Latvian State Roads

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Latvia in Europe
Facts and Figures

- **Territory** of Latvia – 64 589 km²
- **Population** (January 1, 2013) – 2 028 400
- Total **length** of road and street network 72 440 km
- **Density** of the road network is 1.122 km per 1 km²
- State road network - 20 115 km
- The average **density** of the state road network is 0.312 km per km²
# Facts and Figures

## State Road Network (as of January 1, 2013) kilometres

<table>
<thead>
<tr>
<th>Road classes</th>
<th>asphalt and other bituminous pavements</th>
<th>crushed-stone and gravel pavements</th>
<th>without pavement</th>
<th>total length of road network</th>
</tr>
</thead>
<tbody>
<tr>
<td>State roads, including:</td>
<td>8563</td>
<td>11552</td>
<td>-</td>
<td>20115</td>
</tr>
<tr>
<td>Main roads (A)</td>
<td>1669</td>
<td>-</td>
<td>-</td>
<td>1669</td>
</tr>
<tr>
<td>Regional roads (P)</td>
<td>4231</td>
<td>1087</td>
<td>-</td>
<td>5318</td>
</tr>
<tr>
<td>Local roads (V)</td>
<td>2663</td>
<td>10465</td>
<td>-</td>
<td>13128</td>
</tr>
</tbody>
</table>
The Latvian State Roads is responsible for 943 bridges, out of which:

- 880 reinforced concrete bridges;
- 14 stone masonry bridges;
- 43 steel bridges;
- 6 wooden bridges.

Total length of bridges - 30 484 metres.
Facts and Figures - Traffic intensity, 2013
Facts and Figures – Road condition, 2013

LATVIJA
Valsts galveno autoceļu stāvoklis (14.02.2014.)

Valsts galveno autoceļu sadalījums pēc vizuālā novērtējuma

- asfaltbetona segums TEICAMI, LABS
- asfaltbetona segums APMIERINOŠS
- asfaltbetona segums SLIKTS, Loti SLIKTS

<table>
<thead>
<tr>
<th>Konstatācija</th>
<th>%</th>
<th>36,4%</th>
<th>17,2%</th>
<th>46,3%</th>
</tr>
</thead>
</table>

Krievija
Krievija

Baltkrievija
Baltkrievija

Igaunija
Igaunija

Lietuva
Lietuva

Rīgas jūras līcis
Rīgas jūras līcis

Baltijas jūra
Baltijas jūra
### Road network financing 2002 - 2014 (million EUR)

#### ES finansējums KAPITĀLIE IZDEVUMI
- 2002: 0.06
- 2003: 13
- 2004: 33
- 2005: 121
- 2006: 124
- 2007: 107
- 2008: 100
- 2009: 50
- 2010: 46
- 2011: 118
- 2012: 122
- 2013: 124
- 2014: 137

#### Valsts autoceļu fonds KAPITĀLIE IZDEVUMI
- 2002: 29
- 2003: 37
- 2004: 33
- 2005: 26
- 2006: 46
- 2007: 125
- 2008: 128
- 2009: 48
- 2010: 19
- 2011: 7
- 2012: 7
- 2013: 16
- 2014: 33

#### Valsts autoceļu fonds UZTURĒŠANAS IZDEVUMI
- 2002: 34
- 2003: 42
- 2004: 42
- 2005: 47
- 2006: 57
- 2007: 68
- 2008: 105
- 2009: 83
- 2010: 85
- 2011: 90
- 2012: 88
- 2013: 87
- 2014: 78
ITS in Latvia (INTERnet)
ITS in Latvia (INTRA
net)
ITS in Latvia (core elements)

- TICs for state roads, Riga and Jelgava municipalities;
- data acquisition systems (RWIS, videosurveillance, traffic counting etc.)
- control systems of telematics (traffic lighting and traffic lights);
- electronic ticketing in Riga and it’s suburbs;
- multimodal planners (private services)
ITS in Latvia (nearest tasks)

- introduction of effective nationwide ITS data sharing platform (Datex II, cooperation procedures etc.);
- implementation of eCall service;
- rolling out of speeding and overweight enforcement systems;
- development of nowcasting at RWIS.
Traffic Information Centre (TIC) of Latvian State Roads

Road user’s support
24-hours hotline 80005555

Data exchange
- Emergencies
- Transport carriers
- Municipalities
- Meteorological agency
- Roadwork’s performers
- Road inspectors

Traffic information centre

Services
- Traffic info
  - actual driving conditions
  - traffic restrictions
  - traffic disturbances
- Adaptive traffic management
  - traffic lights
  - variable message signs

Distribution channels
- Telematics
- Internet
- Radio
- TV

Systems of monitoring

Road weather conditions

Traffic flow’s data

Road sensors
- RWIS
- Videosurveillance
- Traffic counters

Collaboration’s schemes
- Administrative
- Institutional
- Technological
Main Tasks of TIC

Provided all the time 24/7:

- traffic info handling (data processing, sharing to media etc.);
- consultation of road users (hotline, social networks and web chat);
- management of traffic disturbances and dangerous situations (negotiation between emerginces and road work providers);
Road Routine Maintenance
starting from 2014

Ministry of Transport

contract

JSC Latvian State Roads

supervision

JSC Latvian Road Maintener
Structure of Average Costs of Routine Maintenance Works - 2007 - 2012

- Winter maintenance: 40%
- Bridge, tunnel, culvert maintenance: 2%
- Management: 1%
- Traffic devices: 3%
- Pavement maintenance: 42%
- Road upkeep: 12%
History of asset management system in Latvia

Belman (DRD) 1996

Introduction of HDM 4 ~2000

2014
AMS / PMS / BMS

• Bridge management system (BMS) is functioning
• AMS / PMS system components are in place...
  – Pavement condition assessment (data collection):
    • Roughness, rutting
    • Bearing capacity
    • Visual assessment of distresses
  – Asset registration system (GIS)
• ... but evaluation criteria has to be set
Challenges of AMS

- Redevelopment of deterioration models
- PMS is not applicable to the whole road network (condition of pavement)
- Systems integration (expansion of GIS)
- Political will to accept rules / results of AMS
Thank you for attention!

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