



SOCHI 2014
INTELLIGENT TRANSPORT SYSTEM
&
TRAFFIC
MANAGEMENT SYSTEM

A presentation to:

Mr. Vladimir Kryuchkov – CEO at ITS Russian Federation

Mr. Konstantin Tikhonov – Minister of Transportation

Rome, 14 September 2011

Table of content

1. Group Overview
2. International Development
3. Autostrade Tech
4. Autostrade Tech for Sochi 2014



1. Group Overview



Group Overview

- 3,413 km toll motorway network under concession in Italy
- Leader in electronic toll collection with over 7.3 million customers
- Largest Italian private investor in infrastructure with over €18bn of projected major work
- Recent acquisitions selectively increased Atlantia's international presence
 - Chile (303 km)
 - Brazil (442 km)
 - Poland (61 km)
 - India (110 km)
 - US (ETCC)
- Best credit rating in the industry



Italian Toll road Network	Length km	% of toll revenue	Maturity
Autostrade per l'Italia	2,854.6	86.2	2038
Strada dei Parchi	281.4	1.9	2029
Autostrada Torino-Savona	130.9	0.4	2038
Autostrade Meridionali	51.6	2.2	2012
Autostrada Tirrenica	36.6	0.8	2046
Paccordo Autostradale Valle d'Aosta	32.3	4.4	2036
Tangenziale di Napoli	20.2	1.8	2037
Mont Blanc tunnel	5.8	2.3	2050
Total Group network	3,413.4	100%	
■ ANAS and other concessionaire			

A History of Leadership

1924—25

- First toll motorway in the world (Milan - Como -Varese, 85 km)

1958—64

- Opening of the Milan—Naples motorway (800 km)

1990

- First dynamic toll-collection system in the world (TELEPASS®)

1995

- First privately financed toll motorway in the USA (“Dulles Greenway” in Virginia)

1999

- Largest motorway privatization worldwide

2003

- Opening of the first toll motorway in the UK (“M6 Toll” near Birmingham)

2004

- Opening of the first nation-wide “dynamic free flow multilane” toll-collection network in the world (Europass in Austria; 2000km tolled)

2007

- Acquisition of the US company ETCC, leader in the integration of free/flow toll systems

