Ερευνητικό Κέντρο Αθηνά
Athena Research Center

Big, Linked, and Open Data in Greece

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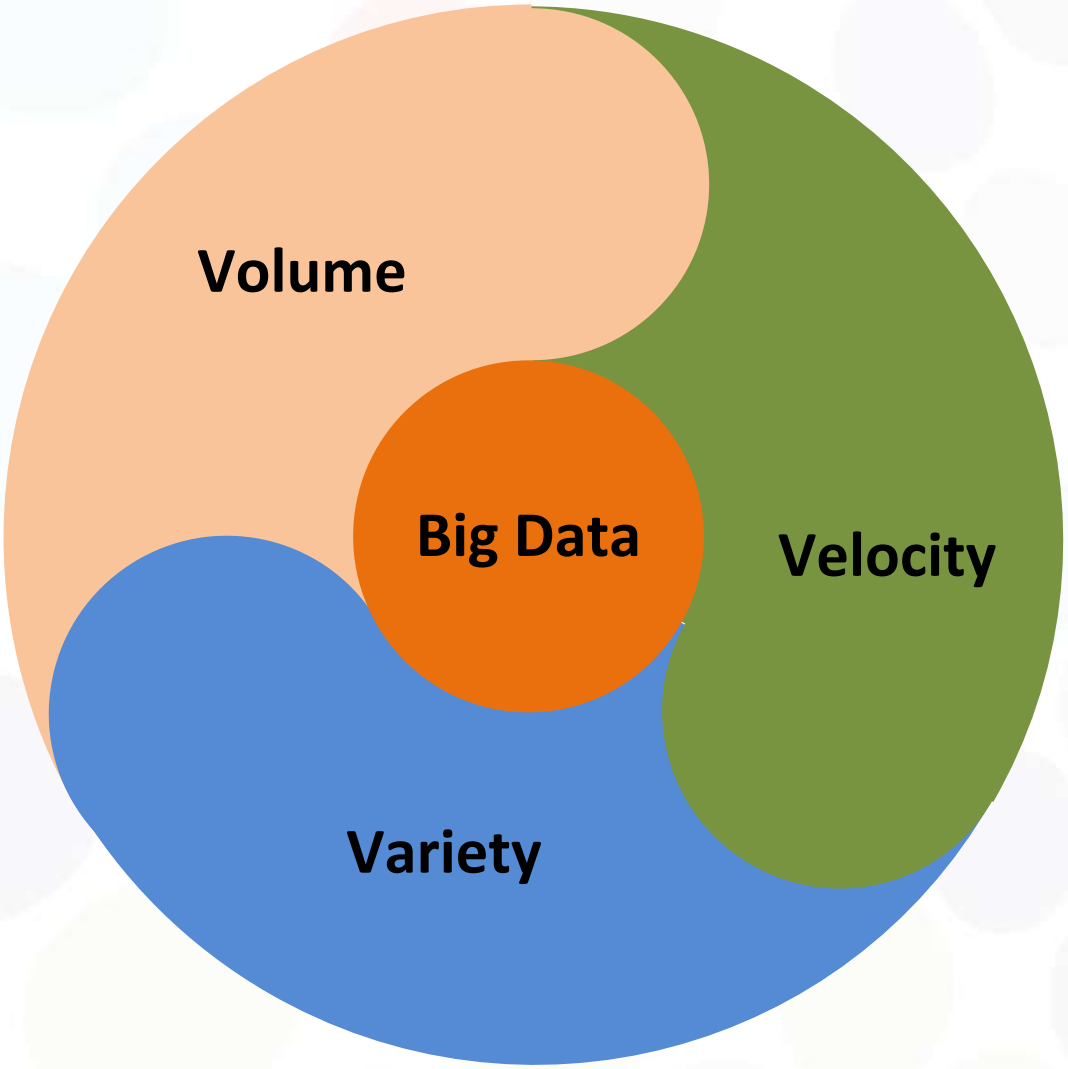
Institute for the Management of Information Systems
ATHENA Research Center

