**3 Applications of 'Machine Learning' and general mathematical methods in logistics and supply chain management " Executive Summary**

Several case studies of applied Artificial intelligence in industry successfully were discussed and analyzed including Robot Atlas, Google AlphaGo and various application in different kinds of industry. By applying machine learning techniques and big data utilizing method into the AI optimization process, AI has the AI has the potential to transform existing task into high value job in logistics.

Challenges such as implementation of AI techniques, dealing with the regulation and politics and social challenges were outlined and described. The implementation challenges were mainly due to the non-mature AI technique currently existing in the industry as well as regulation and political challenges were due to the government agencies requirement and demands. Also a methodology to implement machine learning technique for supply and logistics management in automotive sector has been presented. Finally, it was identified that the social challenges for the logistics companies were mainly the mission to ensure environmental and social sustainability as well as giving feedback to public