

➤ **STC**
Solution for
Transport
Companies



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➤ Solvable problems



The most pressing question for many companies connected with transport activities or having large motor vehicle pools is to correctly plan the work so as to optimise the profitability of the enterprise.

Many modern solutions for these enterprises do not consider all the specifics of the processes for each transport branch, including both the operation of the vehicle park and planning, accounting and interacting with participants in the marketplace.

A transport control system should consider these factors and others such as the volume and weight capacities of vehicles, refueling, effect of different kinds of fuel, and many other things.

PROBLEMS WHICH ARISE FOR TRANSPORT AGENCIES INCLUDE

- Inefficient use of vehicles
- High expenses for repair and maintenance services
- High cost of fuel
- Difficulties in planning activities

The Smart Technologies Group has developed the Solution for Transport Companies (STC) on a SAP platform which takes into full account all stages of activity - from the receipt of orders for transport services and the drawing up of primary documentation, to the analysis of operational and financial reports.

STC COVERS THE BUSINESS PROCESSES OF TRANSPORT AGENCIES AT ALL STAGES OF THE TRANSPORTATION LIFE CYCLE AND IS INTEGRATED WITH THE BASIC FUNCTIONALITY OF SAP, INCLUDING:

- Book keeping and reporting, general ledger, asset accounting
- Cost accounting
- Materials management
- Maintenance of rolling stock and equipment repair
- Personnel management and payroll

One of the main advantages of STC is that it is not only integrated with SAP but can also be integrated with the existing corporate systems of the enterprise.

In this case the information is transferred to existing modules of the enterprise's operating systems (Accounts Department, maintenance service and repair, assets, personnel management and payroll).

➤ Description



SCHEDULED ROUTES

The route passport reflects all the information directly connected with a vehicle setting out on a journey:

- The route to travel
- Average speed of movement
- Time indicators

The movement of the vehicle is scheduled in the route passport. Data are entered manually into the system, or automatically uploaded from external sources. This information is entered as planning targets in the component “Planning and account for expenses” (CO module).

ORDERS

The activity of the transport agencies which are not directly connected with providing transportation services is made in the Orders System and is captured in the Orders Journal. STC assigns to each Order a vehicle and personnel, data about which are stored in directories of the “Maintenance Service and Repair” component (PM module) and which can be synchronised directly with the “Personnel Management” component (HR module).

DATA IMPORTED FROM THE PM MODULE:

- Vehicle identification number
- Garage number for the vehicle
- Vehicle model and any modifications
- Vehicle type
- Vehicle destination
- Planning maintenance and repair

DATA IMPORTED FROM THE HR MODULE:

- Identification number
- Rank number of the driver.
- Name
- Work schedule
- Absences date
- Entry permit data

ROSTERS FOR SCHEDULED ROUTES AND EXCURSION TRAVEL

A work order is made according to the driver’s work schedule and the technical readiness of vehicles. STC provides daily, printed rosters to assist in planning the transport work of the enterprise. The printed rosters include.

- Rosters for scheduled journeys
- Rosters for excursions

DOCUMENT PROCESSING

Decision STC prints the following documents from the primary account:

- Routing sheet
- Schedule for payments for transport services
- Ticket registration sheet

Processing **routing sheets** provides information about vehicles and personnel from which the following reports can be made:

- Operating times and distances
- Vehicle idle times on routes
- Vehicle times in reserve
- Actual number of trips
- Actual fuel expensel
- Vehicle refuelling

The schedule for payment is the basis of the account for work performed presented to the Customer. At the time of document processing the totals for completed work are transmitted to the «Book keeping» component (module F1).

The ticket registration sheet is calculated from the completed routing sheets and reflects tickets issued to passengers. Processing the ticket registration sheets yields the following information:

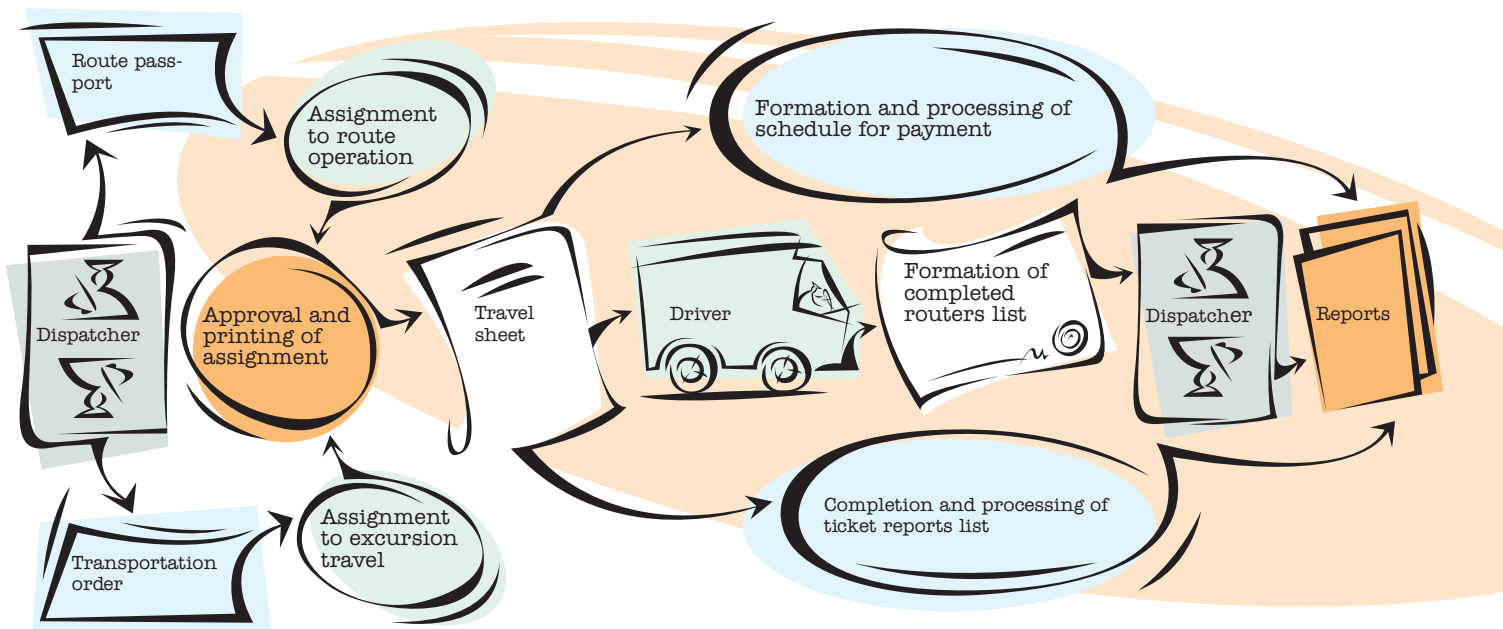
- Working times for conductors
- Number of tickets sold
- Cash taken

At the time the documents are processed data is transmitted to:

- “Book keeping” component (F1 module) - information on cash
- “Personnel Management and Payroll” component (HR module) - actual working times of conductors, cash taken for the calculation of bonuses

REPORTS

Forecast and actual reports for any period of time, any garage, any employee, and vehicle and so on.





➤ Advantages STC

THE SHORT TERM EFFECTS OF INTRODUCING STC INCLUDE:

- Tracking and planning activity
- Optimizing the loading of routes and individual vehicles
- Increased data about vehicle use
- Supervision of vehicles on a route
- Effective interaction with existing information systems

➤ Success history



Мосгортранс STC IN THE MOSGORTRANS

The Mosgortrans is the main operator of land passenger transport in Moscow and is the world's largest enterprise for such transport. The rolling stock of the Mosgortrans carries more than 47 % of the total number of ground transport journeys in the city and daily transports more than 6 million passengers. The Mosgortrans has

- 53 branches
- 687 routes
- 37,000 employees

THE PRIMARY GOALS FOR INTRODUCING STC:

- Controlling fuel expenses
- Controlling transportation costs, including the prices for fuel, spare parts and the wages of drivers and conductors
- Real-time control of all transport branches

THE BENEFITS OF STC HAVE BEEN:

- To unify business processes and primary documentation throughout the enterprise
- The rigid supervision of expenses
- A reduction of time taken for data input
- Operative and long-term planning based on a system of reporting
- Integration with external systems (management information systems «Navigation», «Flight»)

There are more than 1,500 active users every day.