2011

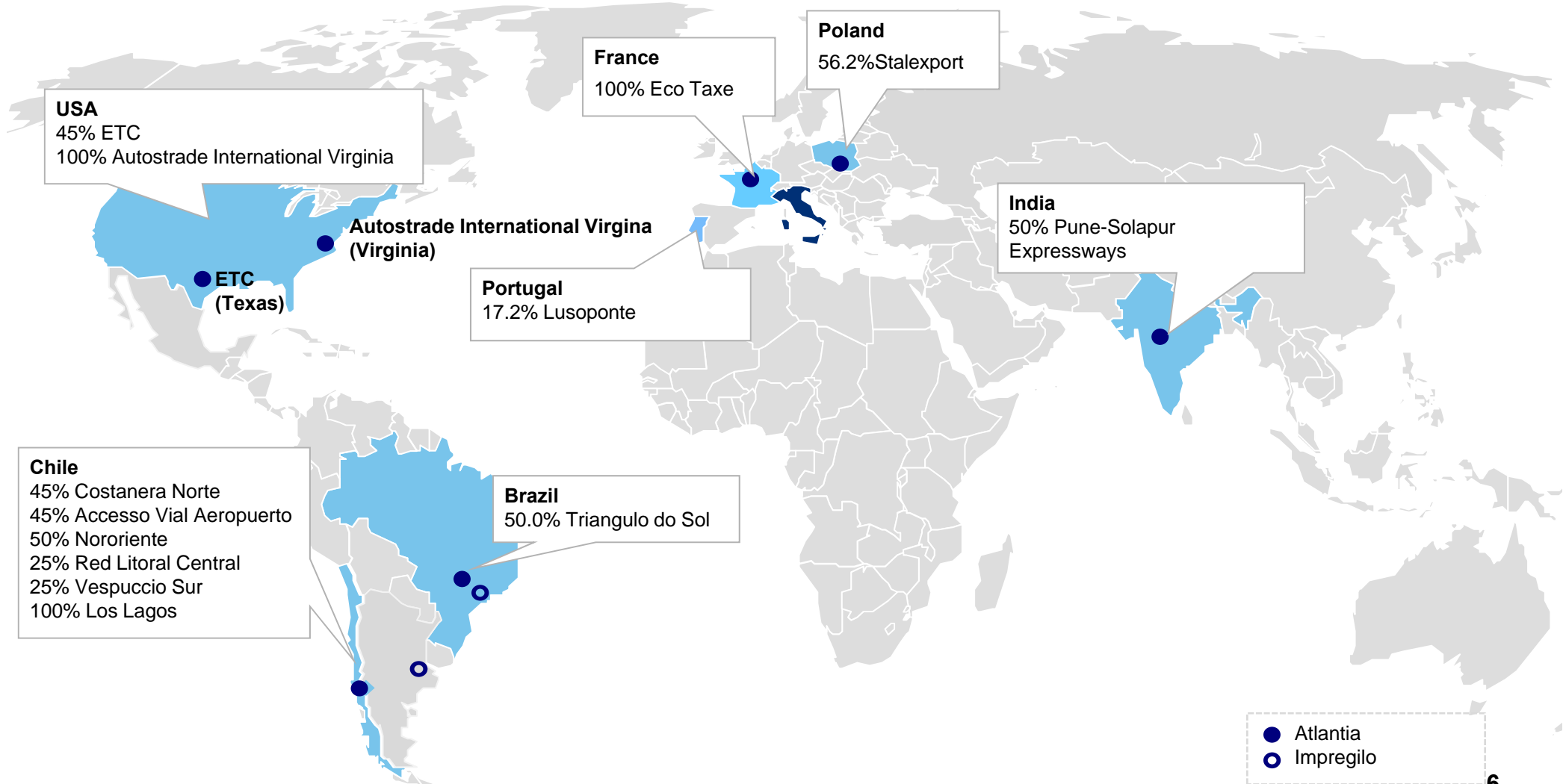
- Eco Taxe Project in France. GNSS based solution for HV

2. International Development



International Asset Portfolio

- Recent acquisitions selectively increased Atlantia's international presence



3. Group Overview: Autostrade Tech



Autostrade Tech's positioning

In 2010, Autostrade per l'Italia granted the technology assets to Autostrade Tech a 100% ASPI's Company



Autostrade Tech's Strategic Guidelines

The role of Autostrade Tech in the market can be summarized through the following main activities:

- Providing solutions and products on national and international markets
- Providing solutions and products for transport telematics application to all Atlantia's international concessionaires.
- Technological competence center for the entire Atlantia group
- Participation in tenders to award supply, integration and management of electronic toll systems (Satellite and microWave) and Traffic Management System for large events (e.g. Olympic Games)

Products and services



On-Board Units



TELEPASS Lane



Automatic Cash Lane



Automatic Card Lane (Viacard)



Videocameras



SOS Box

*SYSTEM
DESIGN*

*PLANNING &
DEVELOPMENT*

*MATERIAL &
SERVICE
PROCUREMENT*

*INSTALLATION
& TEST*

*MAINTENANCE
& SUPPORT*



Variable Message Signs



Power Continuity Devices



Weather Stations

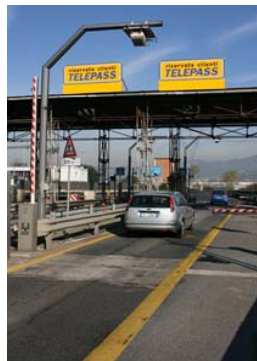


Safety Tutor

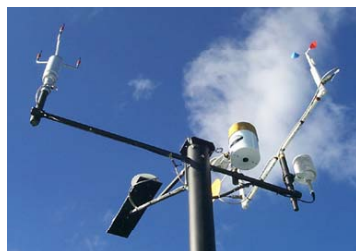
Technological infrastructure



2.197 Cameras
over 500 Traffic Sensors



1.124 Telepass
Gates



590 Weather
sensors

Stationary
Infrastructure

On-demand
Infrastructure



Cameras



Variable
Message
signs





3. Autostrade Tech for Sochi 2014



Autostrade Tech's positioning

- Autostrade Tech has got stable partnership connection with “NGO JSC -TOLLTEC” – a relevant player in the ITS projects in the Russian Federation