http://web.imis.athena-innovation.gr/~mter/

A challenge
An initiative
A technology
An opportunity

BIG DATA

Big Data characteristics



45% annual market growth

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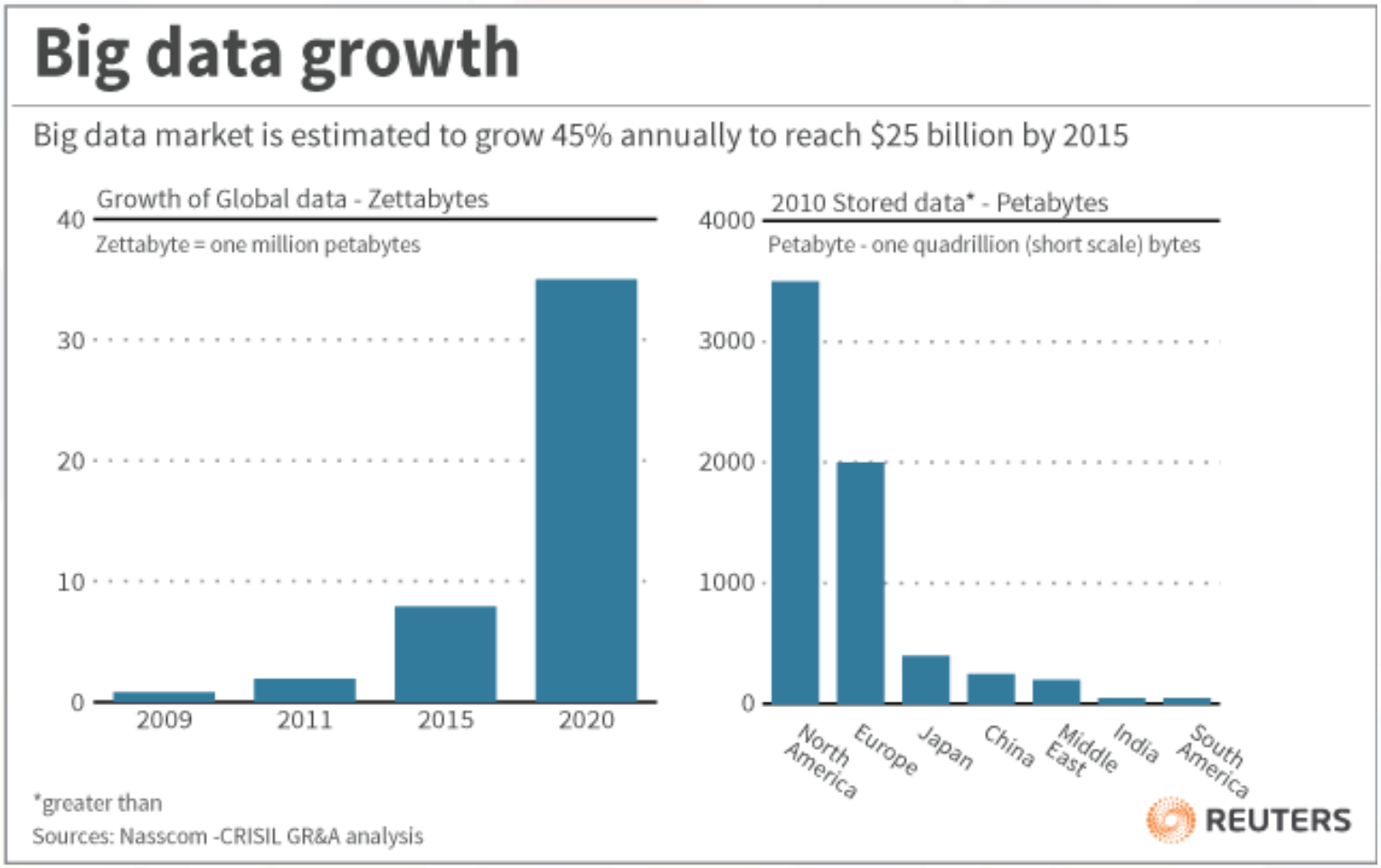

