Latvian State Roads

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UNECE TEM / HEEP Area V

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Latvia in Europe

Facts and Figures

- **Territory** of Latvia – **64 589** km^2
- **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 km^2
- State road network - **20 115 km**
- The average **density** of the state road network is **0.312 km** per km^2

Facts and Figures

Road classes	**State Road Network** (as of January 1, 2013) **kilometres**			
	asphalt and other bituminous pavements	crushed-stone and **gravel** pavements	without pavement	**total length of road network**
State roads, including:	**8563**	**11552**	**-**	**20115**
Main roads (A)	1669	-	-	1669
Regional roads (P)	4231	1087	-	5318
Local roads (V)	2663	10465	-	13128

Facts and Figures

Bridges

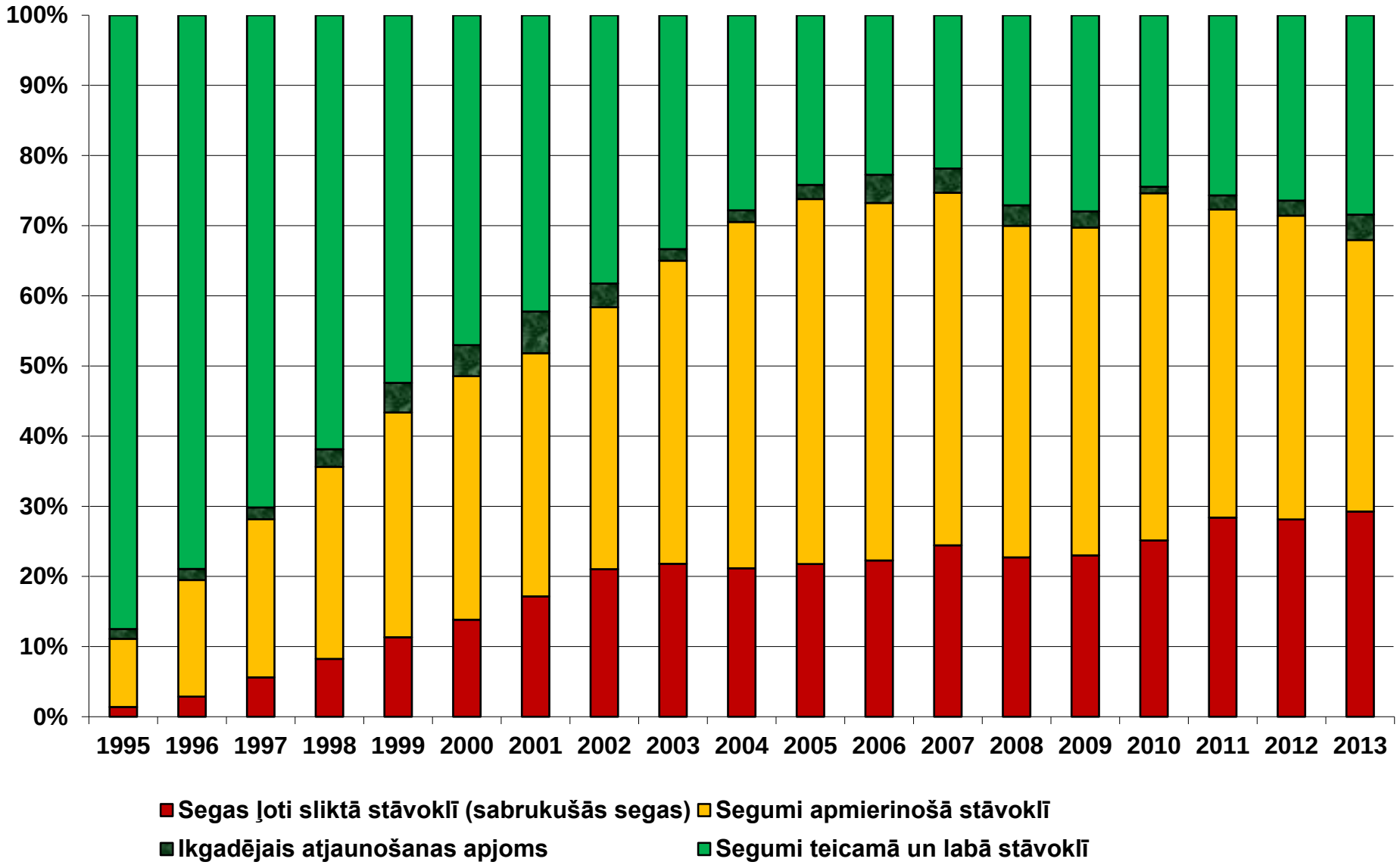
The Latvian State Roads is responsible for **943** bridges, out of which:

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

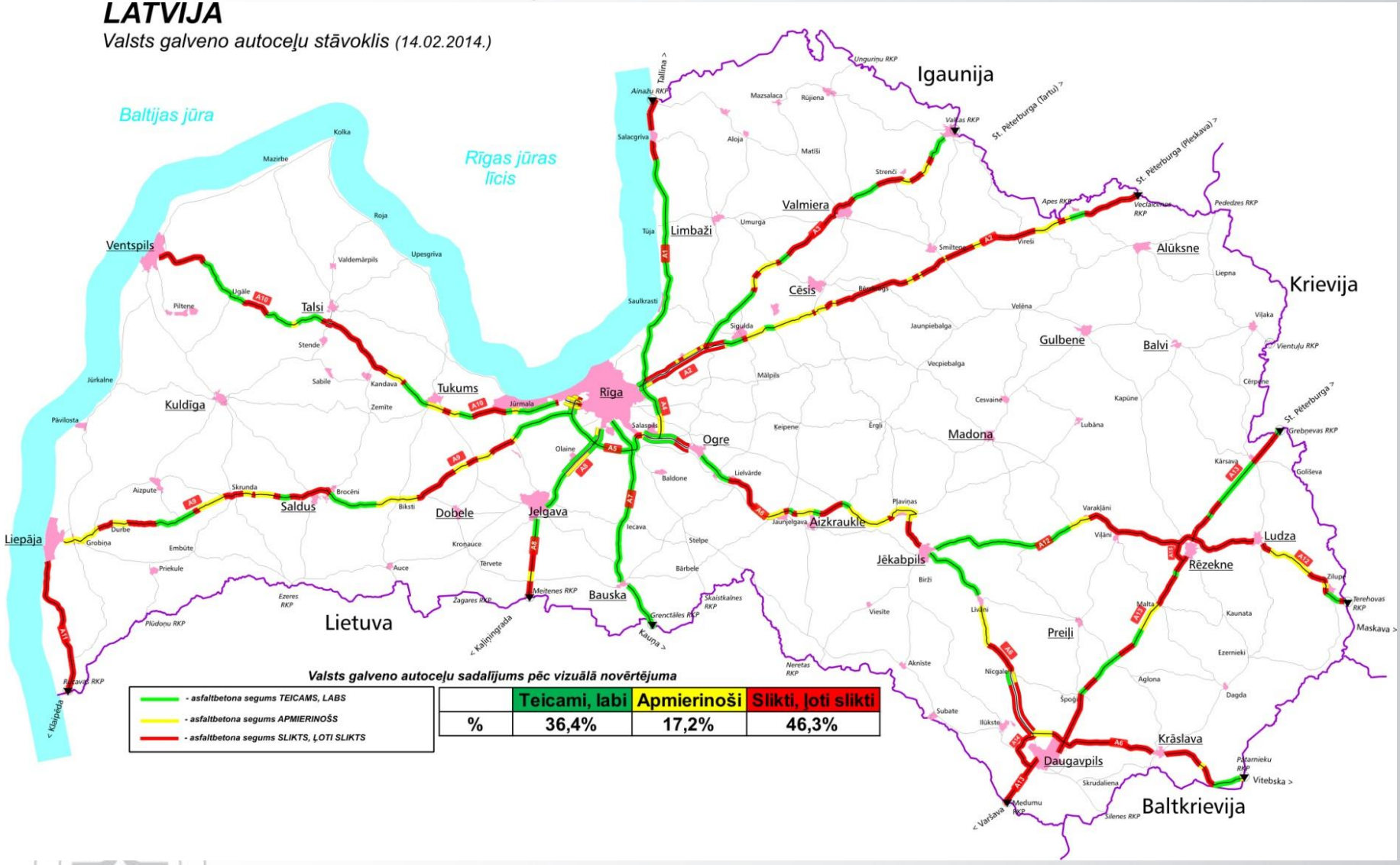
Total length of bridges - 30 484 metres.

