

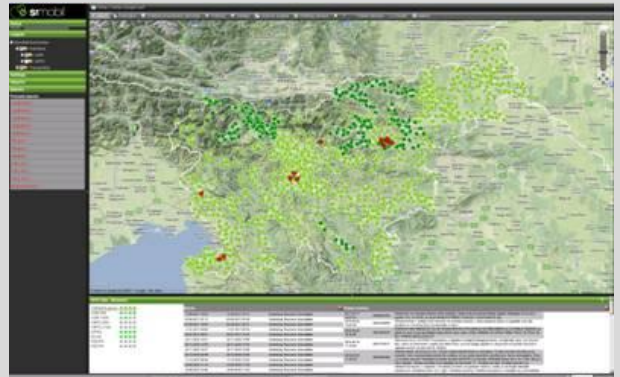
GeoQoS

Quality of Services Monitoring Tool for Mobile Network Operators

Quality of Services (QoS) is a mechanism in mobile phone industry that controls performance, reliability, and usability of a telecommunications service. For this purposes we developed GeoQoS portal for visualization of important parameters, that controls QoS. Main users of the portal are mainly specialists responsible for connections, service response time, losses, signal-to-noise ratio, cross-talk, echo, interrupts, frequency response, loudness levels, etc.

Other users of GeoQoS are managers, call centre operators, marketing employees, etc.

GeoQoS application combines technical data about cells and base stations with Google Maps and visualization of different parameters.



Customer

Si.mobil (Mobile operator)

Benefits

Fast monitoring results, visualization of present and past events, high quality customer support, export data for reports, following key performance indicators.

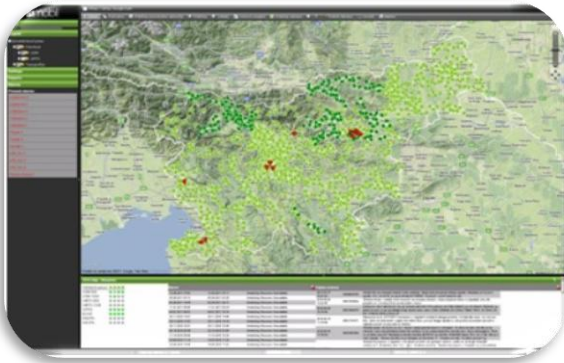
Used Technologies

Autodesk Infrastructure Map server 2012,
MS Windows .NET, MS SQL

Implementation Time

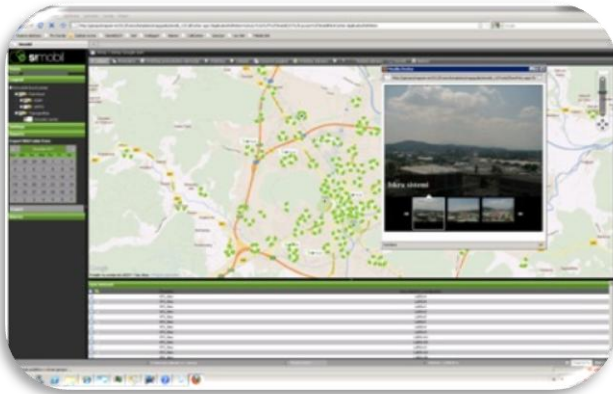
One to three months depend on size and complexity of existing system

Geo QoS



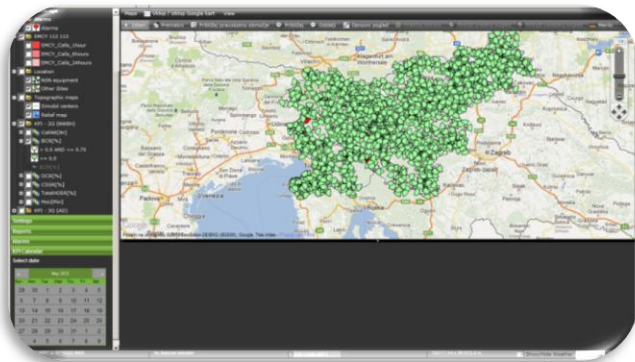
Geo Reporting

Present quality warnings are shown on the top layer with red symbols with direct link to coverage polygon affected, up-to-date transmission area, and signal power levels.



Base station information

With a click on the base station users can get additional detailed information, including cell information, warning history, photography etc.



Key Performance Indicators

An additional layer is added with key performance indicators (KPI) for better maintenance and plan of technology upgrades.