Reuters graphic/Catherine Trevethan 05/10/12

Open
Data

Sharing public sector data

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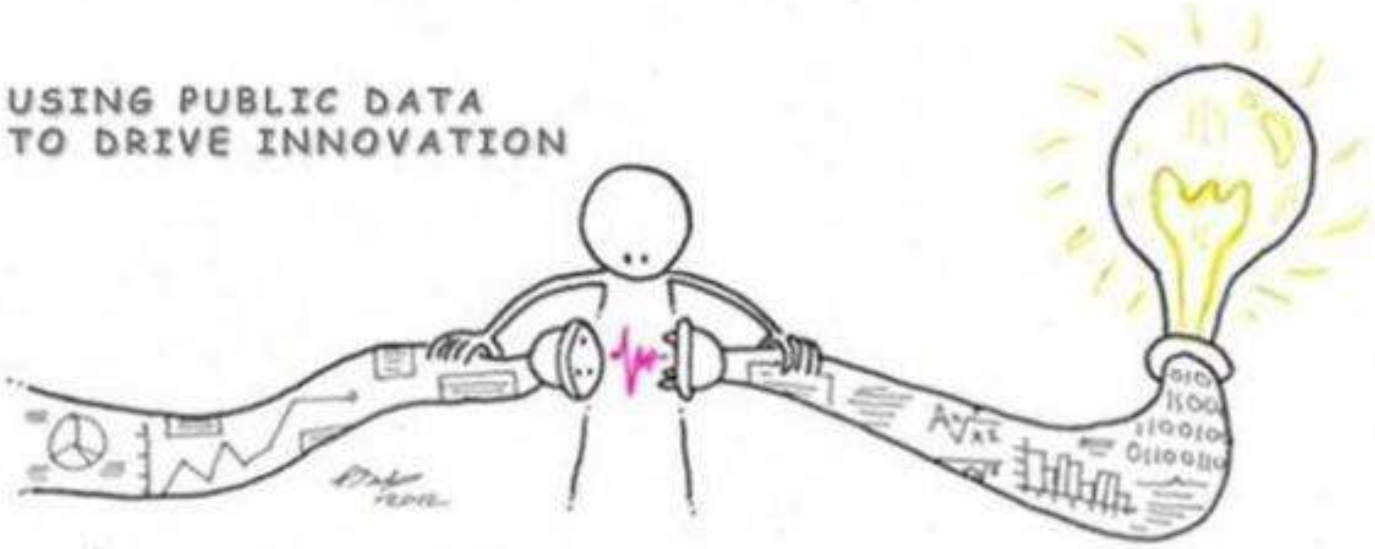
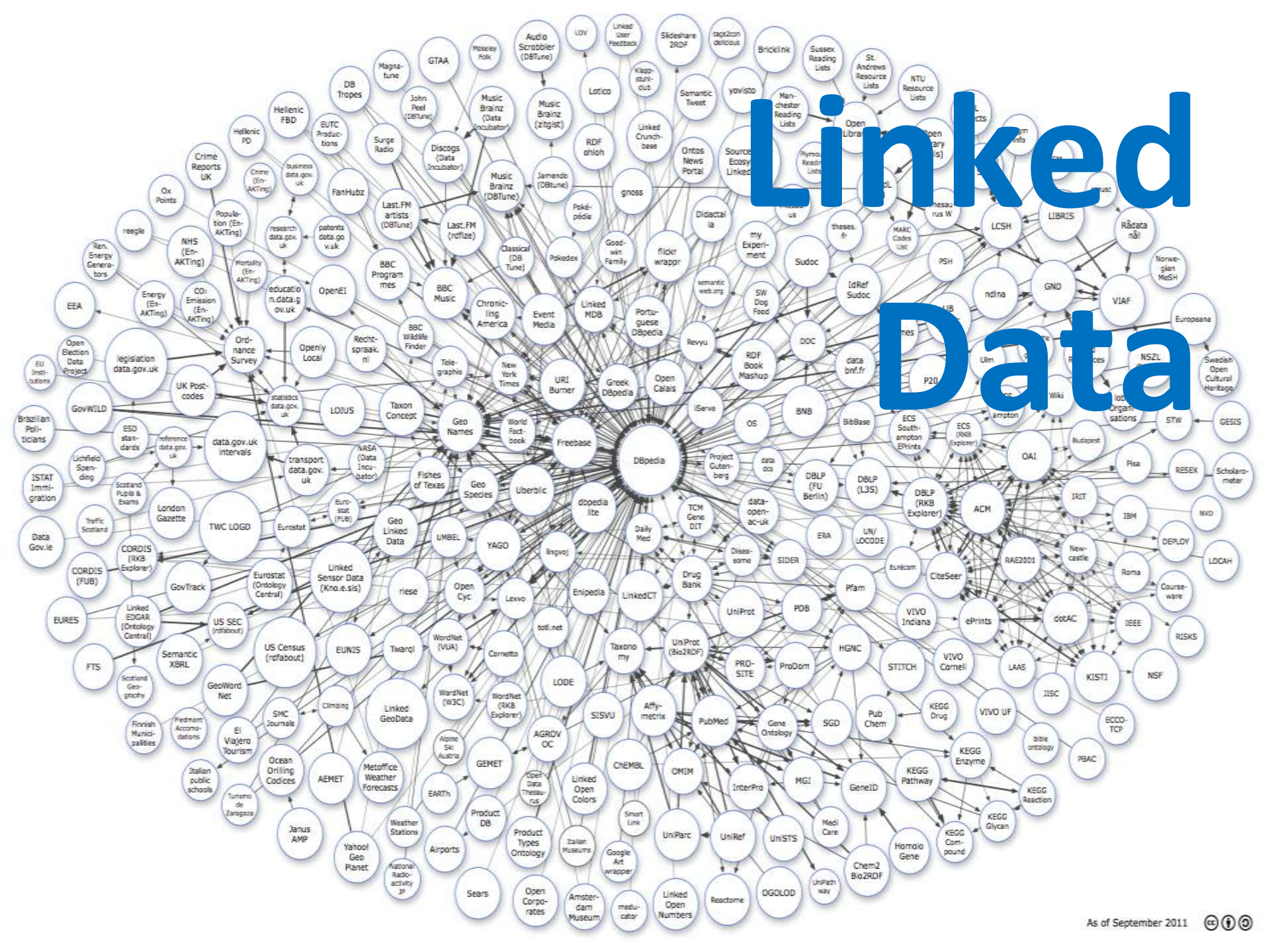

