PSI RE-USE
POLICY AND OPPORTUNITIES

MARTIN ALVAREZ-ESPINAR

RAW OPEN DATA — COIMBRA (PT)

http://www.flickr.com/photos/ier-burg/3987168813/

DATA IS CRUCIAL NOWADAYS

Neelie Kroes, Vice-President of the EC. Responsible for the Digital Agenda for Europe

http://europa.eu/rapid/press-release_SPEECH-12-149_en.htm

SOME GROUNDS

DIGITAL AGENDA FOR EUROPE

Pillar 1. Digital Single Market

Action 3: Open up public data resources for re-use

Why?

- Public Sector Information is **one of the single largest sources of information in Europe**.
- Estimated market value is **€32 billion**

One of the objectives: Amendment of **Directive 2003/98/EC on Public Sector Information (PSI) Reuse** (Directive 2013/37/EU)

DIRECTIVE ON THE RE-USE OF PSI

Directive 2003/98/EC

Encourages the Member States to make as much information held by public sector bodies available for reuse as possible

http://ec.europa.eu/digital-agenda/en/european-legislation-reuse-public-sector-information

REVISION OF THE PSI DIRECTIVE (2013/37/EU)

Creation of a **genuine right to re-use public information**: all generally accessible information will become re-usable (even for commercial purposes)

Only some public bodies are excluded

Firstly, national rules may **exclude access to sensitive information** (e.g., personal information, national security, defence, public security, statistical and commercial confidentiality)

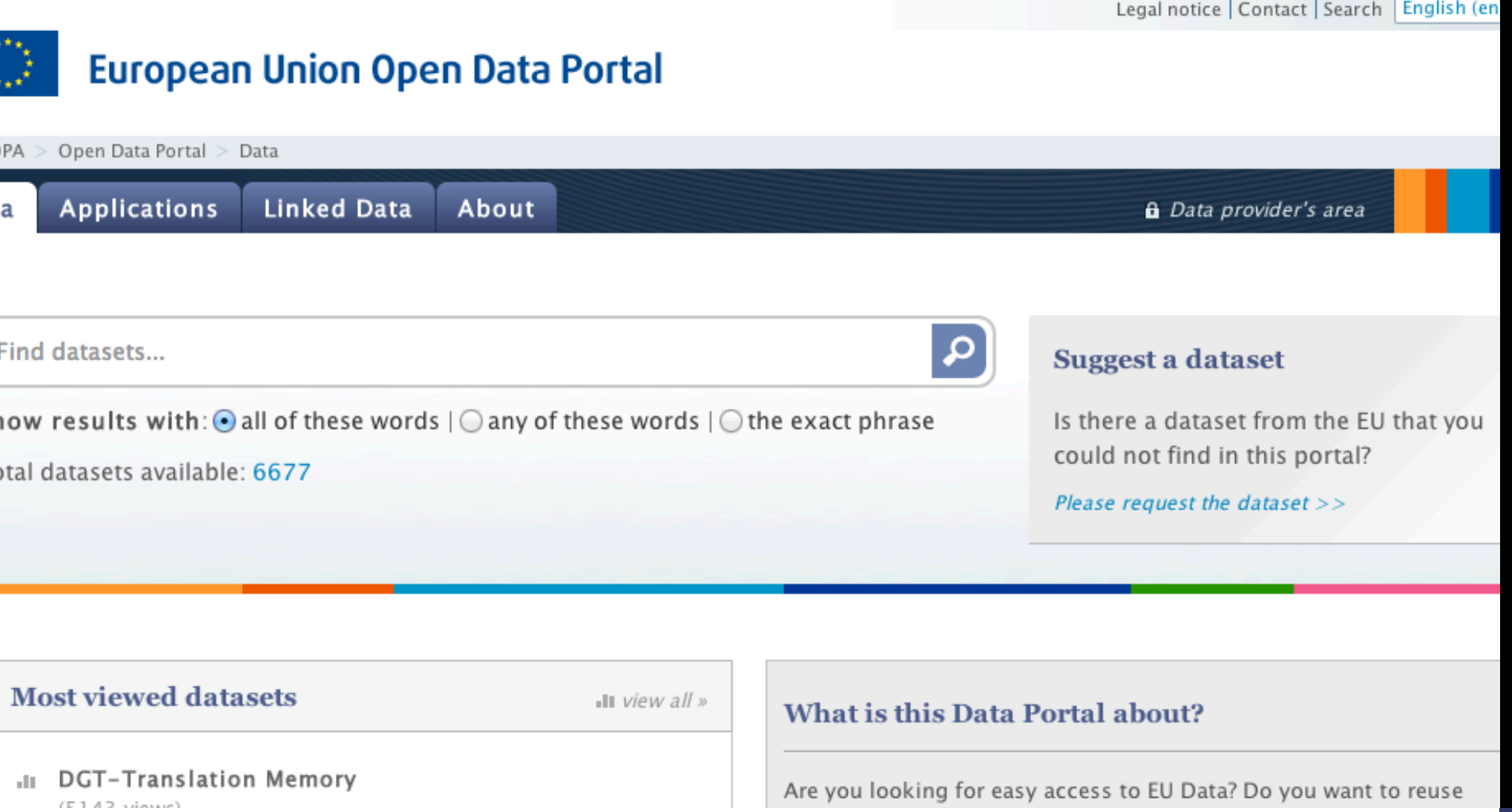
To be transposed into national laws **by July 2015**

ACTIONS

ACTION 3: OPEN UP PUBLIC DATA

Ongoing Actions:

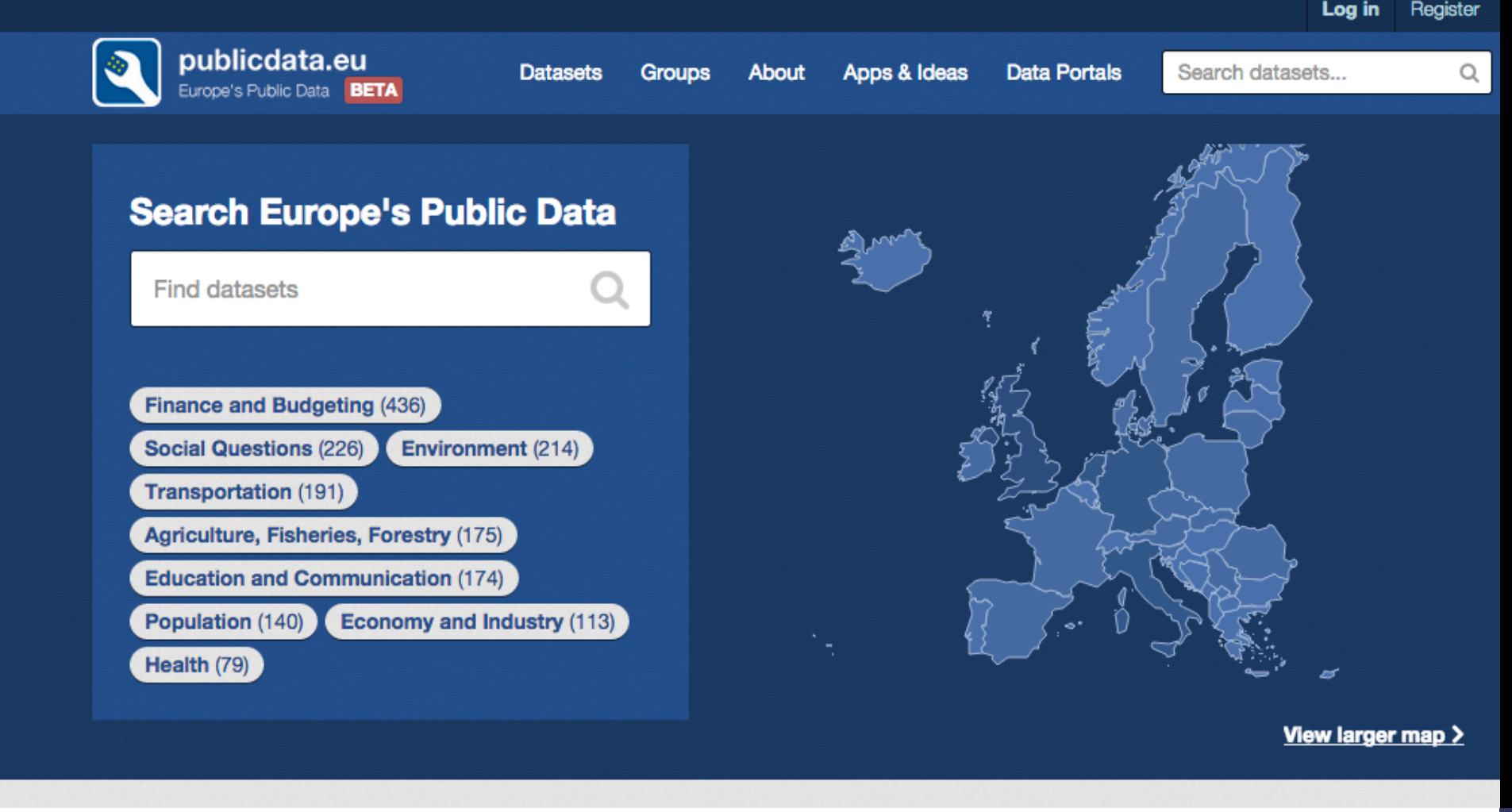
- Awareness-raising and promotional activities
- Networking across Europe to further stimulation (**ePSI Platform**, **Member States**, PSI Alliance, industrial associations, developers and open data communities)
- Bilateral and multilateral discussions with the MSs
- Set of guidelines on Open Data and the re-use of PSI



EU OPEN DATA PORTAL

Information from Institutions and other bodies of the European Union (EU)

http://open-data.europa.eu



PAN-EUROPEAN OPEN DATA PORTAL

Federation of Member States' Open Data catalogues (pilot be launch in 2015)

