



mizar

MIZAR Automazione S.p.A.

Full line ITS solutions for the Integrated Road Transport Environment

di traffico						
	Icona	Descrizione	Stato	Schedulatore	Fonte	Utente
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IS0212110RP

The company



- MIZAR is the transport telematics specialist of the SWARCO Group
- Established in 1981 in Turin, there are also offices in Rome, Verona and Naples
- Installations in 13 countries.
Well known worldwide as a leader in the ITS field.
- Reputation reinforced by involvement in major European ITS research projects



SWARCO | First in Traffic Solutions.



SWARCO is a growing international group headquartered in Austria. The SWARCO companies provide the complete range of road marking, signalling and traffic management products, services and solutions.

“SWARCO has developed into a strong corporate group that is among today's leading international traffic technology suppliers. We want to continue this path of success together with you, our partners, and be your first choice in road safety and intelligent traffic management worldwide.”

Manfred Swarovski

Chairman and founder of SWARCO

- www.swarco.com

14.09.2011

A Company of the SWARCO Group



CORPORATE OVERVIEW

Leading positions



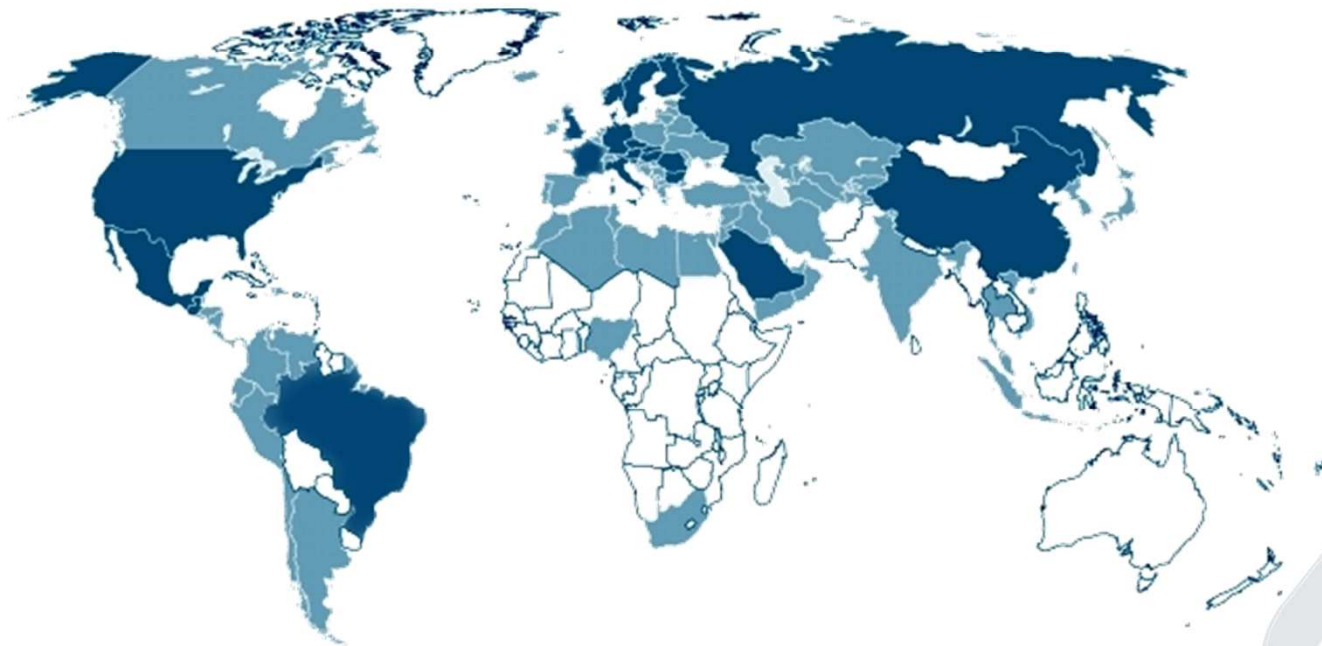
- 80 companies in 20 countries
- World's no. 1 in traffic signal production
- World's no. 2 in glass bead production
- The most comprehensive range of road safety and traffic management solutions (one-stop shop)
- Industry leader in LED signalling and **adaptive traffic control**
- Market leader in traffic management in the Nordic region
- Germany's no. 1 road marking material manufacturer
- Most comprehensive marking material range in the USA
- Among Europe's Top Five in road marking contracting
- 40 years of experience in the industry

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CORPORATE OVERVIEW

Locations



SWARCO RUSSIA

Our address in Russia's capital
Lesnaya str. 20/2
125047 Moscow
Russia

Country with SWARCO
Company / Production site

Due to a dense network of cooperation partners, SWARCO
quality solutions can be found in over 60 countries worldwide.