Facts and Figures - Traffic intensity, 2013

Dynamics of Pavement Condition

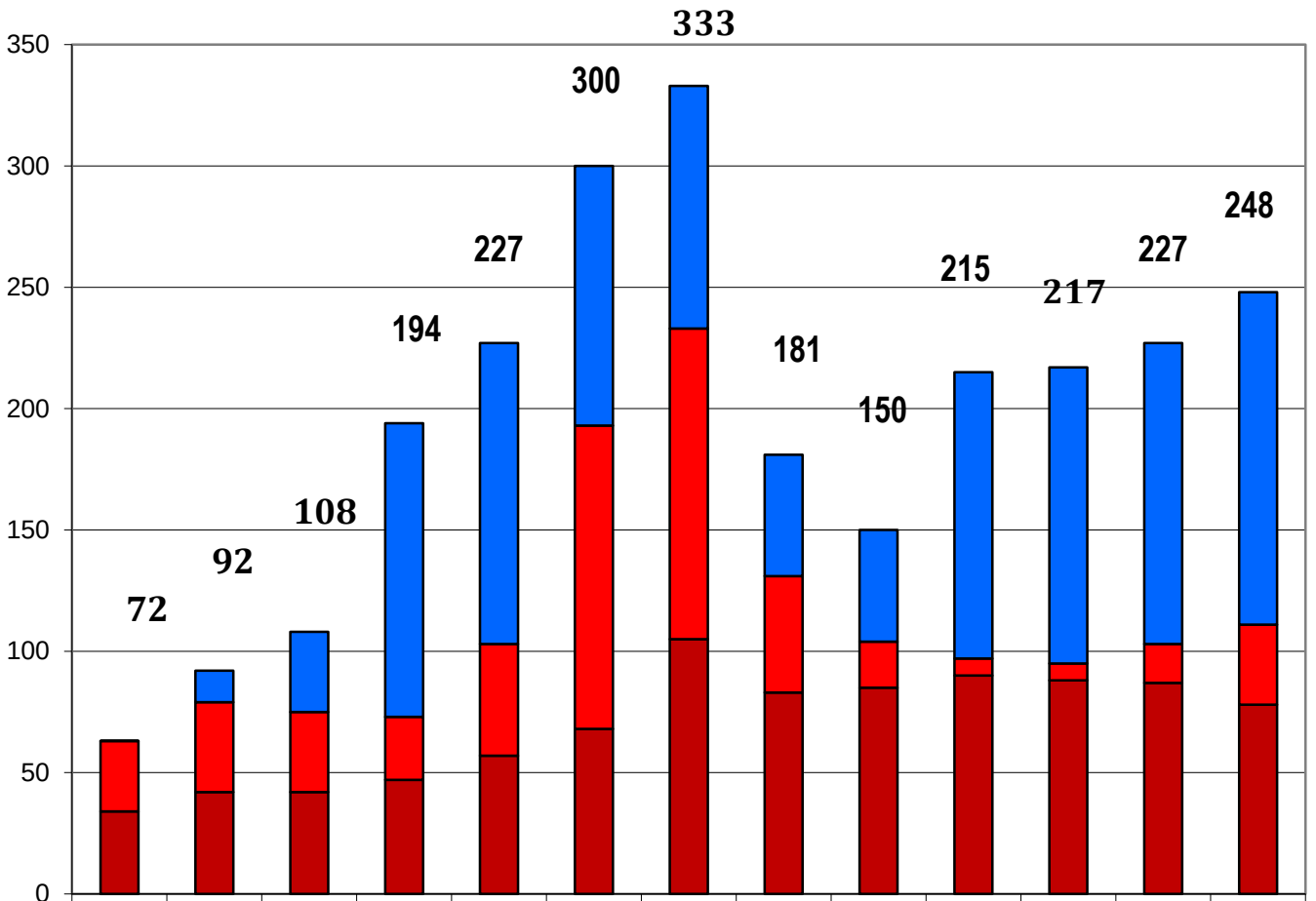


