









How open data can enhance social innovation



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Who we are: NCSR Demokritos

- √ >1000 researchers
- ✓ SKELab > 160 projects: applied data technologies
- ✓ Business services: e.g. IBM Greece
- ✓ Research projects: e.g. Big Data Europe



Who we are: Open Technologies Alliance

GFOSS Open Technologies Alliance

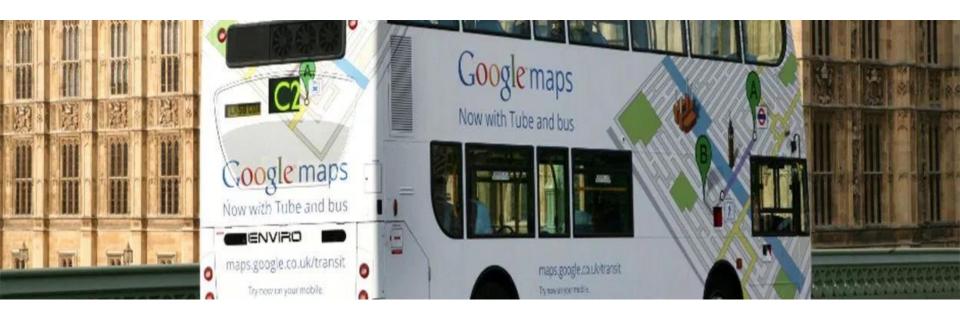
- ✓ founded in 2008 by
- √ 35 universities & research centers
- ✓ promoting openness
- ✓ Software, hardware, government, science & data
- ✓ Open Data Institute in Greece
 - ✓ Leading org. by Sir Tim Berners-Lee







The Web & data everywhere



X as a Service, X=computing, data, mobility, government...

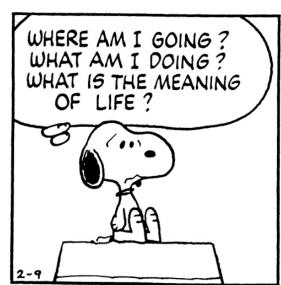
In Philosophical terms

- hybridisation between bits & other forms of reality
- continuity in behavioural and moral terms in the online and the physical spaces
 (Floridi 2015)

But what the web really changes?

What is really new

- Friendship, governance, art, business, commerce, freedom, security, property...
 almost everything is transformed
- The Web asks again most of the basic questions of life together with the little daily ones



Issues to discuss

- data trilogy
- data infrastructures
- social innovation & open data: a use case
- purple growth: a new context

Data trilogy

Open: access

everyone to use and republish as he wishes

Big: scale

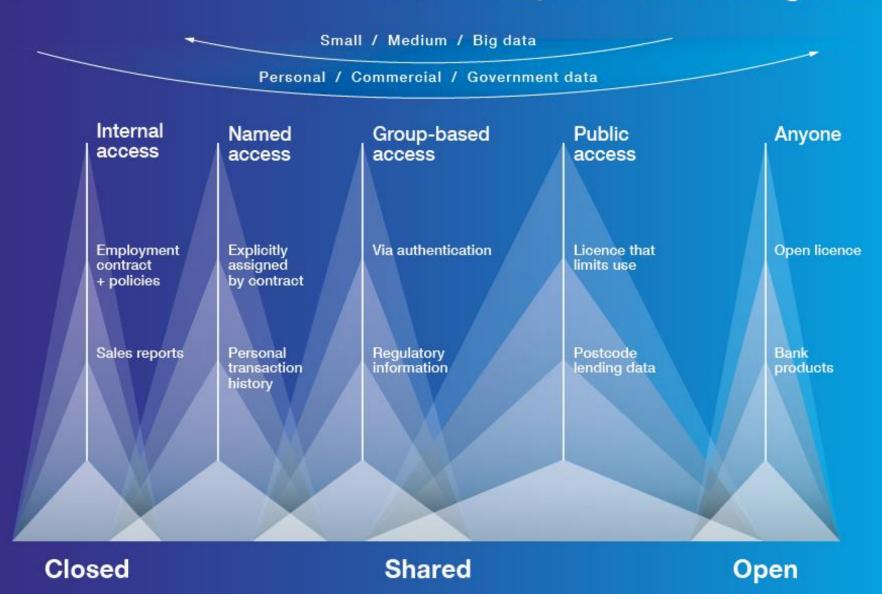
volume, velocity, veracity, variety & value

Linked: use

publish once, use as many times



The Data Spectrum: Banking sector



how: data infrastructures

- data resources (e.g. identifiers for assets)
- open standards & linked shared data
- open data



Why data infrastructures

- Efficiency: in policy and decision-making
- Trust: transparency of data provenance
- Quality: accuracy and timeliness of data

Open data barometer

- by the World Wide Web Foundation
- uncover the impact of open data initiatives around the world
- analyses global trends

http://opendatabarometer.org



Open data barometer

- provides comparative data on 115 countries and regions (4th edition)
- in-depth methodology that combines contextual data, technical assessments and secondary indicators

Data infrastructures: what?

- 1) Map Data (full coverage of the country)
- 2) Land Ownership Data
- 3) National Statistics
- 4) Detailed government budget
- 5) Company register and information
- 6) Legislation
- 7) Public transport timetables
- 8) International trade data



Data infrastructures: what?

- 9) Health sector performance
- 10) Education performance data
- 11) Crime statistics
- 12) Environmental data
- 13) National election results
- 14) Public contracting data
- 15) Information on public officials



Data infrastructures: how?

- Opes the data exist?
- Is it available online from government in any form?
- Is the machine readable and available as a whole?
- Is the dataset available free of charge?
- Is the data openly licensed?
- Is the dataset up to date?
- Is the dataset being kept regularly updated?
- Was it easy to find information on this dataset?
- Are data identifiers provided for key elements in the dataset?

Social Entrepreneurship

...to develop, fund and implement solutions to social, cultural, or environmental issues...

but social entrepreneurs are either non-profits or blend for-profit goals with generating a positive "return to society", not only profit

Use case: energy cooperatives

- ✓ good with energy
- ✓ owned and run by members
- √ fair and transparent
- √ values and ethics in business







Data, apps & new markets



How Community Energy Manager Works

And how to make it work for you



For Communities

Community Energy Manager will help you undertake and coordinate energy saving, generation and research projects in your local area.

Learn more



For Energy Solution Providers

Supports the efficient delivery of large scale, cost effective energy projects across the housing sector. Provides a platform to link your business with community groups and their local knowledge.

Learn more



For Researchers

Tailor intuitive data analytics to your research needs. Community Energy Manager provides high-level summaries to detailed breakdowns with individual household case studies.

Learn more



For Local Authorities

Masterplan with both high-level and specific detail overviews. Community Energy Manager is ideal for identifying opportunities for effective energy management.

Learn more

Plan and manage projects using customisable workflows

Open data for energy cooperatives

+Efficiency
data infrastructures & sources as basis
data re-use from others

+Trust transparency in finance & data usage

e.g. touchstoneenergy.com



Open data & social innovation in new context



New Economy

- Most important economic factor
 land > capital > money capital > online data
- like early stages of the Industrial Revolution
- Personal data "pollution" & algo ethics
- + cheap information resources

the Purple growth

Growth based on the fair use of algorithms and data

Thank you! ?

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