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TRAFFIC MANAGEMENT DIVISION Scope



Better traffic flow increases Road Safety and helps the environment. SWARCO Traffic Management (STM) is a unique group of companies dedicated to achieving these goals.

STM activities concentrate on

- Urban Traffic Control
- Inter-urban Traffic Control
- Parking
- Public Transport
- Infomobility

with related installation, maintenance and project management services.



SWARCO Total Traffic Solution

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Excellence in four business areas

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omnia

utopia flash net mistic fleetrunner ...

EXCELLENCE IN FOUR BUSINESS AREAS



Traffic Control



Public Transport Management



Infomobility



Integrated Solutions

Traffic Control - UTOPIA



- **UTOPIA** created in the early 80s. Since then subjected to in-depth assessment, and numerous enhancements via R&D programmes. It is now installed in many locations in Europe and elsewhere.
- It is a **fully adaptive** system, where intelligent intersections co-operate (every second) and decide what to do...
- **Hierarchical** and **distributed** system
- It is the best, unmatched performer in:
 - Congested and variable traffic scenarios
 - Where public transport priority is needed

Average travel time savings: 16%

Average queuing time reduction: 50%

Public transport average speed increase : 20%

Main references:
**TURIN, BUCHAREST, EINDHOVEN,
BOLOGNE, ROME, VERONA,**

Public Transport - FLASH



- **FLASH** is the MIZAR most diffused system
 - Platform for the management of public transport operations
 - Real-time vehicle location
 - Control of regularity of bus/tram services
 - Fully integrated with real-time passenger information systems
 - Open to integration with external systems (ticketing, scheduling,...)
 - Telecommunication bearer independent (VHF, GPRS, TETRA;...)
- **Main References:** BARCELONA, PATRAS, CAGLIARI, FLORENCE, NAPLES, TURIN ...



- **MISTIC**: an **integrated** and **modular** solution for:
 - Traffic monitoring, management and control
 - Diffusion of traffic related information
- Integration with existing systems
- Real-time information through several parallel channels
- Traffic model management: in real-time operations and for forecasts
- Use of EU standards (channels, data model, data exchange specifications)

mistic



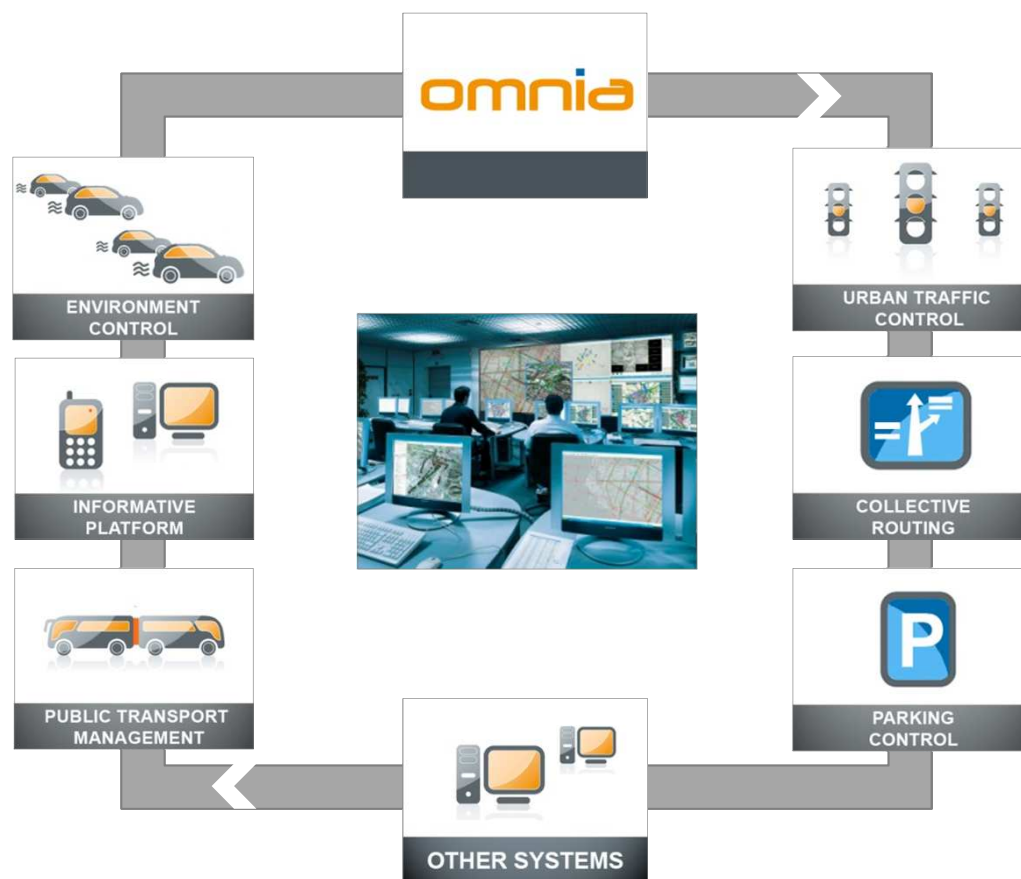
Main References:

CCISS (ROMA),
5 Centri Autostradali,
TORINO, BUCHAREST,
ATTIKA, VERONA,...