Facts and Figures – Road condition, 2013



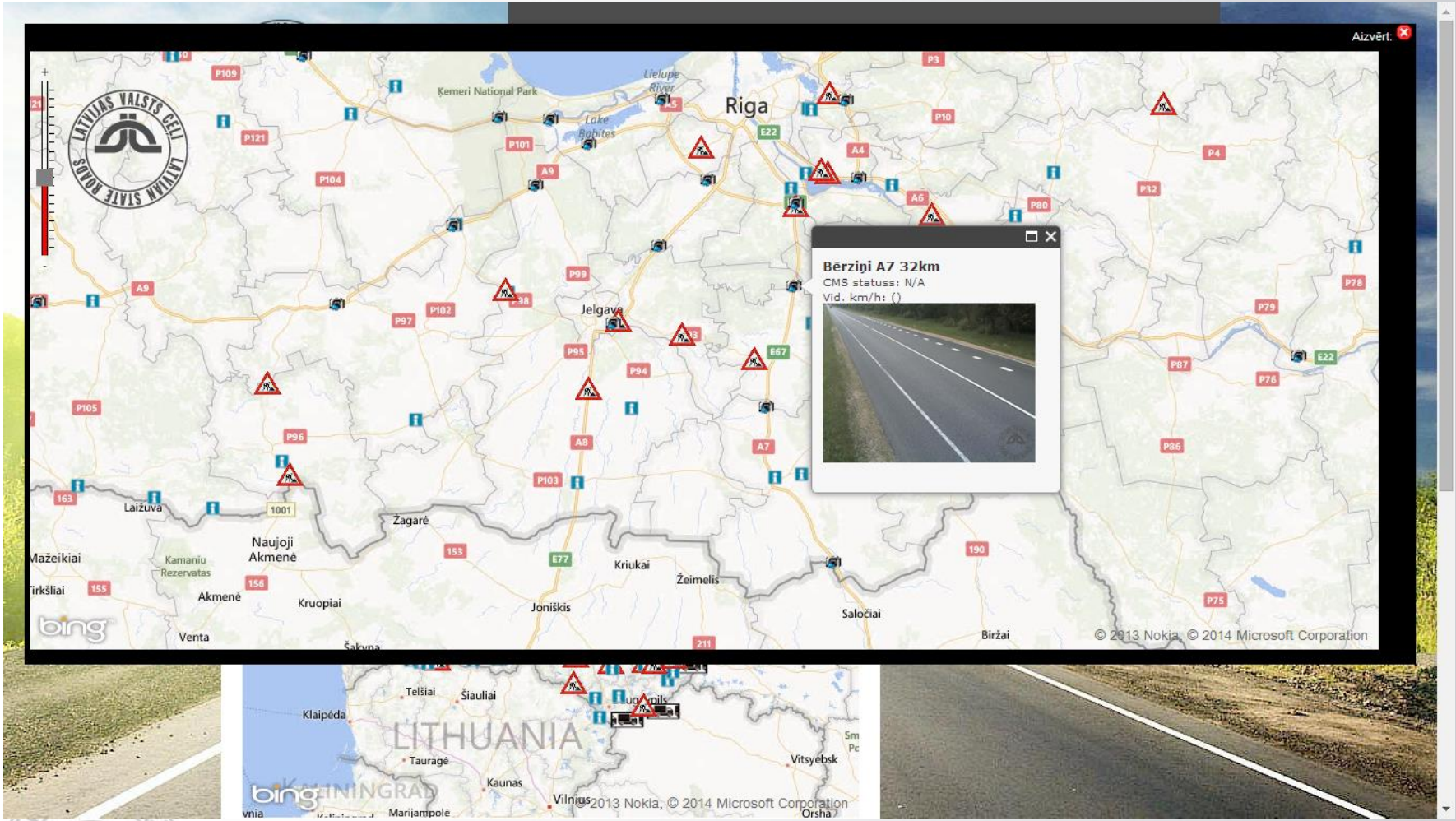
	Teicami, labi	Apmierinoši	Slikti, ļoti slikti
%	36,4%	17,2%	46,3%

