# GeoQlik

The mapping extension for QlikView and Qlik Sense

# Business Geografic

# CASE STUDY: Visualizing the safety risk profiles to increase the efficiency of fire brigades.

The Amsterdam-Amstelland fire brigades have over 130 years of knowledge and own a decade of historical data. This large amount of data is processed into QlikView in order to "profile" the safety risks related to fire, aid and dangerous substances on the Amsterdam-Amstelland territory. Hippoline, specializing in both QlikView and GeoQlik<sup>™</sup>, enhanced the fire brigades' solution with GeoQlik<sup>™</sup>, providing them with a geographic visualization of their data. By plotting the data at a building level, GeoQlik<sup>™</sup> helps the fire brigades gain new valuable information and increase their efficiency.

### Background

Amsterdam was the first city in the Netherlands to own a professional fire brigade. Amsterdam-Amstelland's first brigade was founded in 1874 to ensure the safety of 286 922 citizens. From then to nowadays, the Amsterdam-Amstelland fire brigades have been gathering a lot of knowledge and know-how. As a result, they benefit from a large amount of (historical) information, being scattered over various departments within the organization. They also use data issued from external databases.

For the Amsterdam-Amstelland fire brigades, using and processing data contributes to driving the success of their daily missions. Indeed, fire brigades do not just fight fire; they are increasingly seeking ways to prevent and minimize the effects of fire disasters. However, analyzing this large volume of data used to be tedious and time-consuming.

Amsterdam-Amstelland fire brigades thus decided to tackle this problem, wishing not only to make their data more easily accessible to everyone in the brigade, but also to present it in such a way that everybody would get answers to their own, department specific, questions.

# Challenges

Fire hazard is much higher in city centers than in the outskirts. This is particularly true in Amsterdam, where the density of population, houses and cultural heritage is very important. This statement, however, should not obscure the many more factors and the need for up-to-date information when assessing fire risks.

Optimizing risk factors is actually a key element in fire brigades' policy and management. When one knows that the access time for fire brigades in the event of an incident shall legally not exceed five minutes, how, therefore, evaluate properly fire risks?



#### Brandweer Amsterdam-Amstelland



Activity : Fire brigade. Responsible for the safety of over 1 million citizens and 2 million tourists in Aalsmeer, Amstelveen, Amsterdam, Diemen, Ouder-Amstel, Uithoorn Geography : The Netherlands

Challenges : All fire brigades are responsible for profiling risks. Amsterdam-Amstelland fire brigades decided to make risk profiles digitally available and easily understandable for the whole organization, in order to improve fire risk management.

- encourage information sharing between all departments within the organization
- make data processing constraintless
- get detailed and easy-to-read visualizations of (fire) risks
- reach greater transparency and accountability
- support management, training and education.

Incentro provided Amsterdam-Amstelland fire brigades with a data analysis environnement based on QlikView. Incentro is a QlikView partner. www.incentro.com

Hippoline provided Amsterdam-Amstelland fire brigades with GeoQlik™. Hippoline is a QlikView partner and a GeoQlik™ partner. www.hippoline.nl

GeoQlik GeoQlik<sup>TM</sup>, the only true mapping component for QlikView, is developed by Business Geografic, a French software editor specialized in GIS and Geo-Business Intelligence. Business Geografic is a QlikView technology partner. www.geoqlik.com





## **Solution**

Amsterdam-Amstelland fire brigades were looking for a smart online management tool that would not only enable them to achieve this purpose, but also to process and analyze data without constraint and, hopefully, to get new insights.

Amsterdam-Amstelland fire brigades associated a riskindicator to every single building, road, railroad and waterway registered in the cadaster (risk-indicators are based on the chance of fire, plus the impact of fire on potential casualties and/or environment, culture and property damages).

These risk profiles were then combined with other data such as adresses, buildings, dwellings and values of properties, on top of all data gathered over the past emergency interventions.

The consolidated data thus obtained was, lastly, plotted on a map on which buildings and neighbourhoods are clearly visible. "GeoQlik<sup>™</sup> integration into QlikView is a must-have for organizations looking for precise visual representations of their data. GeoQlik<sup>™</sup> makes data easier to understand and analyze; the combination of QlikView and GeoQlik<sup>™</sup> is the perfect symbiosis of Business Intelligence with Geographic Intelligence" (Mirjam van Kooten, Managing Director of Hippoline).

#### **Benefits**

QlikView enhanced with GeoQlik<sup>™</sup> was the clear answer to Amsterdam-Amstelland fire brigades' expectations.

Indeed, nothing is more effective than displaying and filtering information on a map to gain better knowledge of one's data. Amsterdam-Amstelland fire brigades can drill down to the building level for a better assessment of risks and driving distances.

Thanks to the dynamic link between GeoQlik<sup>™</sup> and QlikView, new observations gleaned from the latest emergency interventions are continually expanding the shared knowledge about fire risks, thus ensuring Amsterdam-Amstelland fire brigades with accurate and operational data at all times.

Furthermore, QlikView enhanced with GeoQlik<sup>™</sup> enables them to acquire new insights and make better risk management decisions. Disaster prevention and preparation are improved, especially when dealing with vulnerable and high-risk areas.

The Amsterdam-Amstelland fire brigades are now wishing the widespreading use of QlikView + GeoQlik<sup>™</sup> combination among their counterparts all over the country.



Fire brigades are legally requested to create risk profiles. Geo-representation of risk indicators is the very relevant solution to their needs, as for all organizations looking forward to improve strategic and/or emergency management.

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