



RAIL CREW SCHEDULER. AT SPEED. AT SCALE.

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algomia

Crew Scheduling is Complex

Many crew-tasks must be scheduled in due time respecting many labor rules.

Swiss Federal Railways:

5'000 drivers

5'700 qualifications

65'000 train legs

1'900 stations





Planning Efficiency Challenge: Manual Tools can't cope with the Complexity

- A lot of tedious routine work
- Timetable changes invalidate planning
- Tools provide only semi-automatic help
- Time-consuming manual planning: weeks per depot and months overall

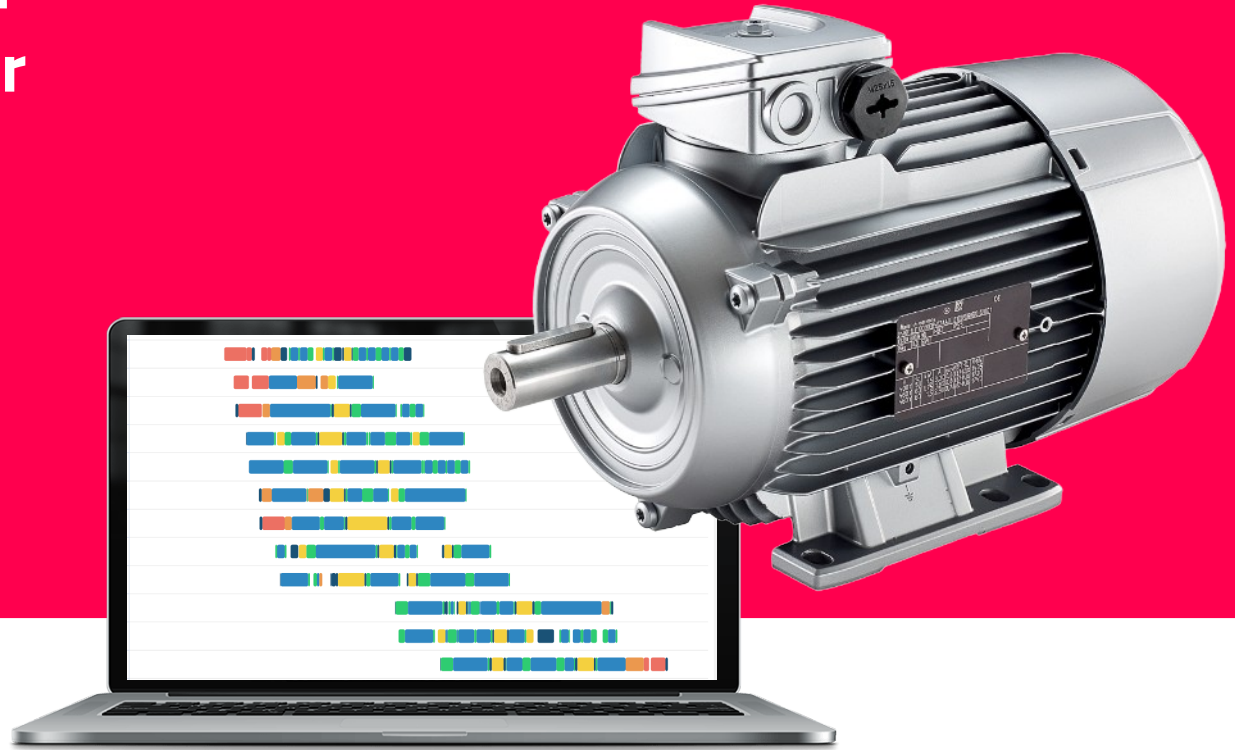
These obstacles lead high manual efforts, low speed, and lost efficiency.

Fast Optimized Crew Scheduler

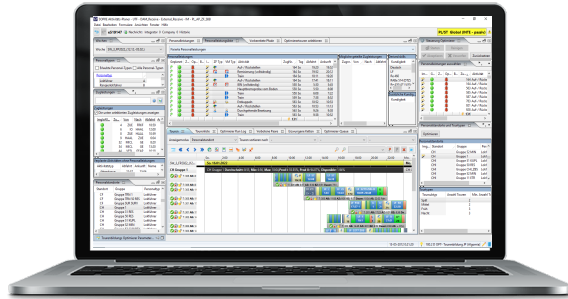
Faster planning by
algomia optimization
engine.

Allows evaluation of
planning variants.

More efficient
scheduling.

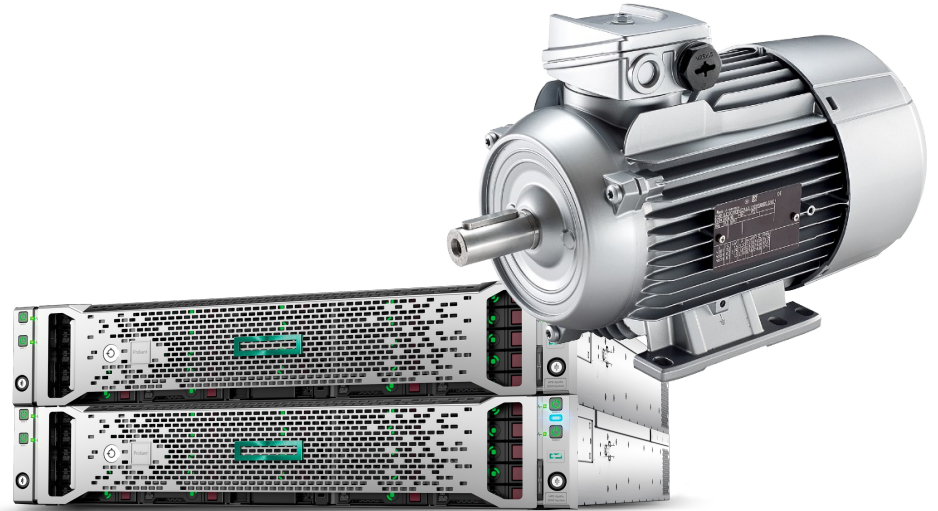


Crew Scheduling as a Service



Tool integration

Our crew scheduler will be integrated into your existing planning tool at low risk and high user acceptance.



High performance cloud

The optimization is run seamlessly on our high performance compute cloud, sparing your own resources.

BENEFITS

20-30x faster

We achieve significant speed-ups for you with our new fast crew scheduling algorithm, based on our mathematical insight and efficient implementation.

∞ parallel runs

Based on our high performance compute cloud, there are no limits on the number of optimizations you can run in parallel.

∞ schedule size

Our algorithm is built to scale: challenge us with your most intricate scheduling problem.

**Trusted by
Swiss Federal Railways**



Optimization in action

Our crew scheduling optimizer is in productive use at the Swiss Federal Railways since 2022, fully integrated. It has unfolded a significant speed-up of 20-30x compared to the previous solution.

Savings potential

The increase in planning speed and the efficiency of the schedules produced by our optimizer yields a multi-million CHF savings potential, recurring.

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The algomia optimizer is both seamlessly integrated with the existing planning software and is able to be deployed independently.

The runtime and quality of results open up new opportunities on how we can approach our daily business.

Jonas Jacot

Product Manager SBB

Get started now!

Optimize your crew planning with us



**Prototype
using your
data**



**Customer
fitting
project**



**Benefit from
efficient
optimization**

Dr. Alexander Souza Founder & CEO

Alexander has many years of professional experience in the optimization and software industry. He holds a doctorate degree from the ETH Zurich and is a professor for algorithms at the University of Zurich.



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