



**InnoTrans 2018**  
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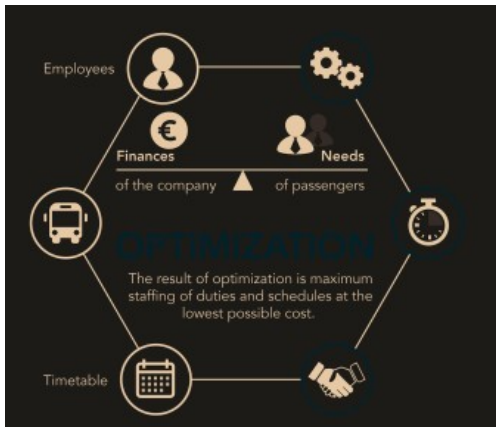


**INNOVATIONS  
AND TRENDS**

## Lifecycle management of public transportation



Multi-criteria optimization



Friendly UI/UX

The gmV planner offers PTA/PTOs a mighty tool for lifecycle management of PT service planning and operation with strong optimization capabilities. It generates optimal solutions for timetabling, scheduling and rostering, as per business rules, union agreements, etc. It reduces operating costs and improves offered services, thus providing a fast, proven ROI. It saves time-consuming tasks managing big data efficiently in an integrated way; i.e. rostering time reduced 25 times. Artificial Intelligence algorithms with multi-criteria optimization allow to plan multiple diverse scenarios comparable with custom KPIs, as well as to obtain alternative suggestions. The gmV planner currently supports the daily activities of approximately 30,000 vehicles and around 1,000 operators, providing an average reduction of 18% in downtime cost and 15% overtime labor cost.

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Subject to further change