Road network financing 2002 - 2014 (million EUR)

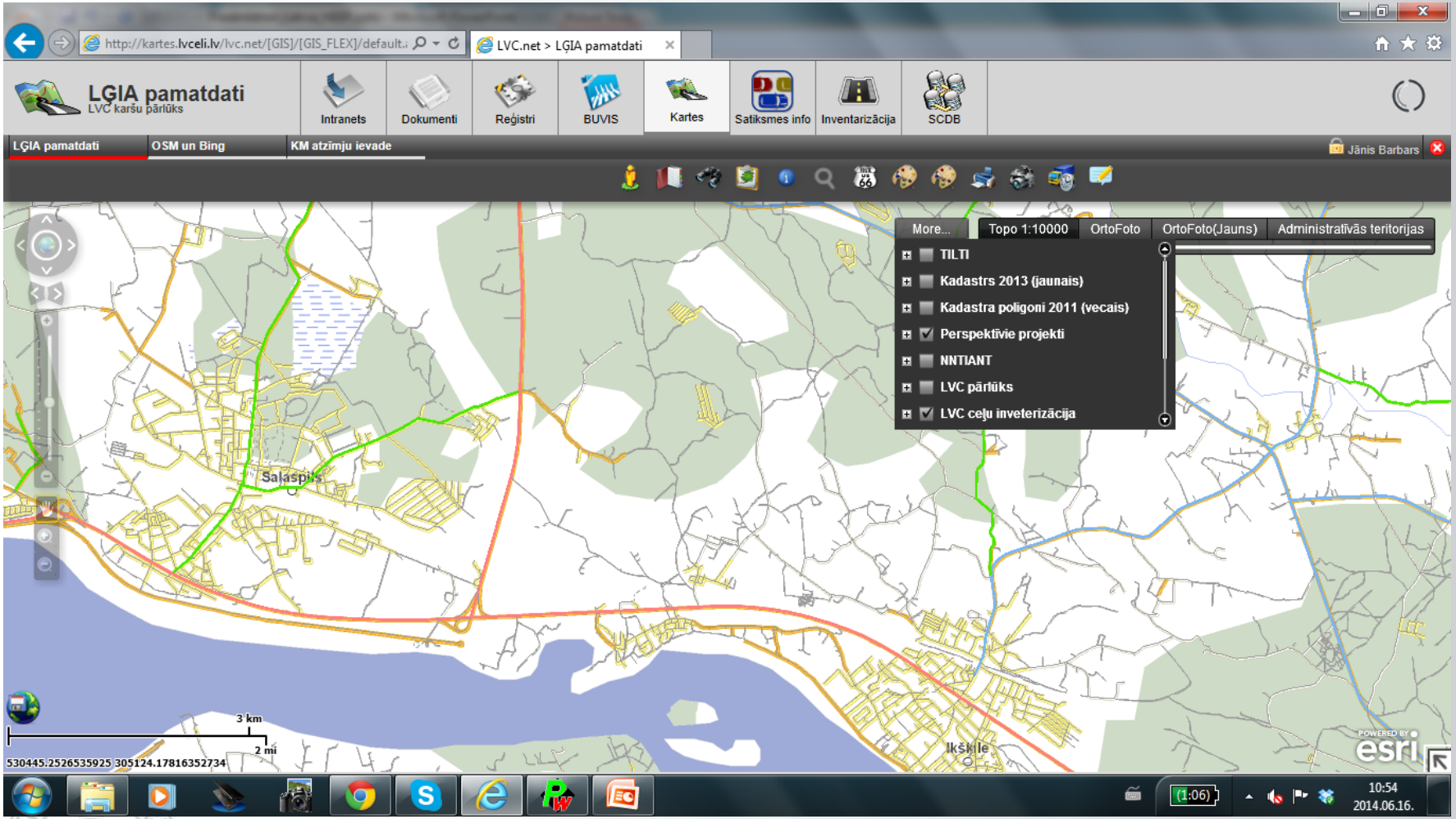


	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014 progn.
ES finansējums KAPITĀLIE IZDEVUMI	0.06	13	33	121	124	107	100	50	46	118	122	124	137
