

# iv2splus INFONET

I2V, 2nd Call (2008)

## time4trucks

The main objective of time4trucks is to relieve congestion in neuralgic junctions through the innovative combination of traffic forecast data and the transport scheduling data of companies (loaders), in order to avoid congestion, ineffective time, costs, planning uncertainty and the increased output of carbon dioxide to gain a win-win situation for infrastructure operators and infrastructure users (individual motor car traffic and goods traffic).

Traffic infrastructure comes up to its limits at rush hours at neuralgic junctions today. This situation will get worse within the next decades because of the superior increase of individual car motor traffic and goods traffic (over 50 and 35 percent by 2030) on the one hand. On the other hand, the demand for more traffic infrastructure can be satisfied deficiently. Therefore, organizational measures have to be taken in future, to realize a more efficient and better utilization of the existing and available capacity of the infrastructure. For this challenge, time4trucks should offer a new solution.

Bottlenecks at neuralgic junctions are created by increased appearance of private traffic, commuter traffic and goods traffic. The project time4trucks focuses on goods traffic (truck). The involvement of transport and logistics companies, loaders and the most important operators of Austrian traffic infrastructure, should enable to build a primary basis for an integrated traffic system to ease neuralgic junctions for a more efficient traffic flow of the existing capacity.

There is a lack of combining general traffic forecasts and traffic data and the planned inbound and outbound transportation of the companies, which are situated close to the junctions, to gain and calculate actual information about traffic volume and the plausibility of congestion at neuralgic points.

Through the development of an innovative "traffic relief model", based on a simulation tool, existing traffic data should be combined with scheduled inbound and outbound transports of closely situated companies via integrated interfaces, to calculate the feasibility of congestions, inefficient time, costs and the cause of carbon dioxide. With this information, companies can re-schedule their transports at different times to minimize costs, inefficient time etc. and to improve their planning situation.

The main objective of time4trucks is the reduction of bottlenecks, congestion, time loss, costs, planning uncertainty and carbon dioxide. Initial calculations attest the project idea. Due to the interdisciplinary project consortium and the support of the most important infrastructure operators, the achievement of the aims and the development of the "traffic relief model" is assured.

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### Project coordination

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