swissTRAFFIC
we innovate mobility

SWIROO
PART OF SWISSTRAFFIC

AI | swissSAFETY AI

AI-based detection of violations and misconduct in road traffic. Improved safety for the most vulnerable transport users – pedestrians and cyclists. Can be connected to police caution or fine correspondence.

- **INCREASING SAFETY LEVELS FOR ROAD USERS**
- **PROMOTING MOBILITY OF PEDESTRIANS AND CYCLISTS**
- **SAVINGS IN THE HEALTHCARE SECTOR**

Improve safety at pedestrian crossings along school routes
Automatic detection of pedestrian crossings and right-of-way violations thanks to the use of AI and radar technology to increase safety. Immediately upon crossing, both the signals with special interior lighting and the yellow LED strips mounted on the poles can light up to ensure better visibility, especially at night.

situations In potential conflict situations involving "pedestrian-vehicle" or inattentive pedestrians (mobile phone-absorbed), a warning tone can sound in addition to the flashing of the lights. Optionally, in case of disregard, a brief video sequence of the incident can be stored in the system and used for law enforcement purposes. Available as a fixed or mobile installation.

Preventing accidents
Detection of near misses at intersections involving pedestrians, cyclists and vehicles or analysis of cyclist behaviour in roundabouts using AI technology by analysing trajectories and speeds. Available as a fixed or mobile installation.

Raising awareness of violations
By employing downstream LED displays, road users can be sensitized in real-time to their misconduct, contributing to targeted improvement of road safety.

Pedestrians are inattentive and perceive dangers too late.
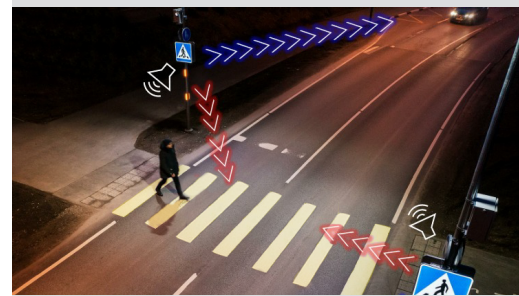
Real-time automatic detection of right-of-way violations at pedestrian crossings and warning of road users.

AI technology enhances safety along school routes and at pedestrian crossings.

📌 IDEAL APPLICATION AREAS

Improving safety, preventing accidents
Safety on school routes
Failure to give way at
pedestrian crossings
Cyclist behaviour at roundabouts
Detection of near-accidents
Disregard of stop signals
Unauthorised parking
Wrong lane or direction of travel

⚙ TECHNICAL FEATURES
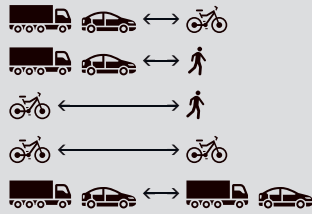
Fixed or mobile counting station
Autonomous for up to 7 days if mobile
Counting IMT, cyclists, persons
Speeds
Can be connected to an LED display
for awareness raising
Accurate lane tracking
Real-time data
Floating car data

COMBINABLE PRODUCTS

swissANPR AI
swissSERVICES
swissDASHBOARD

Preventing accidents BEFORE they happen

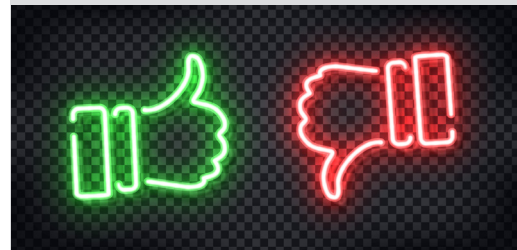|	
1. Capturing near-collisions Optional: Drawing attention to (mis) behavior	With our analysis tools, dangerous situations (near-collisions) are statistically captured and reported. The result is a risk matrix with an overview of all near-collisions categorized by their severity. (RED = very high probability of an accident / high degree of injury; ORANGE = existing probability of an accident / medium degree of injury; GREEN = low to no probability of an accident / no risk of injury).
2. Proposal of measures	Based on the risk matrix, the red and orange near collisions examined in detail. Our safety experts develop measures to improve road safety at these locations through immediate infrastructure interventions.
3. Impact analysis of the measures introduced	After implementing the immediate measures, an analysis of their effectiveness is necessary, and the results are incorporated into a new risk matrix. The comparison of the two risk matrices BEFORE and AFTER should show no more near-collisions in the red area and as few as possible in the orange area.
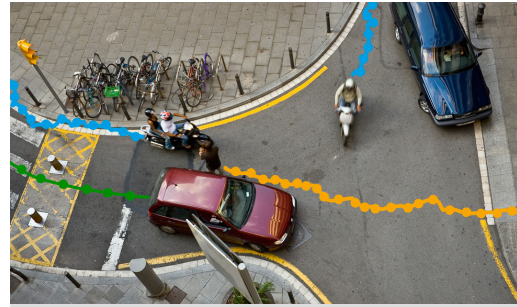
Automatic detection of near misses.
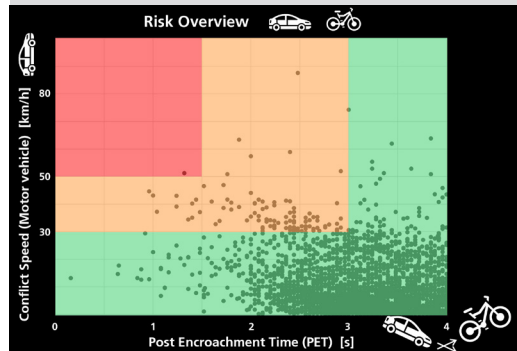
Evaluation of dangerous situations (near-collisions) with our risk matrice.

Drawing attention to (mis)behavior

SMART MOBILITY SOLUTIONS
PRODUCT CATALOGUE

SWISSTRAFFIC Group

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