

Exploiting Data From Govt. Data Portals

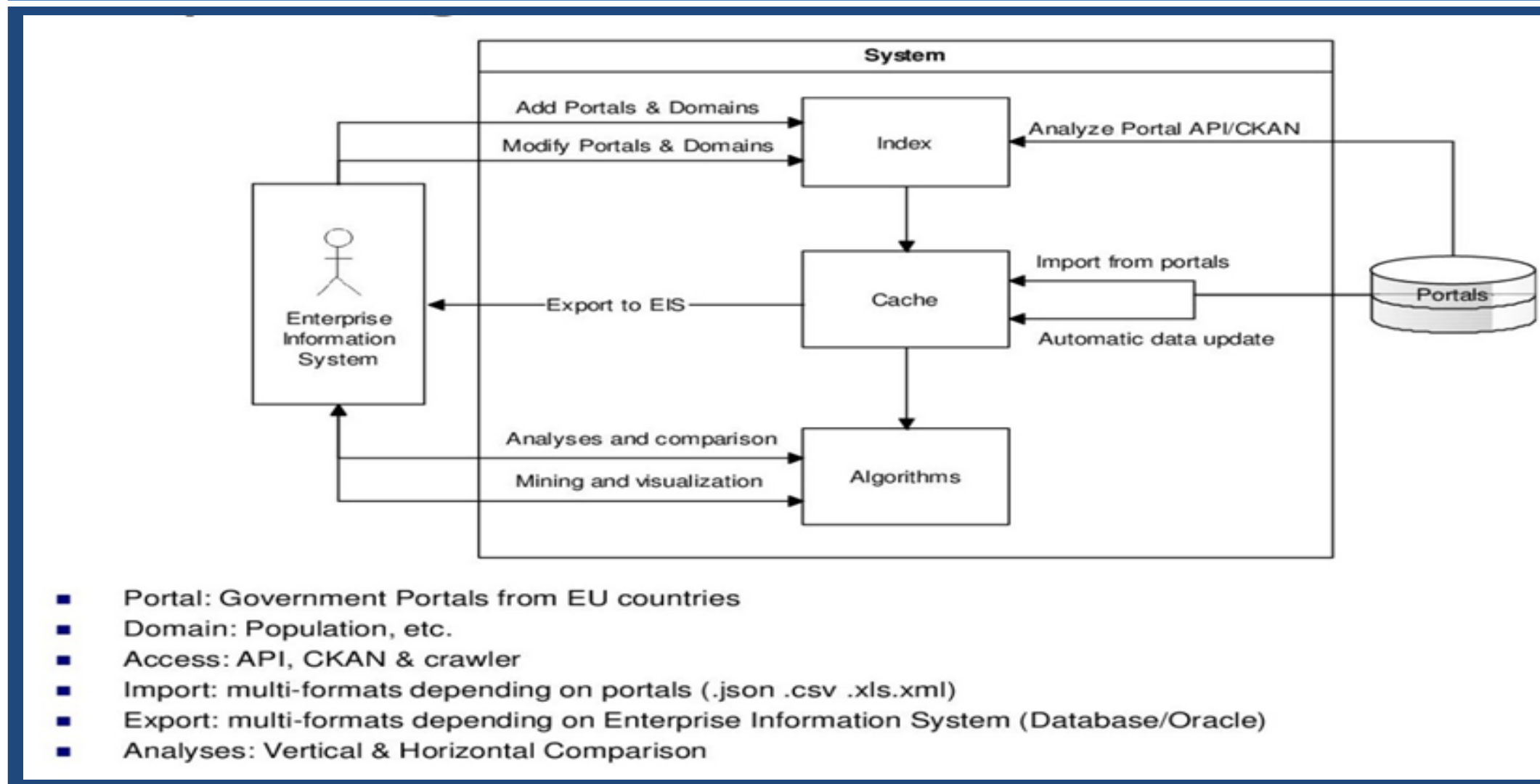
Compare Portals, Download & Export Data to EIS, Analysis and Visualise Data

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Introduction The aim of this lab was to identify and compare a number of EU Government data portals. This included exporting data from these portals and importing it into an Enterprise System. A comparative analysis was then led on this data.

System Architecture



Govt. Data Portals The Government is releasing public data to make its processes more transparent and to help people to understand how government works and how policies are made and to make easier for people to make decisions and suggestions about government policies based on detailed information and hear more about the Government's Transparency agenda from the Government. **UK, Germany and France** data portals was our pilot data portals from EU and **Population** as pilot data set domain.

	UK	Germany	France
Website	www.data.gov.uk	www.govdata.de	www.data.gouv.fr
Data Access	Data Set , Map Search, Data Request	API, Combining Search Terms, Specific Fields Search, Fuzzy Search	Manual Download
API	CKAN	SCKAN, Liferay	EtaLab
Data Provision	CKAN	Manual: Web Forms, Automated: SKAN API, JSON Dump, CSW	EtaLab
Licensing	Open Gov. License	Open GL	Open GL
Data Usage	Free and Commercial under Open GL	Free and Non Commercial	Free and Non Commercial
Data Formats	XLS, CSV, HTML,PDF	XLS, CSV, HTML,PDF	XLS, CSV, HTML,PDF

Issues in Data Portals to Access Data

- ❖ No. Multi Lingual Data Portals
- ❖ No Single and Easy Data Access Point
- ❖ Non Availability of Open Machine Readable Data Set Formats
- ❖ Heterogeneity of Available API for Each Portal

Data Analysis and Visualization

This tool helps the user not only to analyze and visualize data per Portal but also compare data between the portals both in Graphical as well as in tabular forms.

