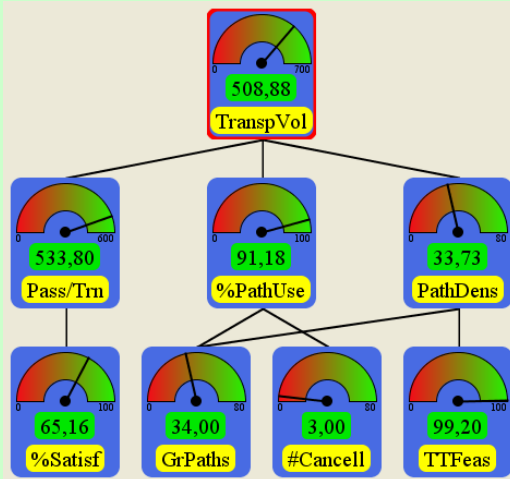


Performance



## KPI Assessment Tool

Insight into the Key Performance Indicators of the most important railway processes

Integration of information is the key for further growth of railway transport volume. Decision makers will be able to make better decisions once they have the right information at hand about their own processes and about the processes of their partners in business. InteGRail is the project that developed an enabling technology to allow universal access to existing information systems, be it databases, monitoring systems or existing user applications. For this purpose InteGRail defined a standard approach for architecture and communication. Using this standard approach a number of example applications were developed. To assess the impact on railway performance, a tool has been developed that allows visualising and studying the performance of individual railway processes and the interaction between these processes.



### What is the KPI Assessment Tool?

The KPI Assessment Tool is a PC based software tool that can be used to study the performance of the railways. Using a tree that represents the interactions between the individual railway processes, and their performance, the so-called Key Performance Indicators (KPI's), the tool allows to model, calculate and visualise the performance of a certain railway situation. A default tree is provided with the tool that represents a standard railway situation with a simple service, simple network and limited fleet. But the default tree is editable, and the user can also choose to start with a completely new tree.

### Who can benefit?

A variety of users can use the KPI Assessment Tool and different kinds of benefit can be expected. In the InteGRail project, the tool is used to assess the impact on performance that the project results can bring. For each application or new piece of information the project has made or enabled, an estimate is made of the benefit in the process where the information can be used. The tool is then used to assess the impact of these individual performances on the whole railway process, and eventually on the total transport volume.

Another benefit the tool can bring is insight. Insight into the interrelation of railway processes. Used as a guideline for discussion, the tool can be used as a Management Game, increasing all participants' insight into the most important railway processes' performance. For an optimal impact, participants to the Management Game have to have a responsibility for a performance contributing to total transport volume.

### Which benefit?

The assumption here is that understanding performance is a prerequisite to improve performance.

## Present status, availability and future possibilities

The tool has been developed for usage in the framework of the InteGRail project, and is available for InteGRail partners. Apart from using the tool to model and assess the performance in each of the three demonstration scenario's, the tool will be used for Management Games, e.g. during the InnoTrans Exhibition in September 2008. With the help of one of the developing partners further development of the tool or the use of the tool as a Management Game is possible.

### Other results of InteGRail

Architecture definition of integrated information systems: IGRIS

Semantic data structure of the railway domain, the InteGRail ontology

Example user applications: ODSS for on-line operational decision support, IAC for on-line infrastructure availability, IDT for on-line vehicle maintenance information

Description of interdependence of performance of railway processes: the railway KPI tree, and a tool to assess and visualise performance

### InteGRail - Facts and Figures

InteGRail started on 1/1/2005 and ends on 31/12/2008

Total project budget:  
20 million Euros

EC funding : 11 million Euros

Total effort over 125 person-years

39 partners from 11 countries

### Partners of InteGRail:

UNIFE • Alstom Transport • AnsaldoBreda • Bombardier Transportation • Siemens Mobility • UIC • Trenitalia • D'Appolonia • TSB-FAV • DeltaRail • ATSF • CAF • Nortel Networks • Laboratori Guglielmo Marconi • FAR Systems • MER MEC • Italcertifer • ATOC • České dráhy • MAV • UNICONTROLS • Strukton Railinfra • Deuta-Werke • Heriot-Watt University • IMEC • OFFIS • Televic • Seebyte • Kontron • University of Chile • INRETS • Wireless Future • University of Birmingham • ADiF • RFF • ARGE Corridor X • Network Rail • ProRail • SNCF

### More information:

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For more information on the KPI Assessment Tool: [pieter.dings@deltarail.nl](mailto:pieter.dings@deltarail.nl)