OPEN DATA SUPPORT

Training, consultancy, publishing services

https://joinup.ec.europa.eu/community/ods/description

SHARE PSI 2.0

Shared Standards for Open Data and Public Sector Information

EC's funded Thematic Network

40 Partners ⊃ ama

25 Countries

- **Identification of best practices**
- **Harmonise the implementation of the Revised PSI Directive**

3-4 December, Lisbon Workshop

https://www.w3.org/2013/share-psi/

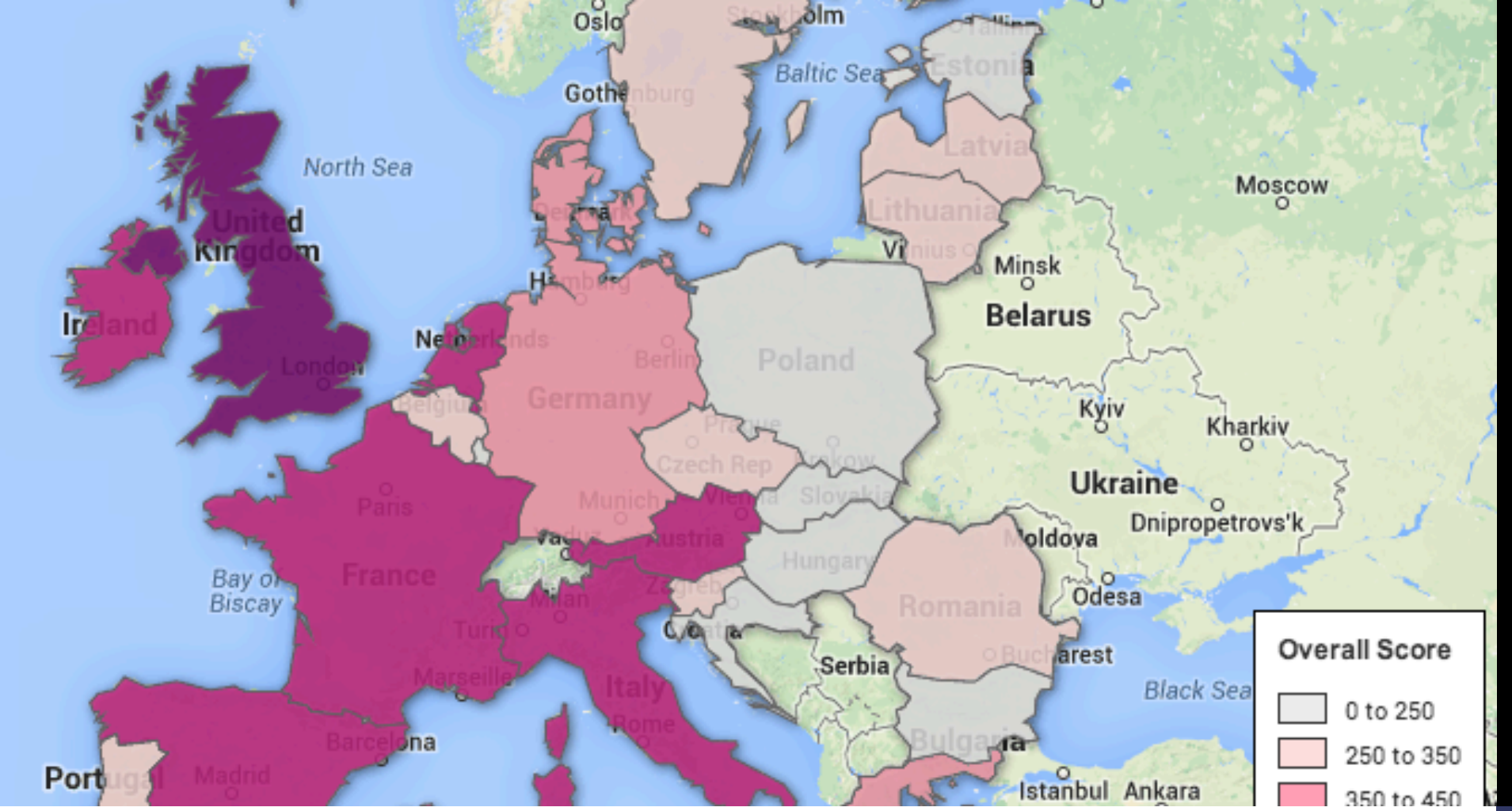
EPSI PLATFORM

European Public Sector Information Platform

Funded by the **European Commission**

Europe's One-Stop Shop on **PSI Re-use**

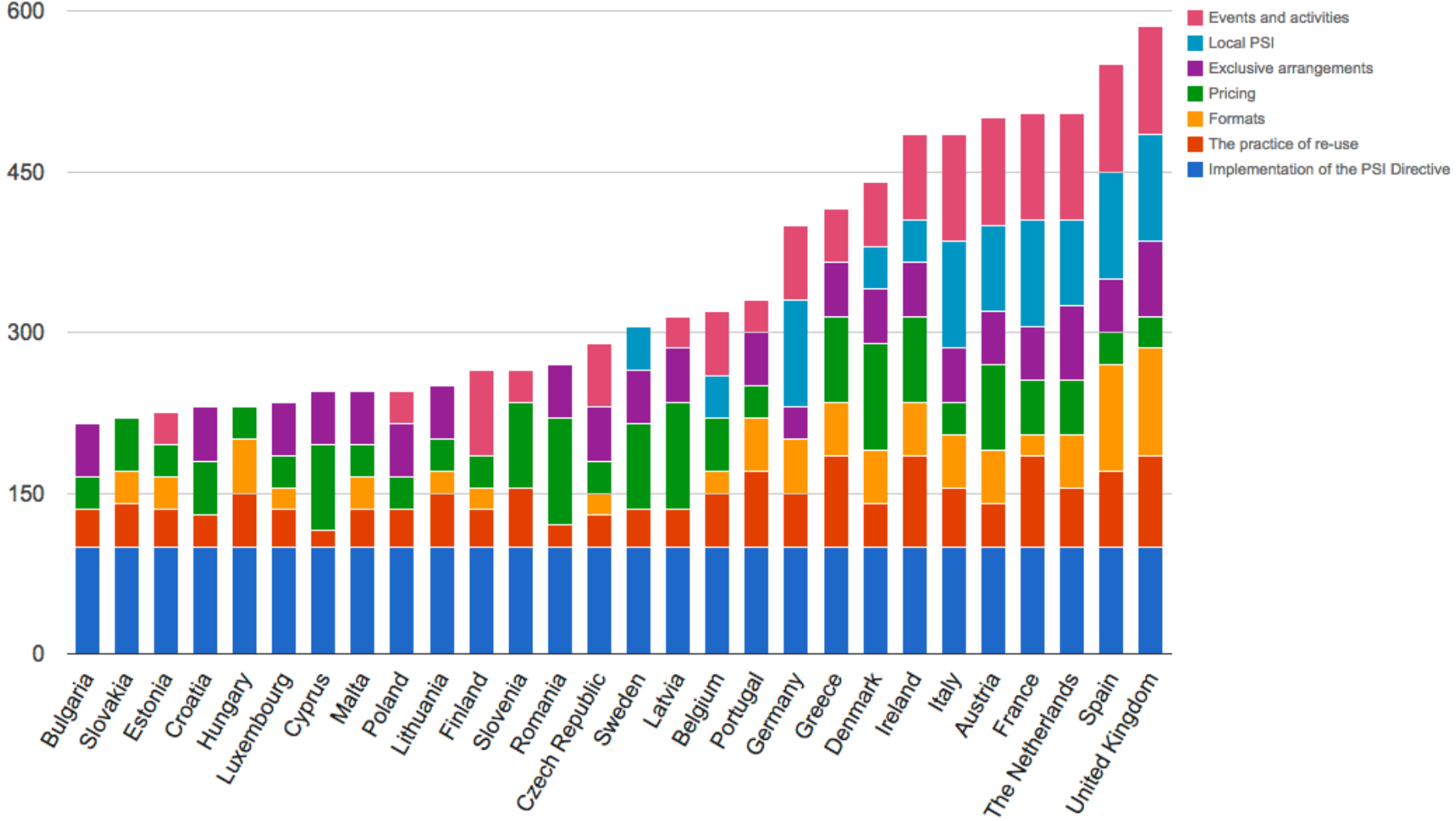
- News, happenings
- Best practices
- Engaging the community



