Master thesis proposal

About Stena Stål
Stena Stål is a nationwide steel supplier offering a wide range of steel products. The company is located in 20 different locations spread across Sweden and Norway. Stena Stål is part of Stena Metall Group, which originated in 1939. The group currently operates in more than 200 locations in ten countries with over 3000 employees working to create new value for customers, environment, and society.

Problem/Opportunity
Management of today are facing the issue of effectively using Key Performance Indicators (KPIs). The problem is not present in finding good KPIs but rather what actions to undertake to improve them. The data available provides an opportunity to improve this area as well as providing a more dynamic feedback in regards to how the daily activities in the operations are affecting the KPI’s. The challenge of identifying actions to improve KPI’s can be identified in many producing companies as of today, and a solution could therefore be further generalized.

Thesis idea
The aim of this thesis is to use supervised machine learning in order to identify faults and errors based on the current data available in Microsoft AX and Qlikview. The data needed is provided by the company and consists of structured data. The outcome should, in real-time, provide suggestions on how the management team can improve their operations. For example, if the KPI’s used are “Revenue”, the outcome should provide results of how revenue has been affected, the reasons behind the change, and suggestions on what could be done about it.

Contact
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