

SEMANTIC TECHNOLOGIES AND SEMANTIC WEB STRUCTURING DATA FOR STI POLICY ANALYSIS Brussels, 19 June 2017

SESSION 3 SUPPORTING STI POLICY ANALYSIS THROUGH EMBEDDED ANALYTICAL AND VISUALISATION TOOLS

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REITER

Visualisation Tools with Embedded Analytical Capabilities

Brief Overview of Planned Activities



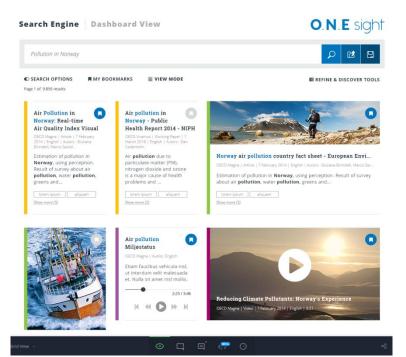
Grasping data on policy initiatives through visualisations with embedded analytics

- Objectives within this work package
 - Provide interfaces for search and discovery of the data collected, guiding policy-makers and analysts through knowledge pathways in the database
 - Within these interfaces, provide various forms of interactive charts that allow to interpret data.
 - Facilitate benchmarking (e.g. different country approaches to common challenges)
 - Identify clustering in certain policy practices



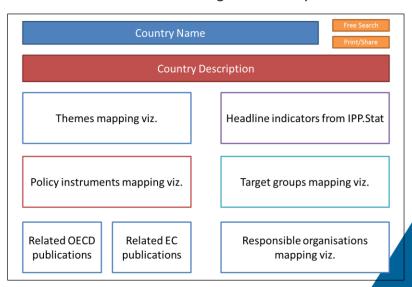
Based on a MarkLogic database with a bespoke UI





Country Dashboard

Panels could be arranged differently



Overview of dashboards and results pages

Ultimate Info Primary Dashboards Interactive Dashboard Panels Source Theme Area mapping viz. Survey Policy **Initiative** Country **Policy Instrument** Fiche mapping viz. Target Group Indicator in mapping viz. Theme IPP.Stat Responsible Org Dashboard mapping viz. Dashboard Entry Page Country mapping Related EC **Policy** viz. **Publication** Instrument Fiche IPP.Stat viz. List of related EC Related OECD Target Group publications **Publication** List of related Fiche **OECD** publications

Dashboards Entry Page

Introduction to EC-OECD STIP Database

Free Search

Explore Themes (through interactive viz.)

Search by Country (through interactive map viz.)

Explore Policy Instruments (through interactive viz.)

Explore Target Groups (through interactive viz.)



Country Dashboard Panels could be arranged differently

Country Name

Free Search

Print/Share

Country Description

Themes mapping viz.

Headline indicators from IPP.Stat

Policy instruments mapping viz.

Target groups mapping viz.

Related OECD publications

Related EC publications

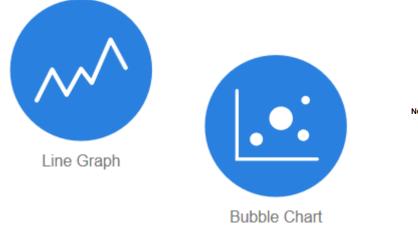
Responsible organisations mapping viz.

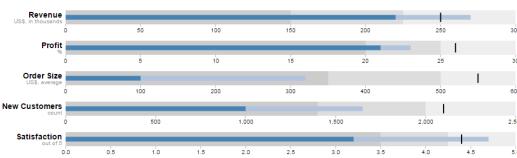


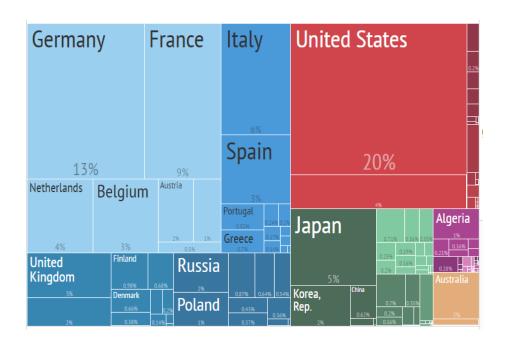
Queries to be embedded in various dashboards

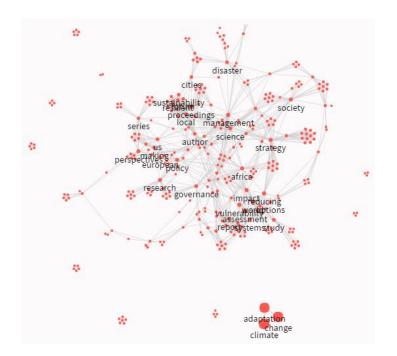
Dashboard \ Panel	Theme area mapping	Policy instrument mapping	Target group mapping	Respon
Country	-RANKING A: In what theme areas does	-RANKING A:What instruments are more	-RANKING A: What target groups are	-How are th
	the country has most initiatives?	prevalent in the country?	associated with the highest budgets	organisatio
	-RANKING B: In what theme areas does	-RANKING B: What instruments have the	within the country?	terms of:
	the country assign the highest budgets?	highest budgets in the country?		* Initiatives
			-RANKING B: How concentrated are the	* Inititatives
	_	-BENCHMARKING A: How does RANKING	country's policy initiatives within a target	* Initiatives
	compare to other countries?	A and B compare to other countries?	group?	Note: perha
		-BENCHMARKING B: What is the average		weighted b
	-How closely related are themes within	configuration (facet choices) of instrument		
	the country?	X and how does it compare to other	and B compare to other countries and the	
	-How has interest in themes evolved over	countries? How does it compare with the	sample average?	
	time?	distribution of configurations in the		
		sample?		
	-How are themes related to each other?	-What policy instruments are more	-What target groups are more present in	
	What the complete with a bight and	prevalent within the theme?	initiatives submitted under the theme?	
	-What themes have the highest		Mark at in the adication time of the control of	
	amount/budget of policy initiatives?	-Is there clustering of certain policy instrument facets within the theme? Is it	-What is the distribution of target groups under the theme? Could this be weighted	
		distinct from the combinations found in	by total budget assigned to target group by	
		other themes?	theme?	
Theme		outer dienies:	ulenie:	
	-Which themes are most associated with	-What is the average and distribution of	-RANKING A: What target groups are more	

Examples of interactive visualisations for the dashboards (1/2)









Examples of interactive visualisations for the dashboards (2/2)

