Societal Challenge nr.4: *Transport*

Big Data Focus area: Streaming sensor network & geo-spatial data integration

BDE2020 domain partners:

Selected Key Data assets: GTFS data, OSM/LinkedGeoData, MobilityMaps, Transport sensor data, ROSATTE Road safety attributes, European Road Data Infrastructure - EuroRoadS

Pilot 4:
Multisource data collection for the provision of accurate info-mobility and advanced transport planning service in Thessaloniki, Greece
Reasons:
- ◎ Congestion is a major problem in Europe, especially in urban areas.
- ◎ utilizing real-time probe data for the provision of accurate info-mobility services and advanced transport planning, leads to better decisions
- ◎ The use of mobility data coming from multiple sources presents significant challenges, especially due to the different nature of the datasets both in content and spatio-temporal terms as well as due to the fact that the data should be collected and processed in real time.

Data:
- Traffic counts and speed (330 locations, a data set every 1.5 – 5 minutes, 300k records, 15 MB)
- Travel times from Bluetooth detectors (43 locations, a data set every 15 minutes, 250k-300k records, 50 MB)
- Floating Car Data position and speed (1200 vehicles, a data set every 2 minutes, 2M records, 200MB)
- Check-in events from social networks