PSI SCOREBOARD

Status of PSI in EU28

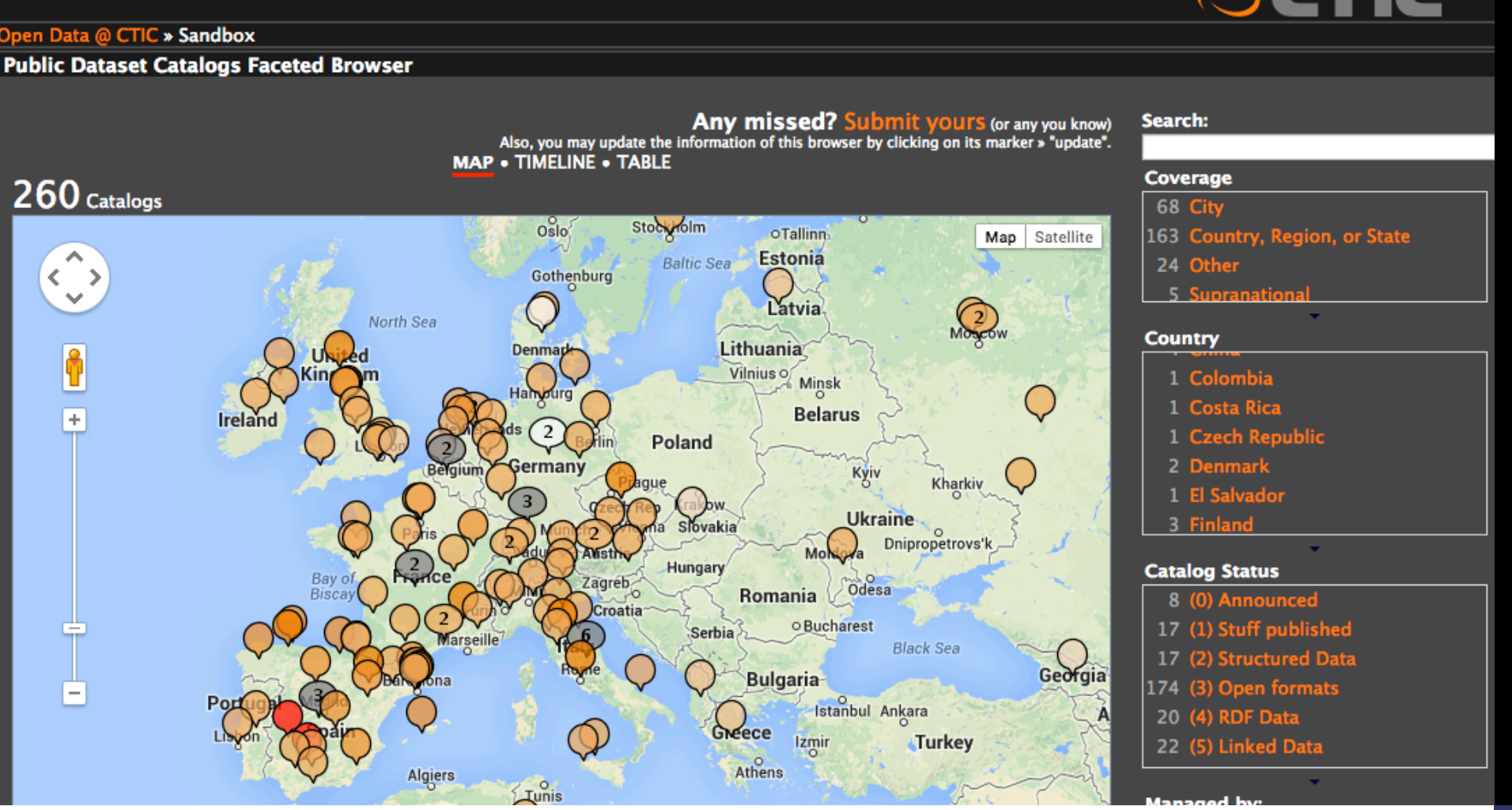
http://www.epsiplatform.eu/content/european-psi-scoreboard



PSI SCOREBOARD

Indicators to be reviewed this year

http://www.epsiplatform.eu/content/european-psi-scoreboard



#OPENDATA: MORE THAN A TREND

140+ Official Open Data Initiatives in Europe

http://datos.fundacionctic.org/sandbox/catalog/

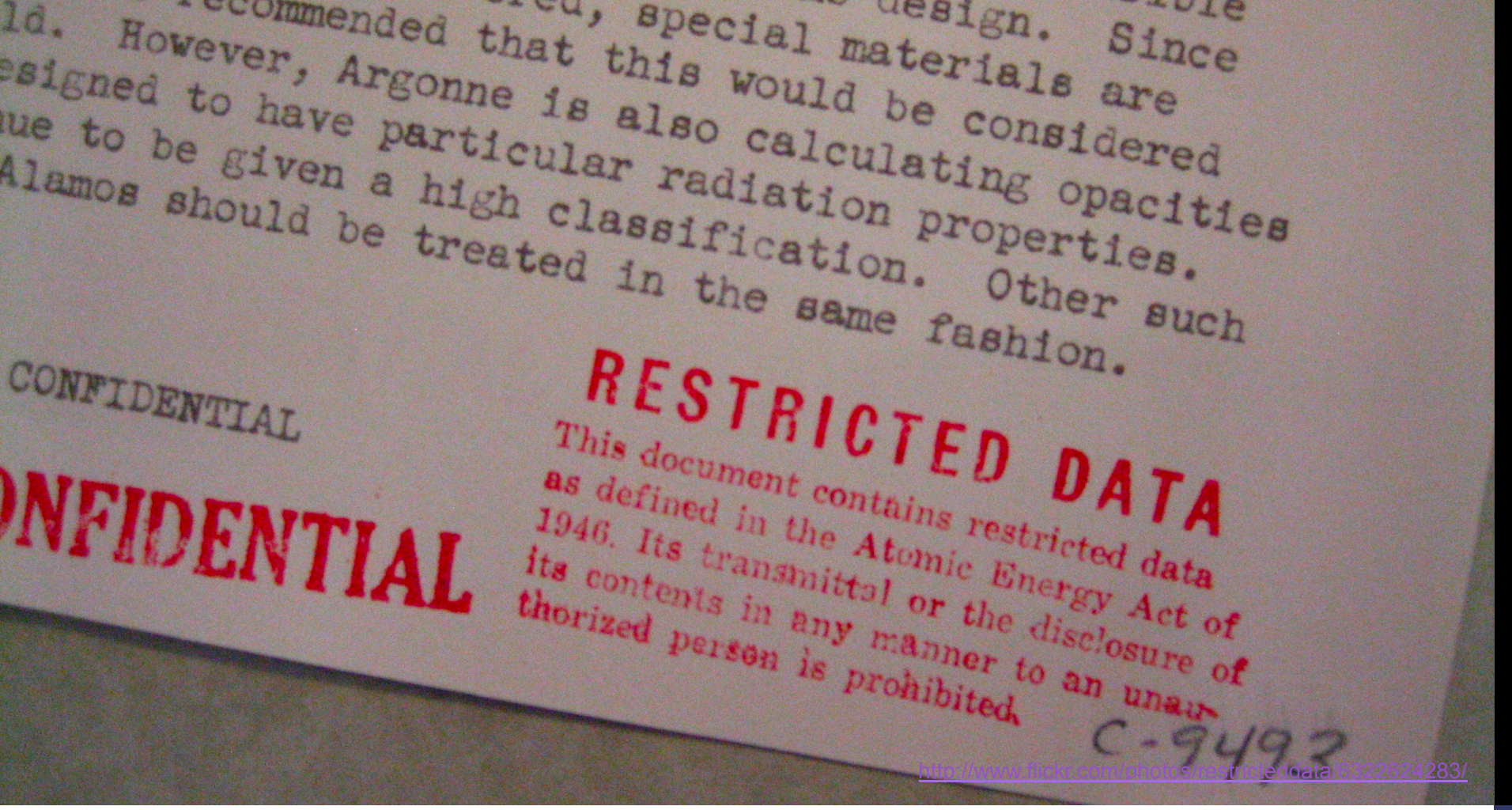
http://www.flickr.com/photos/duncan/3142128696/

A CHANGE IN GOVERNANCE

Governments committed to openness

OPEN DATA:
POLICY AND OPPORTUNITIES

WHY?



http://www.flickr.com/photos/restricteddata/6322624283/

OPEN (BETTER) GOVERNMENTS

Opening information to increase trust

WHY OPEN DATA AND PSI RE-USE?

