

Solutions for mobility in cities

More and more people live in major cities. By 2050 the figure will have reached 6.4 billion – 70 percent of the world's population and almost twice the current level.

Cities are engines for growth, employment and prosperity, and currently account for 80 percent of global economic output. Estimated annual expenditure on urban infrastructure is put at two trillion euros worldwide. Yet urbanization also has its downside, with noise, pollution and traffic chaos on the increase.

Above all, road traffic has reached its limits in many cities: traffic jams cause time to be lost, while cars stuck in them unnecessarily consume energy. Reducing traffic jams cuts fuel consumption and air pollution. In comparison to stop-and-go traffic, flowing traffic lowers fuel consumption by up to 20 percent with up to 50 percent less nitrogen oxides and up to 33 percent less carbon monoxides emitted in exhaust fumes. The challenge is clear: we have to improve the flow of traffic in urban areas.

Quality of life in cities and their competitiveness increasingly depend on fast, secure and reliable local public transport.

The faster the population grows, the greater the burden passengers put on local public transport infrastructures. Cities can rarely expand capacities in their local rail transport system as much as is needed. There is usually lack of space, the costs are significant and new construction projects need plenty of patience. In difficult economic times, making better use of existing infrastructure is an essential approach for cities.

Siemens is the only company to plan and offer integrated transport and logistics solutions from a single source. Different transport systems are networked so that

people and goods can be conveyed in as safe, eco-friendly and convenient way as possible. The Siemens Infrastructure & Cities Sector combines multiple offerings to make comprehensive, all encompassing solutions. These include operations management systems for rail and road traffic, rail electrification, rail vehicles for local, regional and long-distance transport, stations are equipped with security systems and solutions to optimize passenger flow, as well as service and maintenance for systems and vehicles. Each of these solutions offers significant input into reducing overall energy consumption,

A broad variety of these solutions are integrated into one mock-up station in the exhibition "Going underground: Our journey to the future".

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