However, often managers do not consider vehicle maintenance to be at the core of their activity. BUT if there is a malfunction, the passengers bear the consequences of either badly-maintained vehicles and/or delays!

Site managers often have to deal with crucial issues:

- Use of crews
- Change of rolling stock, implying a complete redistribution of maintenance operations
- Optimization of the sequencing of existing maintenance operation
- Circulation of vehicles on the site

All these questions have an answer with a simulation model.

The SNCF (French railway company) has chosen 1Point2 and the partnership LGM-ExtendSim to develop an original and evolutionary model for its maintenance sites. This model can also be applied to all kinds of vehicles: buses, trains, planes, military vehicles...

With simulation, we can study the initial operation of the site, revealing the blocking points.

Then, it is possible to test various configurations without any physical constraints, and thus assess the real profitability of the envisaged changes, without spending astronomical amounts of time and money.

The easy use of the models, associated with fast calculation, allows many scenarios to be considered, and quickly leads to an improved maintenance site.

They trust us:
- Transpole,
- SNCF,
- Air France CDG Airport

Overview of a maintenance site developed from the SimTEC library
Several steps lasted over a year:

- Development of a model for three pilot sites
- Rolling out on a national scale:
  - Model tuning, to take into account all the basic parameters found in step 1
  - Building of all models
  - Upgrade to finest and final version for all models at the end of project

In addition, this model would allow each site to anticipate, by flow simulation, developments expected to cope with future needs (see box).

For it, the following indicators have been implemented:

- 2D animation of the model in order to see the vehicles moving about and to know in real time the use of resources and the number of vehicles off-delay
- Graphics for the number and utilization rate of resources
- Graphics for the number of vehicles on each track
- Different tables with all the traffic information for each vehicle entering the site.

We support industry managers with simulation to assist their decision making process.

Trained in industrial simulation in the United States and in France, the 1Point2 team provides since 1987 services, quality software, development, studies and training in the field of simulation.

1Point2 is the exclusive distributor of ExtendSim in France, Belgium, Italy, Spain, Portugal, and Greece.

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http://www.1point2.eu/