Organizations (public & private) with *limited resources* looking for…

Innovation

Effectiveness

Productivity

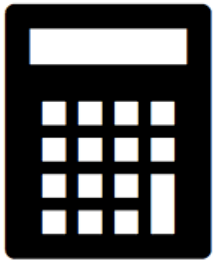
BENEFITS

TRANSPARENCY

BENEFITS

TRANSPARENCY

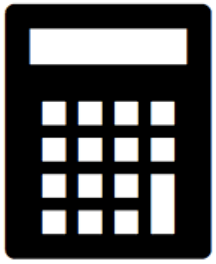
ACCOUNTABILITY



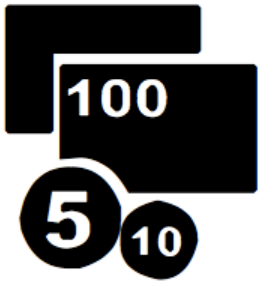
BENEFITS

TRANSPARENCY

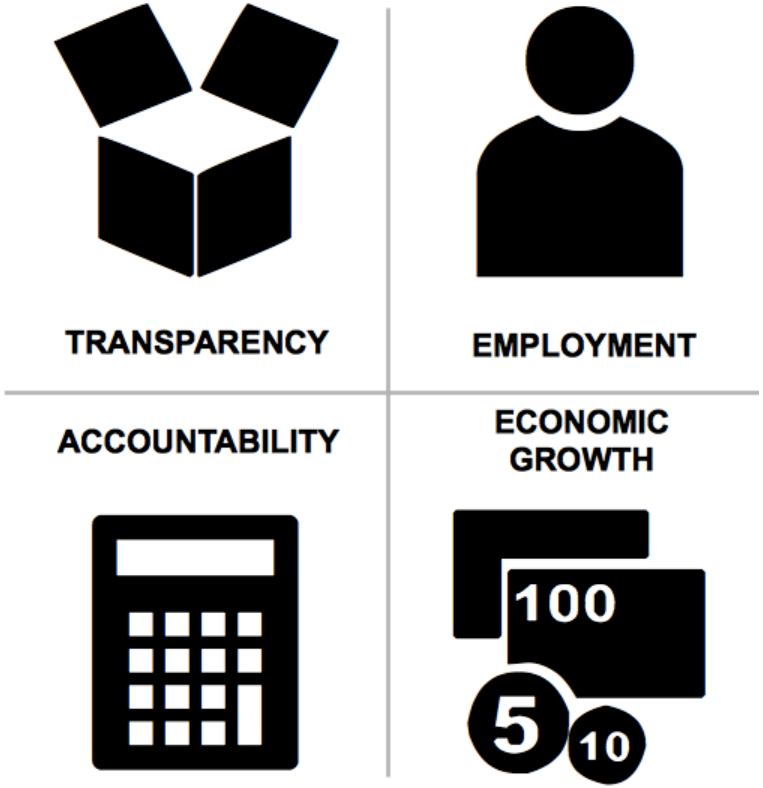
ACCOUNTABILITY



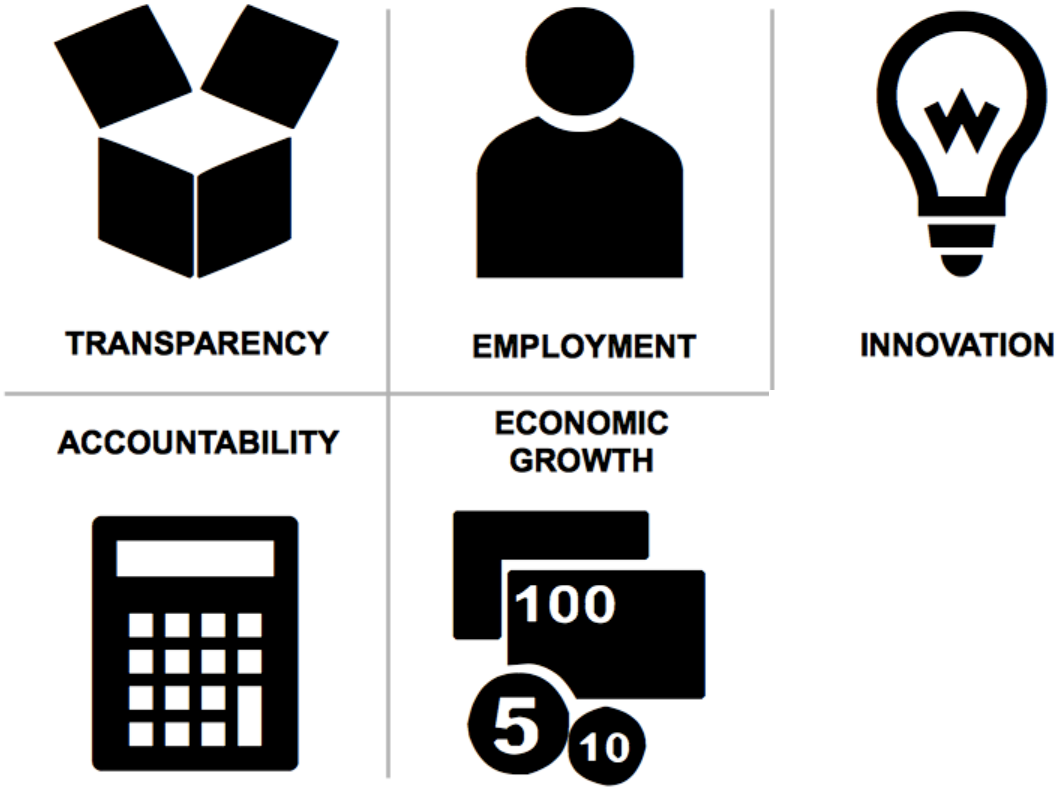
ECONOMIC GROWTH



