RailLab®

A comprehensive solution dedicated to railway operations

Robustness

Network

Schedule

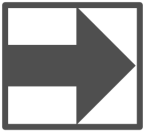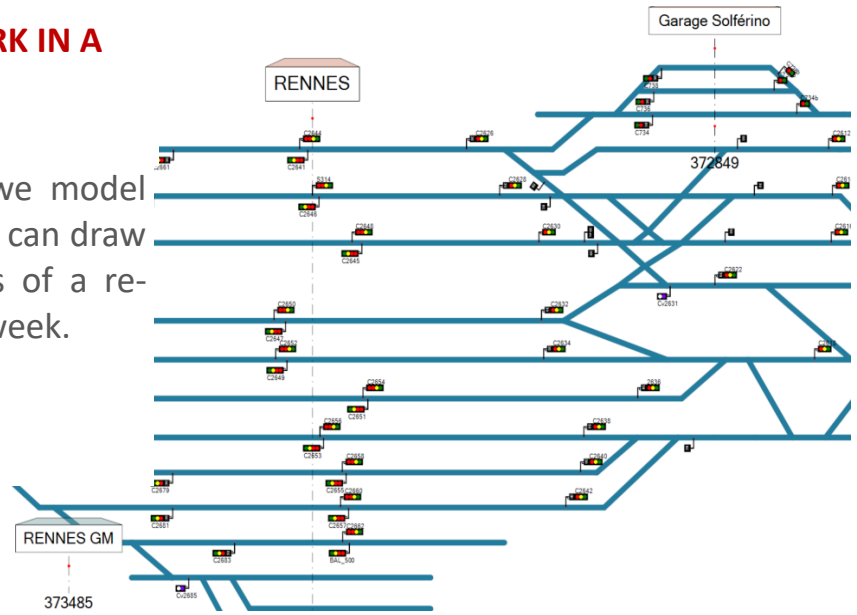**Exploitation**

Optimisation

New signal system

RailLab® | RailLab®'s strengths

MODEL A REGIONAL NETWORK IN A FEW CLICKS

RailLab® reinvents the way we model infrastructure: one single user can draw all infrastructure components of a regional network in less than a week.

SIMULATE TOMORROW'S NETWORKS: ERTMS, NExTEO, CBTC, ...

Precisely evaluate the impact of the most modern signalling systems: Automatic Block, TVM430, ERTMS, NExTEO, etc. All of them are precisely described in the software.
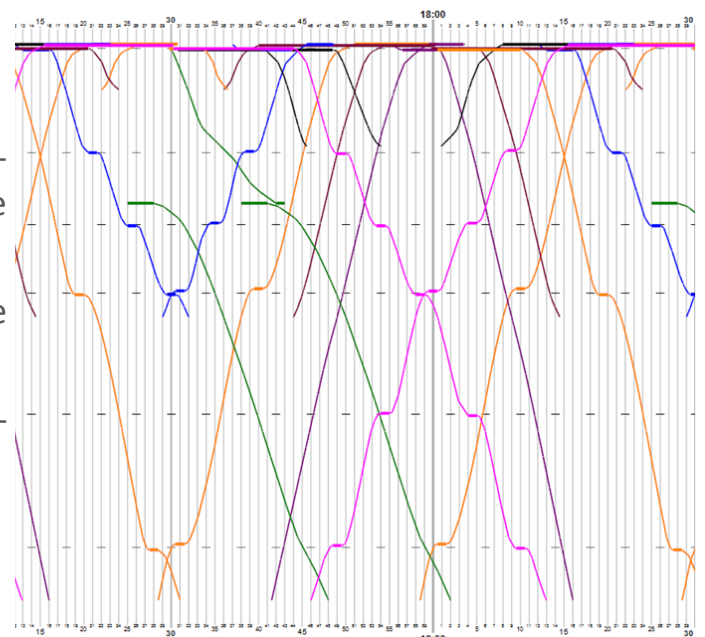

DEVELOP RELIABLE TIMETABLES

Develop your timetables: conflicts detection, visualisation of conflicts on the track occupancy diagram,