- In December 2010, Autostrade Tech - along with its italian partner LIT, 5T and IVECO (FIAT Group) - entered into a Partnership Agreement in favor of NGO-Tolltec



- In January 2011 NGO-Tolltec and the ANO “Olympic Games Transport Directorate” entered into a Contract for the development and implementation of Complex scheme of traffic management in the City of Sochi and Automated traffic control system of the City of Sochi within XXII Winter Olympic Games and XI Paralympic Games, 2014, Sochi
- Within 2011 Autostrade is going to open an office in Moscow

Mission

- To guarantee efficient and safe transport during the Olympic and Paralympic Games
- To make the Olympic transport compatible with the background transport of the involved areas
- To apply the service and quality references contained in the IOC specifications
- Ensure safe, reliable, efficient and customer oriented transport services for all clients
- To create an Urban Traffic Management System for Sochi for the Pre-Olympic, Olympic and post Olympic periods

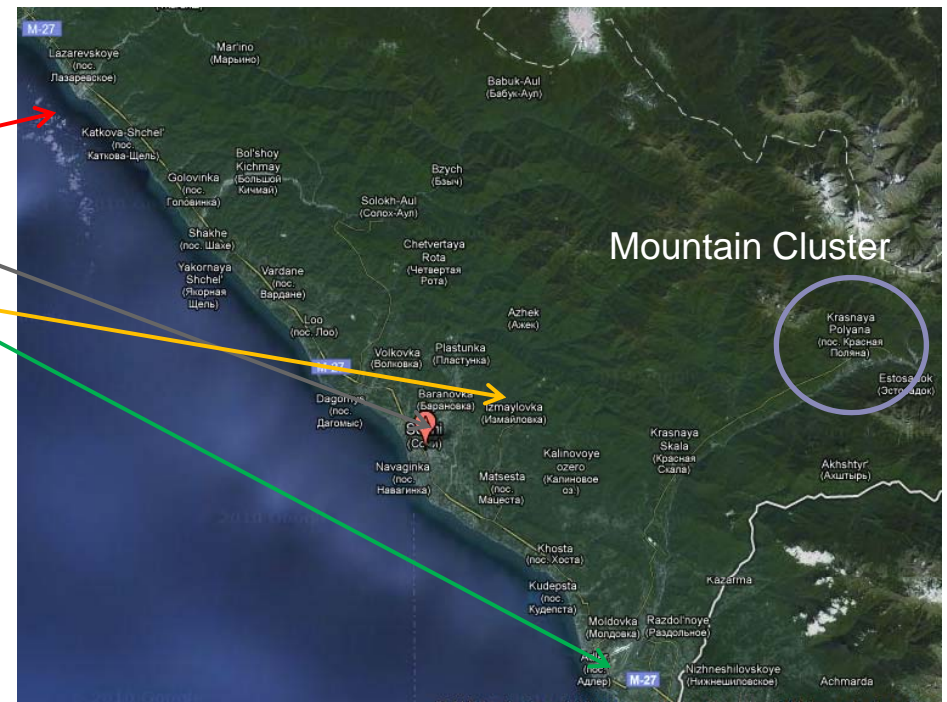
Sochi is located on the Black Sea coast. The length of the city - about 150 km. The city consists of four areas:

