Study on Implementation of Integrated Spatial Plan for The Mamminasata Metropolitan Area

# SECTOR STUDY (12)

# LAND TRANSPORTATION STUDY

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## 1. ROAD TRANSPORTATION IN MAMMINASATA

### 1.1 Road Structure and Classification

#### 1) Road Classification

The "Regulation of Indonesia No. 38 (2004) on Road", classifies roads according to the scale and facility, as shown in the following table, and this gives a guideline who will be responsible for the road concerned.

Article	Classification	Functions
Article 1	Public Road	Provided for public traffic
	Special Road	Built by institution, enterprise, company, or group of society for their own interest
	Toll Road	Public road where the used are obliged to pay
	Freeway Road	Public road with full control access by fence and toll gate.
Article 10	Freeway	At least 2 lanes for each direction separated by median
Road Class	Highway	With limited entrance and at least 2 lanes for each direction separated by median
	Middle Road	At least 2 lanes for 2 direction (7m)
	Small Road	At least 2 lanes for 2 direction (5.5m)
Article 7 Road Network	Primary: for development of all regions in national level	Article 7 point 2 Continuous road network to give unstopped transport services through urban area
System	Secondary: for the urban region	
Article 8 Public Road	Arterial road	Classified to Primary (Regional scale and National level) and Secondary (Urban scale)
	Collector Road	Classified to Primary (Regional scale) and Secondary (Urban scale)
	Local Road	Secondary collector road is within urban scale (Primary) and Local scale (secondary)
	Environmental Road	Road to serve environmental transportation in short distance travel, and low speed in average
Article 9 Public Road	National Road Provincial Road Regency Road Urban Road Rural Road	·

Table 1.1 Road Classification in Indonesia

### (1) National and Provincial Roads in South Sulawesi

Total length of national road is 1,556 km and provincial road length is 1,209 km, totaling 2,765 km<sup>1</sup>. They are under the jurisdiction of the South Sulawesi Road Department (Bina Marga).

<sup>&</sup>lt;sup>1</sup> Road Network Data of South Sulawesi are summarized in every year as the leaflet titled "Data Informasi" by "Dinas Prasarana Wilayah"



Figure 1.1: Road Network in South Sulawesi: National and Provincial Roads



Figure 1.2: Function of Each Main Road

#### 2) Road Conditions

#### (1) Road Surface Condition in South Sulawesi

The surface conditions of trunk roads in South Sulawesi are shown in the following table and figure.

Tuble 1121 Roud Conditions in South Subjects					
Degree	Good	Fair	Slight Damage	Serious Damage	No Connection
Composition	45%	39%	7%	7%	2%

 Table 1.2:
 Road Conditions in South Sulawesi

#### (2) Roads Conditions in Mamminasata

Roads in Mamminasata are summarized in the following tables. They are generally maintained in good conditions in urban zone, while many poor roads are found in suburban area.

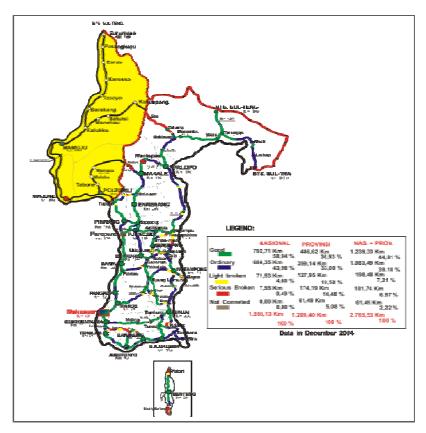
Items	Maros	Makassar	Gowa	Takalar	Length Total	Remark
National	82.08 km	66.24 km	2.87 km	_	151.9 km	All is Arterial
Road	02.00 KIII	00.24 KIII	2.07 KIII	_	131.7 Kill	Road
Provincial			206.09 km	24.24 km	230.33 km	Collector Road
Road	-	-	200.09 KIII	24.24 KIII	230.33 KIII	is 138.33km
Sub-Total	82.08 km	66.24 km	208.96 km	24.24 km	381.52 km	
Local	892 km	765 1	2196 km	755 km		
Road	(177 roads)	765 km	(573 roads)	(384 roads)		
Others	-	-	-	-	-	

 Table 1.3:
 Road Length in Mamminasata by Classification

	Table 1.4. Koau conucions in Manimiasata Area			
	Good	Ordinary	Slight	Serious
	Cloud		Damaged	Damaged
National Roads	31.4%	68.2%	0.6%	-
Provincial Roads	39.9%	33.6%	8.7%	17.8%

 Table 1.4:
 Road conditions in Mamminasata Area

Road inventory data are available in an Excel format. However, data have too many discrepancies, and their originals are found inaccurate to totally rely on.



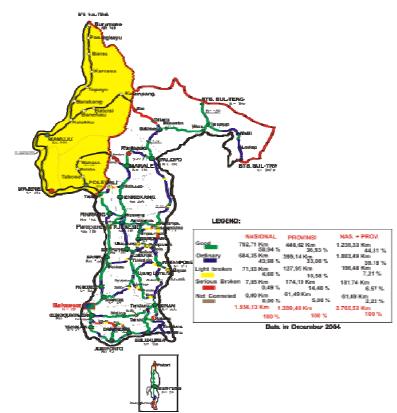


Figure 1.3: Surface Condition of Main Road