



DATA VISUALISATION ON EC.EUROPA.EU

Converging from a cluttered
landscape of data visualisation tools
to
a coherent web presence with
standards that create synergies.



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Maps

MAPS : THE LANDSCAPE BEFORE 2015

The EC web presence showed a scattered collection of different mapping applications.

- ✘ Different versions of OpenLayers, FusionMaps, Leaflet...
- ✘ Duplication of licences
- ✘ Duplication of development effort
- ✘ A weak corporate web mapping framework
- ✘ Background maps not in line with the EU
- ✘ Different data formats

MAPS : A NEW CORPORATE STANDARD

- ☑ Standard data formats
- ☑ Fully integrated authoritative GIS data supplied by ESTAT (country outlines, NUTS, background maps)
- ☑ Based on Leaflet
- ☑ Responsive design
- ☑ Flexible, able to cater for 99% of business cases
- ☑ 500.000 visits per month

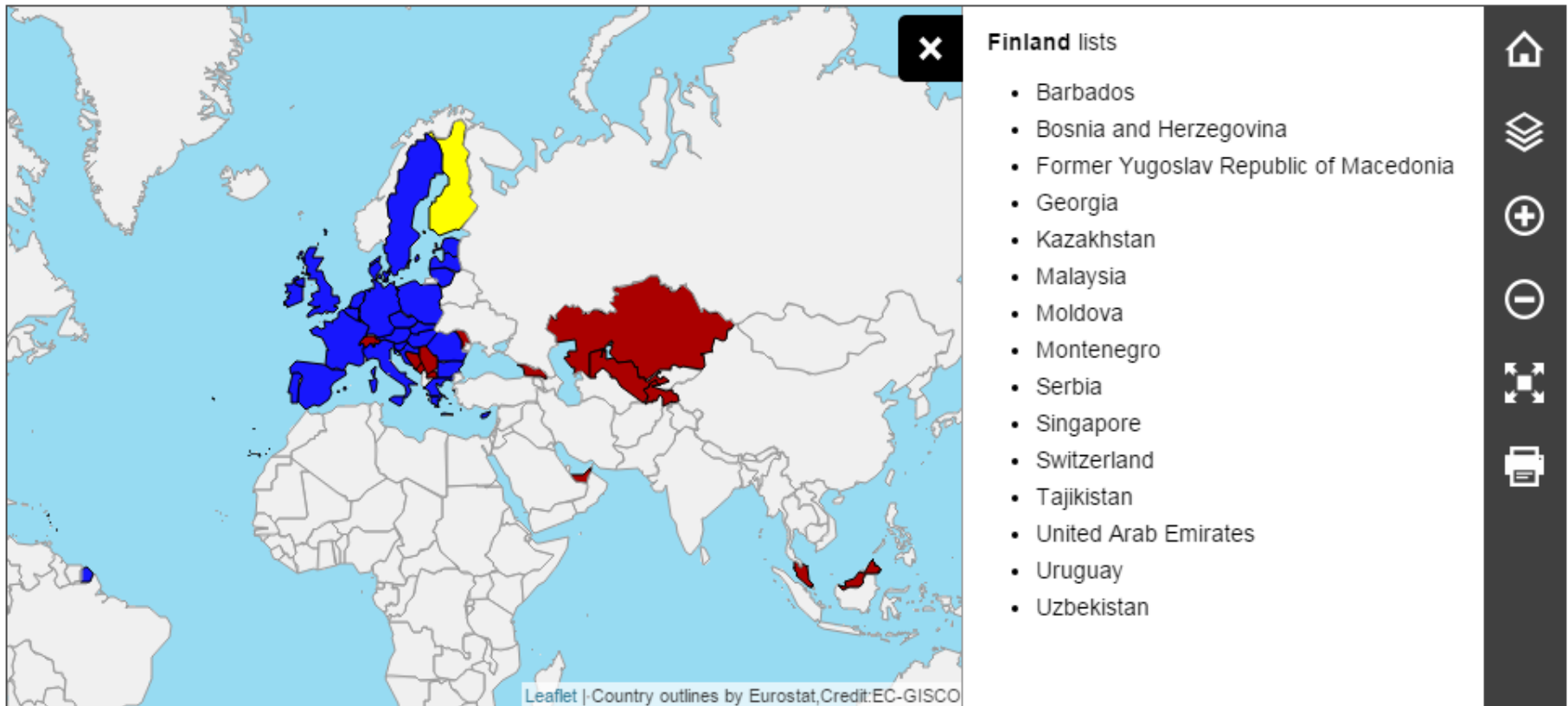
MAPS : REASONS FOR CORPORATE TOOL

Mid 2015, the EC web presence started implementing [corporate-standard web maps](#). Moving from OpenLayers to Leaflet.

- ☑ Driven by DG COMM in collaboration with DIGIT, ESTAT and CNECT.
- ☑ Centrally maintained by DG COMM and DIGIT, synergies ,costs reductions
- ☑ Central continuous improvement
- ☑ CMS-agnostic
- ☑ IPG compliant – supported by IE7+
- ☑ All resources internally available – no data protection issues
- ☑ Politically correct background maps
- ☑ Available to all institutions,

MAPS : EXAMPLES

Tax good governance in the world as seen by EU countries





European
Commission

MAPS : EXAMPLES

POC EU buildings

The map displays various EU buildings in Brussels, each labeled with a code. The buildings are color-coded: blue for Commission buildings, red for Parliament buildings, orange for Council buildings, and yellow for Curia buildings. Other buildings are shown in grey. The map includes a legend on the right side with the following options:

- Commission buildings
- Parliament buildings
- Council buildings
- Curia buildings
- Buildings managed by other EU bodies

Below the legend, there is a section for 'Pan' with a link to [Pan to Luxembourg](#). The map also features navigation controls on the right side, including a home button, a layer selection icon, a zoom in (+) and zoom out (-) button, a full screen button, and a print button.



