

## *“How do roads and traffic change?”*

### 9. Road Development Projects

The following describes the road-related projects (Table 9.1 and Figures 9.1 through 9.2).

#### 9.1 Road Network Plan

- 1) The ring roads including the Inner Ring Road, Middle Ring Road, and Outer Ring Road are completed where the links are missing.
- 2) Overpasses and underpasses are provided at the major intersections of ring roads and major radial roads to handle increased traffic load.
- 3) Roads surrounding the central area are provided as paths to the cultural and historical areas.
- 4) Semi-trunk roads are provided in the north-south and east-west directions to decrease the traffic flow into the central area.
- 5) Since almost all the radial roads required are already provided, other roads used to connect to inter-region expressway networks to Ploiesti and Constanta, are provided.

By implementing the above road projects, the road congestion can be mitigated (Figure 9.3, 6.2)

#### 9.2 Road Traffic System Management Plan

- 1) A certain number of parking facilities are provided in the central area so that parking at the roadside is prohibited, in principle, except where parking space is secured. More parking facilities are provided in the area surrounding the central area to promote the park-and-ride policy.
- 2) Traffic signals are improved to increase the road capacity, ensure the safety of vehicles and pedestrians, and encourage more people to use public transport systems. The ITS is applied to all the city areas to promote the use of public transport systems, improve the traffic signals, and provide information to the car drivers.
- 3) Improvement of urban landscapes, enhancement of street environments, restrictions applied to preserve historical buildings and maintain landscapes, and improvement of pedestrians' environment including sidewalks, pocket parks, and flower beds are implemented to make the central area more comfortable and attractive.

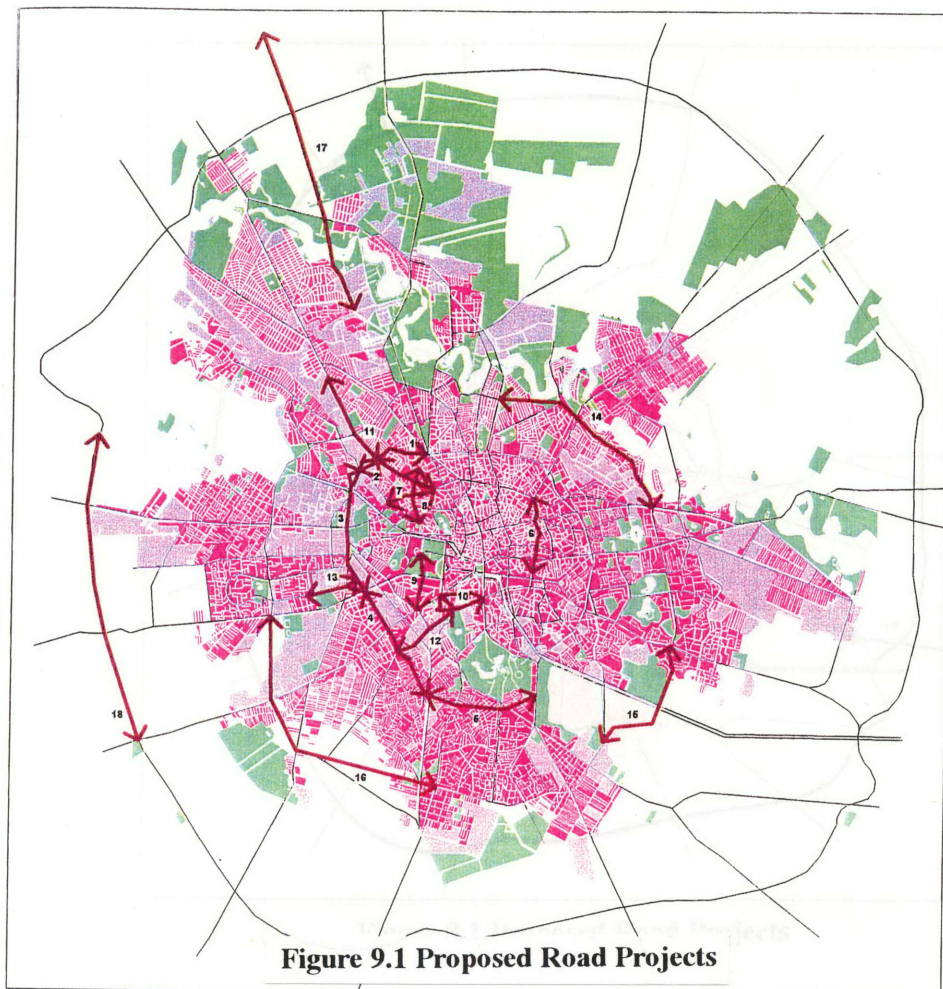
#### 9.3 Development of Freight Terminals

Freight terminals are constructed near the industrial area along the Outer Ring Road, in particular near the intersections at the expressway to Constanta and at Expressway A1, to improve the efficiency of freight transport.

**Table 9.1 Road Projects in Master Plan**

	Project	Project Contents	Cost (mil. US\$)	Remarks
Road Development	Inner Ring Road	9.61km	128.7	No.1 – 4
	Central Circulation Roads	7.03km	31.9	No.5 – 9
	Middle Ring Roads	15.84km	104.3	No.13 –15
	Connection Roads between Inner Ring and Central Circulation Roads	7.90km	22.9	No.10- 12
	Outer Ring Road	75.00km	16.5	No.18
	Connection Roads to Autostrada	14.62km	143.6	No.16, 17
	Intersection Improvement	8 intersections	89.8	
Traffic Management	Parking System Development	4,700 vehicle spaces	76.9	
	Traffic Signal & ITS	synchronization etc.	31.5	
Others	Street Environment Improvement	Pedestrian way etc.	22.4	
	Freight Terminal Development	2 terminals	8.5	
Total			676.9	

Note: The numbers in the remarks correspond to those in the Figure.



No	Project
1	Inner Ring Road (Basarab Passage)
2	Inner Ring Road (West part)
3	Inner Ring Road (Southwest part)
4	Inner Ring Road (South part)
5	Widening of Str. Traian
6	Widening of Mircea Vulcanescu
7	Widening of Str. Berzei
8	Extension of Hasdeu
9	Widening of Marasesti / Mitropolit Nifon
10	Repavement / Widening of Calea Grivitei
11	Extension of Marasesti
12	Extension of Compozitorilor
13	Middle Ring Road (Northeast)
14	Middle Ring Road (Southeast)
15	Middle Ring Road (Southwest)
16	Brasov Autostrada Access road
17	Constanta Autostrada Access road
18	Outer Ring Road Missing link Widening & Rehabilitation

