

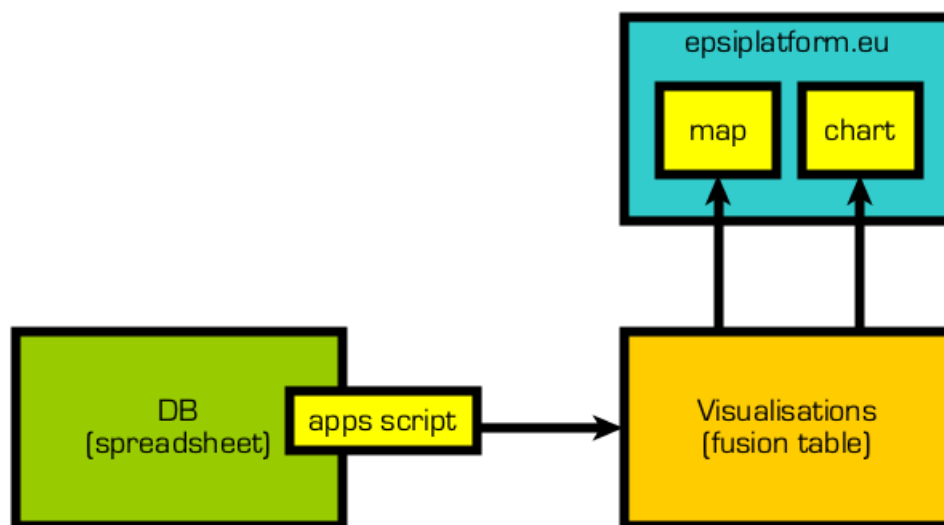
The ePSI Platform Scoreboard in Depth

In brief, the [ePSI Scoreboard](#) is a ranking of countries based on indicators that measures the healthy of PSI re-use in the EU28 Member States. This tool [was updated](#) in 2013 with the objective of making it fully crowd sourced and transparent.

The update of the system also enabled new appealing visualisations, enabling the possibility to reuse them into external websites. Also, following the open data paradigm the database is completely open to the public. This post exposes the ins and out of this popular tool.

The architecture

The ePSI Scoreboard has a simple architecture, composed of two main pieces: *database*, and *visualisation module*. The database is a Google Sheet that sends its information to the visualisation engine, a Fusion Table that allows us to include charts and maps in epsiplatform.eu.



Both modules, the spreadsheet and visualisations are independent, and the information is synchronised eventually, using a script for that. Read more details about these pieces below.

The Database

The [database](#) is an open Google Spreadsheet that is visible to everyone. Anyone is able to comment on any cell, edition was restricted. Only the ePSI Platform team members had the permissions to change values in the different sheets of the document. The main reason for this was just to avoid spam.

The database has different sheets:

The first one, [Nations](#), contains an overview of the scoreboard, with all the Member States and their detailed scores. This sheet is protected and nobody can modify it. Values are automatically calculated through formulas that pick information from the country tabs.

Country	Type	Overall Score	Implemented of the PSI Directive	The practice of re-use	Formats	Pricing	Disclosure regime	Local PSI	Events and activities
Austria	Member State	500	100	40	80	50	50	80	100
Belgium	Member State	360	100	50	20	50	0	40	100
Bulgaria	Member State	165	0	55	30	30	50	0	0
Croatia	Member State	380	100	50	80	50	50	0	50
Cyprus	Member State	365	100	65	50	100	50	0	0
Czech Republic	Member State	310	100	30	20	30	50	0	80
Denmark	Member State	440	100	40	50	100	50	40	60
Estonia	Member State	380	0	100	70	100	50	0	60
Finland	Member State	390	0	80	80	50	0	80	100
Former Yugoslav Republic of Macedonia	Candidate Member State	0							
France	Member State	435	0	85	50	50	50	100	100
Germany	Member State	400	100	50	50	0	30	100	70
Greece	Member State	520	100	100	80	80	50	40	70
Hungary	Candidate Member State, EFTA-State	300	100	50	50	30	0	40	30
Iceland	Candidate Member State, EFTA-State	0							
Ireland	Member State	485	0	85	80	80	50	40	100
Italy	Member State	485	100	55	50	30	50	100	100
Latvia	Member State	315	100	35	0	100	50	0	30
Liechtenstein	EFTA-State	0							
Lithuania	Member State	180	0	50	20	30	50	0	30
Luxembourg	Member State	135	0	35	20	30	50	0	0
Malta	Member State	335	100	55	80	50	50	0	0
Montenegro	Candidate Member State	0							
Norway	EFTA-State	0							
The Netherlands	Member State	505	100	55	50	50	70	80	100
Poland	Member State	370	0	70	50	80	50	40	80
Portugal	Member State	260	0	70	50	30	50	0	60
Romania	Member State	435	100	55	30	100	50	0	100
Slovakia	Member State	280	0	20	70	50	50	40	50
Slovenia	Member State	170	0	70	20	80	0	0	0
Spain	Member State	550	100	70	100	30	50	100	100
Sweden	Member State	305	100	35	0	80	50	40	0
Switzerland	EFTA-State	0							
Turkey	Candidate Member State	0							
United Kingdom	Member State	585	100	85	100	30	70	100	100
Average Country	NO STATE		60.71	58.57	50.00	56.07	43.57	37.86	59.84
Maximum value			100	100	100	100	70	100	100

