

Eyes on the road with smart data

Traffic Police in EU (TISPOL): Overview of the work done in The Netherlands in cooperation with the Police

Erik Donkers



SOFTWARE



IMPLEMENTATION



IMPLEMENTATION

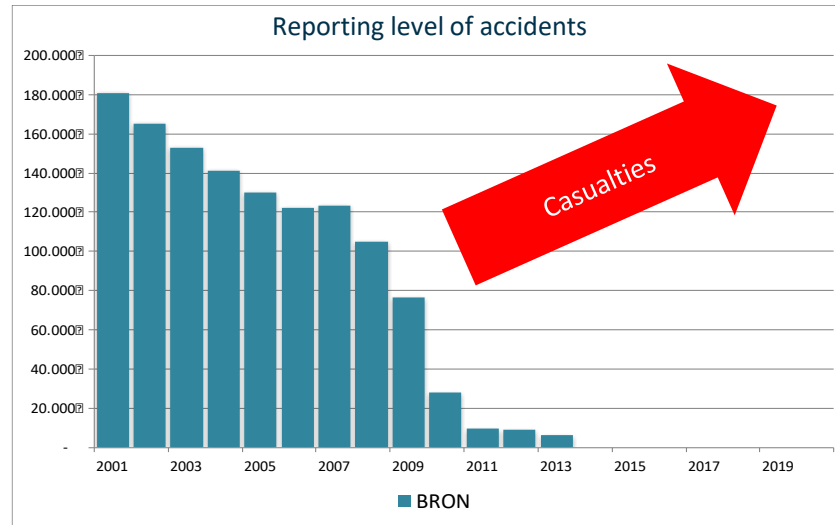


13th PRI World Congress ▪ Road Safety Governance: Challenges & Stakes ▪ Regency Hotel - Gammarth, Tunisia ▪ 3–7 May 2017

Visible results of accidents analysis



Road safety came under pressure



New approach was needed

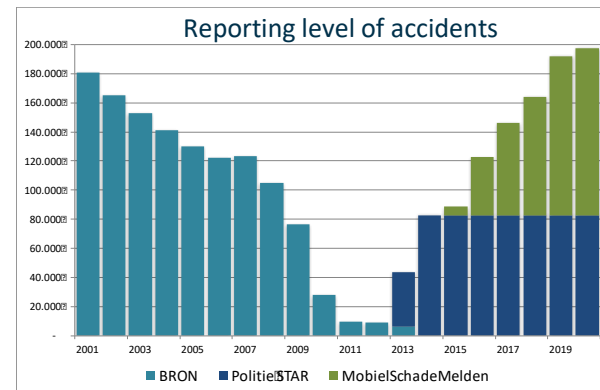


STAR an initiative of:



The initiative

- Goals
 - Innovative cooperation between stakeholders (Public Private Partnerships)
 - Effective accident reporting system
 - Smart analysis and reports based on objective data: accidents & speed
 - All stakeholders have access to the same data
- Self supporting financial structure
 - Police: VIA offers a 'software for data' model
 - Insurers: an app for road users to claim accidents and collect data for road safety
 - Road authorities: VIA offers a Road Safety Support System