Easily adapt your timetables in the event of work periods,

Rapidly detect a timetable's weaknesses,

All in an ergonomic way.
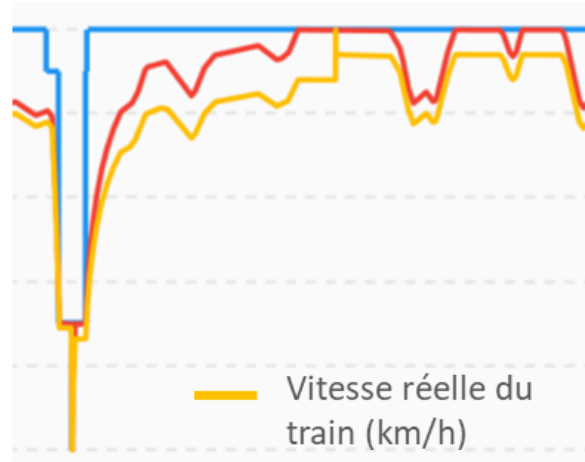
RailLab® | RailLab®'s strengths

TRAIN RUNS TO THE SECOND

Nothing is left behind: longitudinal profiles, electrical power supply, speed limits, train mass and length, acceleration capacities...,

Results cross-checked on numerous occasions,

Headway analysis, calculation of saturation rates on line and in stations (both in switch area and track area), electrical consumption.
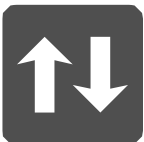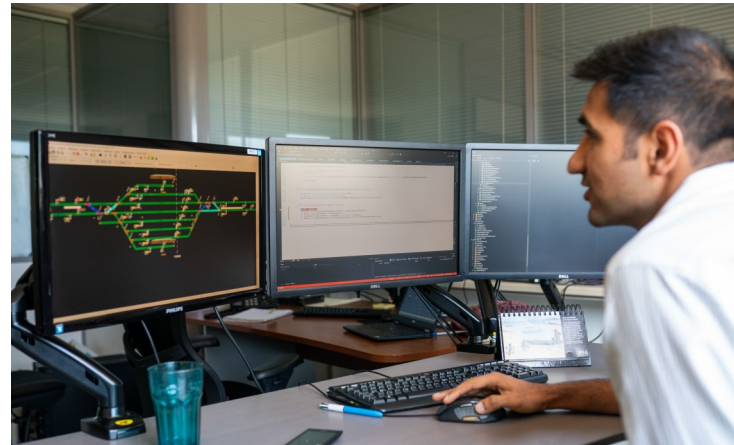

100 km/h
80 km/h
60 km/h
40 km/h
20 km/h
0 km/h

Vitesse réelle du train (km/h)

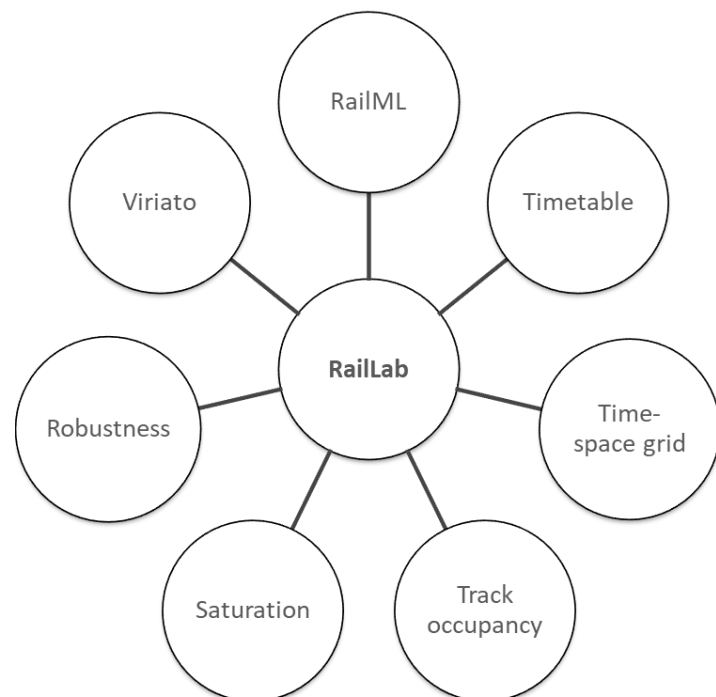## TESTING THE SYSTEM AGAINST DISTURBANCES

Model degraded situations, whether real or statistical,

Integrate large-scale simulations, regulation actions, etc.