- Lazarevsky
 - Central
- Khostinsky
 - Adler

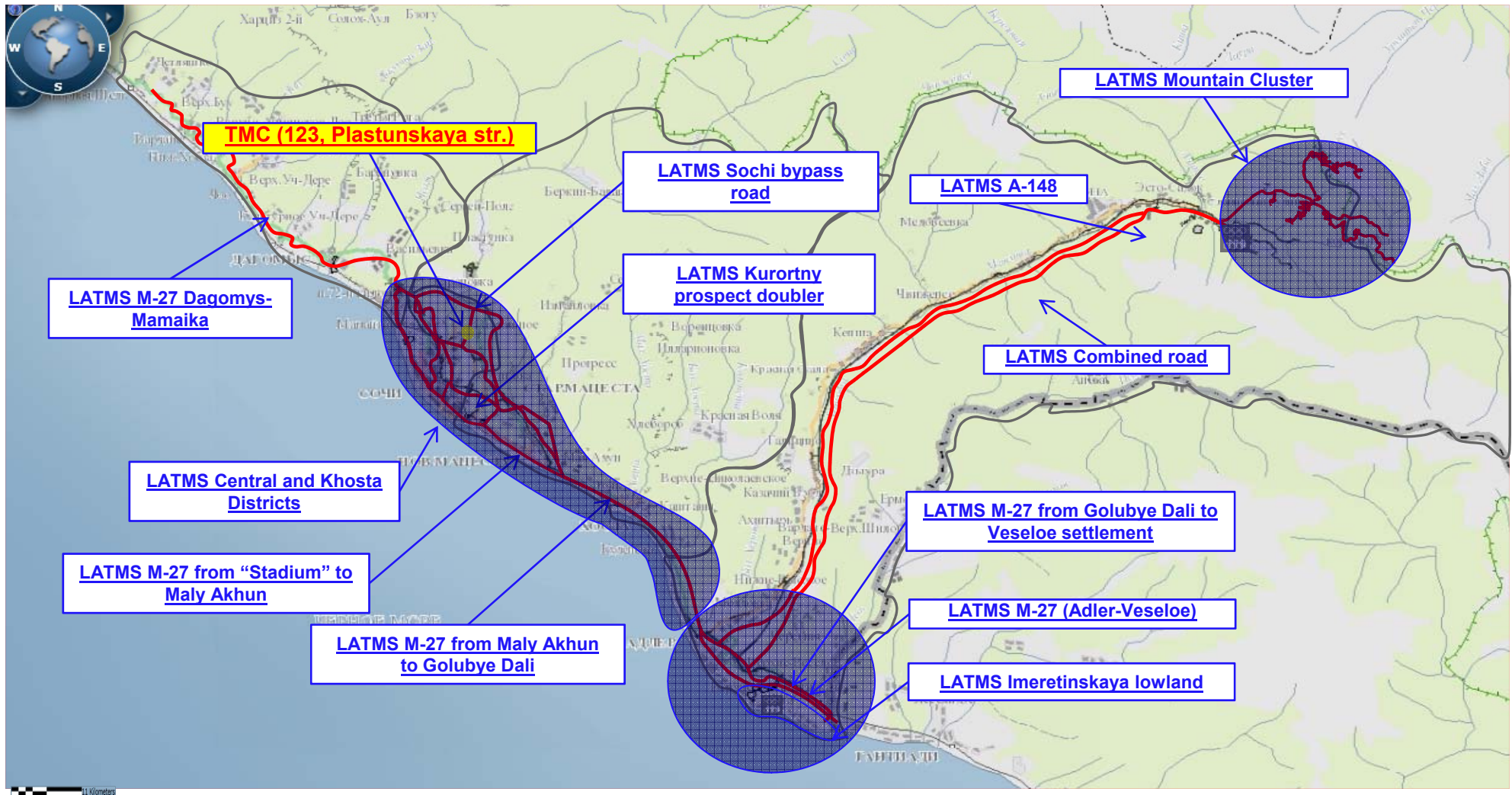
The length of the road network in Sochi is 2450 km.

