Central technical register of roads in Slovakia/Road Databank







Slovak Republic

Capital city Bratislava

Inhabitants 476 922

Surface area [km²] **49 034,55**

Population 5 428 792

of which females [%] 51,1

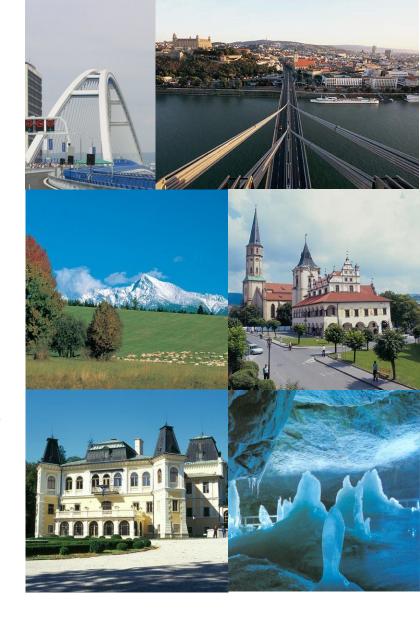
Population density [popul. per km²] 110,67

Number of Regions 8

Number of Districts 79

Number of Municipalities 2 890

of which with City statute 141







Road Network in Slovakia

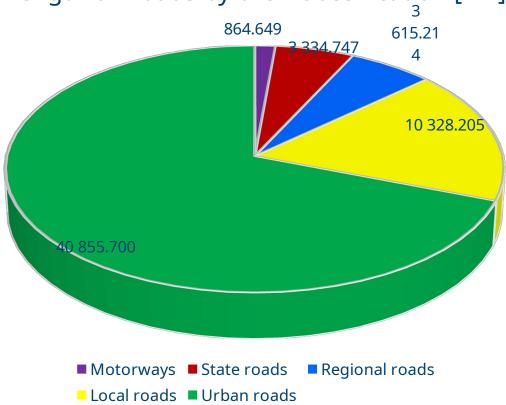
- Classification of Roads by their traffic importance:
 - motorways (international, transit traffic)
 - roads:
 - 1 st class/state (transport among regions of Slovakia)
 - 2 nd class/regional (traffic within regions)
 - 3 rd class/local (connections among higher class roads and urban roads)
 - urban roads within administration boundaries of towns and villages





Slovak road network





Roads classification	Length [km]
Motorways	864,649
State roads	3 334,747
Regional roads	3 615,214
Local roads	10 328,205
Urban roads	40 855,700
Total	58 998,515





Ownership and administration of Roads

State

Ministry of Transport of the Slovak Republic

Slovak Road Administration (state budget) State Roads

National Motorway Company (joint stock) Motorways

Private Companies (PPP projects) Motorways (some sections)

Regional

Regional Authorities (8x)

Regional Road Administrations Regional and Local Roads

Local

Local Authorities/Municipalities

Municipal Road Administrations Urban Roads





Central technical register of roads

 Central register of technical data which represents a road – its parts and equipment act no. 135/1961 Zb. "Road act"/ duty for Ministry of transport of the Slovak republic

Slovak Road Administration realizes this agenda for the whole road network in Slovakia through team of specialists, technical equipment and support of information system of Road network model

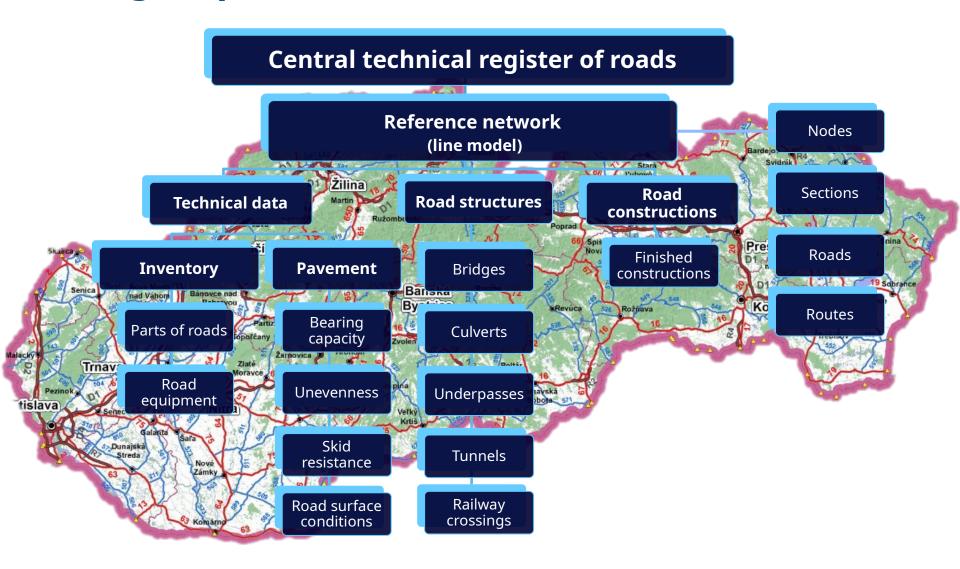
IS – tool for data creating, data maintenance, data elaboration – data publishing