The second, [Framework](#), contains a template with all indicators and sub-indicators, with the specific rationale for each one. This tab acts as self-documentation of the PSI Scoreboard database. There are other 28 tabs —one per EU Member State— with the same indicators detailed in the Framework but with values relative to each country. Scores referred to indicators must be justified with a proof (URL or reference).

Indicator	Points	Evidence	Score	Rationale
1.1	0%	are awarded when the PSI Directive is not transposed, or the Member State is currently involved in an infringement procedure	0	Infringement procedures, Court documents
1.2	50%	are awarded when the PSI Directive is transposed correctly and the MS is not involved in any infringement procedures regarding the PSI Directive	50	[CHAPTER 546 of the Laws of Malta] http://justiceervices.gov.mt/DownloadDocument.aspx?appid=1&temid=1240561
1.3	10%	are awarded when the MS has transposed the PSI Directive, without incorporating any exceptions in the national legal framework granted to any of the main institutions that produce PSI (Meteo data, Traffic data, Cadastral Data, Company Data (Chambers of Commerce), Judicial Data (both court cases and laws)) concerned with the provisions of the PSI Directive	50	No exceptions found
2.1	20%	are awarded when National law forces PSB's to allow Access and Re-use of all non-personal data by all.	20	A public sector body shall allow the re-use of public sector information in full compliance with the protection of personal data in accordance with the provisions of the Access to Information Act.
2.2	15%	are awarded when National law does not distinguish between commercial and non-commercial (and other types of) re-use.	15	Art 7: Subject to article 8, public sector bodies shall ensure that documents to which applies in accordance with article 3 shall be re-usable for commercial or non-commercial purposes in accordance with the conditions set out in this Act.
2.3	15%	are awarded when The Member State has implemented a redress procedure that can be invoked if a request for re-use is denied	0	No redress procedure/independent institution
2.4	15%	are awarded when National law forces PSB's to publish all eligible datasets pro-actively, not just on request	0	Data only available on request
2.5	15%	are awarded when National government supports exactly one standard licensing model	0	[...] such conditions shall be imposed through a licence [...] but not just one
2.6	20%	are awarded when National government showcases the availability of Datasets through a National Data Catalog	20	http://data.gov.mt
3.1	20%	are awarded when National government policy officially supports raw data published in Open Formats	20	Art 13. Where possible and appropriate, a document shall be made available for re-use in machine readable format together with their metadata. Both the format and the metadata shall, in so far as possible, comply with formal open standards.
3.2	30%	are awarded when National Law demands that raw PSI is delivered in an Open Format	30	Art 13. Where possible and appropriate, a document shall be made available for re-use in machine readable format together with their metadata. Both the format and the metadata shall, in so far as possible, comply with formal open standards.
3.3	20%	are awarded when National government policy officially supports Linked Data	0	No official support of Linked Data
3.4	30%	are awarded when National data catalogue is represented in machine-readable formats	30	http://www.openstatamalta.org/scan/dataset
4.1	30%	are awarded when National government policy officially supports a PSI-pricing mechanism based on a cost-recovery model	0	
4.2	50%	are awarded when National government policy officially supports a PSI-pricing mechanism based on a marginal cost model	50	Art. 15. (1) A public sector body may charge a fee to an applicant for the provision of a document, subject to any rules issued under this Act. Provided that any charges for the provision of a document shall be limited to the marginal costs incurred by the provider, in

The Visualisations

The database is visualised on various intuitive maps and charts. Countries and their scores are represented through different visualizations mechanisms of Google Fusion Tables.

The scores shown in the *Nations* tab of the spreadsheet are copied into a fusion table that will serve the visualisations embedded within psiplatform.eu.

ePSI Scoreboard Visualization
 Scoreboard to measure the health of Open Data and PSI reuse in the EU28 Member States.
 ePSI Platform Scoreboard - Source Data - Edited at 10:56 AM

