

Regiotram Utrecht

The Netherlands has over 16 million people living on roughly 34,000 km². The province of Utrecht lies in the centre of the country and serves as a highly dense corridor of most traffic and public transportation. Regiotram Utrecht is the provincial department charged with the responsibility to manage and develop the entire tram system in Utrecht, including the depot, rails, trams and ICT & power supply.

Regiotram Utrecht is faced with the need to guarantee continuity in transportation by reducing total costs of ownership and doing so in close cooperation with all stakeholders and be innovative about it. Their need was to utilise optimisation potential to shift from a heavy rail approach to a suitable light rail approach with an effective asset management system.

Define	 <p>By winning a rail/tram tender Strukton Rail is carrying out its operational asset maintenance approach, PAS55Norm, NEN50126 and RAMS demands by way of serving the client in the following way:</p> <ul style="list-style-type: none">• Focus on object driven maintenance;• On site presence, be eyes and ears of Regiotram Utrecht and quick to respond;• Emergency breakdown service 24/7;• Demonstrable contributions to performance improvements by RAMS and total cost of ownership;• Work effectively within available downtime;• Demonstrate 'in control' management.	 <p>All these systems are successfully integrated into one informational display and made available online by a web portal to Regiotram Utrecht. This provides Regiotram Utrecht with everyday access to a.o. verification and validation reports about the quality of the network.</p>	Data mgt & Interface
		 <p>Within the maintenance strategy Strukton Rail has determined FMECA's and FTA's to analyse the acquired data, update the database and adjust the maintenance strategy continuously where necessary. The interpretation of the data will determine a.o. if optimisations and improvements in regard to the TCO reduction should be advised.</p>	Analyse & Interpret
Select	 <p>By way of converting the RAMS demands, applicable rules and regulations, and maintenance requirements into a maintenance strategy, supported by over 90 years of experience and accumulated know how, Strukton Rail cooperates closely with Regiotram Utrecht to select which tradeoffs to make between performance of the assets, investments and total costs of ownership. Depending on use and relevancy Strukton and Regiotram jointly decide upon which information is communicated back and forth and in which frequency to effectively direct the selected strategy.</p>	 <p>The whole organisation is directed from an attitude and conduct which is problem solving, cooperative, open and proactive. The organisation is composed of multi-disciplinary and multi-skilled personnel with specialists continuously cooperating, effectively raising the efficiency, deployment options and commitment of everyone involved.</p> <p>The highly urbanised environment of Utrecht requires special consideration for accessibility, liveability, environment, safety and communication towards the residents concerned. Accountability of Strukton Rail is key in this regard.</p>	Organise & Plan
Measure & Monitor	 <p>This information is derived from various monitoring and measuring systems (POSS monitoring, Eurailscout), maintenance management systems (SAP, MQM, Relatics, Optimizer+, SOS) and a geographical information system (GIS).</p>	 <p>The challenge is to create a closed loop of data and communication between Regiotram Utrecht, Strukton Rail and other stakeholders to guarantee continuity and the best possible rail network for now and in the future.</p>	Operate & Feedback