



Company Name: Digital Perception

*Project Name: Security and Economic Considerations for
Deployment of Current RDBMS Based Application to NoSQL/Big
Data Platform*

Funding: Innovation Voucher

Digital Perception (www.digitalperception.eu) has built proprietary technology that combines together search algorithms, artificial intelligence and image recognition technology, enabling us to identify where images have spread to on the Internet and Social Media.



PROBLEM TO BE SOLVED

NoSQL (Not only SQL) databases have emerged as a popular mechanism for storage and retrieval of non-structured or semi-structured data. The reasons for this popularity include simplicity of design, horizontal scaling and availability. In deciding whether an application should be deployed with NoSQL or RDBMS technologies is generally dependent on the specific application needs. This project examined two factors of that decision-making process, namely security and economic factors specifically for the application scenario of the company.



HOW GATEWAY DELIVERED SOLUTION FOR INDUSTRY

The resulting report contains a general introduction to legislation and regulation in data handling as well as a discussion of security concerns in traditional RDBMS databases as well as how security concerns are addressed in the emerging NoSQL databases.

Given a specific usage scenario, an evaluation of the costs of deployment is provided. This evaluation looks at the cost of data storage as well as NoSQL and SQL data management costs for each of the three major cloud providers and looks at how these costs change over a projected period of five years.



IMPACT FOR THE COMPANY

The project results provided the company with a means of evaluating the correct next steps in deployment of their technology. A set of best practices in NoSQL security approaches was provided as well as an economic evaluation of the various cloud based deployments over a projected five year growth.