COMMUNICATE ON YOUR TIME-TABLES SIMPLY

Export and import your production (grids, diagrams, etc.) within seconds thanks to numerous connections with professional databases and software: Viriato, SIPH, Houat, etc.

RailML

Viriato

Timetable

RailLab

Robustness

Time-space grid

Saturation

Track occupancy

rc rail concept creative solutions
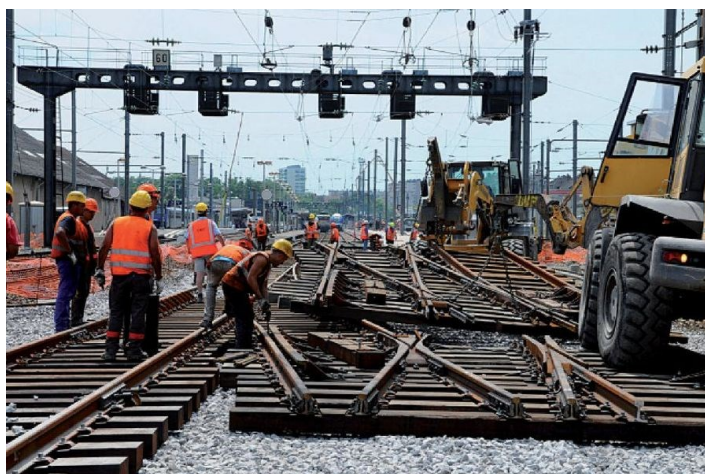
RailLab® | Success stories

EVERY DAY, THE CHANNEL TUNNEL'S TIMETABLES ARE CERTIFIED ON RAILLAB®

At GetLink, the company in charge of the Channel Tunnel operation, the planners have been working with RailLab® for 6 years.
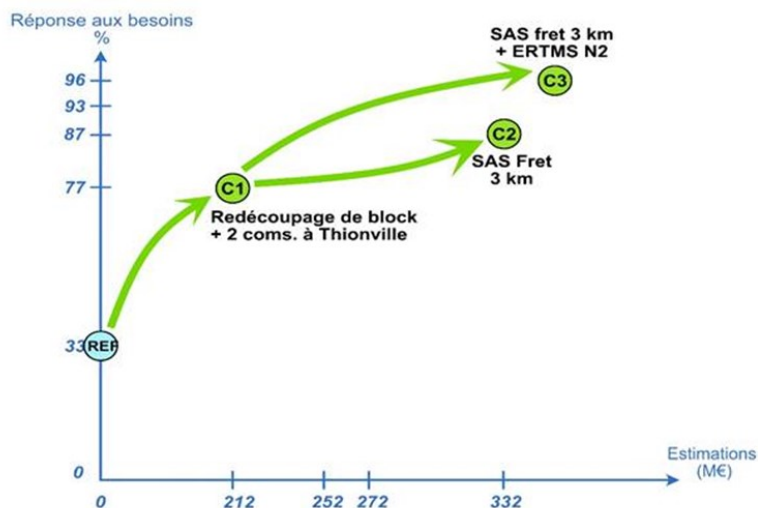

TIMETABLING FOR WORK PHASE IN PARIS-EST

RailLab® allowed us to identify all the scheduled work on the axis, and to propose robust and reliable adjusted timetables.

