

MP²

Bridging planning and financial processes

MP² contains the following parts for railway operation planning.

- **Perform cost and revenue analysis of operation**
- **The ability to fully Optimize all your assets including; Airplanes, Rolling Stock, Ships, Vehicles and Crew**
- **Schedule resources**
- **Design time tables**
- **Build and optimize passenger connections**
- **Analyze market and capacity**
- **Analyze competition and alliances**
- **Optimize maintenance of resources**

Strategic planning

MP² is ideal to use for strategic network planning and creating tentative future schedules. MP² gives access to several optimizers simulations with optimal solutions.

Timetables and routings

MP² covers the whole chain from the creation of timetables and routings, through rolling stock optimization, maintenance and crew optimization to analysis and evaluation of scenarios and results. The system bridges planning and financial processes by integrating all relevant cost items, passenger demand and revenue with the timetable. The financial performance of a timetable is displayed as changes are made.

'What if' scenarios

MP² enables all critical parts of the planning process to be carried out in a fully integrated environment.

By integrating the creation of the timetable and new trains with economical performance and passenger demand, users are given the possibility to analyze consequences of, for example, timetable or capacity changes. This way, to dynamically work with the timetable, strengthens the user's decision position.

Each and every part of the system is integrated with each other in one single application. This gives the user a unique ability to immediately see what impact each and every change has on the total picture of the production.

The software is designed to simultaneously deal with all the critical resources of a railway operator such as rolling-stock, personnel, passengers and maintenance thereby avoiding sub-optimization of resources deployed.

Industrial Optimizers

Industrial Optimizers was founded in 1989 in Sweden, and the company has since then developed optimization systems to the airline and railway industry. Today more than 70 passenger and cargo transportation companies worldwide use the optimization products and algorithms developed by Industrial Optimizers.

“It’s all about profitability...”

Anna Sjöberg has a long career at SJ AB. Anna started at the financial department as a Controller. Now she works with the **MP²** system at the department of Strategic Traffic and Vehicle program at SJ AB.

About SJ AB

SJ AB has a successful history going back 150 years. Since 2001, it has been a limited company owned by the Swedish state and it now mainly operates passenger traffic throughout Sweden.

“In what way do you work with the MP² system?”

My task is to do business analysis- and scenario evaluations for our railway traffic. It is all about looking into what has to be analyzed for the day. I get inquiries from example the Inter City or X2000 traffic department. They want to know what train and which departure have the best chance to profitability. They also want to know how many passengers each train and each departure have. Most of my work has to do with profitability evaluations in some way. One of the advantages with MP² is the fact that it can handle a large amount of data – the system gives an easy access to the information.

I also do analysis for new train investments. For example, if SJ were to replace the X2000 train, what kind of effect would it have? Would the route be profitable, is there enough capacity for predicted passenger loads?



Anna Sjöberg, MP² superuser, SJ AB Sweden.

“Do you need a system to analyze these operations?”

Without the MP² system the work is much more complicated and more time-consuming. You can find the exact data elsewhere, but spread out in the organization. If I didn’t have the system I would use a excel sheet for calculating, but it is still very difficult to keep all the data into one format. The excel sheet is not designed to simulate different and detailed scenarios, that would be impossible. The MP² system makes it all simple and gives you so many more possibilities.

“What is your thoughts about the cooperation between SJ and Industrial Optimizers?”

I think it is important to have a good cooperation with a supplier in these kind of projects. In my opinion Industrial Optimizers is always quick to respond to our requests and acts very professional at all times.

For more information...

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