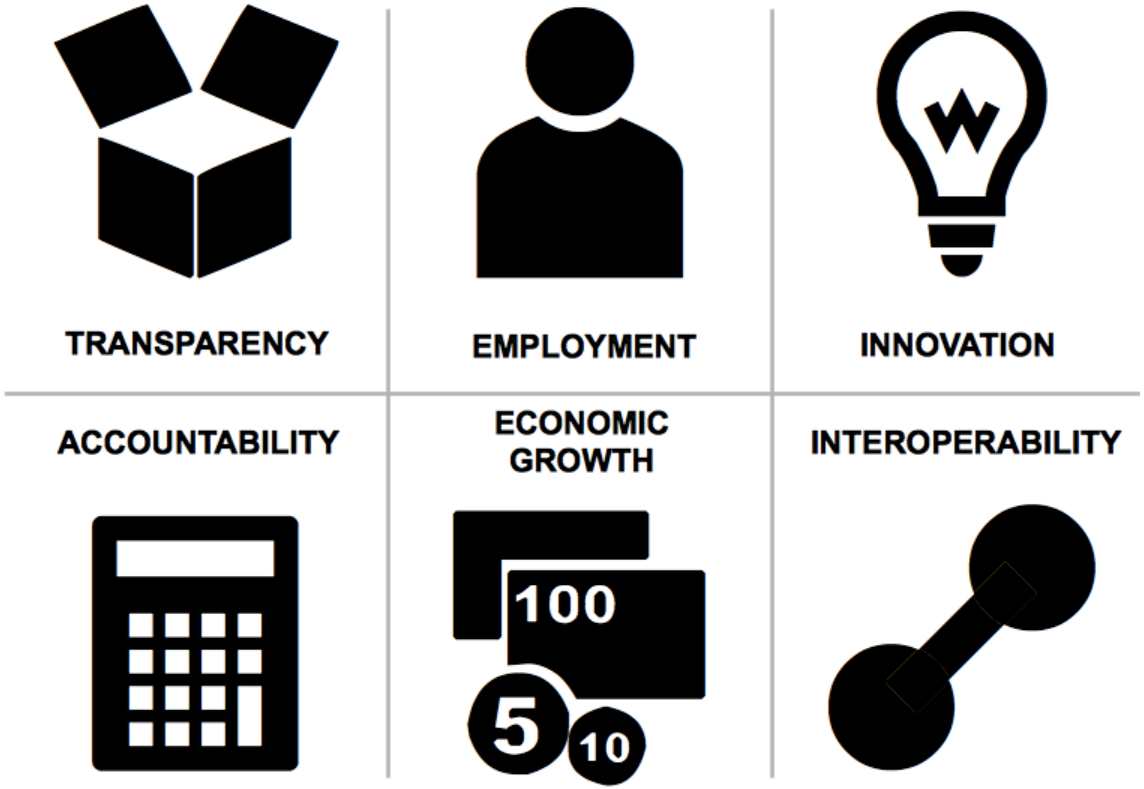
BENEFITS


TRANSPARENCY
EMPLOYMENT
ACCOUNTABILITY
ECONOMIC GROWTH
100
5
10

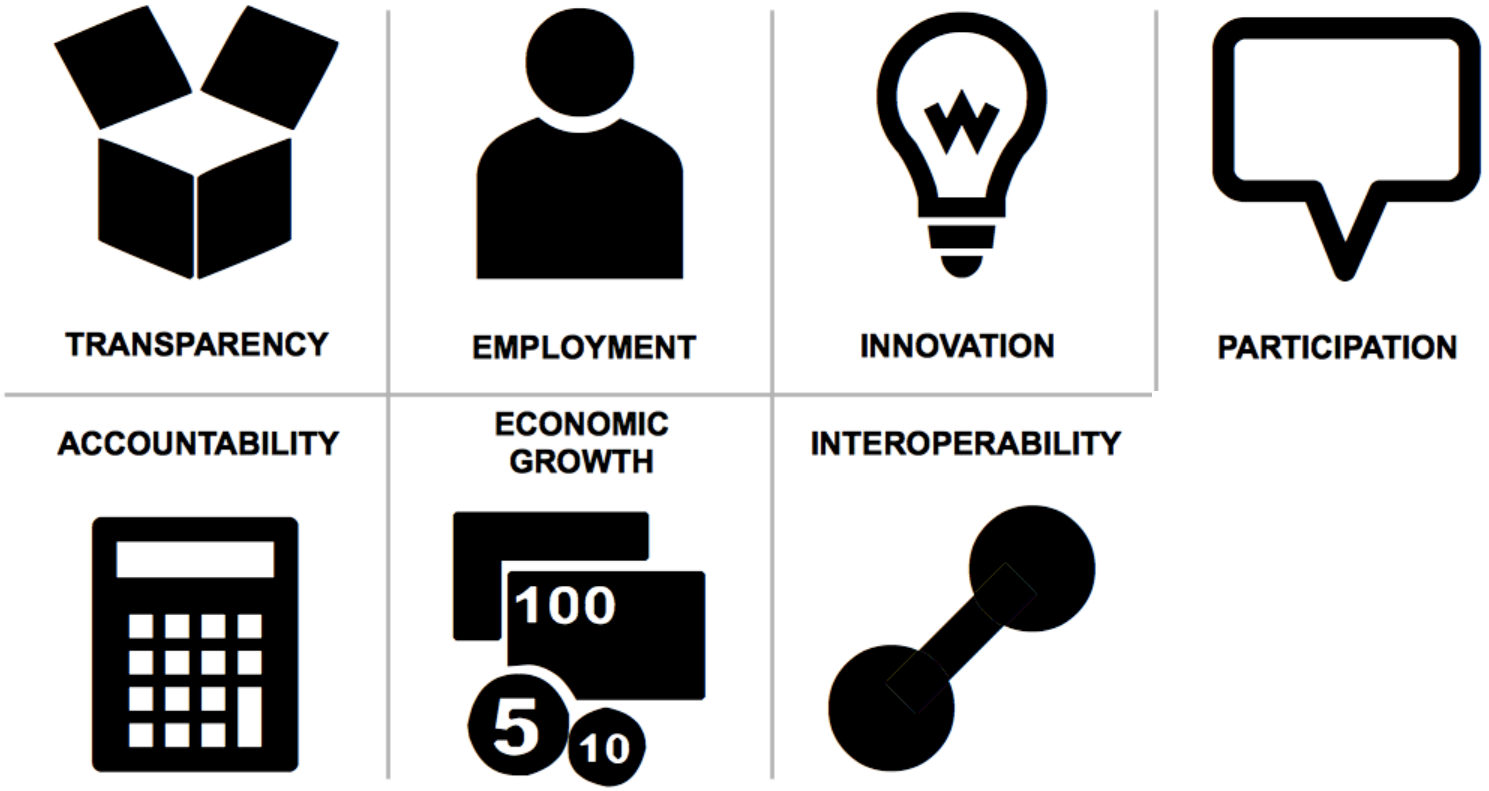
BENEFITS


TRANSPARENCY
EMPLOYMENT
INNOVATION
ACCOUNTABILITY
ECONOMIC GROWTH
100
5
10

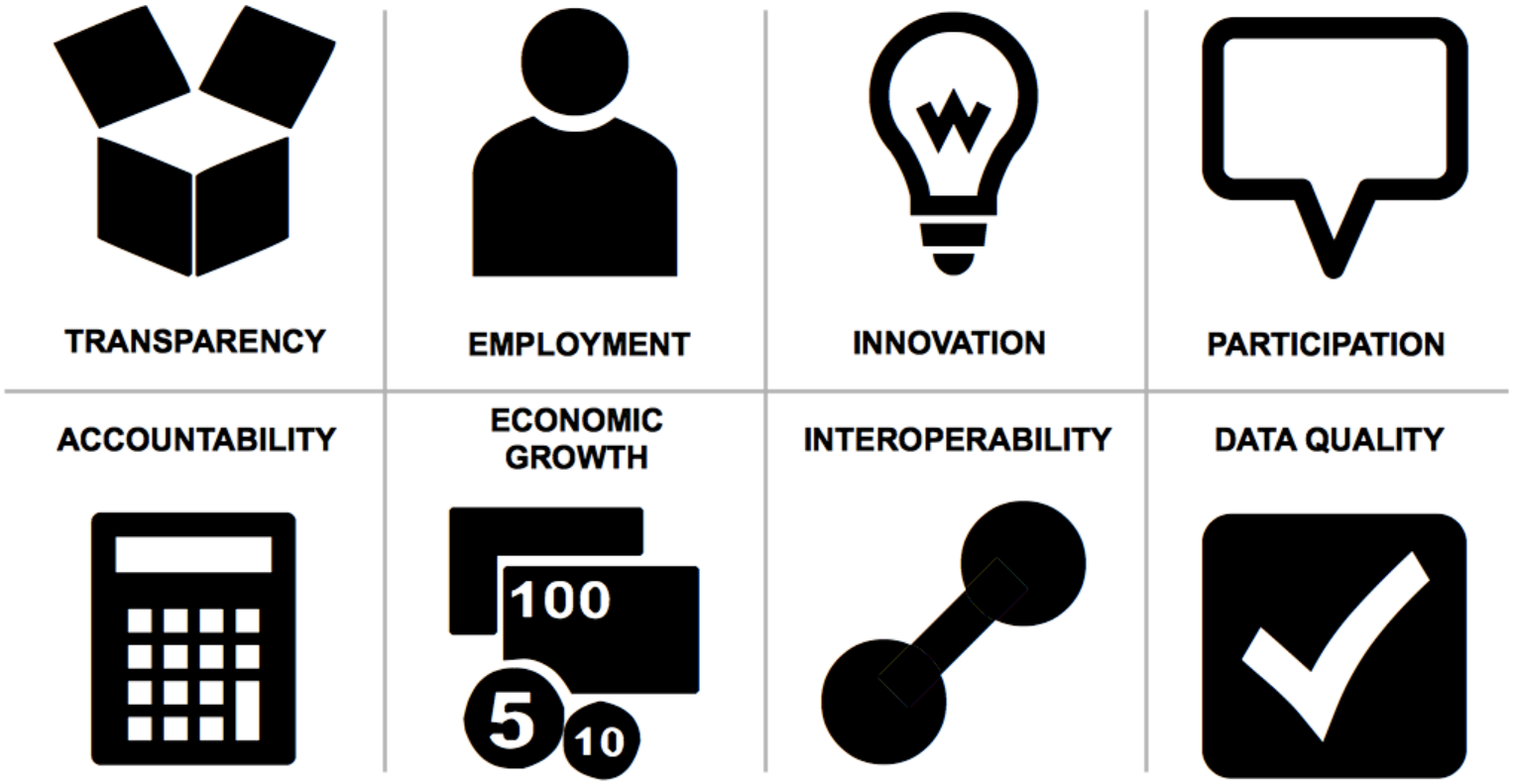
BENEFITS


TRANSPARENCY
EMPLOYMENT
INNOVATION
ACCOUNTABILITY
ECONOMIC GROWTH
INTEROPERABILITY
100
5
10

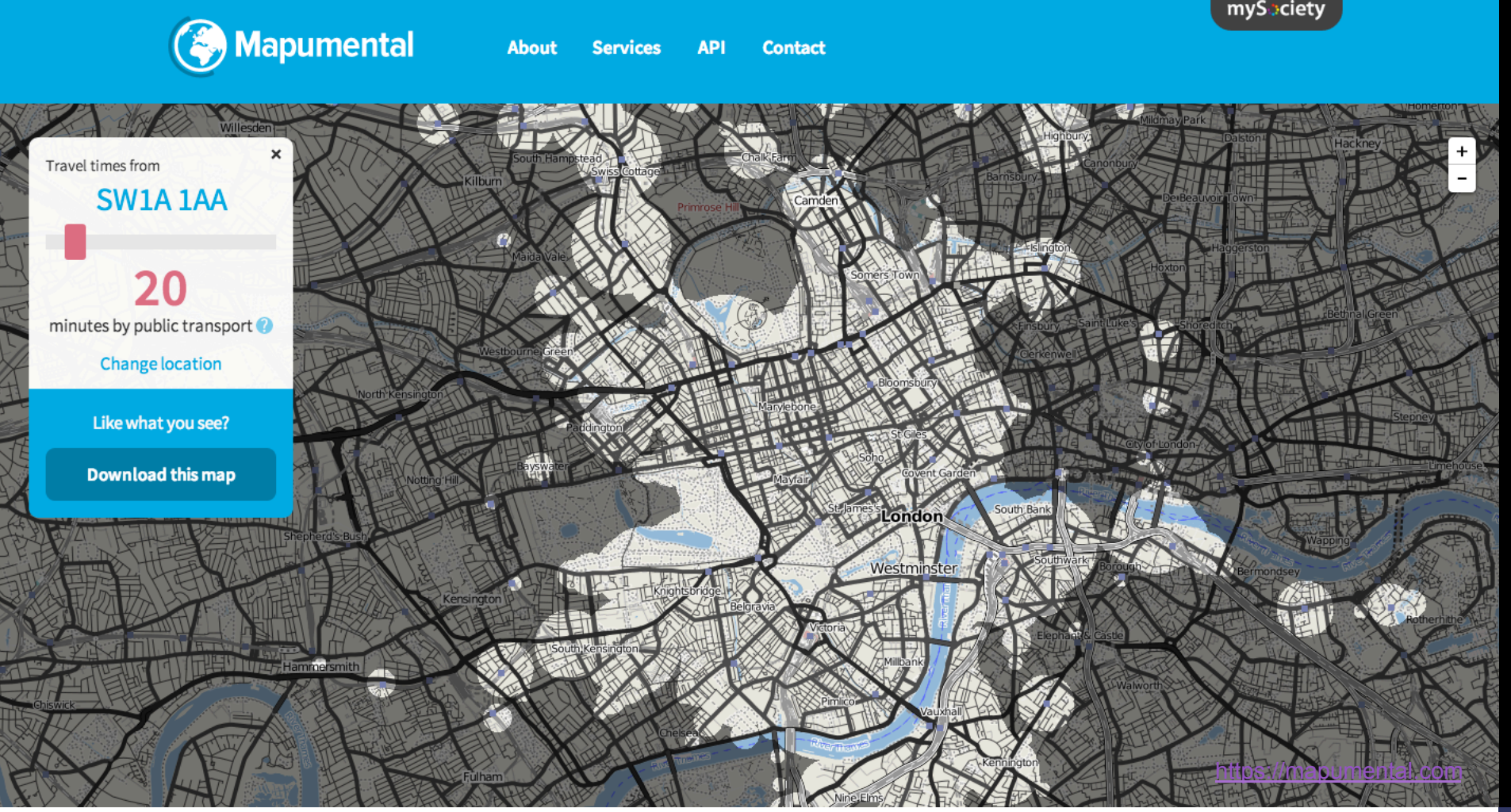
BENEFITS


