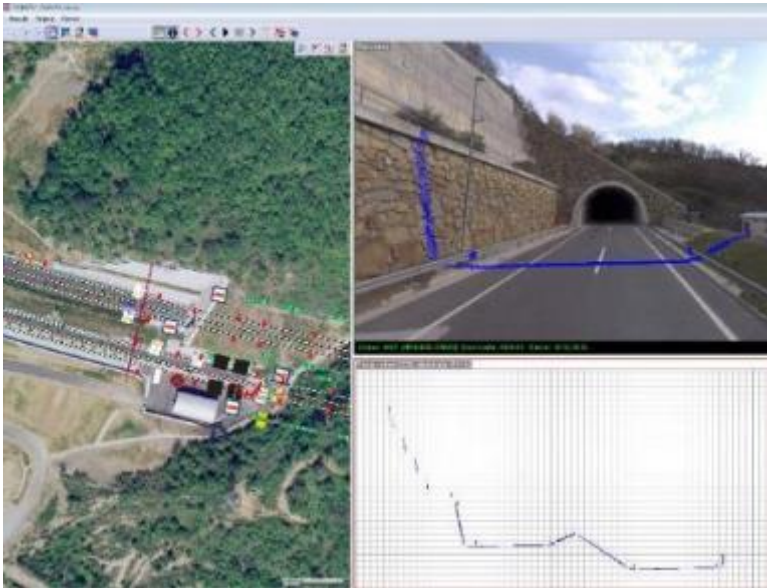




# Spherical and laser recordings of the motorway network managed by DARS d.d.



**Bojan Banfi**

**DARS d.d.**

Motorway Company in the  
Republic of Slovenia

## Motorway system in the Republic of Slovenia



610 km of motorways and express roads



# MANAGEMENT OF DIGITAL DATA



DARS

# MANAGEMENT OF DIGITAL DATA



# PROJECT CONTENTS

- Spherical recording
- Laser recording
- WEPS
- RAMPA



# COURSE OF THE PROJECT



- Mobile recording, speed approx. 50 km/h
- Computer data processing
- Setting up the scanner
- Implementation and maintenance
- Duration of the project: one year

# EQUIPMENT

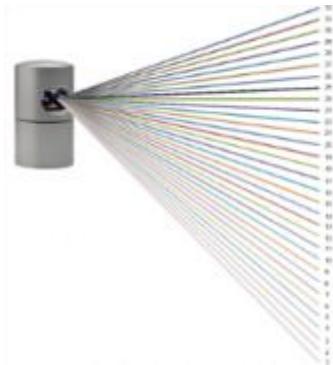
■ PHOTO EQUIPMENT:



PointGrey spherical camera

6 cameras with 5 MP → total 30 MPix

■ LIDAR SENSOR:



Velodyne

32 lasers



# SPHERICAL AND LASER SCANNING STATISTICS

Avtocestni sistem v Republiki Sloveniji



Spherical recording

→ 3,249 km =

**650,000 recordings**

Lidar recording

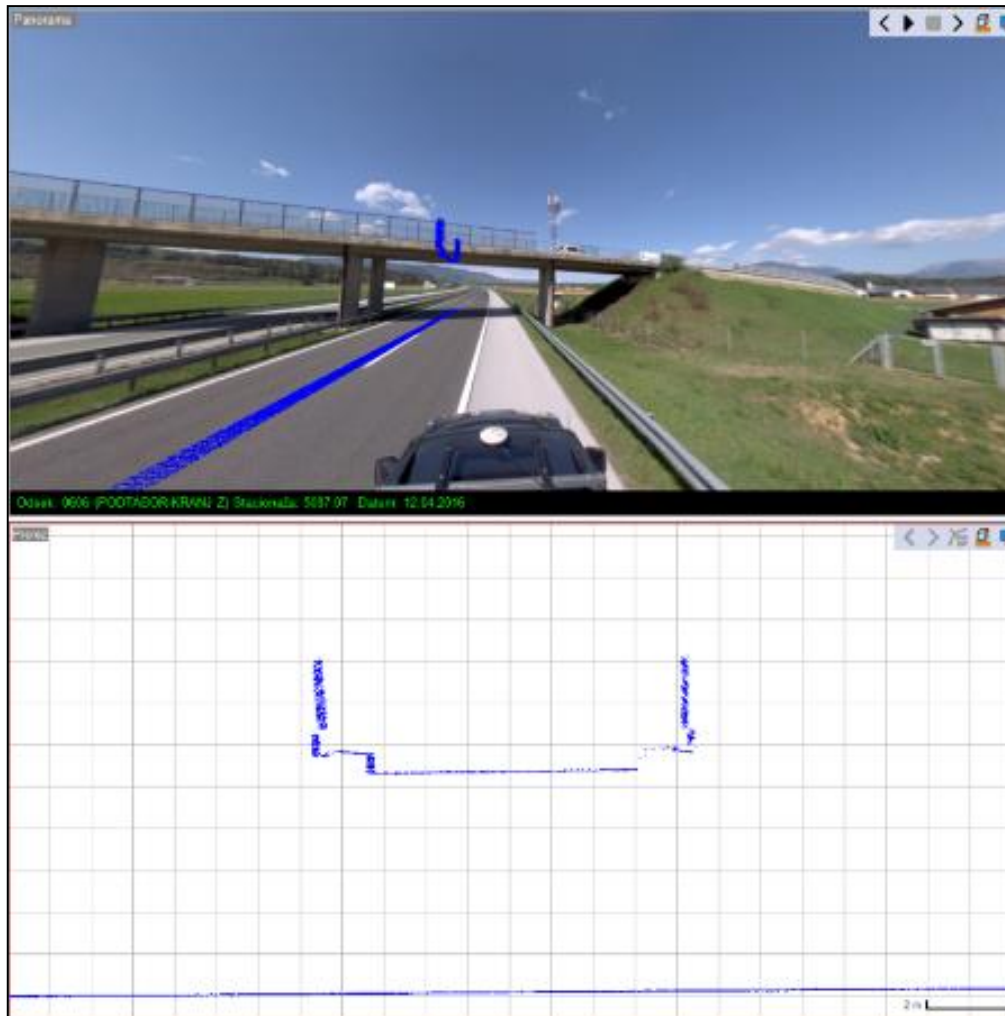
→ 2,700 km =

**over 111 billion points**

# RAMPA - SPHERICAL RECORDING

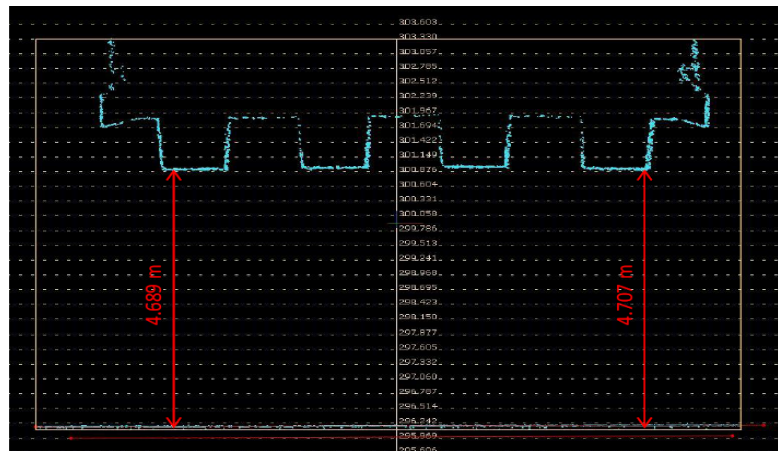


# RAMPA - CROSS AND CUSTOM SECTIONS





# INVENTORY OF TRAFFIC SIGNALISATION AND TRAFFIC EQUIPMENT



# WIDE RANGE OF USE

- Highway maintenance personnel
- Traffic experts and transport institutions
- Planners
- Inspection and monitoring
- Legal certainty

**DARS**

Quality data to drive safely!