On the territory of Sochi are two federal roads

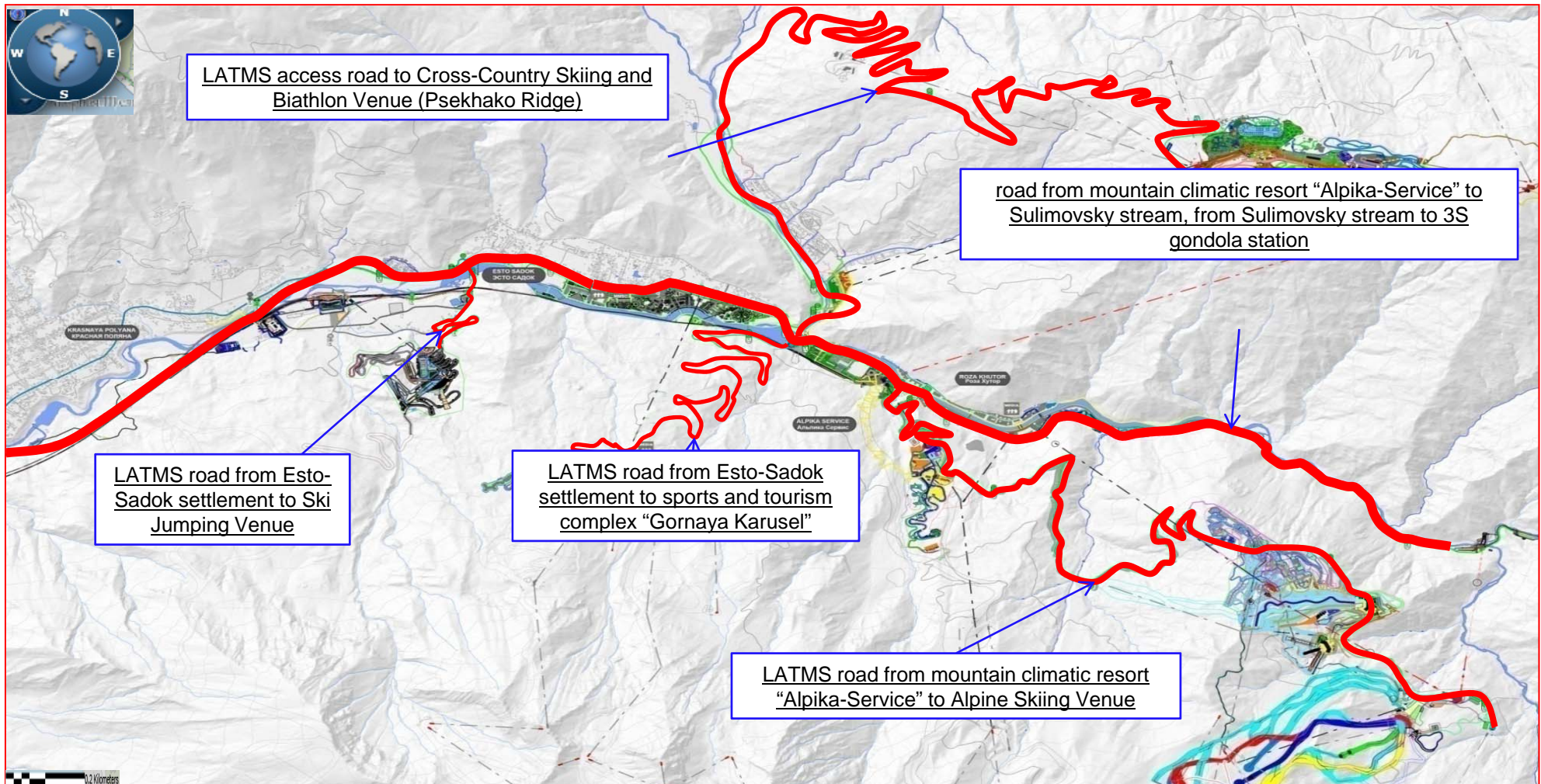
- M-27 "Dzhubga - Sochi - the border with Georgia" 185 Km
- A-148 "Adler - Krasnaya Polyana" ar 50 Km.