TRANSPARENCY
EMPLOYMENT
INNOVATION
PARTICIPATION
ACCOUNTABILITY
ECONOMIC GROWTH
INTEROPERABILITY
100
5
10

BENEFITS

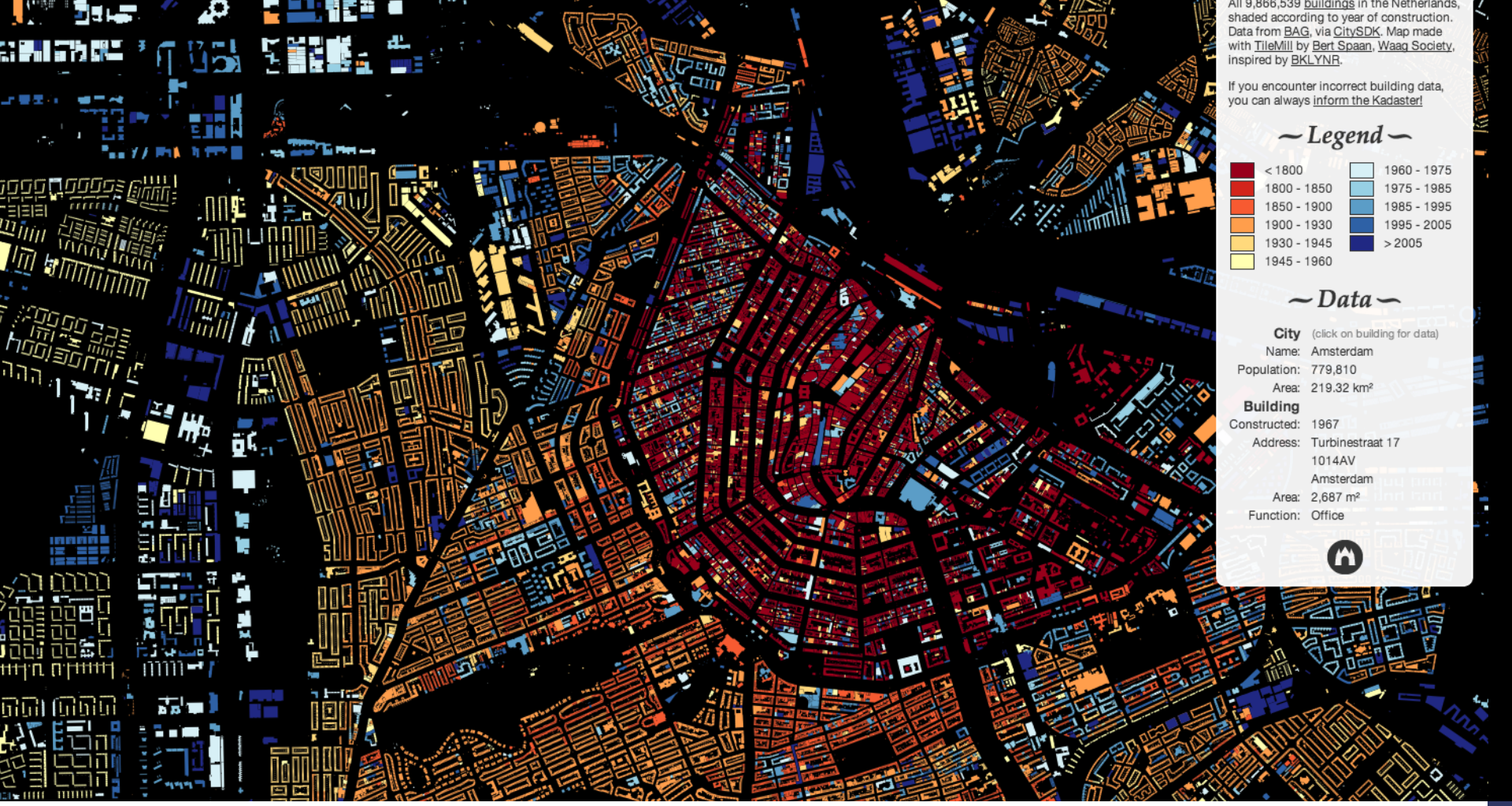

TRANSPARENCY
EMPLOYMENT
INNOVATION
PARTICIPATION
ACCOUNTABILITY
ECONOMIC GROWTH
INTEROPERABILITY
DATA QUALITY
100
5
10

LOTS OF GOOD EXAMPLES



WHERE TO BUY/RENT A PROPERTY?

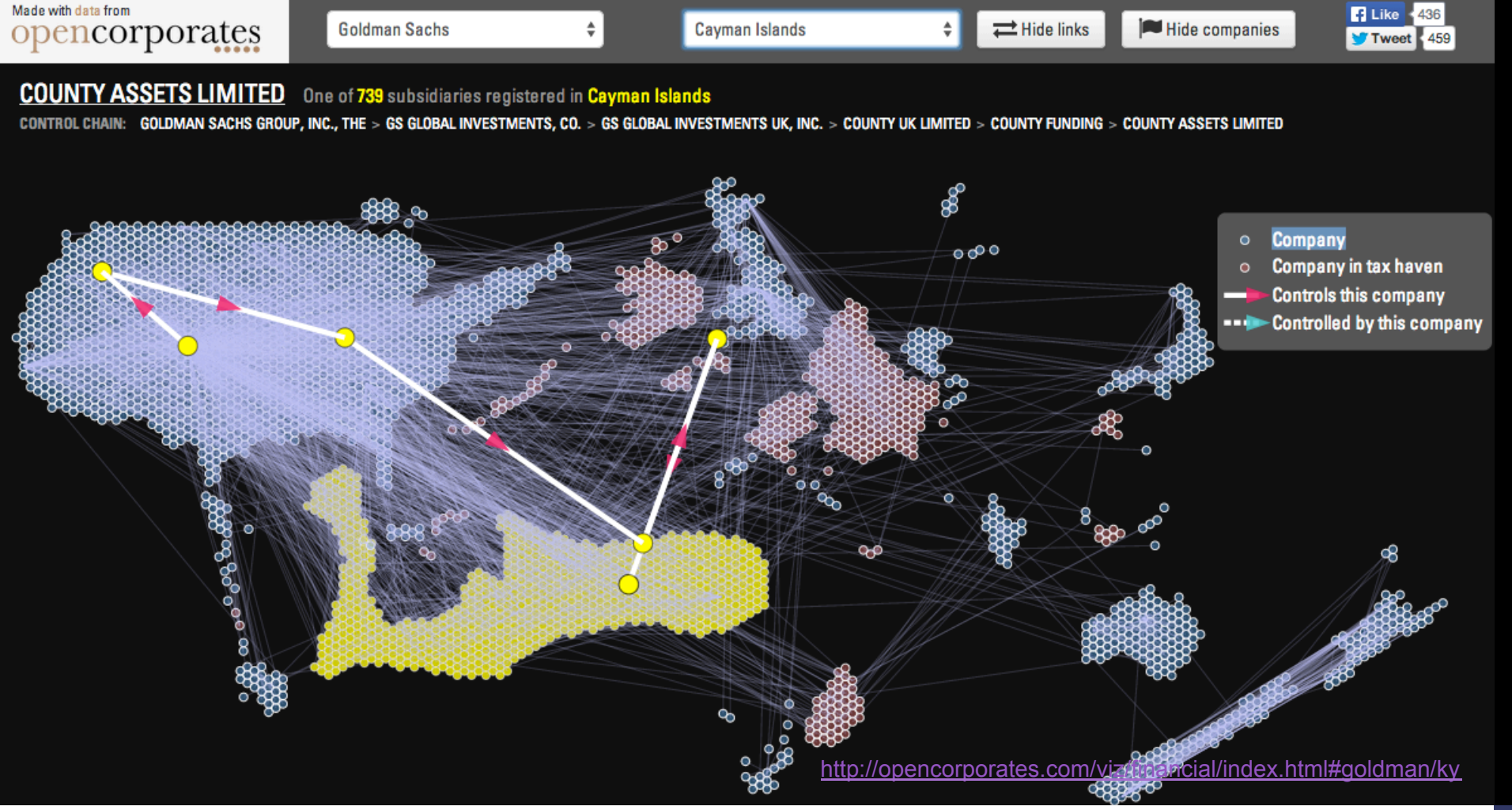
Public Transport accessibility maps + timing [+ properties]