Valsts autoceļu fonds KAPITĀLIE IZDEVUMI	29	37	33	26	46	125	128	48	19	7	7	16	33
Valsts autoceļu fonds UZTURĒŠANAS IZDEVUMI	34	42	42	47	57	68	105	83	85	90	88	87	78

ITS in Latvia (INTERnet)



ITS in Latvia (INTRAnet)



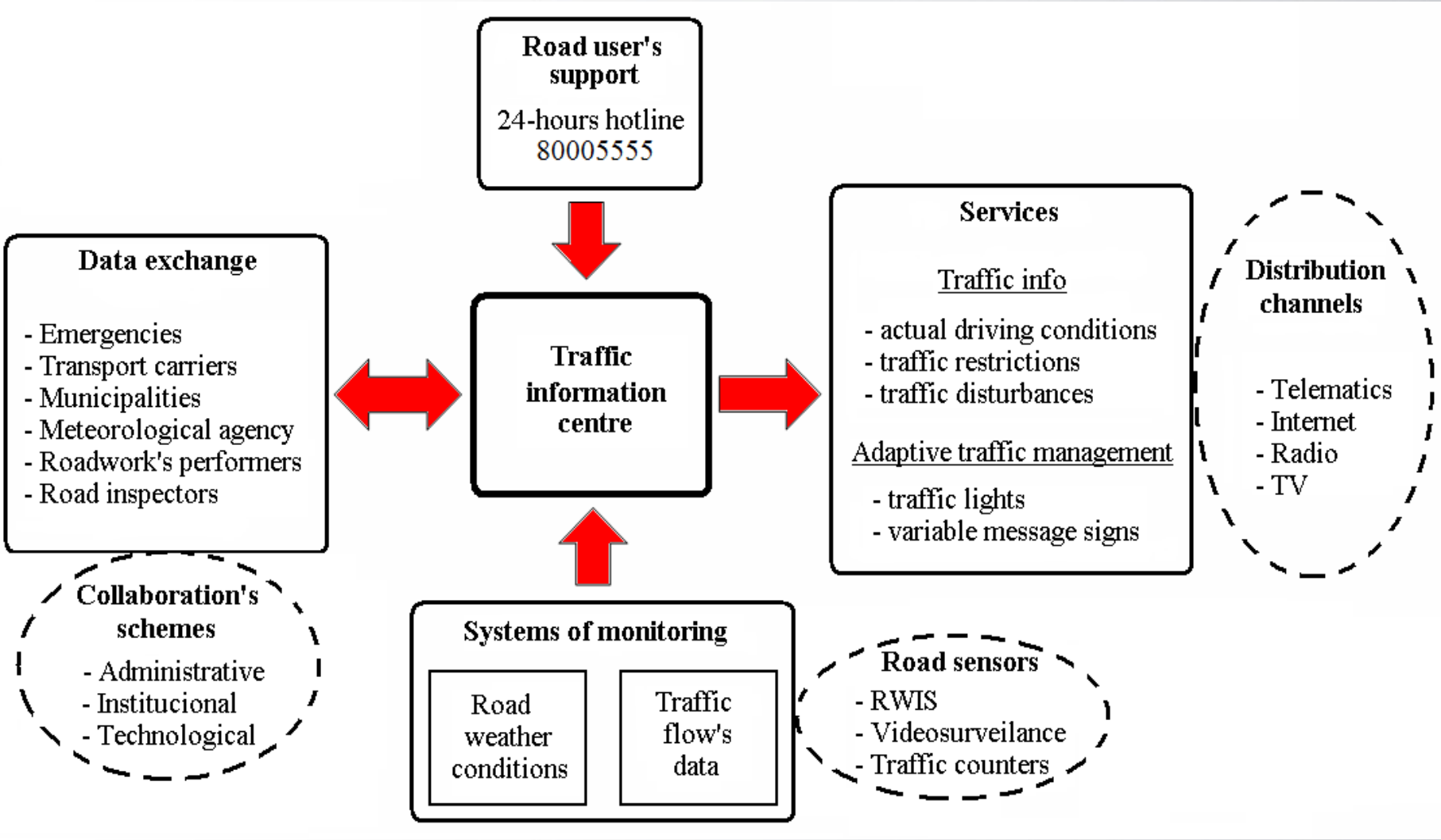
ITS in Latvia (core elements)