USING PUBLIC DATA
TO DRIVE INNOVATION


Linked Data
As of September 2011

The next WWW

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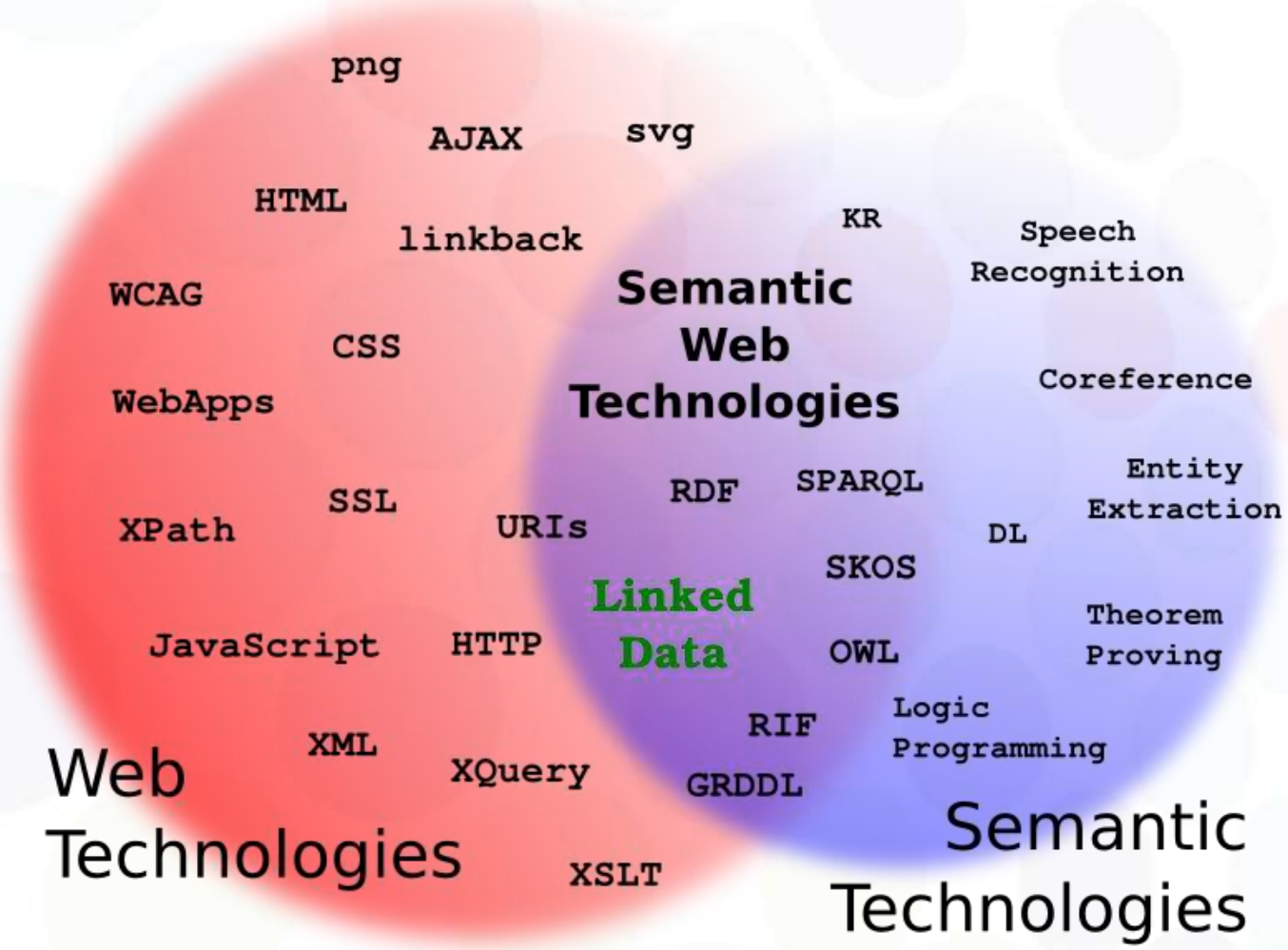