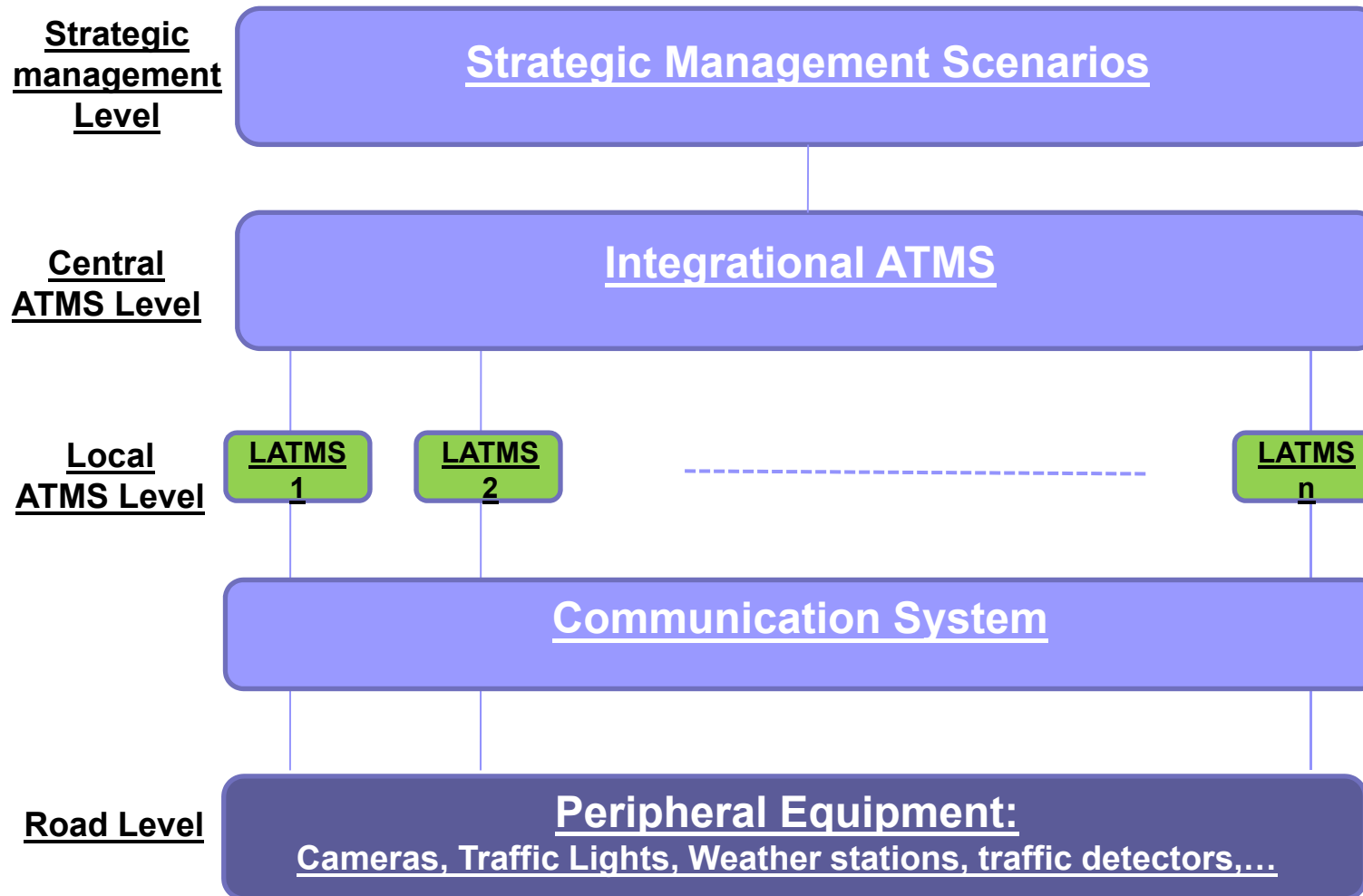
Automated Urban Traffic Management system coverage area



Automated traffic management system coverage area (Mountain Cluster)



Automated traffic management system



Road management system in Sochi - Urban Traffic Management

The main target of Urban Traffic Management System is to establish the state of traffic in main city roads.

In input the system is able to read:

- Weather stations
- Traffic sensors (fixed or mobile)
- Traffic light plan
- Public transportation tracking data
- Operation vehicle tracking data
- Parking / rest areas
- Other local subsystems information

Supervisor module shows real time status of traffic over the main road network and compute redirection of traffic in case of severe traffic jams.

Supervisor module can suggests to operators:

- Changes of traffic light plan for different traffic status
- Automatic computation of messages on variable Message Signs
- Optimal rerouting on motorway/urban roads
- Automatic broadcast of traffic status through all multimedia channels; Radio, TV, Internet