APPEALING VISUALIZATIONS

New products, visualizations, services, apps…

http://dev.citysdk.waag.org/buildings/#52.3724,4.8774,14



ANTI-FRAUD VISUALIZATIONS

OpenCorporates gathers (and opens) information of 80m companies in the world

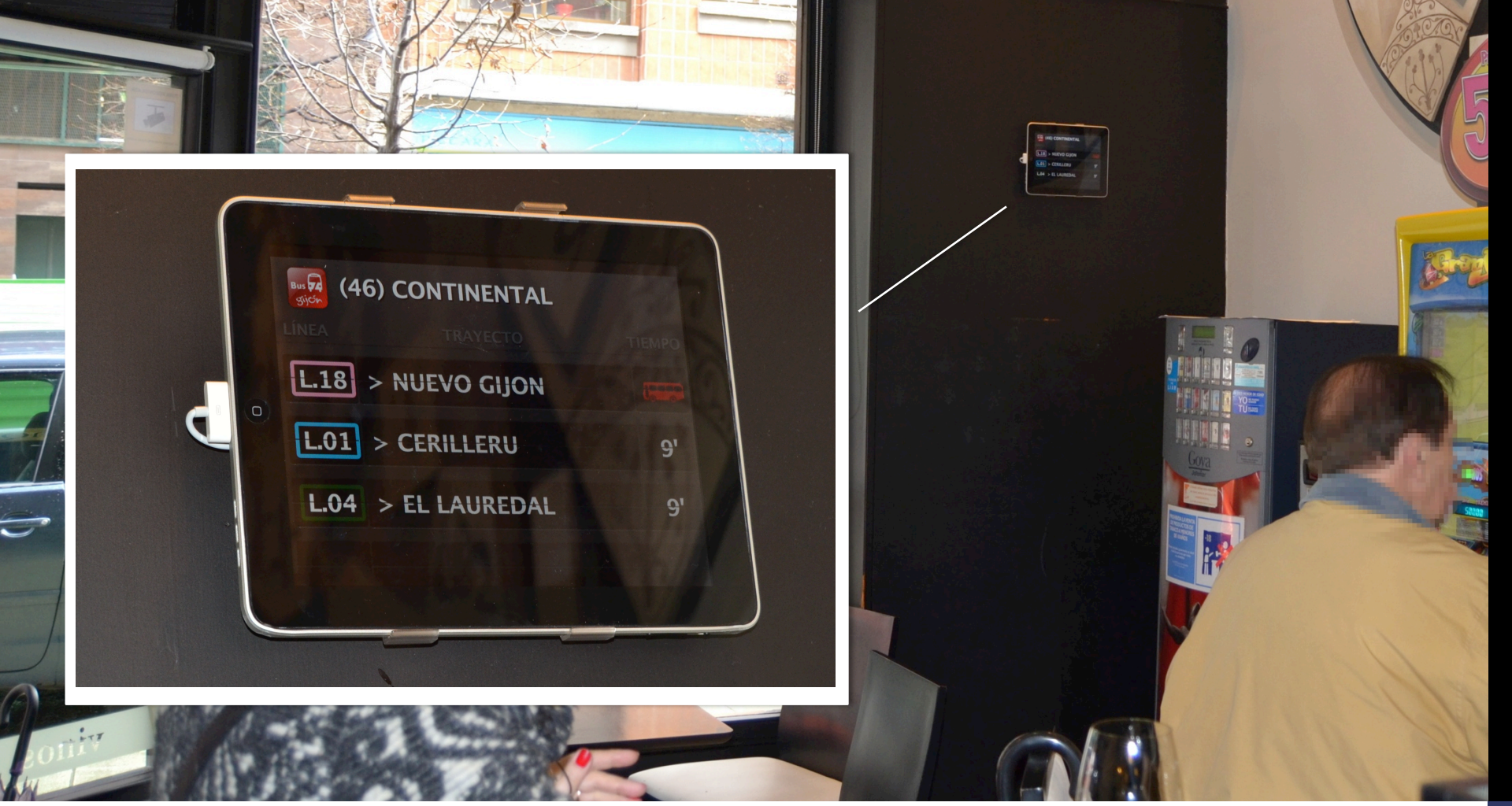
REUSES FOR BASIC NEEDS

Public transport information for citizens

ALSO FOR BUSINESSES

The same example in a bar in front of a bus stop

http://datos.fundacionctic.org/recursos/2014/05/transport_gijon_sharepsi.pdf



ALSO FOR BUSINESSES

The same example in a bar in front of a bus stop

http://datos.fundacionctic.org/recursos/2014/05/transport_gijon_sharepsi.pdf

EVEN REUSED BY PUBLIC BODIES

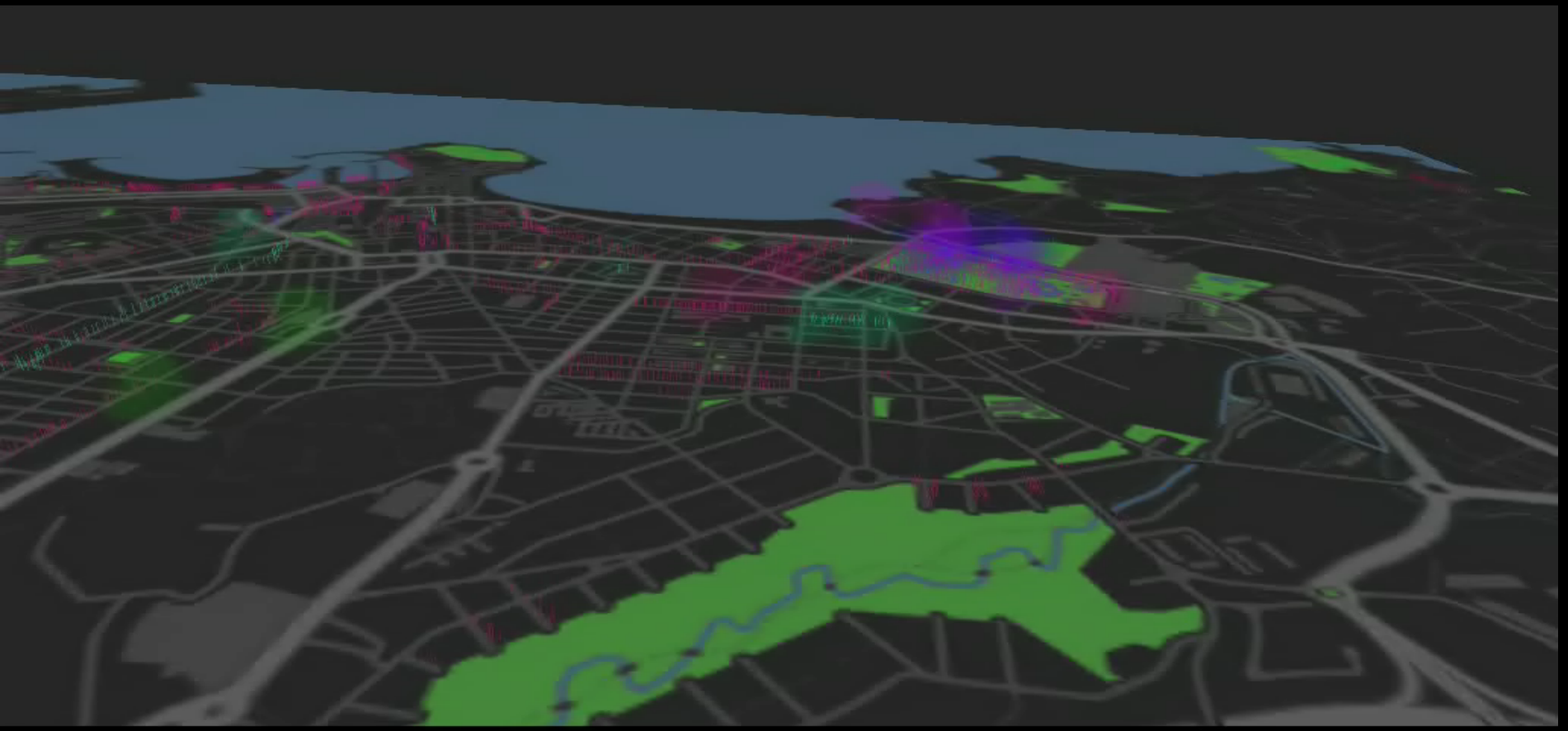
The same example, installed at public facilities

CULTURAL RESOURCES

The Duch National Museum already opens artworks under CC0 (public domain)

UNEXPECTED USES

https://www.rijksmuseum.nl

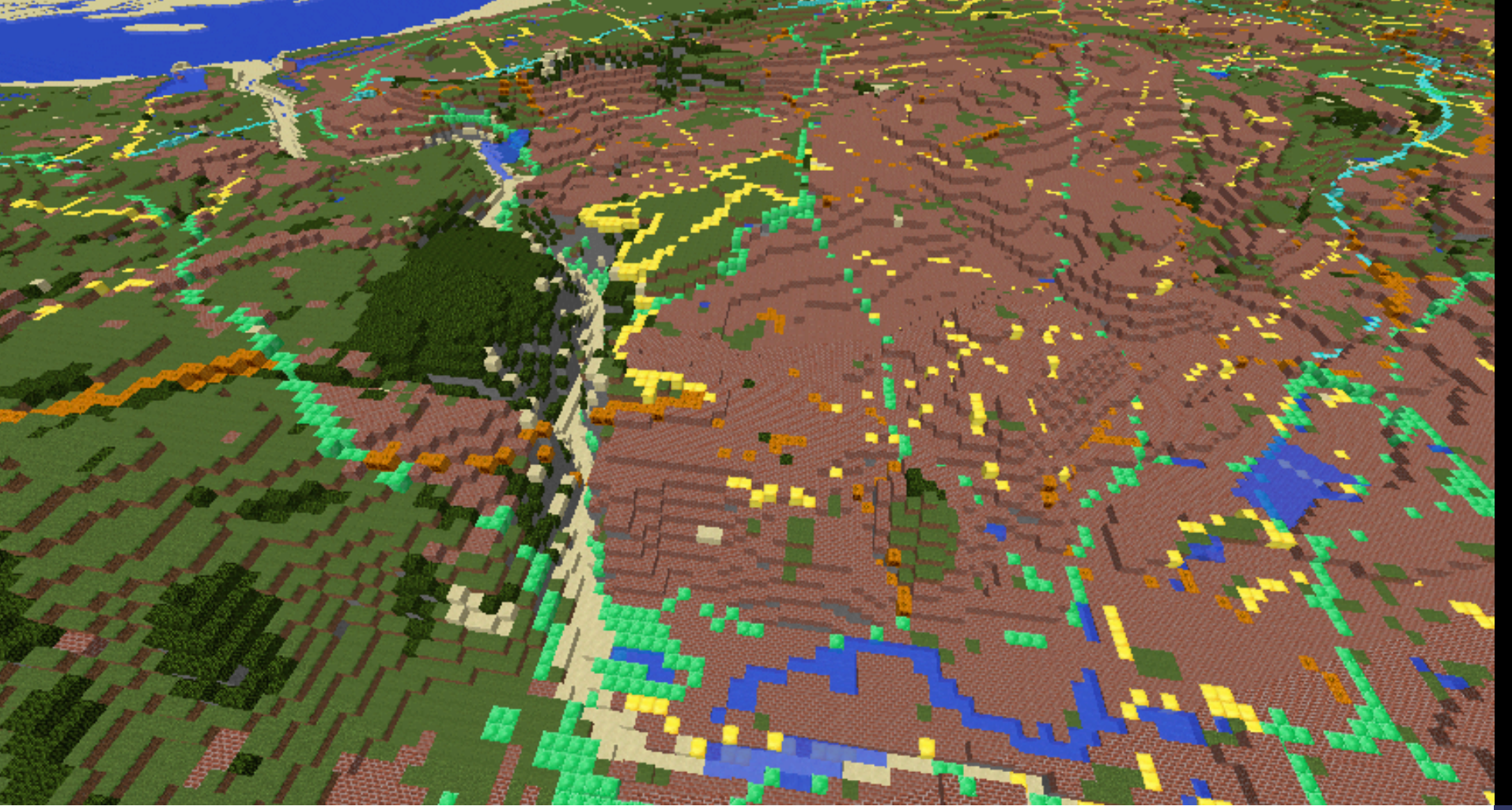


http://pollen.intheair.es

PSI REUSE AS ART

Levels of different pollen in the air

(Datasets: cartography, map of trees, pollen statistics)

