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Description of Research Seminar: Integrated Rolling Stock Planning for Suburban Passenger Train Services - Bringing Seats to Everyone at The Lowest of Costs

Start date of the Workpackage:	December 2010
Duration:	48 months
Due date of deliverable:	November 2014
Actual submission date:	December 2013
Participants:	UGOE UNIKL DTU UOA UC
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Research Seminar

Per Thorlacius

November 2013

University of Auckland

Subject: Integrated Rolling Stock Planning for Suburban Passenger Train Services - Bringing Seats to Everyone at The Lowest of Costs

Problem: A central issue for operators of suburban passenger train transport systems is providing sufficient number of seats for the passengers while at the same time minimising operating costs. The process of providing this is called rolling stock planning. When performing rolling stock planning, a very large number of railway specific requirements need to be taken into account. For reasons of simplicity, in rolling stock planning, the requirements are presently handled individually one after the other. Needless to say, this is far from optimal. The seminar outlines the current processes and requirements at DSB S-tog, the suburban passenger train operator of the City of Copenhagen and proposes two different solution approaches to solving this problem in a better, integrated manner.

Main Results: An integrated rolling stock planning model.

Participants:

Publication: -