An opportunity

e-Prescription

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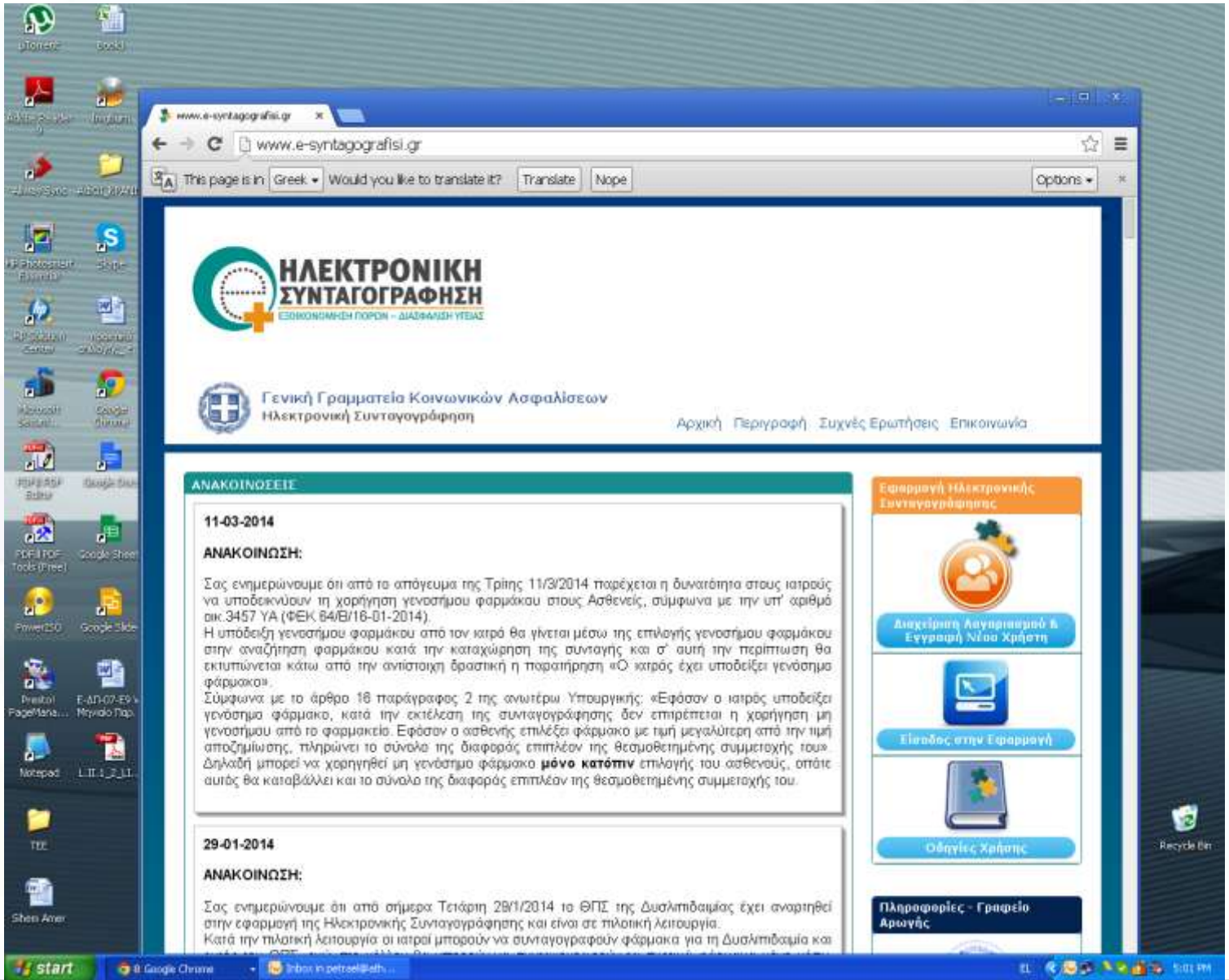
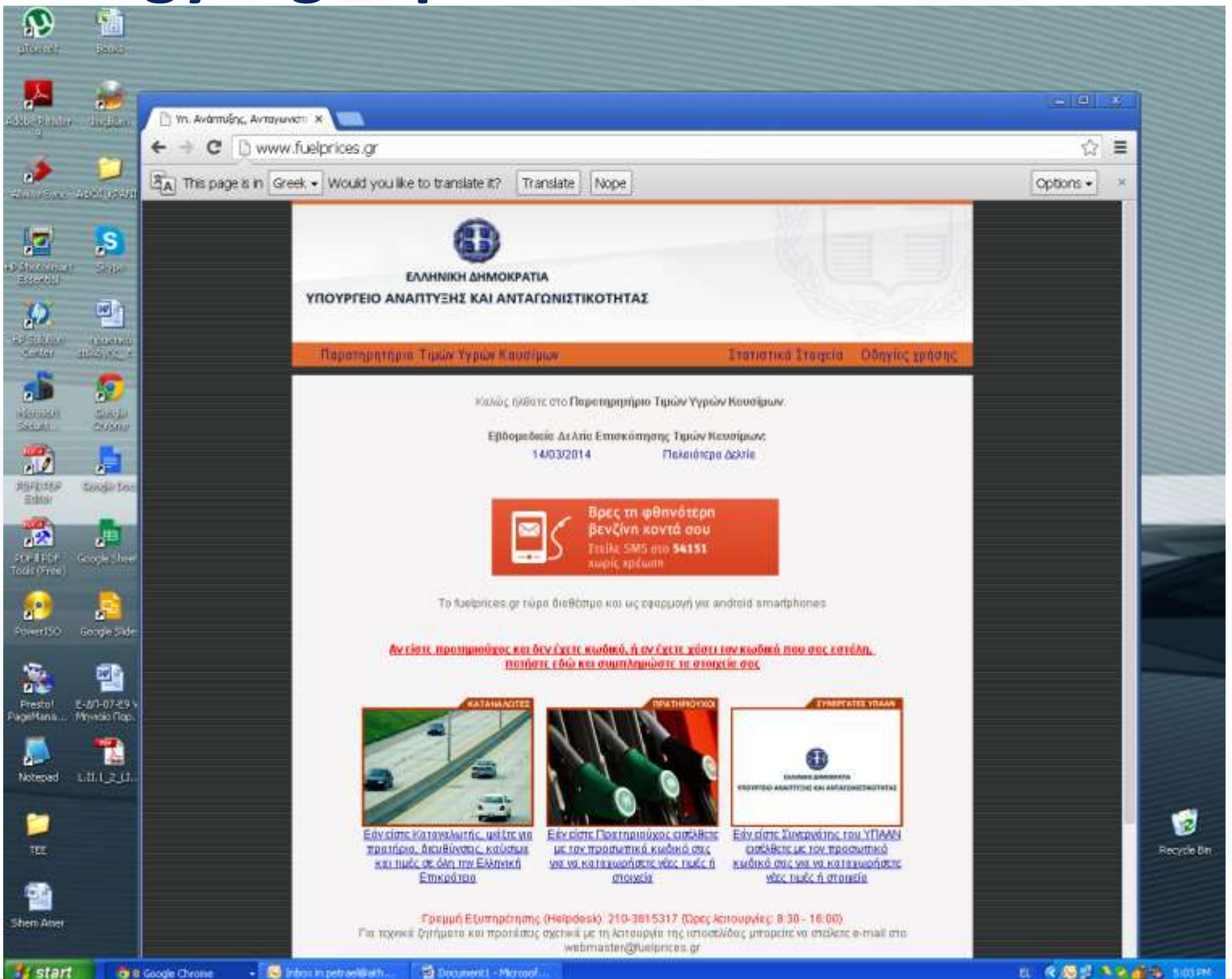


Energy – gas prices



Environment

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Open (Up) Data

Country: Greece

Commitment Description:

Open government data is a tremendous resource that is as yet untapped. The government produces and collects a vast quantity of high-quality data as part of its ordinary working activities. If this data is made open, it can have huge potential benefits - as commented by the private sector, during the online deliberation of this action plan. Hopefully informal partnerships will be fostered among the actual stakeholders of open data with the purpose to provide applications and services that have measurable positive effects on real people's lives, inspire innovation and stimulate financial growth.

Activity Stream

A New OGP Blog Post has been posted: 3rd Samos Summit 2012: "Open Data and Interoperability for Governance, Industry and Society"

A New Commitment has been added: "Boost Public Engagement"

ΙΠΣΥ IMIS

Ερευνητικό Κέντρο Αθηνά
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Research Excellence

Expertise

Networks

I ♥ DATA

Research Excellence in Big Data Management

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- Foundational Research
- Scalable Analytics
- Data sharing
- Storage
- Quality

