

Tram-train du MEDOC

Study of operational questions
in support of construction management of the tramway extension



Technical assistance & operations

Client: CUB Mission Tramway
Partner: TISYA

End : 2010

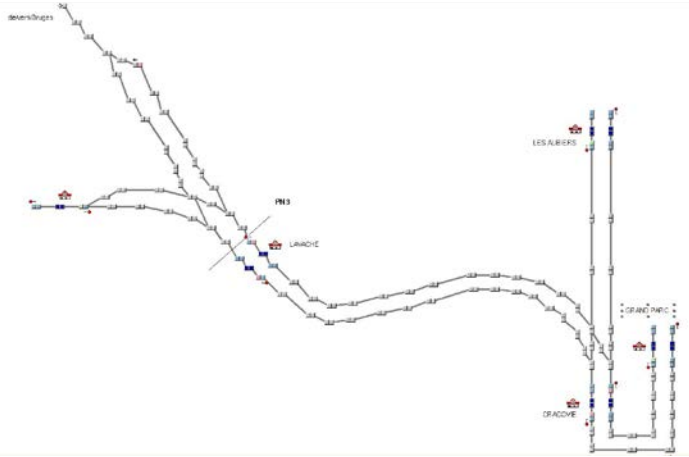


The Communauté Urbaine de Bordeaux is about to install a tram line on French national railway premises parallel to the existing single rail track; this project could evolve into a tramtrain on the national rail network serving Bordeaux, Le Bouscat, Bruges, Blanquefort and Pampy.

TYSIA as construction manager for the tram extension subcontracted to TTK a study on operational questions regarding the named extension.

This study was undertaken aided by the computer simulation tool OpenTrack. Among the typical questions for which OpenTrack was used in testing the scenarios (in terms of infrastructure and operations) were:

- An examination of the operational parameters, namely turnround times and a determination of operational plans (timetables, crossing points) under «static» meaning non-disturbed conditions (no delays),
- A test of the robustness of the operation as proposed in the «dynamic» simulations under disturbed conditions (delays) to verify the operational plans (crossing points) and the stability of the timetables,
- Conclusions and recommendations on the number and position of the crossing points on the single track line;
- Number of additional rolling stock needed to service the new line for the different operational scenarios.



Schematic representation of the network's typology

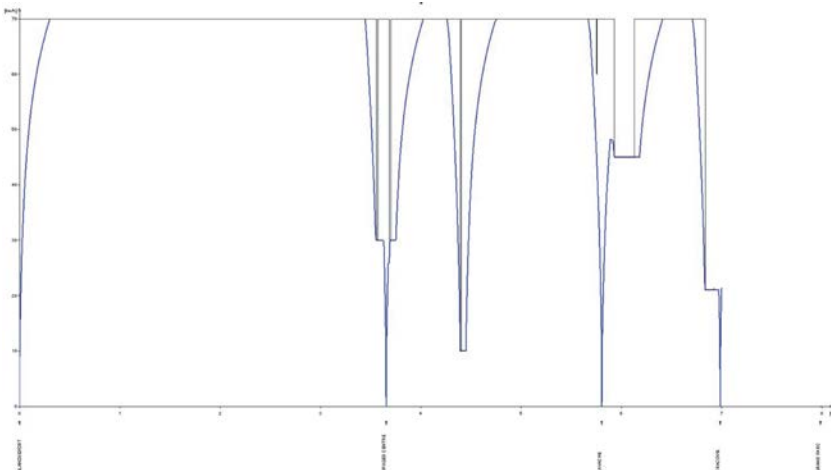
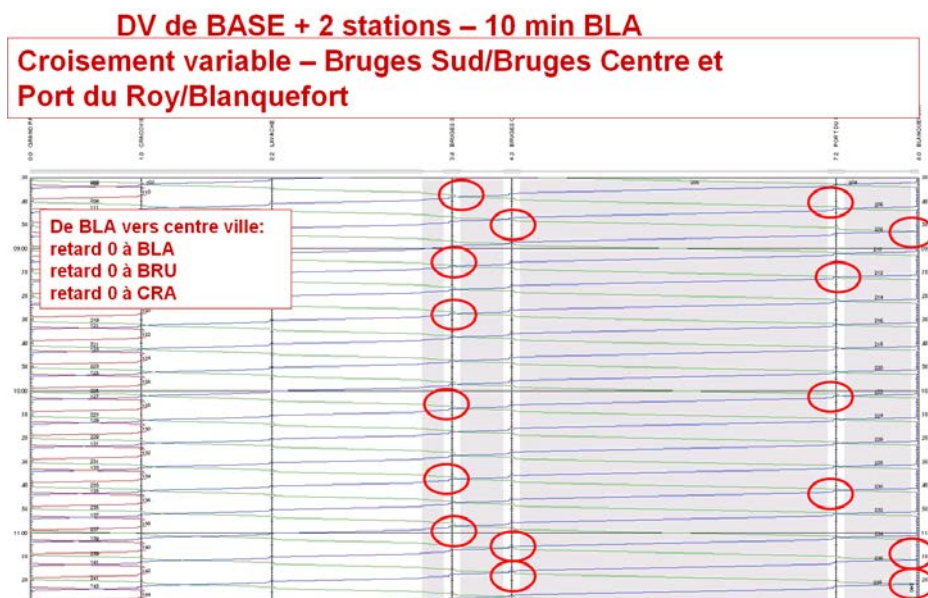


Diagramme for the running on the extension line with a tram vehicle



Simulation of a scenario under disturbed conditions