Data is the biggest benefit!





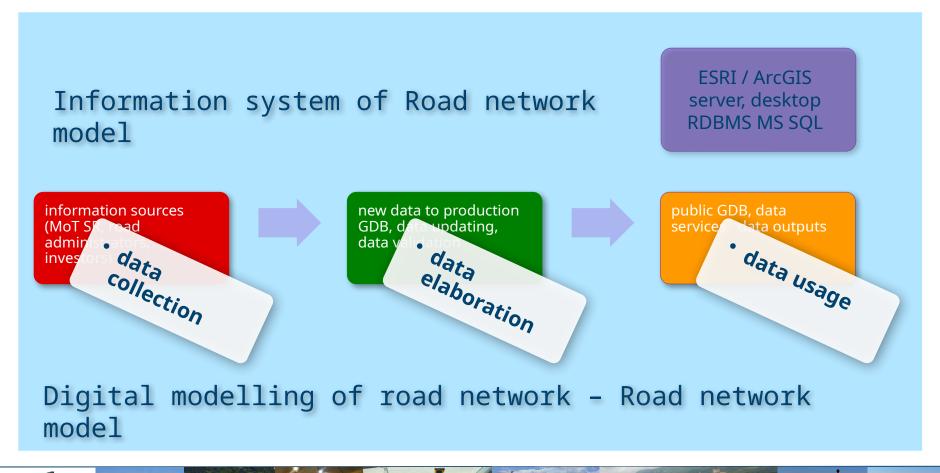
Main groups of data



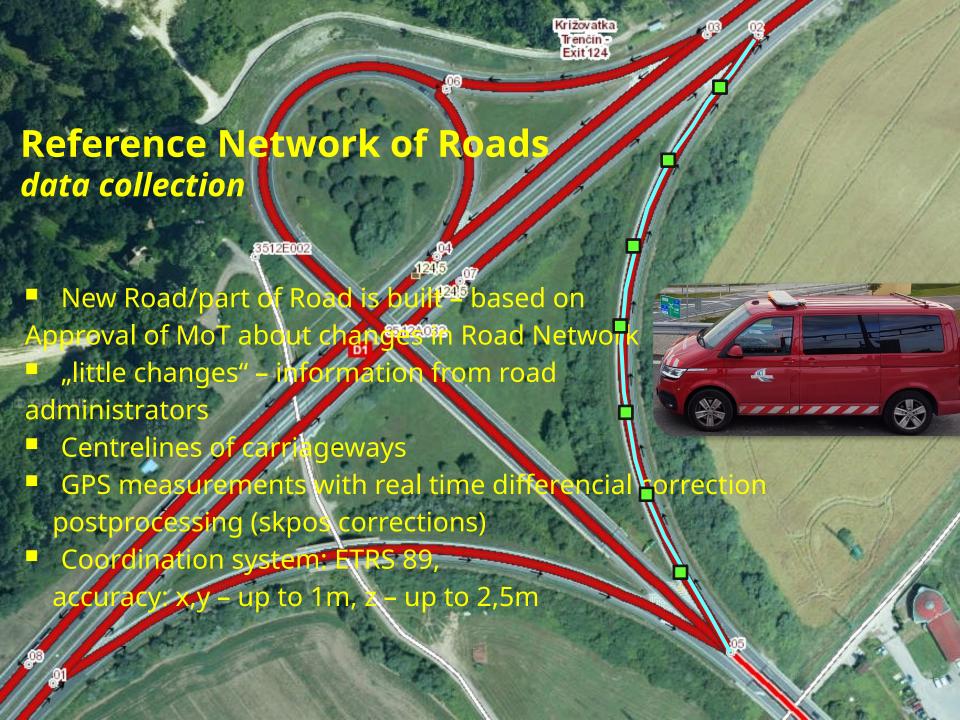


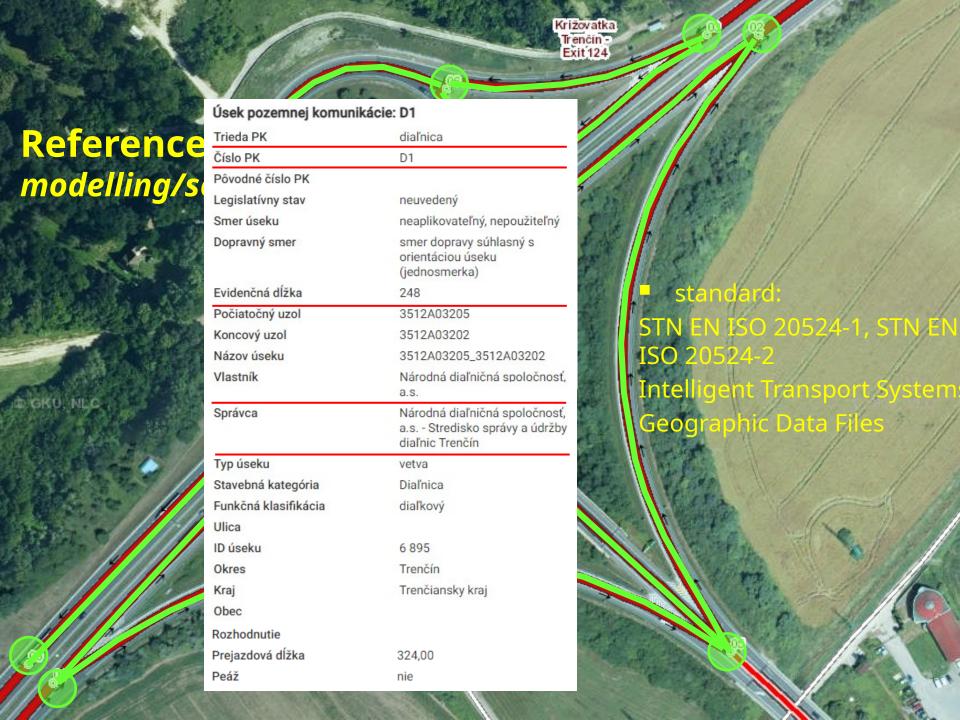


Central register of roads - workflow









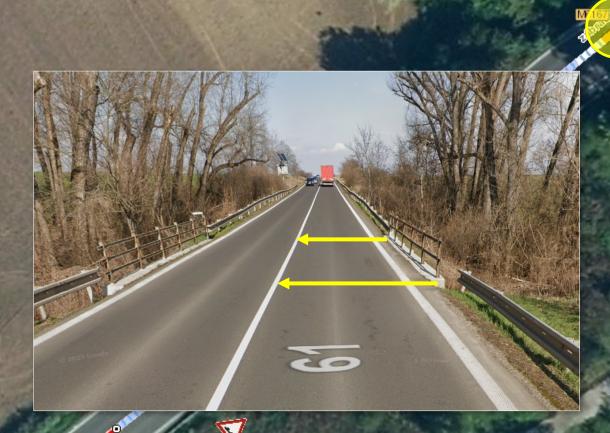


 Data collection/point and line events – perpendicular projection to section/linear referencing to section (data collection directly on roads, information from road adminstrators, from roads design documentation



Inventory

Data collection/point and line events – perpendicular projection to section/linear referencing to section (data collection directly on roads, information from road adminstrators, from roads design documentation









Profilograph:

laser based technology/16 lasers beam width 2,5 m/measured width 2,7 m unevenness/IRI, ruts network level/motorways+state roads every year regional roads every 2 years







KUAB FWD 50, 150: falling weight deflektometer range of load: 12 – 50 kN deflection, bearing capacity project level/requests via PMS









Skiddometer BV11 VI:

longitudinal skidd resistance

skid: 17 %

water film thickness: 0,5/1 mm

coefficient of longitudinal friction Mu

project level/requests via PMS

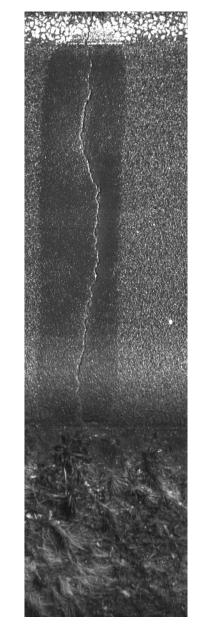






Linescan:

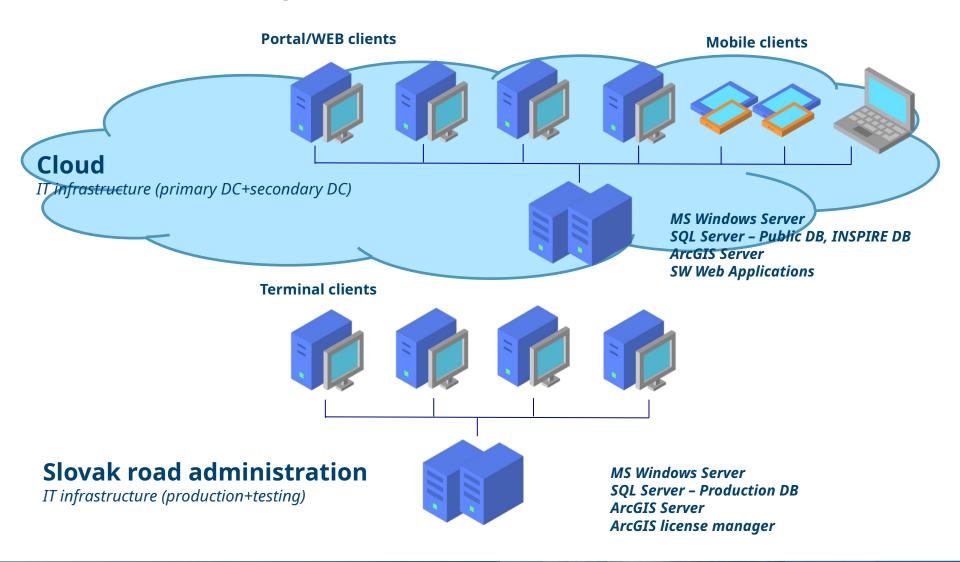
continuous recording of the road surface width of recording: 3,5 m LED lightning system pavement surface craks - UCI project level/requests via PMS







Information system of the Road Network Model

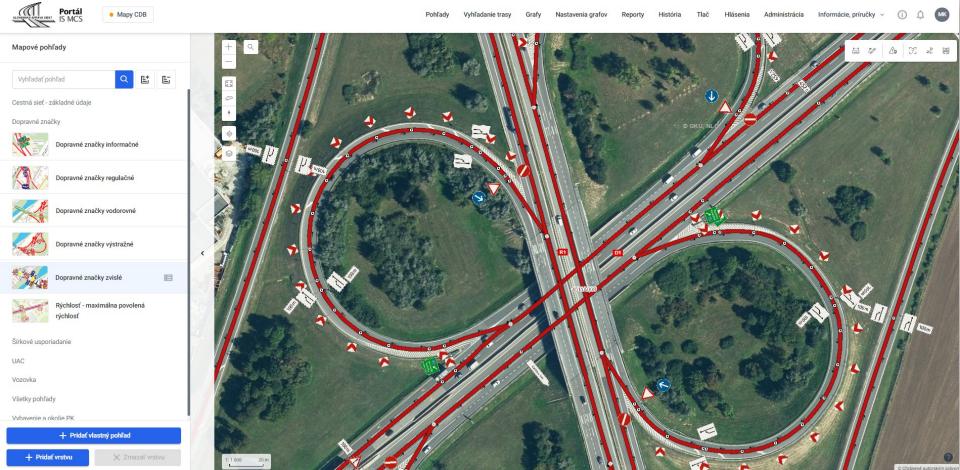






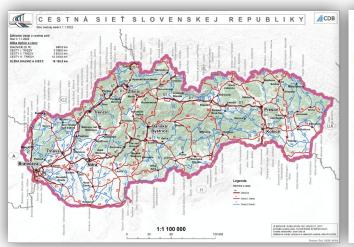
Data usage

- free of charge
- state level support for decision processes of transport economy
- other central state administration bodies (MoI, MoD, MoE,...) support for their



Data publishing

- www.cdb.sk statistical outputs, data sets, map documents, vector data, data services / wms, wfs
- data.slovensko.sk state open data platform: datasets
- rpi.gov.sk register of spatial information in Slovakia (catalog of metadata)











Thank you for your attention

Contact:

Slovenská správa ciest odbor cestnej databanky Dúbravská cesta 1152/3 841 04 Bratislava

tel. +421 2 50255 111 http://www.ssc.sk http://www.cdb.sk