METZ-LUXEMBOURG

The detailed evaluation of the various developments envisaged has enabled us to identify the optimal investment path.
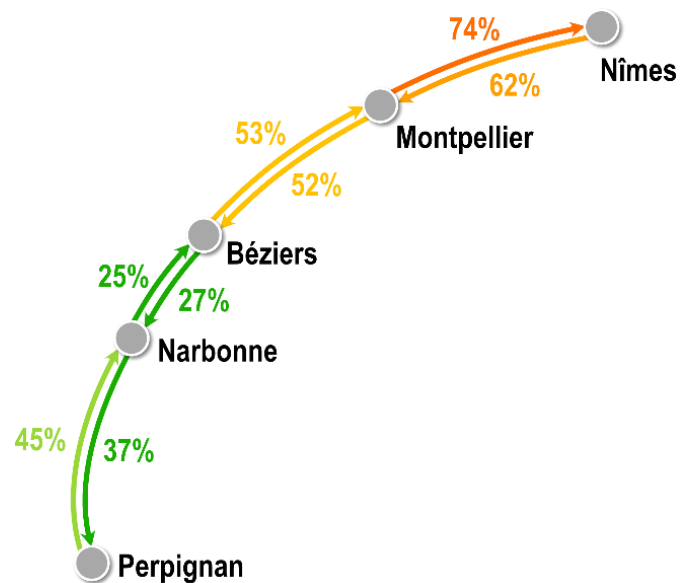
RailLab® | Success stories
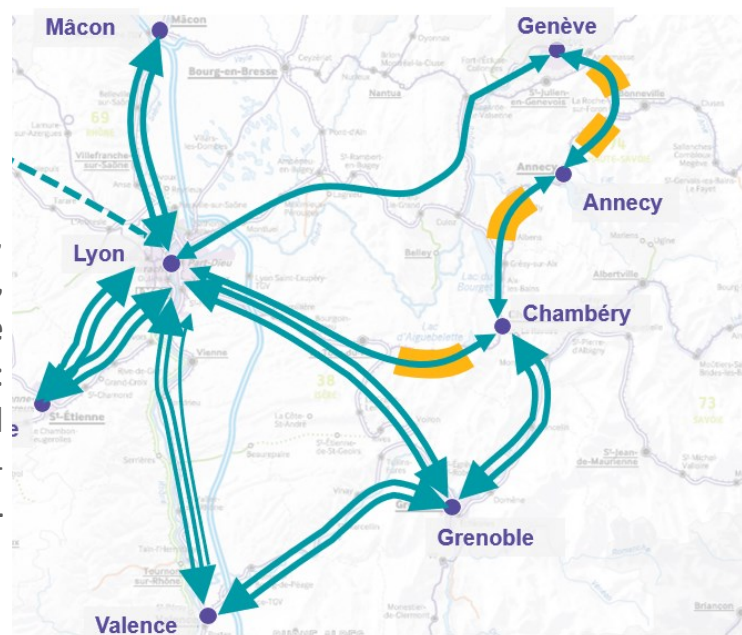
NEW MONTPELLIER - PERPIGNAN LINE

Construction of 24-hour timetable, impact analysis of mixed circulations between freight and passengers on operational robustness:

RailLab® has been central for 7 years in our studies related to the project of a new line between Montpellier and Perpignan.

