A web-map application for assessment of impacts of natural hazards on the transportation infrastructure.

**Fig. 2.: Road and railway section interruptions**

- **1st class roads**
- **2nd class roads**
- **3rd class roads**
- **Expressways**

**Risk**

Possible impacts and the probability of occurrence of such natural process which is capable of interrupting a road section.

- 4%

**Number of interrupted sections**

Current interruptions from 1997 – 2014

- 20%
- 40%
- 60%
- 80%

**An example of June 2013 flood**

- **Traffic intensities**
- **Cost of remedial works**

**Computation of vulnerability**

Two types of road link vulnerabilities can be defined in principle:

- Direct (the road link was affected by a road link blockage)
- Indirect

**Web-map application**

Visualizes losses caused by natural hazards.

**Here**

- **DATA IMPORT**
- **WEB MAP**
- **RUPOK Visualization**
- **Animation of closed roads**
- **Alternative routes module**

**Road interruptions from 1997 – 2015**

Total number of road sections including the database for the 1997 – 2015 time period. Flooding and landsliding and snow

**Current interruptions**

- 112 – Police, Fire Brigade, Ambulance, Road administrators

**Statistics**

- Number of interrupted sections
- Number of records in the database and its structure
- Filtering, SQL querying, updating

**RAILWAY NETWORK**

Based on road and rail track types

- Regional tracks and others

**Interruption based on road and rail track types**

- Historical data
- JSDI data

**Static data**

- Data on roads
- Data on railway sections

**Publications**