

Present and future needs for the Federal Highway Agency in Russian Federation

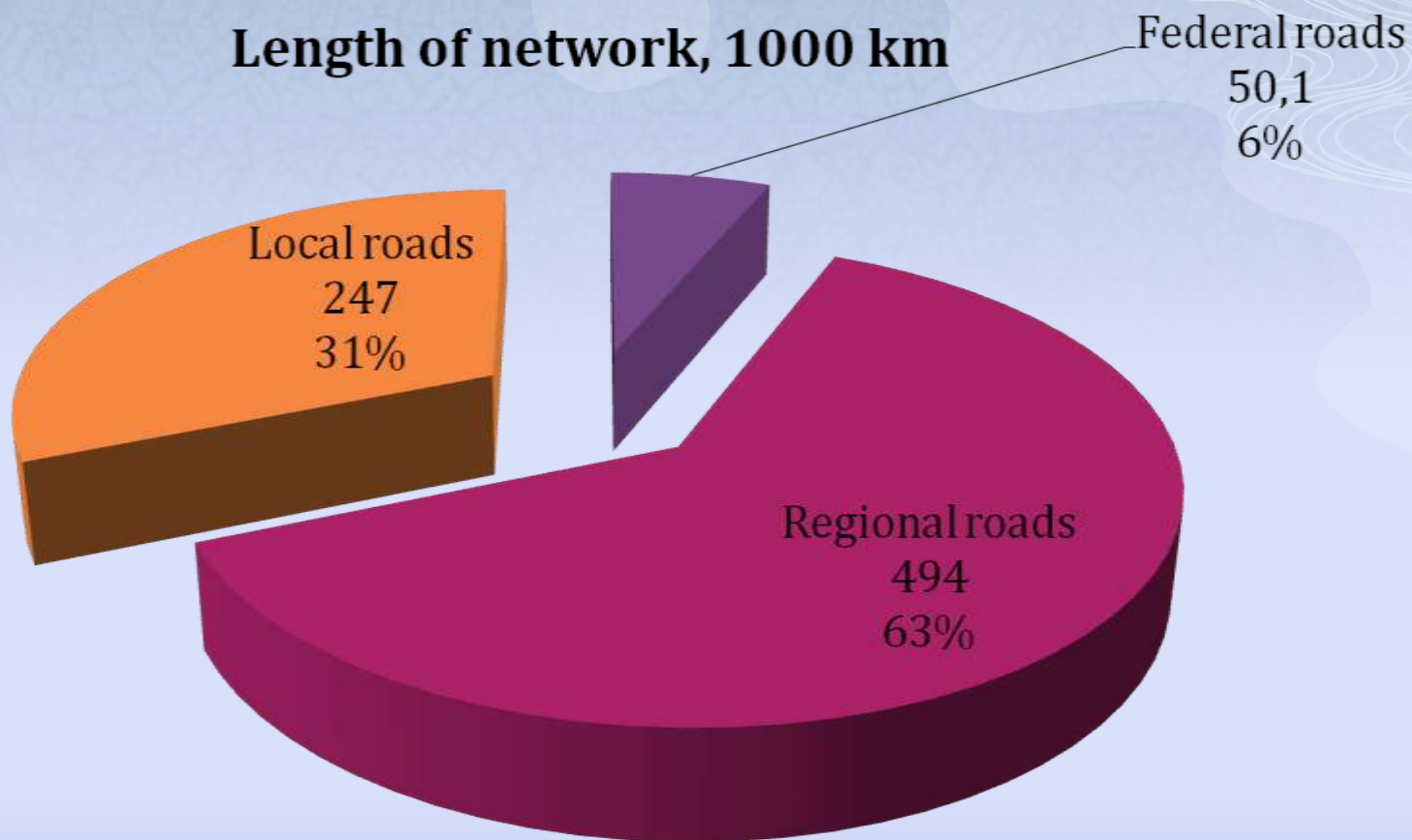
N. Bistrov

Deputy head of Federal Highway agency of Russian Federation

Road network of Russia



Road network of Russia



Total length of road network more than 800 000 km

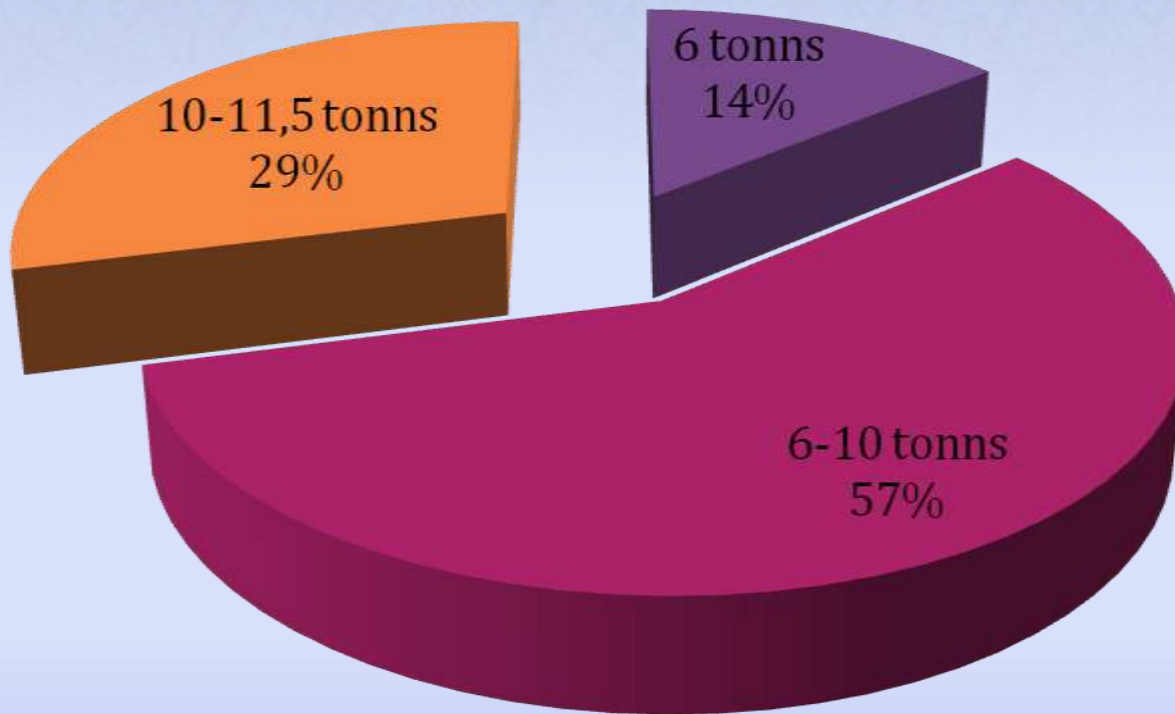
Road network of Russia

Objects on the Federal Roads:

- 5995 bridges, pipes etc.
- 19,6 km of ice crossings
- 830.3 km of winter roads (roads works in the winter only)