- TICs for state roads, Riga and Jelgava municipalities;
- data acquisition systems (RWIS, videosurveilance, traffic counting ect.)
- control systems of telematics (traffic lighting and traffic lights);
- electronic ticketing in Riga and it's suburbans;
- 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



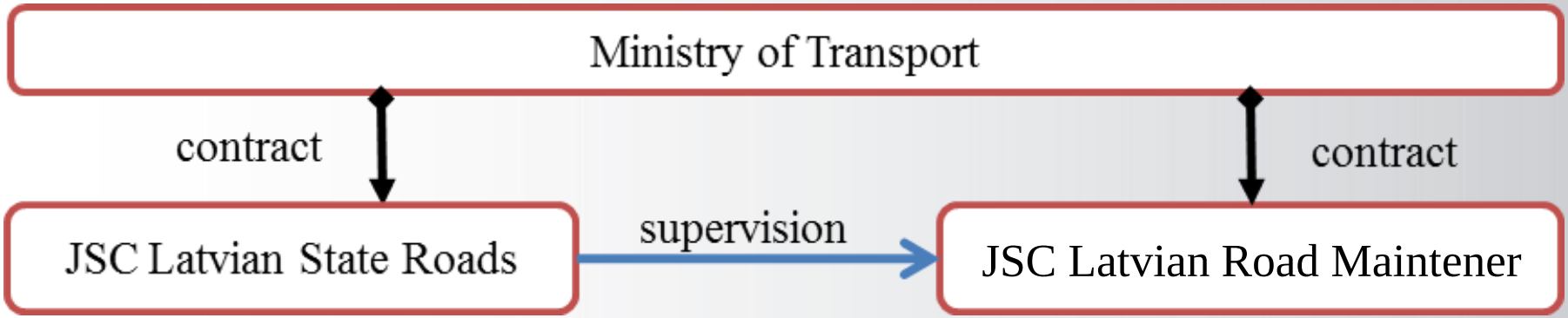
Main Tasks of TIC

Provided all the time 24/7:

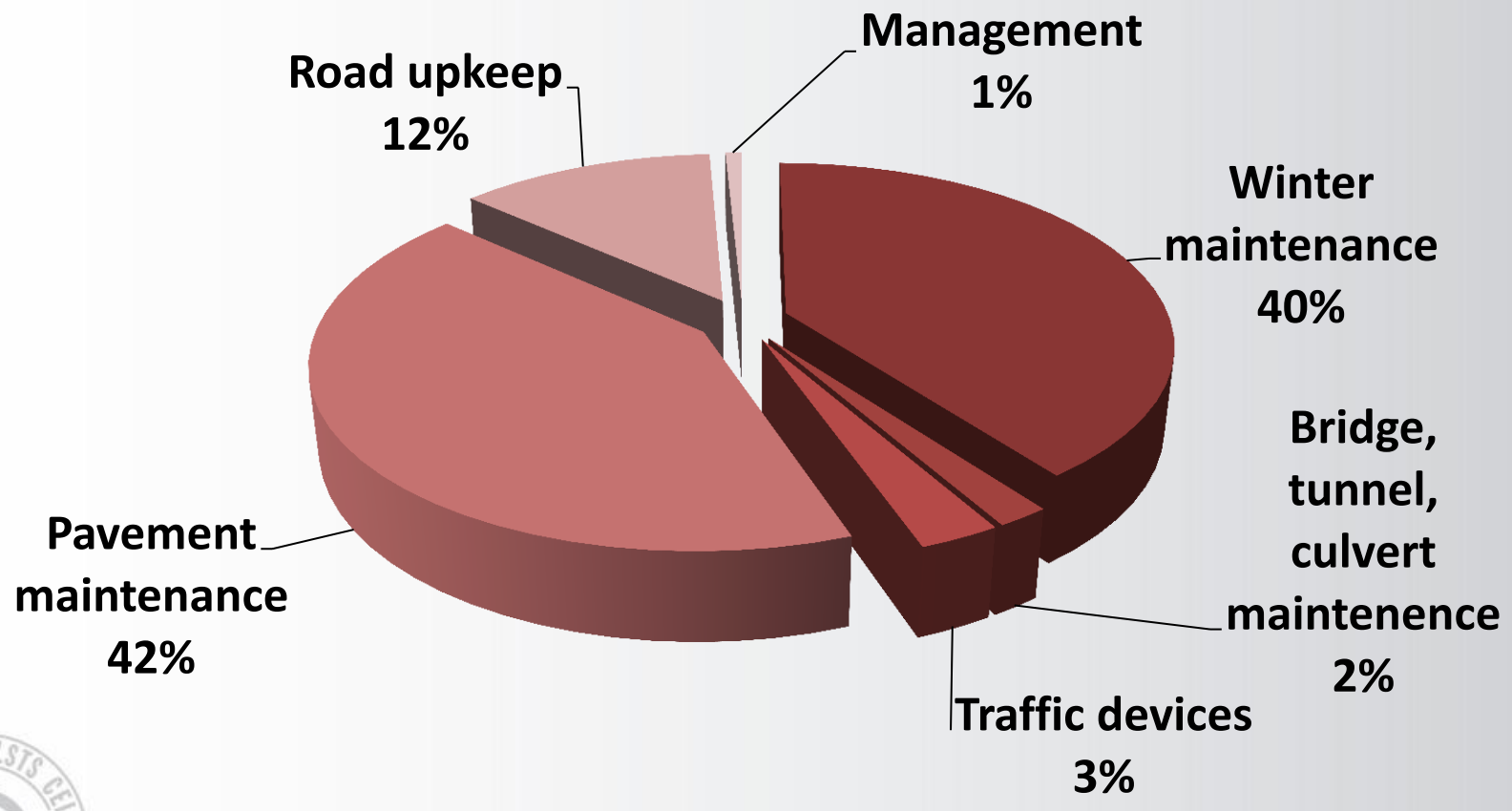
- traffic info handling (data processing, sharing to media etc.);
- consultation of road users (hotline, social networks and web chat).
- management of traffic disturbances and dangerous situations (negotiation between emerginces and road work providers);

Road Routine Maintenance

starting from 2014



Structure of Average Costs of Routine Maintenance Works - 2007 - 2012



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 assesment 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!

Sanita Muižniece and Jānis Barbars,
Latvian State Roads