Arrangements laid down in covenant: **STAR Safety Deal**

Road authorities



Ministerie van Infrastructuur en Milieu



Vereniging van
Nederlandse Gemeenten



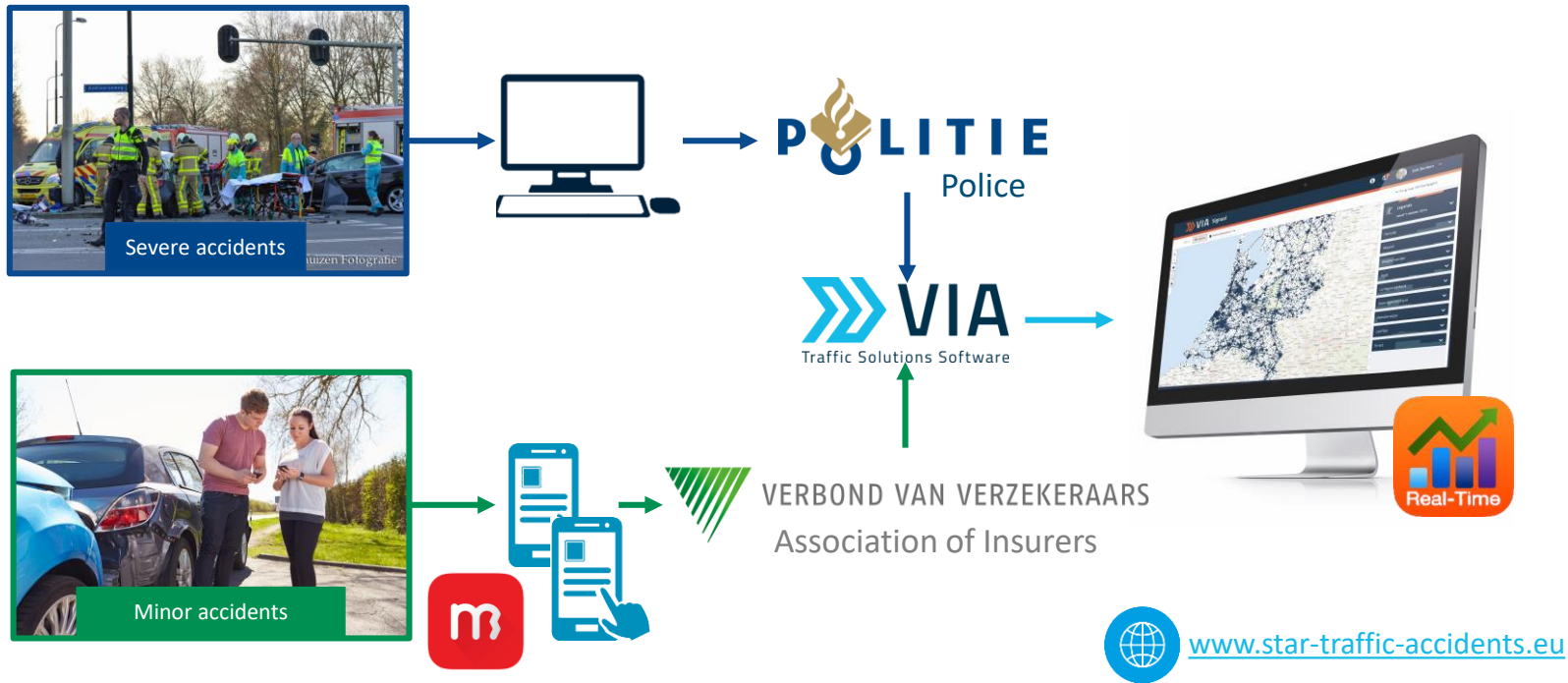
Road safety organizations



Scientific research institutes



Public-Private Partnership on accident reporting



Accident reporting by citizens



MEOS: mobile solution Dutch Police

- Accident Registration App (Summer 2017 First Test)
 - Automatic license plate recognition
 - Person identification via Citizen Service Number
 - Exact location determination via GPS
 - Photos of the situation
- Data collection also for road safety



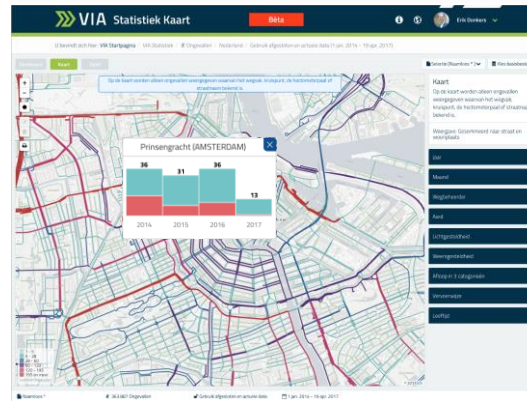
VIA Software for accident analysis



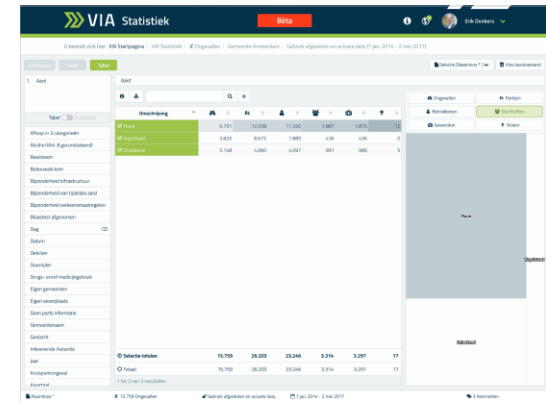
Interactive Dashboard



Unsafe routes

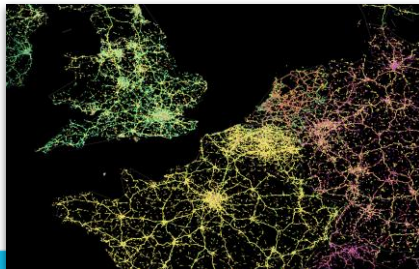


Detailed analysis capabilities



Floating Car Data = speed data

- No future developments, but today's reality
 - Data collection by navigation systems & smartphones
 - Constant checking GPS coordinates during a trip
 - Stored data linked to a map
- Floating Car Data is now measuring speed and flow of traffic