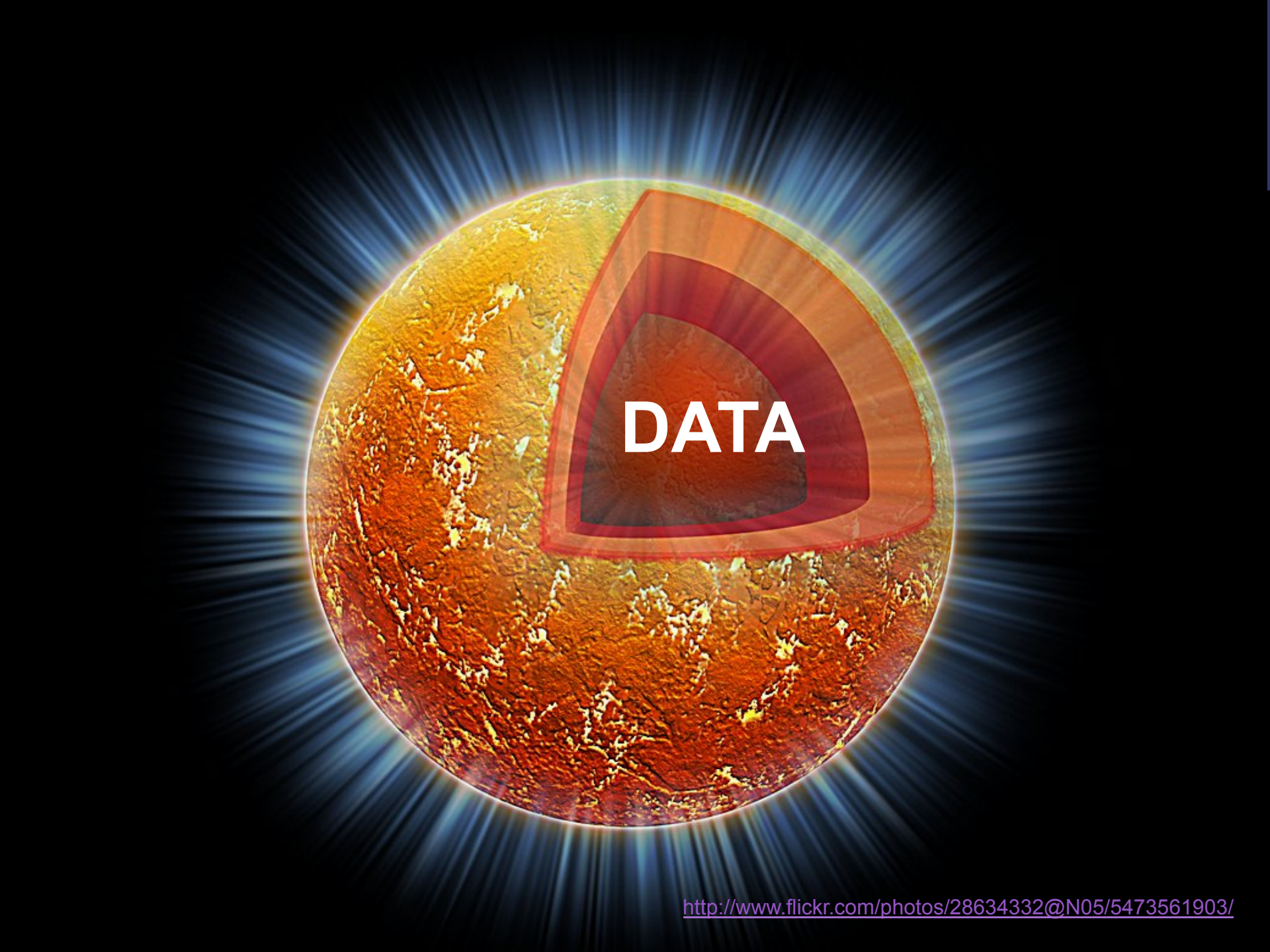


THE BEST IDEA COMES FROM OTHERS

Developers, designers, artists will do a creative use of data

http://www.ordnancesurvey.co.uk/innovate/developers/minecraft-map-britain.html

BUT, HOW?



http://www.flickr.com/photos/28634332@N05/5473561903/

G7 OPEN DATA CHAPTER

Basic Principles:

Open Data by Default

- Exceptions: intellectual property, personally-identifiable and sensitive information
- *Action Plan + Open Data portal*

EU implementation of the G8 Open Data Charter

G7 OPEN DATA CHAPTER

Basic Principles:

Open Data by Default

- Exceptions: intellectual property, personally-identifiable and sensitive information
- *Action Plan + Open Data portal*

Quality and Quantity

- Timely, comprehensive, accurate, original, finest level of granularity
- *Publication of consistent metadata + active listening*

EU implementation of the G8 Open Data Charter

G7 OPEN DATA CHAPTER

Basic Principles:

Open Data by Default

- Exceptions: intellectual property, personally-identifiable and sensitive information
- *Action Plan + Open Data portal*

Quality and Quantity

- Timely, comprehensive, accurate, original, finest level of granularity
- *Publication of consistent metadata + active listening*

Usable by All

- Free of charge, no bureaucratic or administrative barriers
- *Publication in open and non-proprietary formats*

EU implementation of the G8 Open Data Charter

G7 OPEN DATA CHAPTER

Basic Principles:

Open Data by Default

- Exceptions: intellectual property, personally-identifiable and sensitive information
- *Action Plan + Open Data portal*

Quality and Quantity

- Timely, comprehensive, accurate, original, finest level of granularity
- *Publication of consistent metadata + active listening*

Usable by All

- Free of charge, no bureaucratic or administrative barriers
- *Publication in open and non-proprietary formats*

Releasing Data for Innovation

- Open data promotion to unlock its value
- *Publication under open licences, machine-readable formats. Challenges, prizes.*

EU implementation of the G8 Open Data Charter

G7 OPEN DATA CHAPTER

Basic Principles:

Open Data by Default

- Exceptions: intellectual property, personally-identifiable and sensitive information
- *Action Plan + Open Data portal*

Quality and Quantity

- Timely, comprehensive, accurate, original, finest level of granularity
- *Publication of consistent metadata + active listening*

Usable by All

- Free of charge, no bureaucratic or administrative barriers
- *Publication in open and non-proprietary formats*

Releasing Data for Innovation

- Open data promotion to unlock its value
- *Publication under open licences, machine-readable formats. Challenges, prizes.*

Releasing Data for Improved Governance

- Transparent about our own data collection, standards, and publishing processes
- *Publication of technical details about open data policies, practices, etc.*

EU implementation of the G8 Open Data Charter

WHAT DATASETS? ALL...

Priorities for release strategic datasets

Geospatial data Postcodes, national and local maps (cadastral, topographic, marine, administrative boundaries, etc.)

Earth observation and Environment Space and in situ data (monitoring of weather, land and water quality, energy consumption, emission levels, etc.)

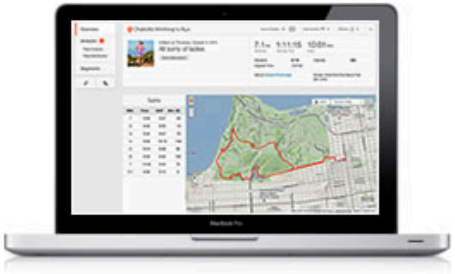
Transport data Public transport timetables (all modes of transport) at national, regional and local levels, road works, traffic information, etc.

Statistics National, regional and local statistical data with main demographic and economic indicators (GDP, age, health, unemployment, income, education, etc.)

Companies Company and business registers (lists of registered companies, ownership and management data, registration identifiers, balance sheets, etc.)

Other can be considered as high-value data

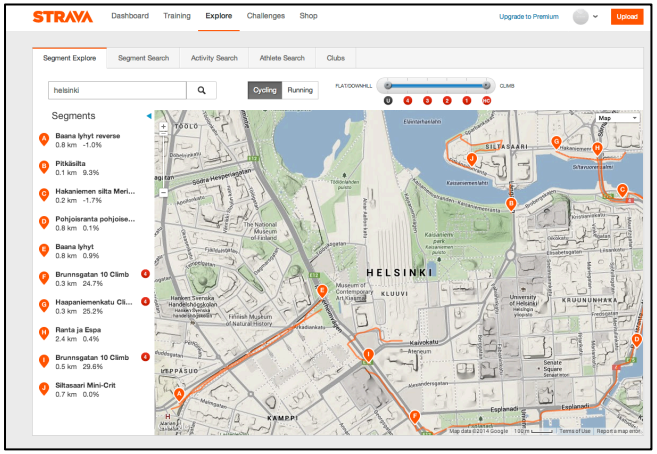
THE REAL VALUE OF DATA. STRAVA'S CASE



1 — Grab a GPS Device

2 — Go Out for a Run or Ride

3



THE REAL VALUE OF DATA. STRAVA'S CASE

Oregon Department of Transportation **paid $20,000 for a dataset** with activities of about 20,000 cyclists

BIG DATA will help ODOT make decisions about their **policies, plans**, and **projects**

http://bikeportland.org/2014/05/01/odot-embarks-on-big-data-project-with-purchase-of-strava-dataset-105375

REMEMBER... OPEN YOUR DATA

The best idea comes from others!!!

http://visualisingmillroad.com

THANK YOU!

martin@w3.org

http://epsiplatform.eu

info@epsiplatform.eu

GUIDELINES ON LICENSING

Use of **open standard licences** in **machine-readable** formats

Following the Open Definition: “Open data and content can be **freely used**, **modified**, and **shared** by anyone for **any purpose**”

If a **simple notice** is not enough, it is recommended using **attribution requirements only** (Example: Creative Commons - BY)

GUIDELINES ON CHARGING

Policy of **lowering charges**

Public sector bodies may charge **no more than the marginal cost** (i.e. reproducing, providing and disseminating the documents)

Some exceptions (cost recovery in certain cases)

(Economic analysis of PSI impacts)