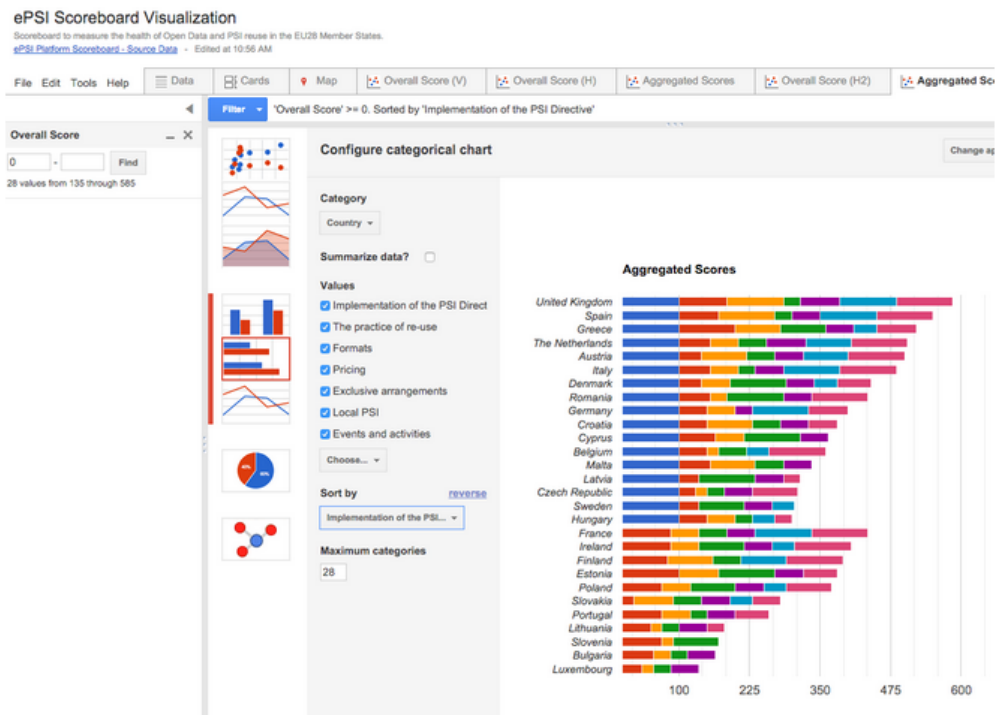
File Edit Tools Help Data Cards Map Overall Score (V) Overall Score (H) Aggregated Scores Overall Score (H2) Aggregated Scores

Filter No filters applied

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Country	Overall Score	Implementation ...	The practice ...	Formats	Pricing	Exclusive arr...	Local PSI	Events and a...	Region
Austria	500	100	40	80	50	50	80	100	Western Europe
Belgium	360	100	50	20	50	0	40	100	Western Europe
Bulgaria	165	0	55	30	30	50	0	0	Eastern Europe
Croatia	380	100	50	80	50	50	0	50	Southern Europe
Cyprus	365	100	65	50	100	50	0	0	Southern Europe
Czech Republic	310	100	30	20	30	50	0	80	Eastern Europe
Denmark	440	100	40	50	100	50	40	60	Northern Europe
Estonia	380	0	100	70	100	50	0	60	Eastern Europe
Finland	390	0	80	80	50	0	80	100	Northern Europe
France	435	0	85	50	50	50	100	100	Western Europe
Germany	400	100	50	50	0	30	100	70	Western Europe
Greece	520	100	100	80	80	50	40	70	Southern Europe
Hungary	300	100	50	50	30	0	40	30	Eastern Europe
Ireland	405	0	85	50	80	50	40	100	Northern Europe
Italy	485	100	55	50	30	50	100	100	Southern Europe
Latvia	315	100	35	0	100	50	0	30	Eastern Europe
Lithuania	180	0	50	20	30	50	0	30	Eastern Europe
Luxembourg	135	0	35	20	30	50	0	0	Western Europe
Malta	335	100	55	80	50	50	0	0	Southern Europe
Poland	370	0	70	50	80	50	40	80	Eastern Europe
Portugal	260	0	70	50	30	50	0	60	Southern Europe
Romania	435	100	55	30	100	50	0	100	Eastern Europe
Slovakia	280	0	20	70	50	50	40	50	Eastern Europe
Slovenia	170	0	70	20	80	0	0	0	Western Europe
Spain	550	100	70	100	30	50	100	100	Southern Europe
Sweden	305	100	35	0	80	50	40	0	Northern Europe
The Netherlands	505	100	55	50	50	70	80	100	Western Europe
United Kingdom	585	100	85	100	30	70	100	100	Northern Europe

This fusion table does not allow modifications and contains the same information present in the original database. The script executed after updating the database keeps the values updated in the fusion table, and subsequently, its visualisations.



Script to update the visualisations

As soon as the administrator modifies the country scores in the database, these new values are sent to the fusion table in order to update the visualisations. Both tables (spreadsheet nations overview and fusion table) are synchronised using an [apps script](#) on the original spreadsheet.

This script creates an additional button, named *ePSI Platform*, in the main menu of the spreadsheet. This button is only available for users with the administration role, and will trigger the update of the fusion table.

In case you want to learn more about this script, see the [full code](#) or ask me for more details.