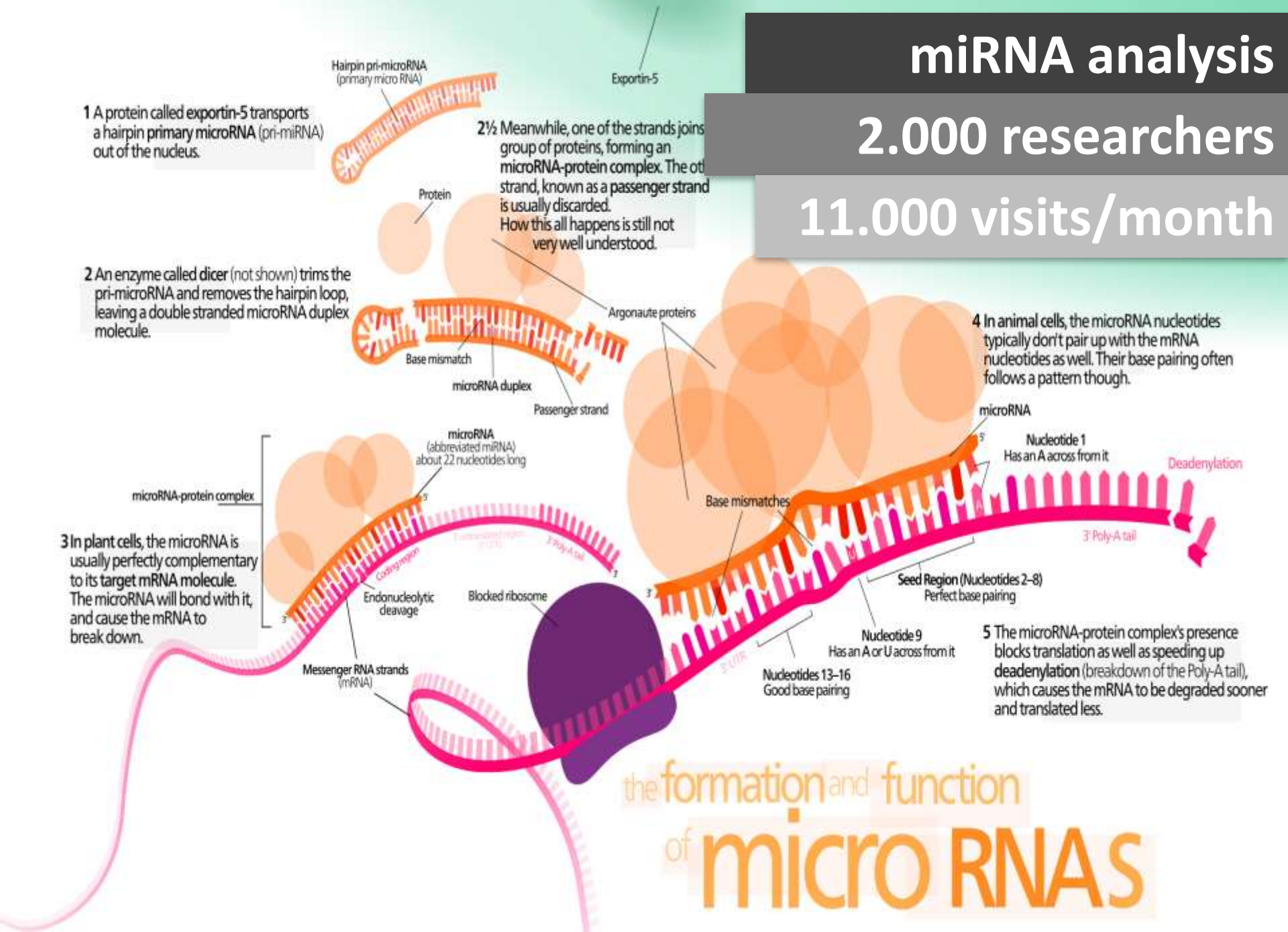
ΜΕ.Δ.Α

Μεγάλα Δεδομένα Πρόκλησεις, Μέθοδοι & Τεχνικές Αποδοτικής Διαχείρισης

miRNA analysis

2.000 researchers

11.000 visits/month



Search or type a command Explore Gist Blog Help SpirosAthanasiou

PublicaMundi

Scalable and reusable open geospatial data

http://www.publicamund... contact.publicamundi@i...

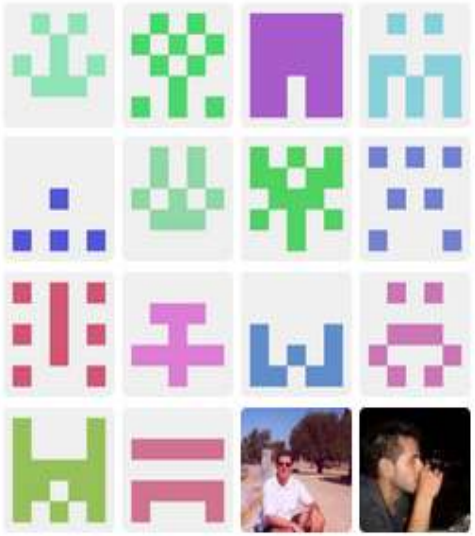
Find a repository... New repository

ol3 JavaScript ★0 221
forked from openlayers/ol3
OpenLayers 3
Updated a day ago

openlayers JavaScript ★0 582
forked from openlayers/openlayers
Updated a day ago

Leaflet JavaSc
forked from Leaflet/Leaflet
JavaScript library for mobile-friendly interactive maps
Updated a day ago

Members 17 >



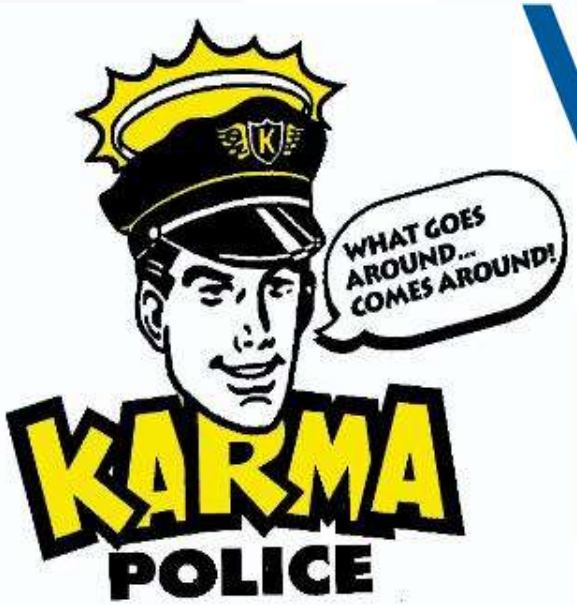
Add a member by username

Readers

Good foundations

Tap into actual users

Free publicity



W3C®

OSGeo
Your Open Source Compass

OGC®
Making location count.