Population: The total number of persons inhabiting a country

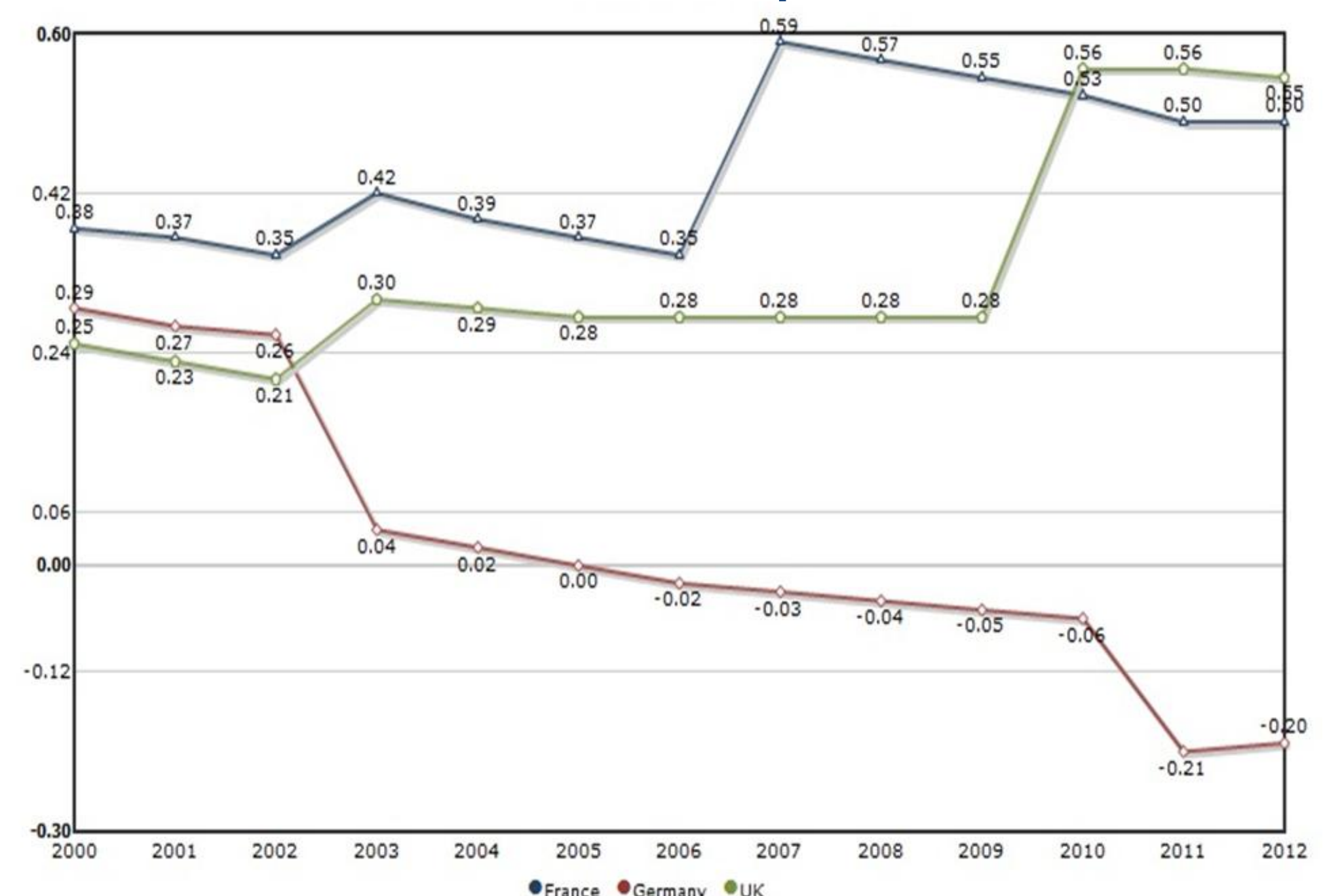
Population Density: # of people /kilometer Sqr. (Unit Area)

Growth Rate: The average annual % change in Population

Birth Rate: Birth/1000 Population

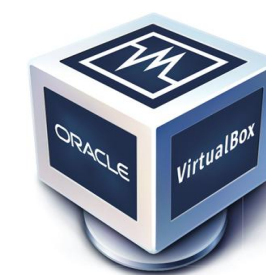
Death Rate: Death/1000 Population

Growth Rate Comparison



Future Work and Recommendations

- ❖ Multilingual Data download and Comparison Support
- ❖ Single and Easy Data Access Point
- ❖ Availability of Open Machine Readable Data set formats like RDF , JSON Etc.
- ❖ Homogeneous API for Data Access
- ❖ Multi Format ,Multi Lingual and Platform Independent Data Export to EIS and Data Visualization Tool



<Virtual Machine Description>

Hostname: Windows-ExpGovDataGroupF

Software Installed on EIS3

Visual Studio.net 2010: MSSQL 2008,ASP.Net, .Net Framework 4.5, IIS, EXDataExcel2EIS, Data Analysis and Visualization 1.0

Code Access: <https://github.com/EIS-Bonn/MA-INF3232>

Lab/tree/master/SomSem2014/Group%20F%20(GovData_Attard)

Local Access:

OS User: **EIS-User**
Password: **GovData**



Remote Access:

Partner ID: **902677001**
Password: **121gbw**