Speed is an important indicator for traffic management

- **Speeding:** a negative impact on road safety and environmental aspects such as emissions and noise pollution
- **Delays:** restricts the accessibility and traffic jams, due to the additional emission production, is harmful to the environment
- **Incidents:** driven speed helps to map out the impact of traffic incidents on the surrounding roads



VIA Software for speed analysis



Citizens' complaints



Overview of speeding



Bottlenecks in traffic flow



We achieved a lot, but want more

- Software & data is available
 - Accidents
 - Speed
- Huge network of users
 - Road authorities
 - Police
- Optimized support
 - User reports
 - Workshops and trainings

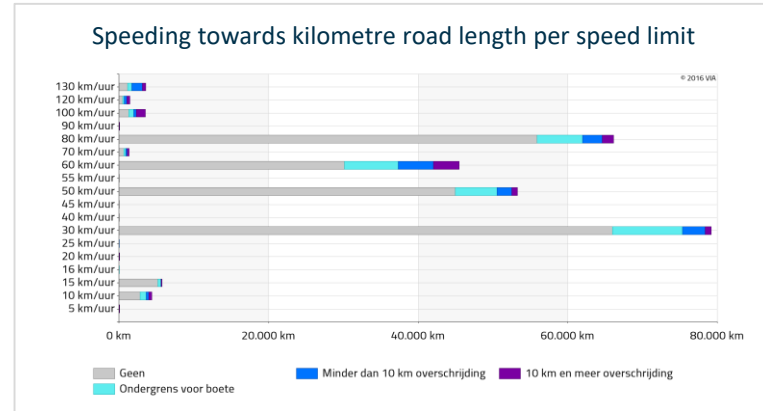
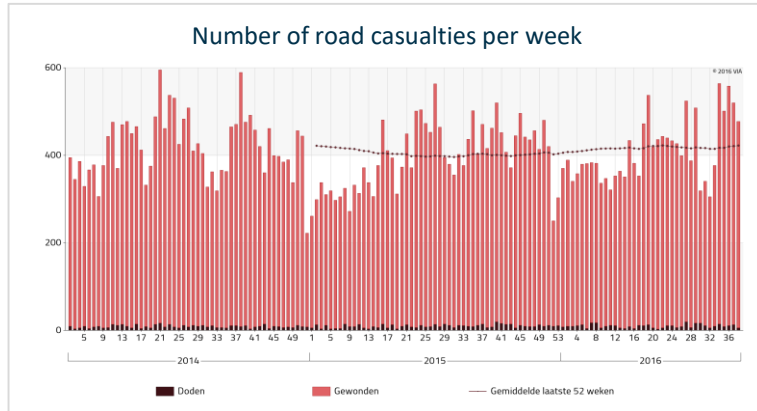
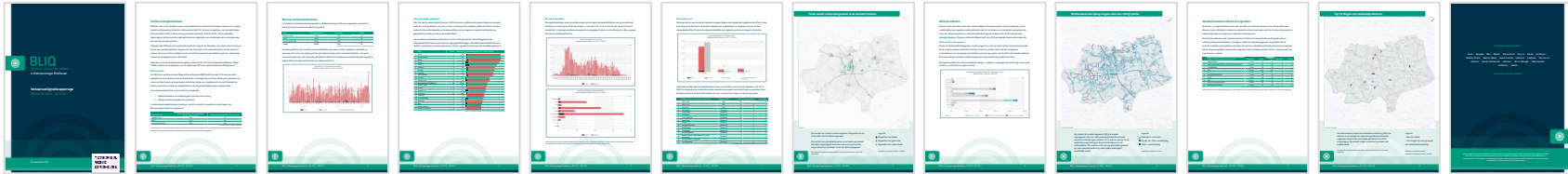
- More political involvement
 - News travels fast
 - Agenda setting
- ➔ Smart and frequently report



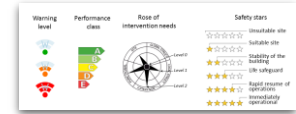
- Information-driven approach
 - Standardised method
 - Top-down implementation
- ➔ Safety Performance Indicators



BLIQ: Automatic report based on smart data



Safety Performance Indicator (SPI)



A partnership of:

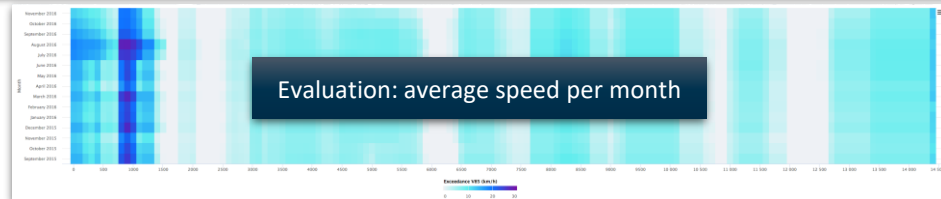
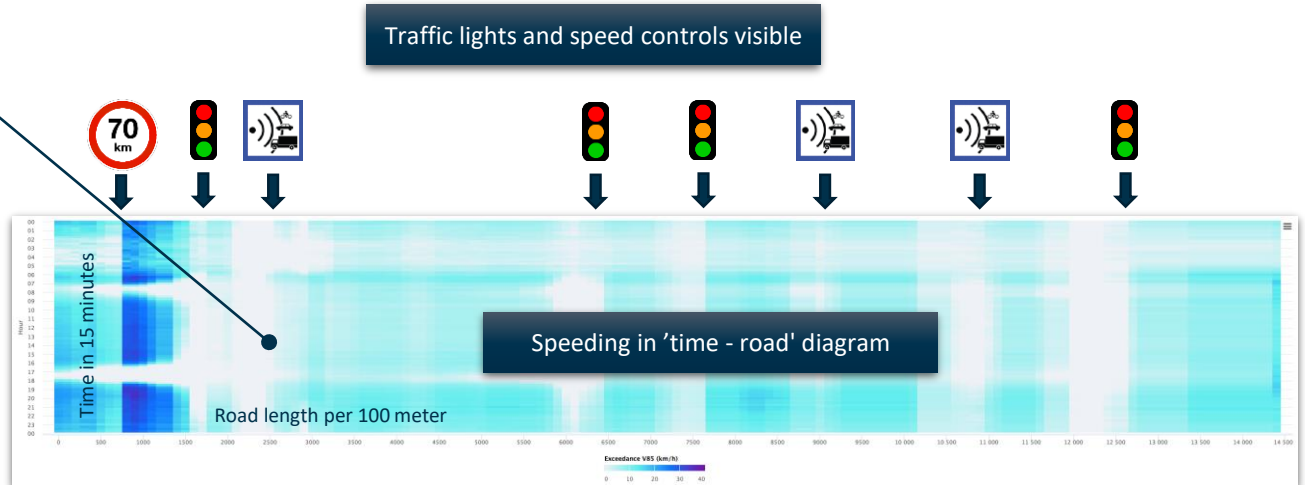
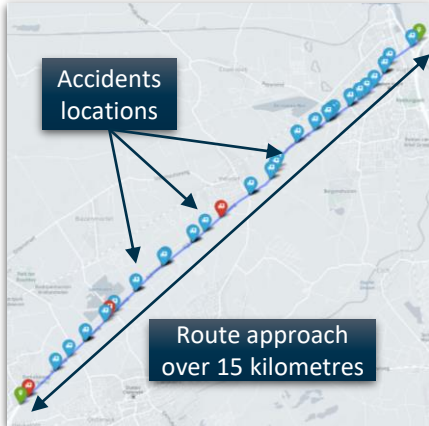
OPENBAAR MINISTERIE

Public Prosecution Service

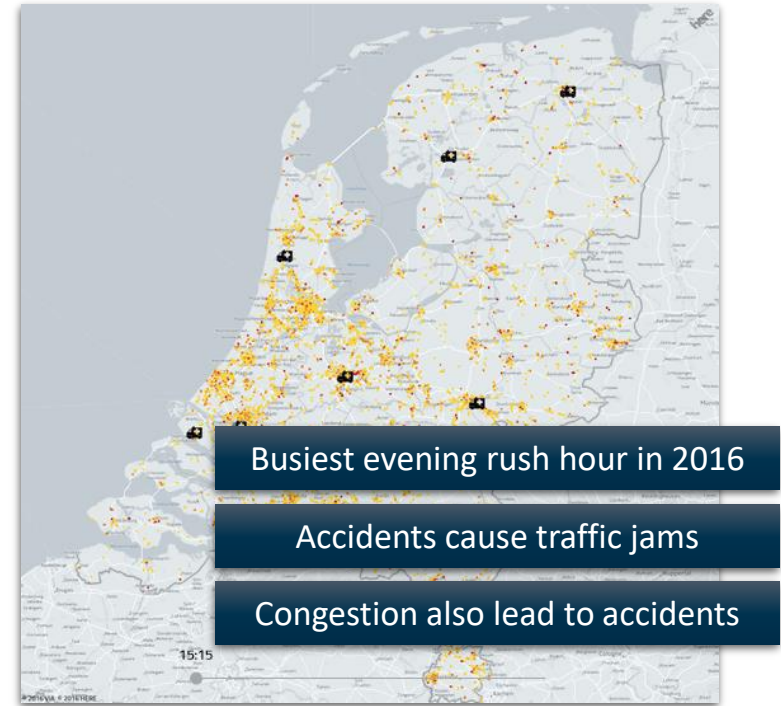
POLITIE
National Police

VIA
Traffic Solutions Software

Route analysis based on speed & accidents



Next step: relationship between incidents, congestion and accidents



Always a step ahead.



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