Road network of Russia

Maximum axle load on the Federal roads of Russia



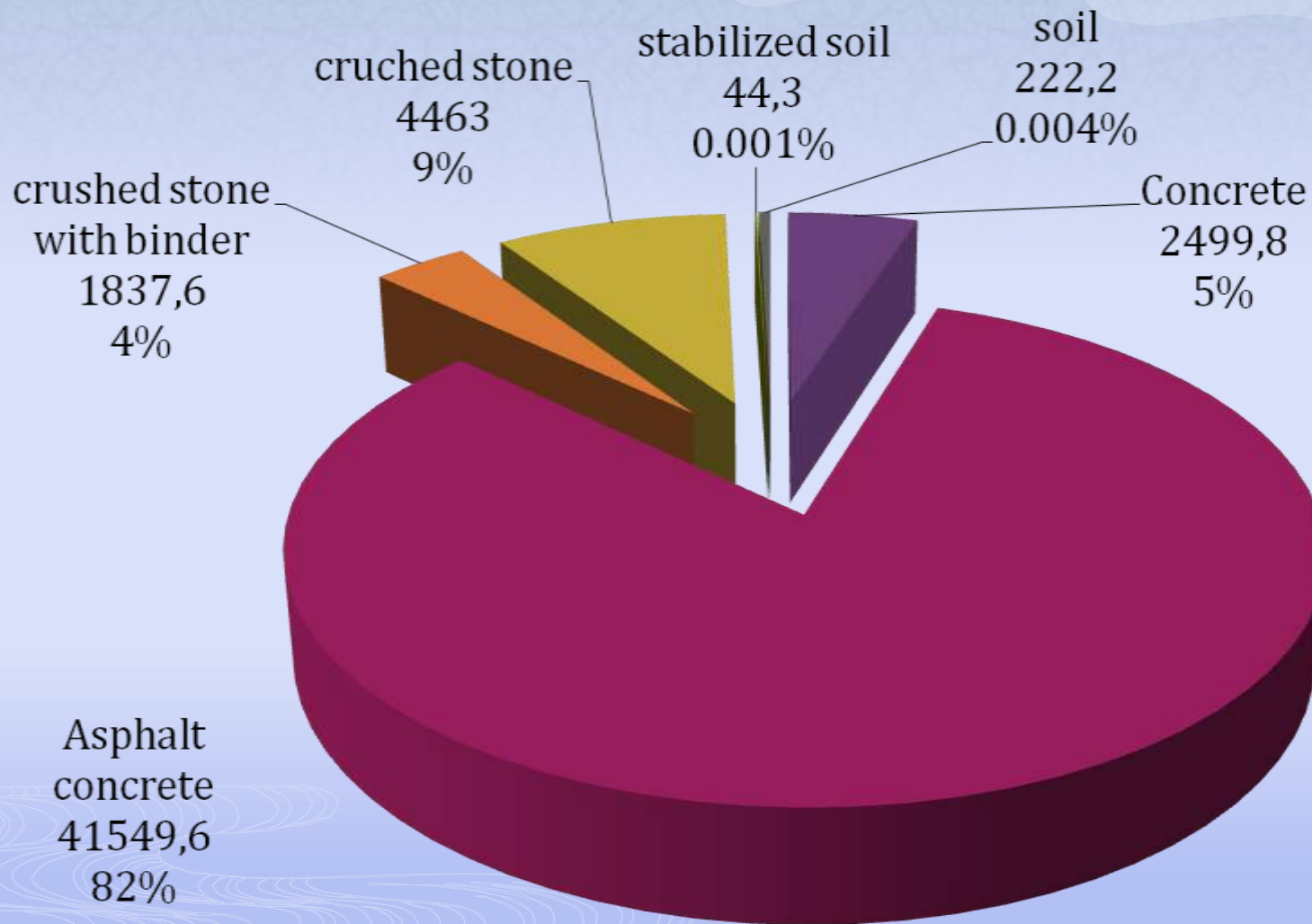
Road network of Russia

The dynamic of length changing
on Federal highway network



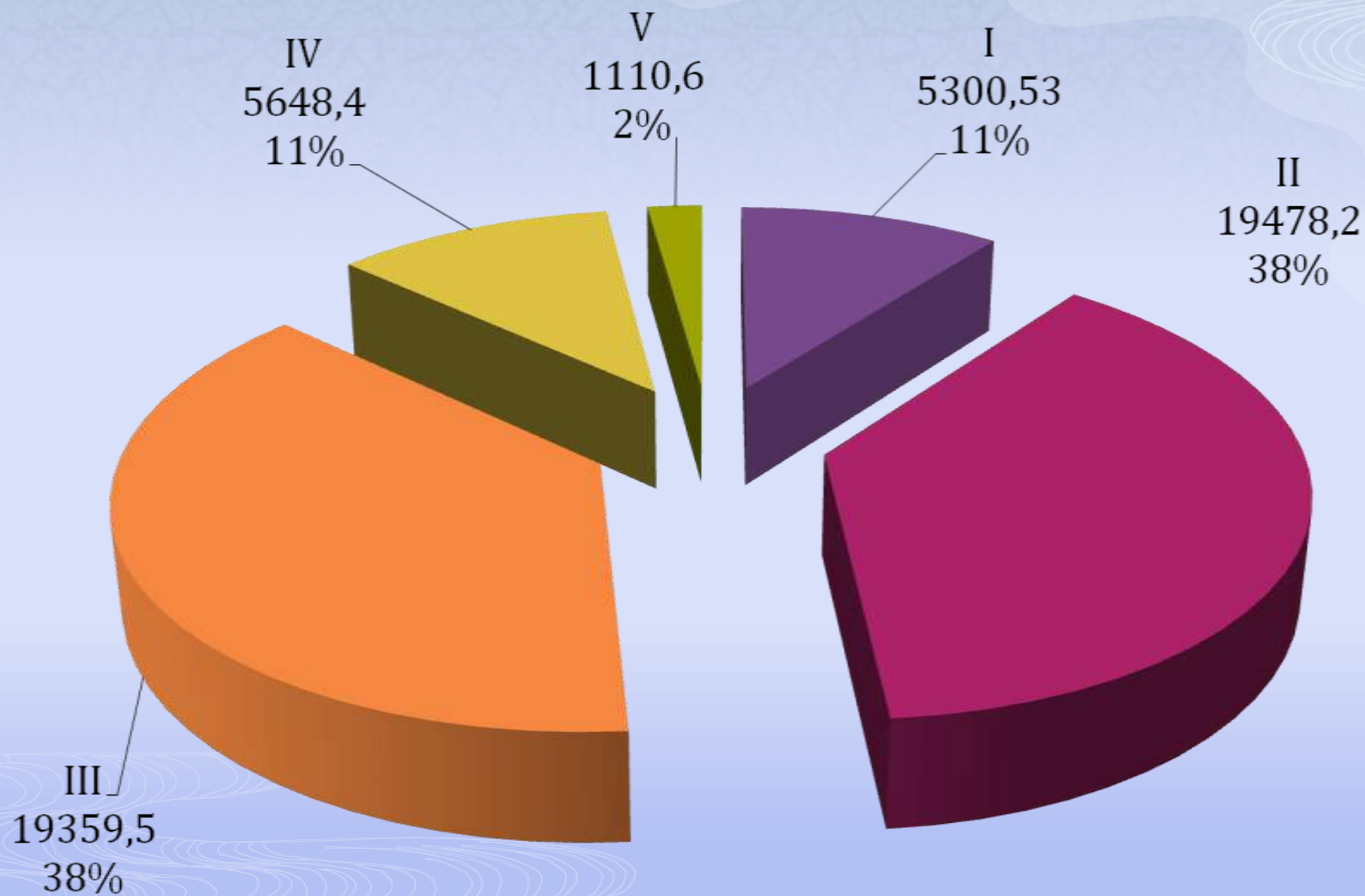
Road network of Russia

Type of pavements on Federal roads



Road network of Russia

The categories of federal roads



Road network of Russia

In 2012 totally will be fixed
6567.2 km of federal roads

М-10 «Россия»

16 объектов

М-9

«Балтия»

6 объектов

М-18 «Кола»

17 объектов

М-8 «Холмогоры»

7 объектов

М-2 «Крым»

23 объекта

М-53 «Байкал»

66 объектов

М-5 «Урал»

38 объектов

М-6 «Каспий»

