
THESIS: „REPORTING AND INTEGRATION OF GEOGRAPHIC INFORMATION WITH BUSINESS INTELLIGENCE SYSTEMS ON THE SPECIFIC EXAMPLE OF COMPANIES IN THE UTILITIES SECTOR“

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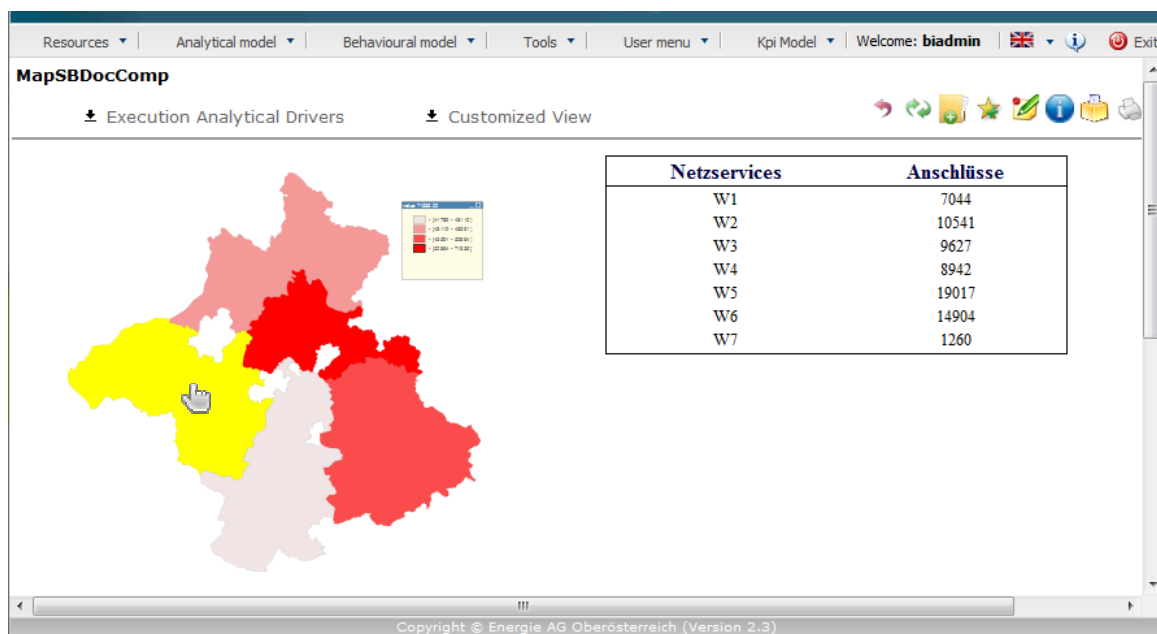
ABSTRACT of the Thesis

In recent years information and knowledge have developed as key production factors, not only on the global market but also in companies. It is of crucial importance for a company to possess rich information and to create knowledge out of it, to invest this knowledge profitably and to use it for the company's competitive advantage. This, however, requires unrestrained access to internal and external information at any time and any place. For this purpose, so-called data warehouse-solutions and business intelligence-systems have established themselves with growing importance. For a lot of companies these systems provide the basis for enterprise-wide analysis and forecasts, thus serving as basic decision support.

My thesis deals with the above mentioned systems and gives the reader an insight into the development and the theoretical background of decision-oriented information systems. The main focus of the submitted diploma thesis is on the discussion of theoretical and practical realizations of various options for report generation (also known as „reporting“), exemplified by businesses in the utilities sector. In the course of this also the current trend of “open source“ is addressed and some established systems – both open source and commercial – are compared on the basis of relevant criteria. Based on the evaluation result, the innovative implementation system **SpagoBI** was then selected to perform the reporting and demonstrate the created reports. A major focus therefore is placed on creating a report with geographical reference, as nowadays nearly the entire strategic information within a utility company – such as equipment and locations, power and data networks, suppliers, customers and service centers – has a spatial reference.

For this purpose, **SpagoBI** offers the newly developed studio as well as the internal GeoEngine, with whom the work with spatial data and their analysis gets possible and much easier to handle. The work with **SpagoBI** proved to be very interesting, also comprehensive but mainly informative for me. Thanks to the excellent assistance of the **SpagoBI** team, all planned reports and document compositions as part of the thesis were successfully implemented.

SpagoBI is in the prime of development and is a recommendable Business Intelligence System for all those, who want to dedicate the open source sector in future.



Example of a Composed Document with spatial data.