European
Commission

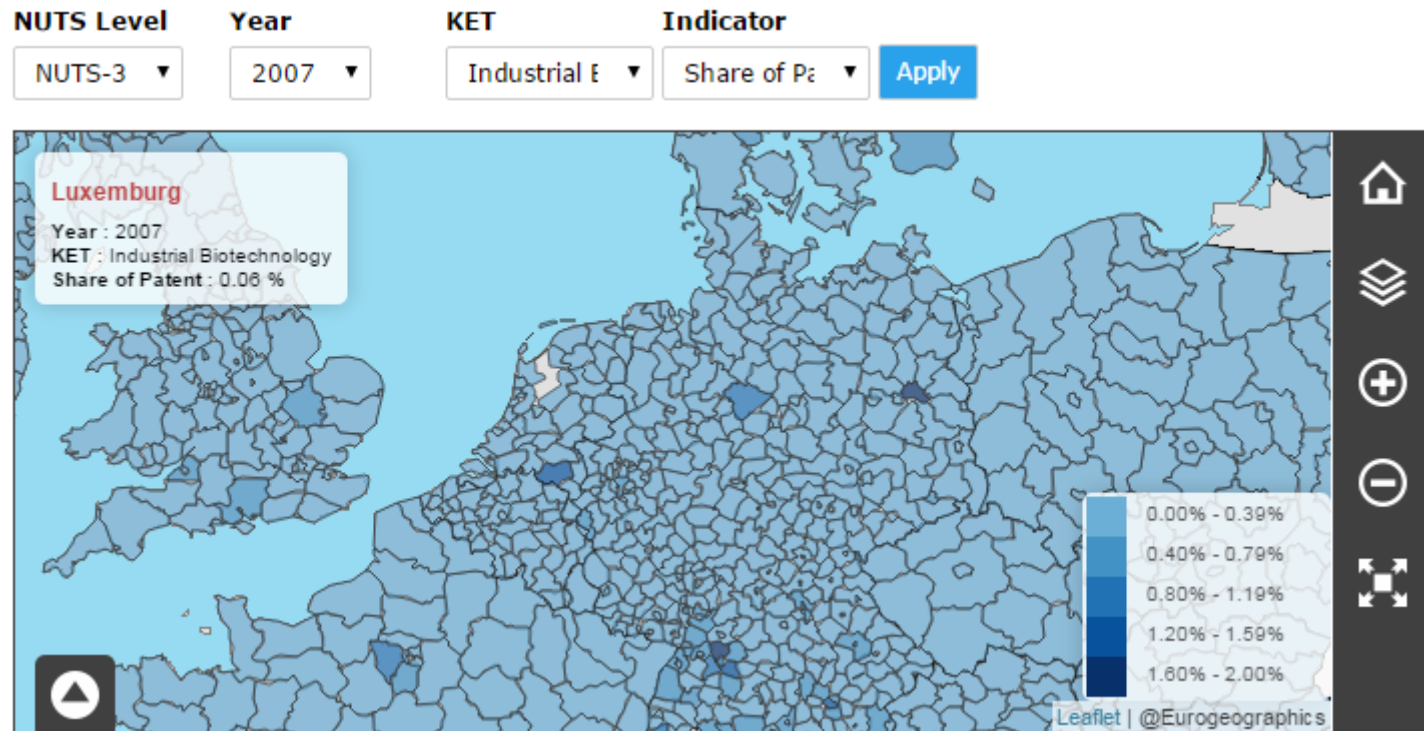
MAPS : EXAMPLES

About the EU - Countries



MAPS : EXAMPLES

Regional distribution of KETs patents





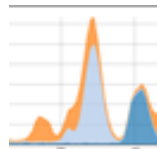
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Charts

CHARTS: THE LANDSCAPE TODAY

The EC web presence shows a scattered collection of different charting applications.

- HighCharts
- FusionCharts
- Canvas JS
- D3
- Raphaël
- ...



CHARTS: THE LANDSCAPE TODAY

Different charting applications = different input data formats

- CSV
- Custom XML
- Custom JSON
- XLS
- ...



CHARTS: THE LANDSCAPE TODAY

No standard chart tool

=

No standard input format

No standards

=

No synergies

CHARTS: THE LANDSCAPE TOMORROW

One corporate-standard charting tool

- Currently based on FusionCharts. See [documentation](#)
- DG COMM is open for new contenders (must meet IPG conditions)

One corporate data format for statistics for web visualisation

- JSON-STAT 2.1
- ESTAT data available at <http://ec.europa.eu/eurostat/web/json-and-unicode-web-services/getting-started/query-builder>
- Filter the dataset and generate the query
- Append the query
to <http://ec.europa.eu/eurostat/wdds/rest/data/v2.1/json/en/>

Today, COMM and ESTAT are collaborating on developing corporate-standard visualisation of JSON-STAT 2.1



Links:

1. http://ec.europa.eu/ipg/services/interactive_services/index_en.htm
2. <https://webgate.ec.europa.eu/fpfis/wikis/display/webtools/Webtools+documentation++Homepage>

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Thank you

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