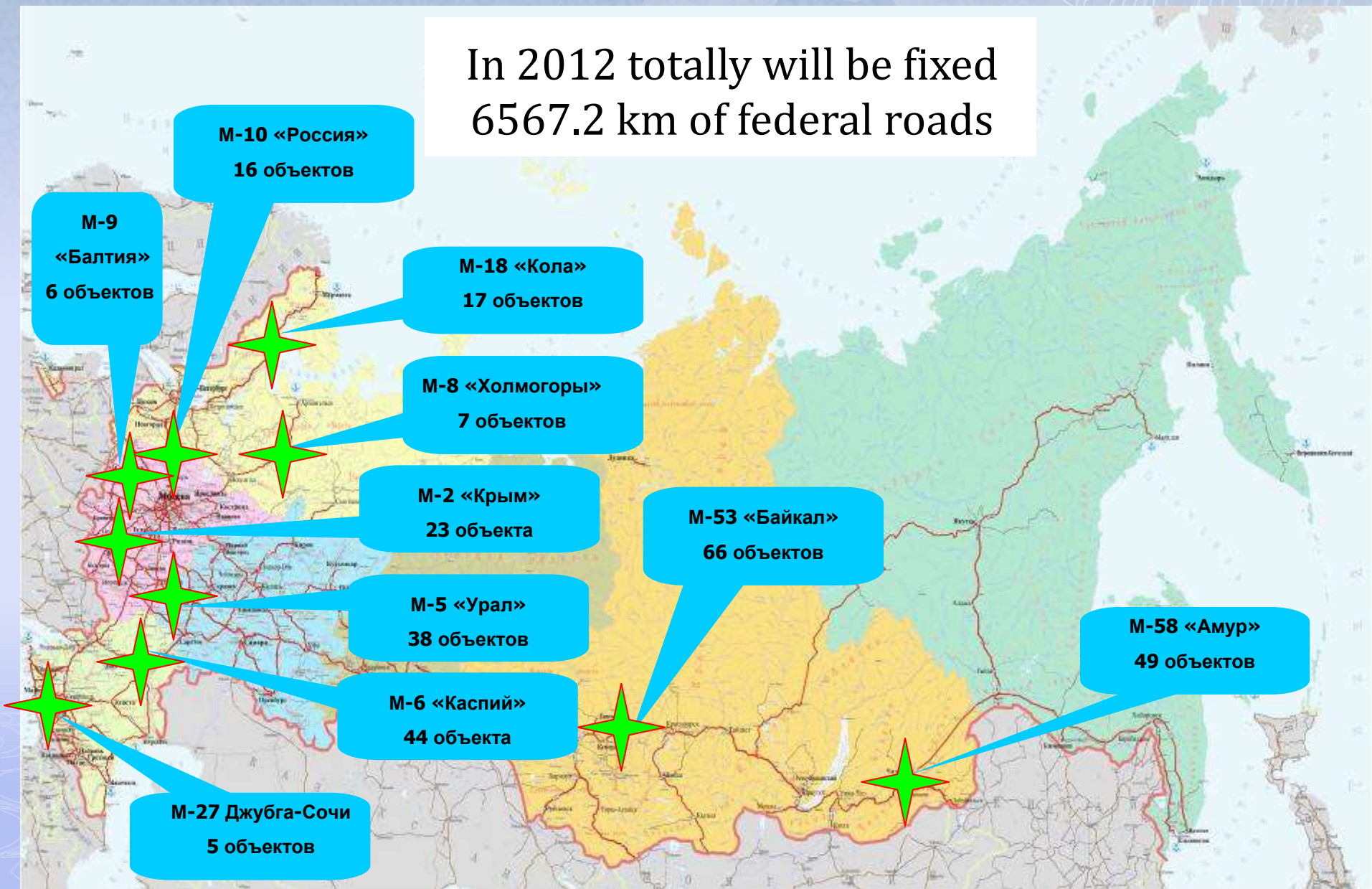
44 объекта

М-58 «Амур»

49 объектов

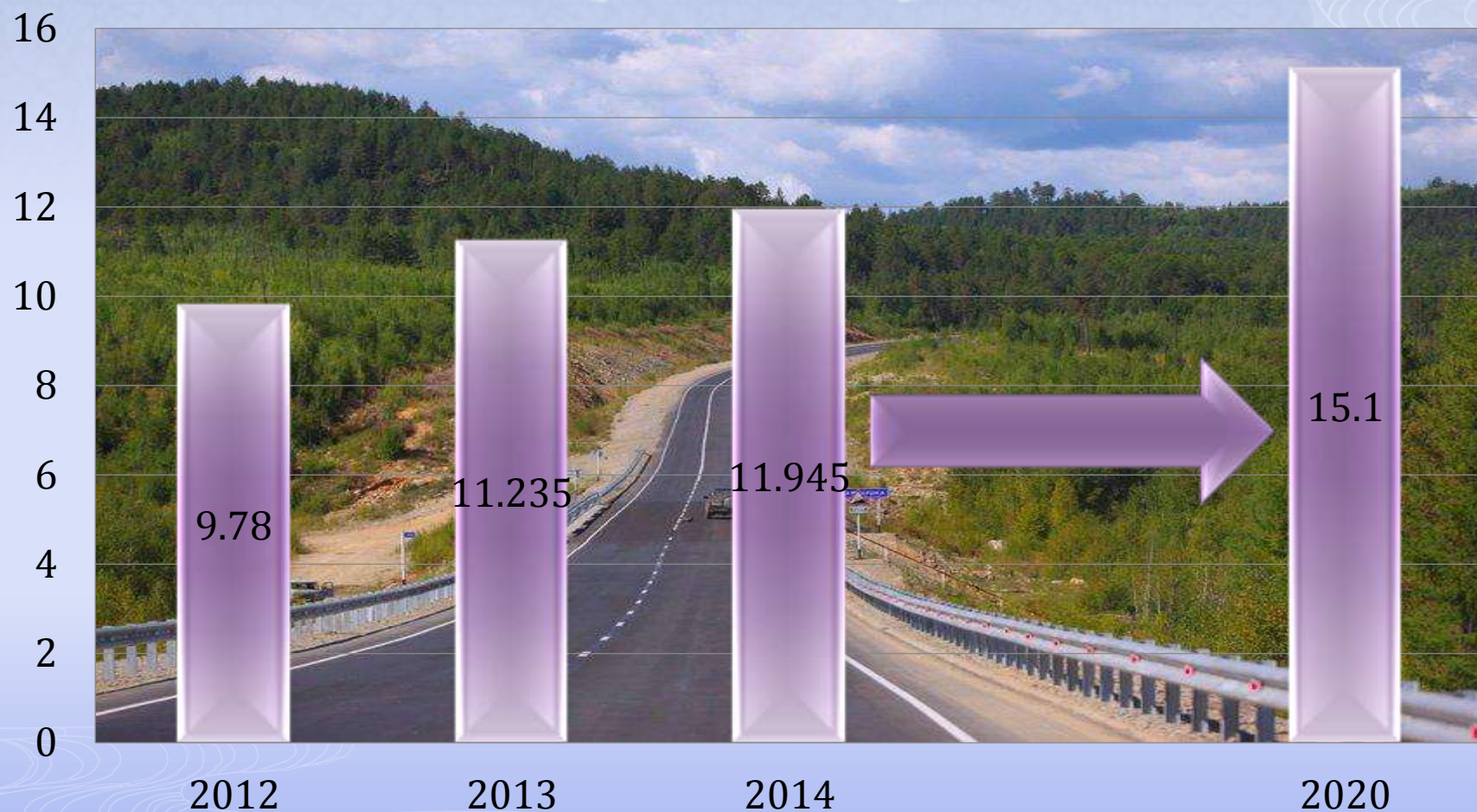
М-27 Джубга-Сочи

5 объектов



Road network of Russia

Total volume of road funds in Russian Federation
(billion EUR.)



