>View</button>
wandering	12.29 MB	<button>View</button>
mena Chapel	13.91 MB	<button>View</button>
hilforts	36.19 MB	<button>View</button>
epicted is situated in western Slovenia (central coordinate see http://gis.arso.gov.si/evode/profile.aspx? Extent=442261.61,52763.74,13.22917), High-Resolution the 84 km ² area has been derived from lidar data collected ng of Slovenia project"	55.58 MB	<button>View</button>



Storitev za prostorske podatke

Landscape Services

Cloud Service

3D Terrain Service

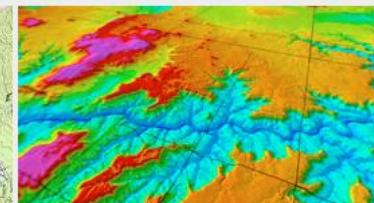
Help

Contacts

ARIADNE

Landscape Services

Landscape Services for ARIADNE are a set of responsive web services that include large terrain datasets generation, 3D landscape composing and 3D model processing, leveraging on powerful open-source frameworks and toolkits such as [GDAL](#), [OSGjs](#), [OpenSceneGraph](#) and [ownCloud](#). Here a few examples of 3D datasets produced by the services:



Cloud Service

This is the main service to **access**, **manage** and eventually **share** your online data. This includes DEM input data, Geo-images, 3D models, etc.

[Cloud Service](#)



3D Terrain Service

You can use this service to process DEM, geo-images and shapefiles to produce large 3D terrain Datasets optimised for real-time visualization and web streaming.

[3D Terrain Service](#)



Terrain Gallery

View, download or delete your generated 3D Terrain datasets. You can also interactively explore a 3D dataset online and present it in your web site, through desktop browsers, smartphones or tablets.

[Terrain Gallery](#)



<http://landscape.riadne-infrastructure.eu/>

Ariadne, princesa Krete, hči kralja Minosa in kraljice Faziphae.

Ko se je Tezej, sinj kralja Egeja, javil, da ubije Minotavra, se je Ariadne vanj zaljubila na prvi pogled. Pomagala mu je ubiti Minotavra tako, da mu je podarila čarobni meč za boj z Minotavrom ter klobčič niti, s pomočjo katerega se mu bo uspelo rešiti iz labirinta.



Hvala za pozornost

e-pošta: info@ariadne-infrastructure.eu

<http://www.riadne-infrastructure.eu>
<http://portal.riadne-infrastructure.eu>

Twitter: @riadne-infrastructure

ARIADNE is a project funded by the European Commission under the Community's Seventh Framework Programme, contract no. FP7-INFRASTRUCTURES-2012-1-313193.

The views and opinions expressed in this presentation are the sole responsibility of the authors and do not necessarily reflect the views of the European Commission.