STC IN THE MOSCOW METROPOLITAN

The Moscow Metropolitan is the foundation of public transport in Moscow which leads the world in terms of passenger volumes and concentration. Almost ten thousand trains a day pass over 292 kilometres of track distributed among 12 lines. Depots store more than 4,500 passenger cars in more than 500 structures. The Moscow Metropolitan has

- 15 electrodepots
- 176 stations
- 35,000 employees

The high frequency and reliability of services on the Moscow Metropolitan is due to the application of modern technologies and new techniques, and with the use of the advanced international experience of the largest transport companies in the world.

THE PRIMARY GOALS FOR INTRODUCING STC:

- Observing the legislative requirements and regulations of the Russian Federation
- Exact accounting of working hours of the locomotive brigades
- Exit control of drivers and assistant drivers from train lines

THE BENEFITS OF STC HAVE BEEN:

- To unify the processes for planning and accounting for the working hours of locomotive brigades
- To introduce uniform algorithms for the production of detailed and summary reporting
- To lower the number of data input errors due to the introduction of data control functions
- To lower data input expenditures by eliminating repeated input

COMPONENTS OF STC INTRODUCED INTO THE MOSCOW UNDERGROUND

- Registration forms for drivers and assistants
- Scheduling and breakdowns of scheduling changes
- Planning of working hours for locomotive brigades
- Processing completed routing sheets
- Summary reporting of working expenses of the locomotive brigades

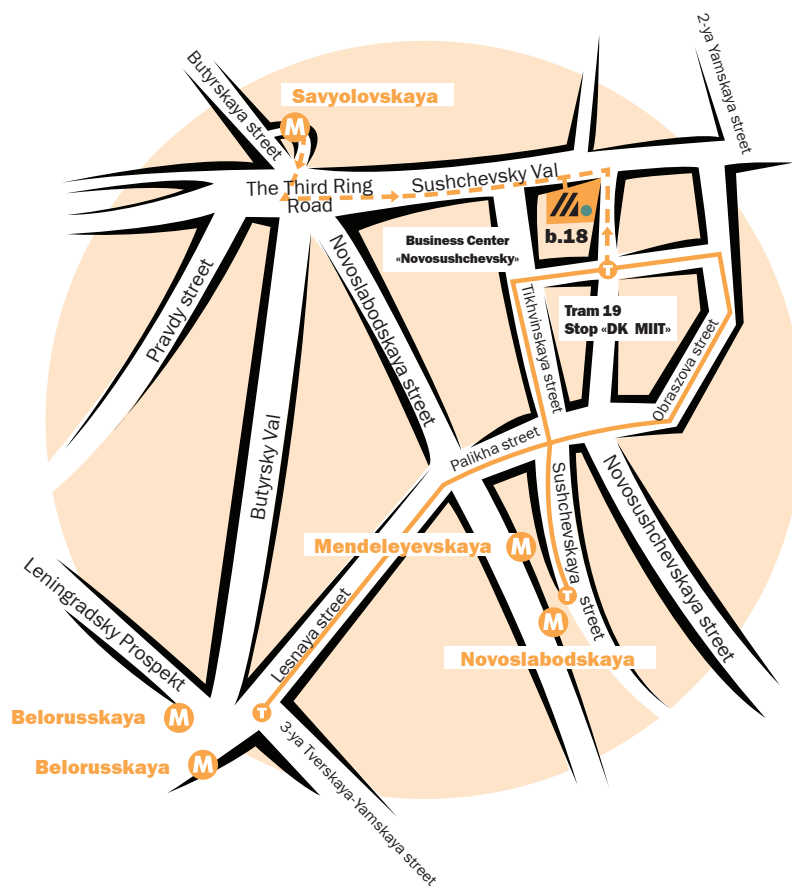
About the company

THE SMART TECHNOLOGIES GROUP has more than ten years' experience in implementing full-scale infrastructural projects, from the creation of corporate information systems to specialised branch decisions.

The company occupies a unique place in the development of technological solutions and consulting in the transport arena. The systems introduced by the Smart Technologies Group process more than 15 million transactions a day, and optimise industrial activity, reduce expenses and provide reliable and valid for decision-making.

The Smart Technologies Group is a certificated partner of SAP AG, and offers clients a complete solution introduced on a "turn-key" basis, from working out of a concept through to training and support of an operational system.

Long-term cooperation with such large enterprises as Mosgortrans and the Moscow Metropolitan are a testament to the Smart Technologies Group as a highly professional and reliable partner.



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