Construction in the present years. SOCHI



Construction in the present years. SOCHI



Construction in the present years. Chita-Khabarovsk



Construction in the present years. Chita-Khabarovsk



Construction in the present years. Bridges (Ulyanovsk)



Construction in the present years. Bridges (St. Petersburg)



Construction in the present years. Bridges (Vladivostok)



Road development plans in the far east till 2015

Building of new roads in permafrost roads^

Road «Kolima» about 120 km.;

Road «Ussury» about 135 km.;

Road «Lena» about 318 km.;

Road «Viluy» about 56 km.;

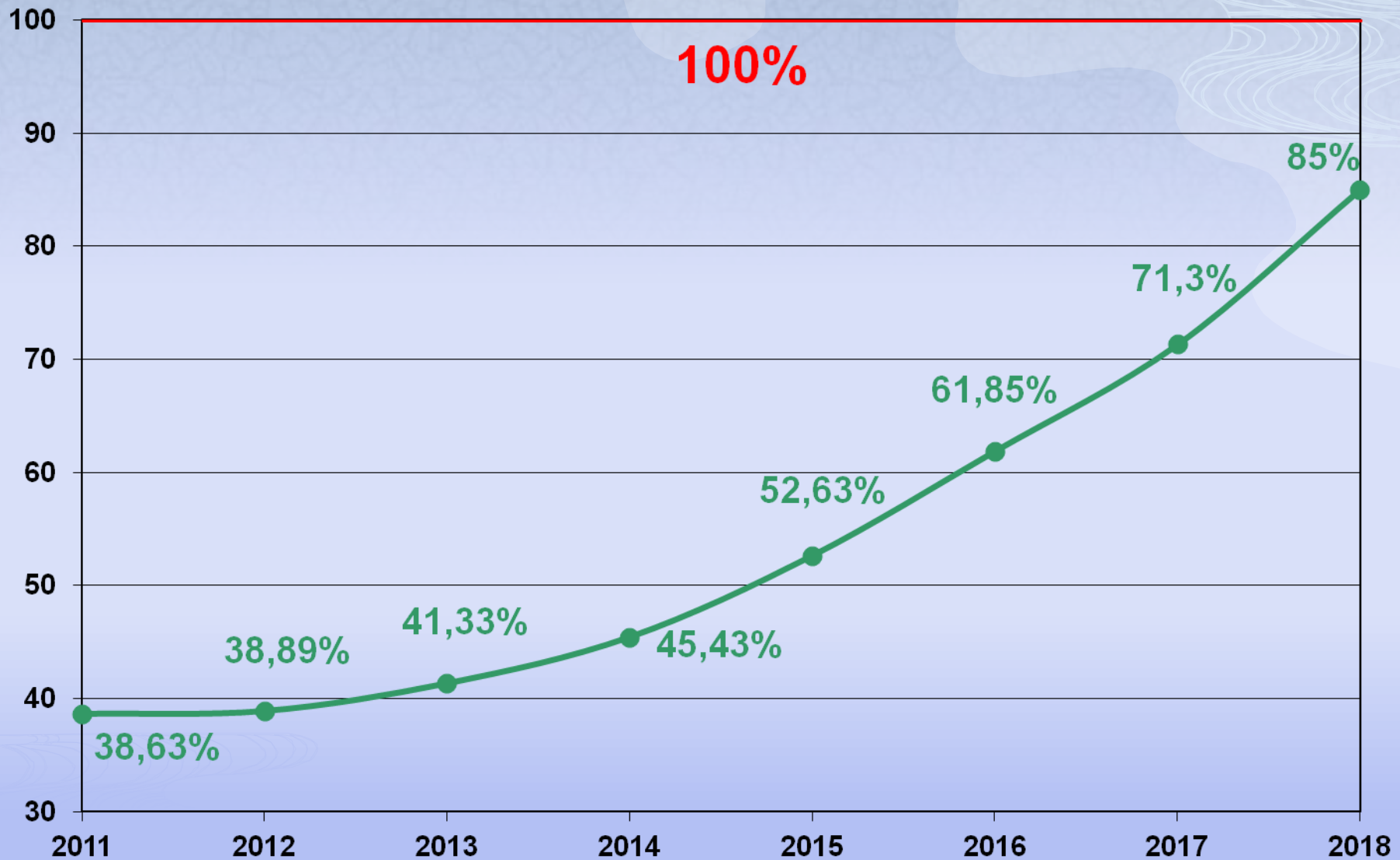


Permafrost zones in Russian Federation

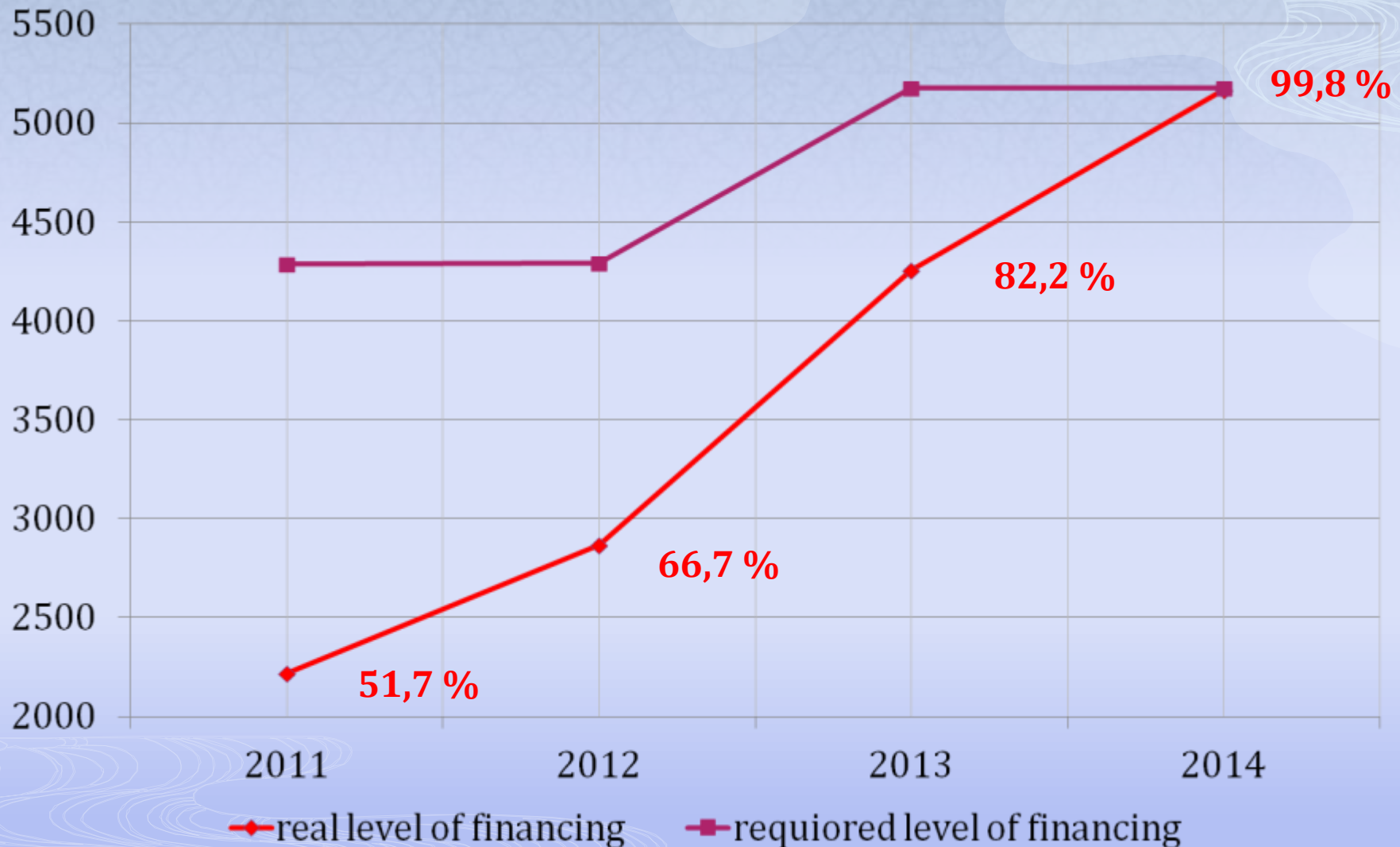




The part of Federal roads complying with set requirements (%)



Overhaul, repair and maintenance works Financing of federal road network in Mln. EUR



Innovations on Federal road network.

St. Petersburg

- 100 road controllers
- 400 variable traffic signs
- 40 information panels
- 30 whether stations
- 60 cameras
- 400 sensors
- 350 км optical fiber cables



Innovations on Federal road network.