EVALUATION OF THE DEVELOPMENTS IN LYON'S RAILWAY HUB FOR THE PUBLIC DEBATE

Creation of a 12th track (Track L), implementation of **ERTMS level 2, arrival of two trains on the same track** in Lyon Part Dieu's station: RailLab® enabled us to identify and assess the impact of the developments envisaged to **densify suburban services.**
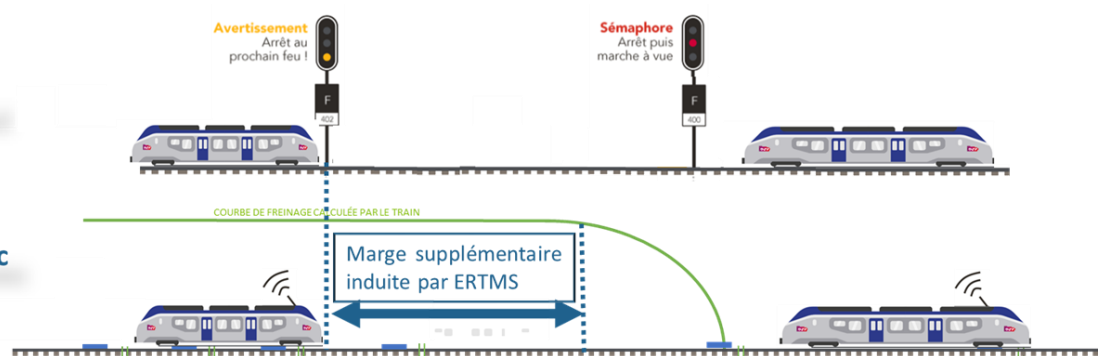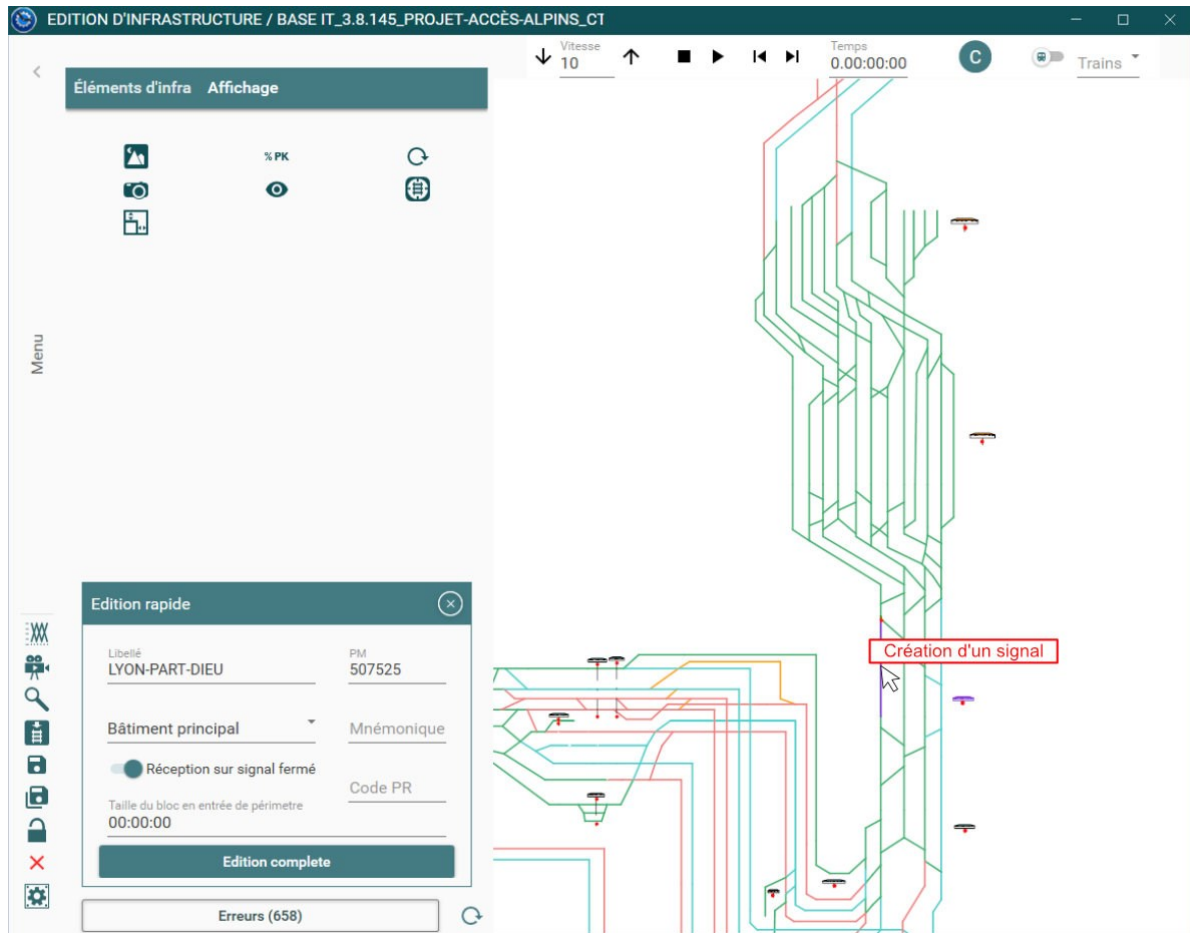

IMPLEMENTATION OF ERTMS L2 THE PARIS - LE HAVRE AXIS

Impact assessment of ERTMS L2 on the capacity of the axis and on the regularity of the services: our experts used the latest RailLab® features for timetable construction.

CONTACT US:

railconcept.fr

commercial@railconcept.fr

+33.(0)7.87.80.00.43