

# Data & Road Safety

# **ANWB Data & Road Safety**

Data-driven improvement of road safety

Menno Mimpen Sr. Product Owner Data & Road Safety



# Vision Zero 2050 (EC)

## **Road Safety Strategic Plan 2030**

Reduce road traffic deaths and injured by 50% by 2030 compared with 2020

## **Contribution of ANWB, includes Data-Driven:**

- Improvement of individual driving behaviour
- Risk driven improvement of road infrastructure together with road authorities

## How?

Current proposition and developments

Ministry of Infrastructure and Water Management Ministry of Justice and Security Association of Provincial Authorities Association of Netherlands Municipalities Transport Authority Amsterdam Metropolitan Region Rotterdam The Hague



## **Today's ANWB Drive Safe proposition** 'Pay how you drive' car insurance

#### How does it work?

- Insurance Premium is based on how you drive (introduced 2016)
- Mobile App measures driving style based on:
  - ✓ Driving speed
  - ✓G-force
- Feedback every 10 days via mobile app

#### Results

- 95% of insured is rewarded by an additional discount
- Clear positive influence on driving behaviour
- > 2 billion km of road analysed since 2016



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# **Our Data Service**

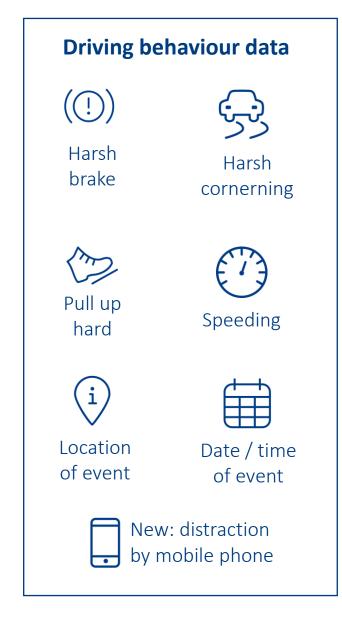
- Driving behaviour data collected by more than 75.000 drivers
- Exclusive offering to road authorities T&C restriction
- Anonymous / aggregated data on driving behavior
- Multiple severity levels for each event
- Started early 2021; >150 road authorities access May 2022

## **Non-profit service**

• One-off setup costs only

### ANWB's goal is to improve road safety

not commercial exploitation of data

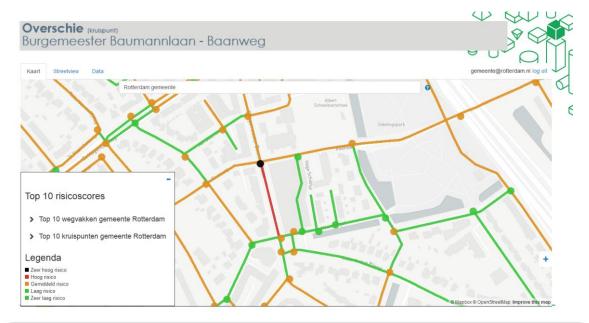




City of Rotterdam: 'If even the safest drivers still make a massive mistake somewhere, then there may be something wrong with the road infrastructure'



# First application 2021: road safety risk model Rotterdam



Overschie (rolispunt) Burgemeester Baumannlaan - Baanweg

Aanknopingspunten vanuit model ten behoeve van oplossingsrichtingen:

Top 10 factoren: 1: unigarant\_n\_\_sum\_braking\_buffer20 2: straatmeubilair\_n\_\_buffer20 3: n\_\_fiets\_mediaan 4: osm\_type\_shop\_20 5: nearest\_gereden\_snelheid\_85 6: unigarant\_n\_\_sum\_accelerating\_buffer20 7: osm\_type\_amenity\_police\_20 8: verkeersborden\_n\_borden\_buffer20 9: bomen\_n\_\_buffer50 10: osm\_type\_highway\_bus\_stop\_20

#### Analyse op basis van factoren:

Door de ligging van het kruispunt nabij een winkelcentrum vinden er veel oversteekbewegingen plaats. Fietsers, voetgangers en autoverkeer kruisen elkaar op een 50 km/h weg. Door parkeerplaatsen, bomen en een bushalte direct naast het kruispunt is het zicht op elkaar beperkt. Verkeersdeelnemers zien elkaar laat. Hierdoor vinden er (plotselinge) rembewegingen voor het kruispunt plaats net als optrekken direct na het kruispunt. Door de rechtstand van de wegen is de naderingssnelheid bovendien hoog.

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#### **Overschie** (kruispunt) Burgemeester Baumannlaan - Baanweg

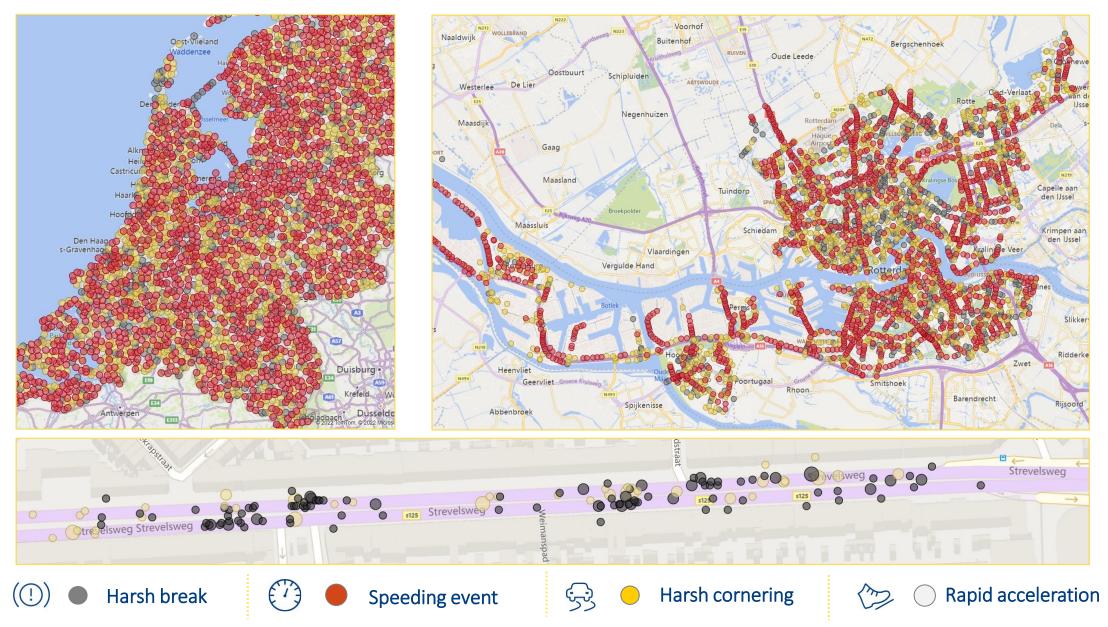






# Data visualisation tool - insights in real driving behaviour

Data subset January 2021 – March 2021



anwb

# Thank you for your attention

Canwb

more information:

www.anwb.nl/dataverkeersveiligheid

email: <u>dataverkeersveiligheid@anwb.nl</u>