Using GLONASS to control road works:

- More than 6000 units of road vehicles with GLONASS sensors
- The operator gives tasks in program and monitor work making in automatic mode.
- savings on fuel consumption is up to 30%.



| ТЕКУЩИЕ ОТЧЕТЫ ТРАНСПОРТНОГО СРЕДСТВА | | | | | | |
|---------------------------------------|-------|----------|----------|------------|------|--------|
| Время | Время | Продолж. | Событие | Объект | Датч | Пробег |
| 05:45 | 05:48 | 00:04 | Движение | Горьк-2 | ✓ | 2.52 |
| 05:49 | 05:50 | 00:01 | Движение | Будаво | ✓ | 3.19 |
| 05:50 | 05:50 | 00:00 | Остановк | Будаво | ✓ | 3.00 |
| 05:50 | 05:51 | 00:01 | Движение | Будаво | ✓ | 3.11 |
| 05:51 | 05:51 | 00:00 | Движение | Будаво | ✓ | 3.03 |
| 05:51 | 05:53 | 00:02 | Остановк | Будаво | ✓ | 3.00 |
| 05:53 | 05:55 | 00:02 | Движение | Будаво | ✓ | 1.88 |
| 05:55 | 05:57 | 00:02 | Движение | Барк | ✓ | 1.66 |
| 05:57 | 05:57 | 00:00 | Остановк | Барк | ✓ | 0.00 |
| 05:57 | 06:02 | 00:05 | Остановк | Барк | ✓ | 0.00 |
| 06:02 | 06:08 | 00:06 | Движение | Барк | ✓ | 2.29 |
| 06:08 | 06:10 | 00:02 | Движение | Будаво | ✓ | 1.33 |
| 06:10 | 06:11 | 00:01 | Движение | Горьк-3 | ✓ | 3.27 |
| 06:11 | 06:14 | 00:03 | Движение | Горьк-2 | ✓ | 1.78 |
| 06:14 | 06:15 | 00:01 | Движение | - | ✓ | 3.28 |
| 06:15 | 06:15 | 00:00 | Движение | Н Огарово | ✓ | 3.19 |
| 06:15 | 06:17 | 00:02 | Движение | - | ✓ | 0.76 |
| 06:17 | 06:19 | 00:02 | Движение | Родник | ✓ | 1.13 |
| 06:19 | 06:25 | 00:06 | Движение | - | ✓ | 3.01 |
| 06:25 | 06:27 | 00:02 | Движение | ПБ Ленково | ✓ | 3.67 |
| 06:27 | 06:33 | 00:06 | Движение | - | ✓ | 3.07 |
| 06:33 | 06:34 | 00:01 | Движение | Госпиталь | ✓ | 3.57 |
| 06:34 | 06:34 | 00:00 | Движение | - | ✓ | 3.14 |
| 06:34 | 06:35 | 00:01 | Остановк | - | ✓ | 3.00 |

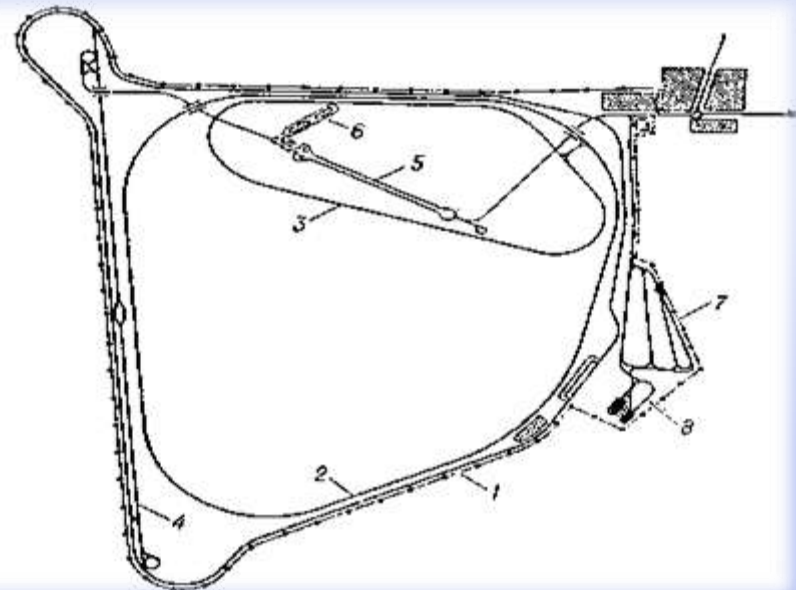
Гарячий номер: 140
Гос. номер: Н140МА
Обновить
Выход

Innovations on Federal road network.

Road construction testing polygon:

Building of 4 polygons until 2015 year

- St. Petersburg (ITS, Bridge element, lightings, road pavements and materials)
- Rostov (road pavements testing)
- Yakutsk (permafrost research and testing materials in the difficult conditions)
- South region of Russia (landslide and unstable soil masses research)



Innovations on Federal road network.

Harmonization of norms with best norms in the world practice:

- Bitumen and test methods
 - Crushed stone
 - Asphalt concrete
 - Roughness norms
 - Design norms
-
- Develop new norms in the frame of Custom UNION
(more then 120 new standards till 2015)



Thank you