

Case Study

- Large Insurance Company

Quarticle - building the backbone of a geoinformation system

The Company

Our client - a large insurance company that is one of the world's leading providers of reinsurance, insurance, and other forms of insurance-based risk transfer is working to make the world more resilient.

Their mission is to enable society to thrive and progress, creating new opportunities and solutions for their clients.



The Challenge

One of the client's main objectives was to replace the existing GIS Server due to slowness to achieve superior performance increase, support Open Standards and run on Microsoft Azure including Azure's IaaS and PaaS services.

The requirement was to be cloud- and enterprise-ready to serve Natural Hazard Risks and support monthly and quarterly Business Peaks on Microsoft Azure.

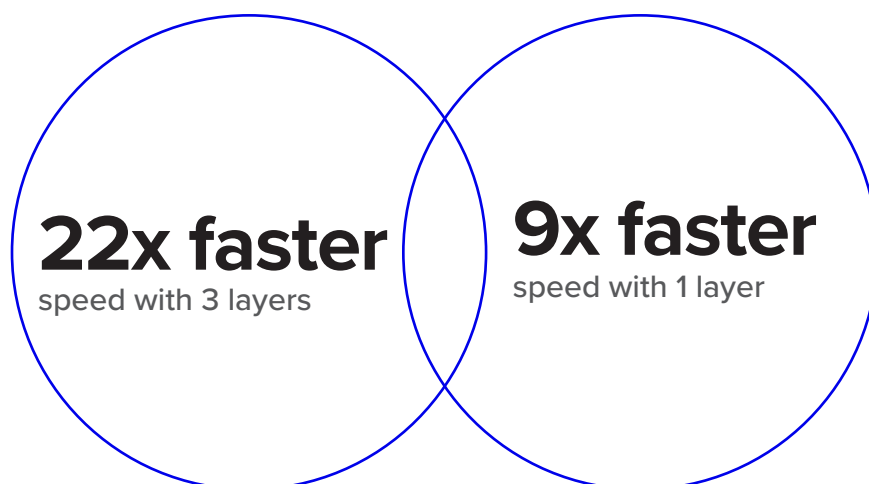


The Solution

Quartile was commissioned to build the client's Geoengine which allows extremely fast geolookups and visualization and maintaining the backend MapServer and the HighPerformance Layer.

With an aggressive approach, for demonstration purposes, Quartile increased the machines to a high number of instances and reached a load of 800k requests for location per second. The horizontal increase of hardware resources boosts the speed of response dramatically.

The solution was successfully replaced with Open Source GeoServer technology PostGIS, is running on Microsoft Azure Cloud Iaas and Paas stack. Quartile however also used Google Cloud & Amazon Web Services and there is no limitation on which cloud the solution runs.



vs. other available GIS solution

The Results

During the tests performed in the client's environment, Quarticle achieved 22 times faster speed with 3 layers and 9 times faster with 1 layer vs. existing the GIS solution.

The solution was successfully replaced with Open Source GeoServer technology, PostGIS, MS Azure Cloud IaaS and PaaS stack, as well as Google Cloud stack and the high-performance layer built by Quarticle.

Benefits and Outcomes



Risk Mitigation

The client can mitigate GeoRisks in customer portfolios and perform pricing accordingly world-wide



Scalable Approach

It can be used on various applications and tools and have multiple functionalities.



Speed Increase

The client's end customers receive more results in much faster time cycles, up to 22 times faster than standard GIS server providers.

Quarticle helps insurance companies use digital capabilities to gain a competitive advantage in an increasing market.