SWARCO Total Traffic Solution

CONTROL & COORDINATION OF ALL SYSTEMS

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➤ OMNIA is an open platform designed to functionally integrate and to offer easy access to a wide range of ITS applications through a common interface





MIZAR 14/09/2011

➤ Some achievements

Few examples



TURIN

Traffic management

- 288 intersections controlled
- 20 VMS routing
- 26 VMS parking guidance

Public Transport System

- 1.300 bus/trams
 - 153 bus stop displays
 - 150 automatic voice announcement
- 21,6% reduction of travel time for citizens
 - 10% reduction in CO₂ emissions
 - Very short Pay Back Time



WINTER OLYMPICS TURIN 2006

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Background

- ▶ Winter Olympics, 10-26th February 2006
- ▶ Events in two areas: City of Turin, and in mountain resorts to west of city



Few examples



BMTS : BUCHAREST

First large system SWARCO/MIZAR

- **Mizar products: UTOPIA, FLASH, MISTIC**
 - **Design, Deployment, Calibration**
 - **150 intersections**
 - **300 buses**
- **- 20% travel time in the controlled area**
 - **- 10% in CO₂ emissions (-600 tons/ year)**
 - **+ 1,5 million EUR productivity gain/ year**



Few examples



Barcelona Public Transport

- **1100** buses
- **30** bus stop displays
- **520** on-board displays
- Mizar is assisting the PT company since more than 10 years



Verona – Traffic Control

- **58** intersections controlled
- **17** VMS
- **11** traffic monitoring and classification units
- UTOPIA Plan Selection based control strategy



Few examples

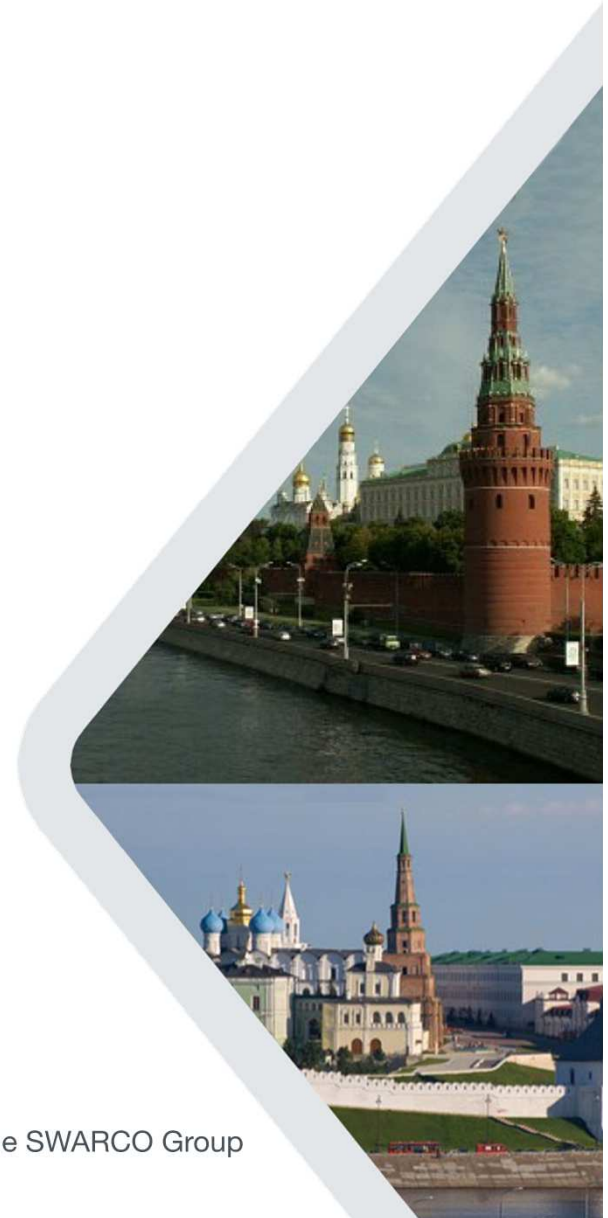


Moscow

- First installation
- UTOPIA adaptive traffic control
- First pilot operative; good performance
- Large system in deployment

Kazan

- Full ITS system for the city (Universiades 2013)
- ITS (OMNIA), Traffic Control (UTOPIA), Infomobility (MISTIC), VMS (Compass)





Thank you for your attention

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