Slovenian Railways maintains more than 1000 km of rail infrastructure and related equipments. The Department of Infrastructure Management intends to integrate Autodesk Topobase (now Autodesk Map) solution for infrastructure design and management with IBM Asset Management Maximo to provide access to spatial and asset information throughout their organization. While Autodesk Map is a perfect solution to overcome the gap from CAD to GIS and to import, analyze and visualise spatial data, IBM Maximo provides procedures for long and short-term planning, preventive, reactive, and condition-based maintenance, schedule management, resource optimization and key performance indicators.

Our solution integrates both applications in a solid solution which provides working tools and web application for majority of employees. Topobase Administrator and Client are used for administrators of spatial data, IBM Maximo supports maintenance procedures and processes. Middleware trigger is implemented in Oracle and takes care that all changes are updated in the central Oracle DBMS. Light users and managers have access to both databases through GIS web application, developed by CGS.
Mapguide based web GIS

Mapguide based web application is platform for managers and end users to access reliable spatial data and attribute information about their assets.

Database synchronization

Rail data are stored in separate databases. DB2 is used for asset data in IBM Maximo and Oracle for spatial data. When spatial object is added to one or the other database, a middleware trigger takes care of synchronization of ID's

Maximo

Maximo forms are prepared for all tasks related to maintenance, repair and other daily obligations of rail workers.