

Abstract – ARM (Automated Route Matcher)

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Greater Copenhagen Council (HUR) is responsible for maintaining bus service in the area close to the Danish capital of Copenhagen. In the Copenhagen area a ticket allows you to travel by bus, metro and train limited only by time and the number of zones the ticket covers.

Busses, metro and trains are managed by different companies. Therefore, the income from the tickets must be shared according to each company's share of the passengermileage. For the buses, the number of passengers and the passengermileage is estimated based on GPS measurements of the bus position and on passenger counts. Based on this input and information from the timetables the ARM-application will find the correct bus route and convert data into useful statistic information about passenger movements.

This information also proves very useful when making new timetables, where statistics about delays, average drive time, passenger movements etc is essential in order to adjust the timetable on a specific line in different timeslots during the day. Thus, ARM is a useful tool in maintaining a service level meeting the public and political demands, and presenting the quality of planning and documenting stability of bus service for the public as well as the responsible politicians.

ARM was delivered in the final version in January 2004. ARM has proved to be a very useful program. The seminar will be held by the project managers and will explain about the lessons learned, the process of the development, how the data is captured and treated and how the results may be used in future.