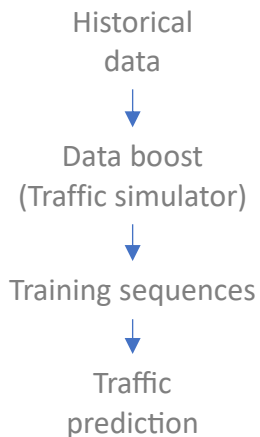
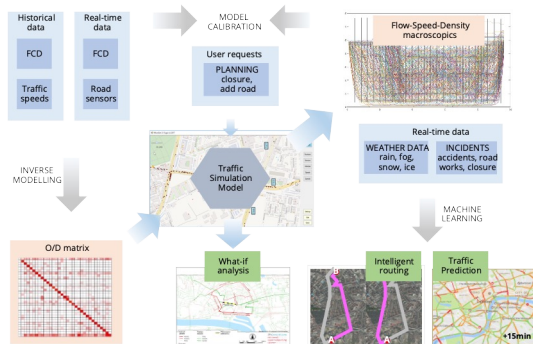




Advanced Traffic Modelling for Smart Cities Using Powerful Data Processing Platform

Radim Cmar (Sygic), **Martin Šurkovský**, Kateřina Slaninová, Jan Martinovič (IT4Innovations)



EVEREST is targeting FPGA-based distributed architectures to accelerate extreme-scale big data applications

- System split into **workflows**
- **Data-driven compilation framework**
- **Task graph with task distributed over cluster**
- Critical **kernel**s mapped to **FPGA** based architecture
- Autotuning of tasks during the runtime

Traffic services:

What-if traffic analysis | Intelligent routing | Traffic prediction



EVEREST

DESIGN ENVIRONMENT
FOR EXTREME-SCALE BIG DATA ANALYTICS
ON HETEROGENEOUS PLATFORMS