RDA
RESEARCH DATA ALLIANCE
EUROPE

mozilla
FOUNDATION

ΕΕΛ/ΛΑΚ

StatData Camp 2010
Δημόσια, Ανοικτά Δεδομένα
<data
GeoDataCamp 2010
19-20 Νοεμβρίου
</data>
INTERNATIONAL
OPEN DATA
HACKATHON
ΜΟΝΑΔΕΣ ΑΡΙΣΤΕΙΑΣ
ΑΝΟΙΧΤΟΥ ΛΟΓΙΣΜΙΚΟΥ

stack.linkeddata.org

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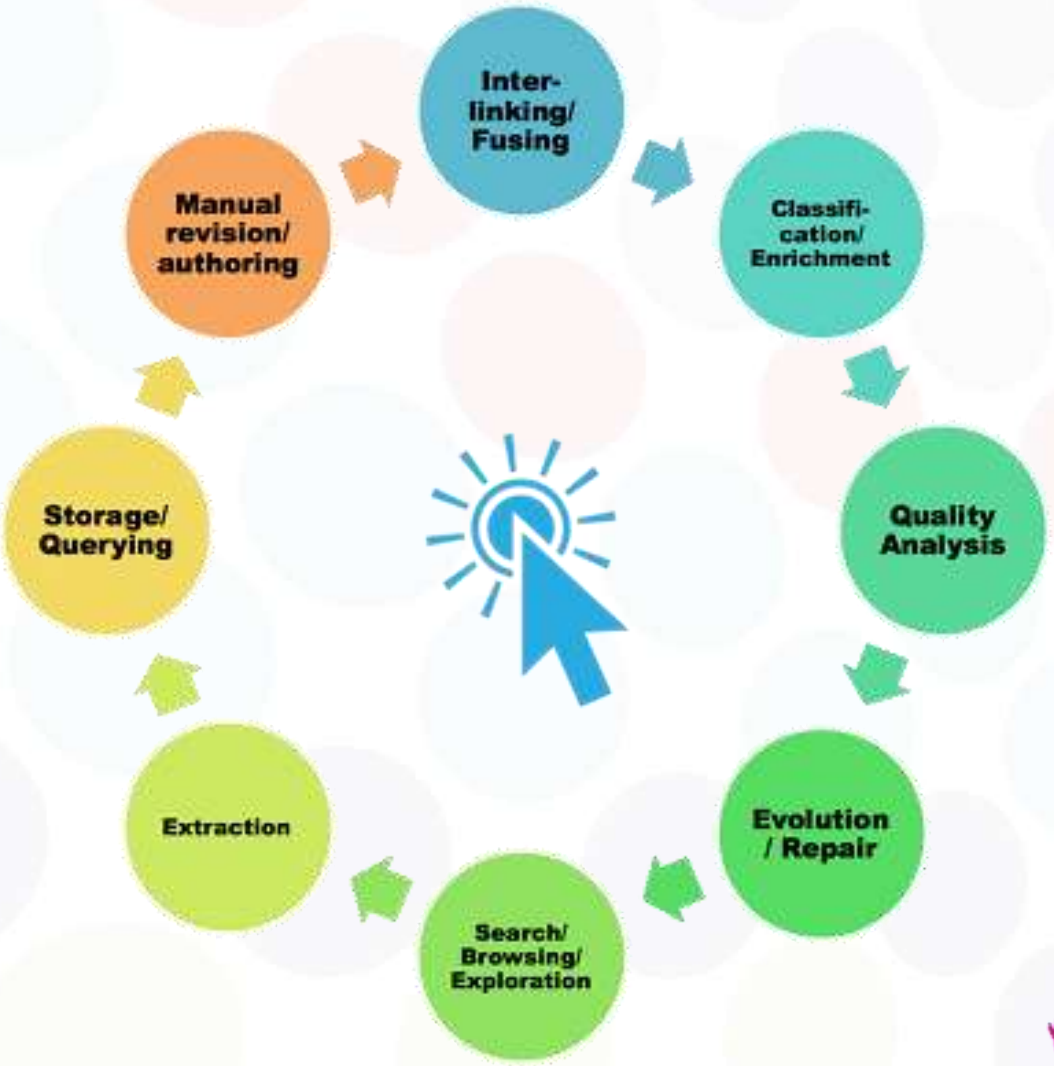

GeoKnow

DATA.GOV
pycsw

6
E962
65
8
4.98 λεπ.
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image © 2010 DigitalGlobe
Image © 2010 European Space Imaging
© 2010 Tele Atlas
38°00'21.48" B 23°33'35.89" E ανύψ 2 πόδια
©2010 Google
Eye alt 17.17 λεπ.

geodata.gov.gr

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ΔΗΜΟΣΙΑ ΔΕΔΟΜΕΝΑ, ΑΝΟΙΚΤΑ ΔΕΔΟΜΕΝΑ

Open data

Geospatial data

8/2010

cc
open source™

ΙΜΣΥ IMIS

Services

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Δημόσια, Ανοικτά Δεδομένα

ανα φορέα | ανα θεματική κατηγορία | αλφαβητικά | ημερομη

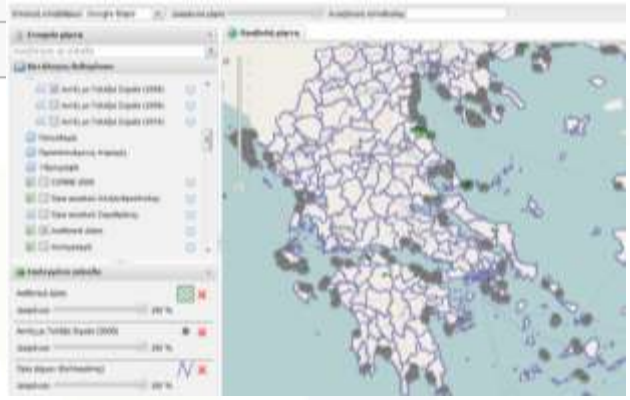
Αποκεντρωμένη Διοίκηση Ηπείρου - Δυτικής Μακεδονίας
Γενική Γραμματεία Αθλητισμού
Δήμος Θεσσαλονίκη

Πρόσβαση

SHP | GML | KML | Χάρτης

Λεπτομέρειες

Άδεια:	Creative Commor
Έκδοση:	ver. 1.0
Γεωγραφική Κάλυψη:	16.76871,30.6554
Μοναδικό Αναγνωριστικό:	a3539e9a-e290-4
Μεταδεδομένα:	



Data?

Public transport
Απαλλοτριώσεις
Public WiFi
ΣΧΟΑΑΠ
Water quality
District plans
Fires
Blue flags
Habitats
Census
Hydrography
CORINE
Admin boundaries
NATURA
Schools

Who?

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ΟΡΓΑΝΙΣΜΟΣ ΑΣΤΙΚΩΝ ΣΥΓΚΟΙΝΩΝΙΩΝ ΑΘΗΝΩΝ

Αποκεντρωμένη Διοίκηση Ηπείρου – Δυτικής Μακεδονίας

Δ Ι Α Ζ Ω Μ Α

ΚΑΠΕ
CRES

ΟΡΓΑΝΙΣΜΟΣ ΡΥΘΜΙΣΤΙΚΟΥ ΣΧΕΔΙΟΥ & ΠΡΟΣΤΑΣΙΑΣ ΠΕΡΙΒΑΛΛΟΝΤΟΣ ΑΘΗΝΑΣ

φορέας διαχείρισης
ΛΙΜΝΟΘΑΛΑΣΣΑ ΜΕΣΟΛΟΓΓΙΟΥ

Κτηματική Υπηρεσία Έβρου

Κτηματική Υπηρεσία Πειραιά

ΟΚΧΕ

ΚΟΙΝΩΝΙΑ ΤΗΣ ΠΛΗΡΟΦΟΡΙΑΣ ΑΕ

ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ
Υπουργείο Προστασίας του Πολίτη

ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ
Υπουργείο Παιδείας
Διά Βίου Μάθησης και Θρησκευμάτων

ΥΠΟΥΡΓΕΙΟ ΠΕΡΙΒΑΛΛΟΝΤΟΣ ΕΝΕΡΓΕΙΑΣ & ΚΛΙΜΑΤΙΚΗΣ ΑΛΛΑΓΗΣ

ΕΛΛΗΝΙΚΗ ΑΣΤΥΝΟΜΙΑ

ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ
Υπουργείο Εσωτερικών

In numbers

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380.000 visitors/ 109 countries/ 1.000 daily users / 1TB of geospatial data / 179 data sets / 58TB uploaded data / 20M of direct benefits for the public sector / 50% of visitors for professional use

9/2010

data.gov/community

2/2014

data.gov/open-gov/

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Research projects

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PublicaMundi	Scalable and Reusable Open Geospatial Data
DIACHRON	Managing the evolution and preservation of the Data Web
GeoKnow	Linked (open) geospatial data storage, management, querying, integration, visualization
ESPAS	Near-earth space data infrastructure for science espas-fp7.eu
SimpleFleet	Democratizing fleet management simplefleet.eu
EarthServer	European scalable earth science service environment earthserver.eu
MEDA	Efficient Management for Big Data – Challenges, Methods and Techniques.

Research projects

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iMarine	Data infrastructure for marine living resources and fisheries management **i-marine.eu**
MERMAID	Off-shore energy platforms based on waves and wind, with additional uses **mermaidproject.eu**
CHESS	Personalized storytelling guiding in museums **chessexperience.eu**
HBP	Human Brain Project **humanbrainproject.eu**
OpenAIRE	Implementation of Open Access to pubs European policy **openaire.eu**
Optique	High-scale parallel dataflow processing of ontology-based data **optique-project.eu**

Research projects

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Arcomem	Leveraging the Wisdom of the Crowds for Intelligent Preservation **arcomem.eu**
INTER-ACT	International Network for Terrestrial Research and Monitoring in the Arctic eu-interact.org
EFG1914	European Film Gateway 1914 for Europeana **project.efg1914.eu**
CONFES	Converged Network Infrastructure Enabling Resource Optimization and Flexible Service Provisioning
National RTD projects	**CAP** (Community of the Airport Portal) **MoDiSSENSE** (Distributed Platform for Social Network Services on Mobile Devices) **MICRORNA** (Exploring the role of MicroRNAs in diseases: a computational, experimentally verified approach)

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Thank you!