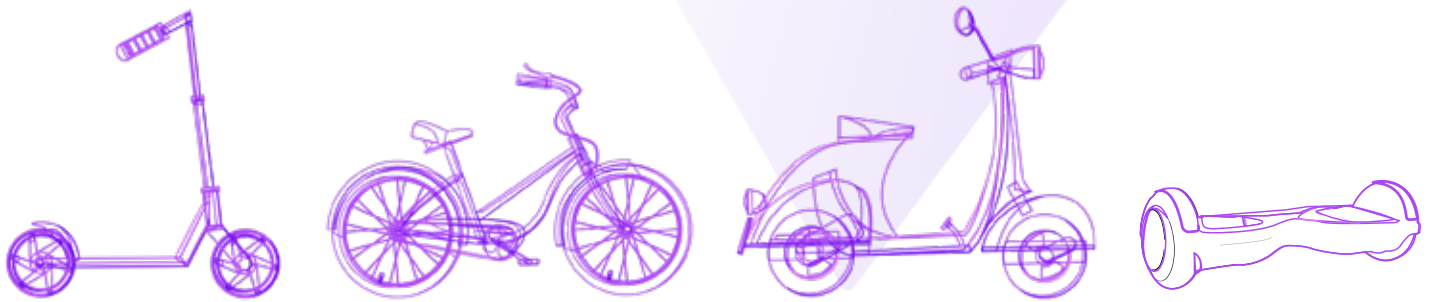# EYE·NET

Safe Micromobility
Anytime, anywhere pre-collision alerts

SWAGTRON®

# Real-time safety warning system for micromobility users

The growing popularity of alternative transportation options – both shared and owned – has changed the urban mobility landscape. E-bikes, e-scooters, and hoverboards have become mainstream replacements for cars and public transportation, a positive trend that eases traffic congestion while allowing greater maneuverability on city streets. However, unlike cars, which have multiple layers of protection, micromobility vehicles typically lack any kind of safety warning system. To ensure its continued success and increase adoption, it's important to solve the problem of how to protect riders and vulnerable road users.

Filling the safety void

Eye-Net designs and develops cellular-based V2X (vehicle to everything) collision prediction and prevention solutions.

The company's innovative Eye-Net™ Protect safe micromobility solution is an intuitive and easy-to-use mobile application that provides real-time pre-collision alerts to pedestrians and micromobility users. The anonymous service seamlessly integrates with personal smartphones and relies on existing cellular networks, without requiring a registered user profile.
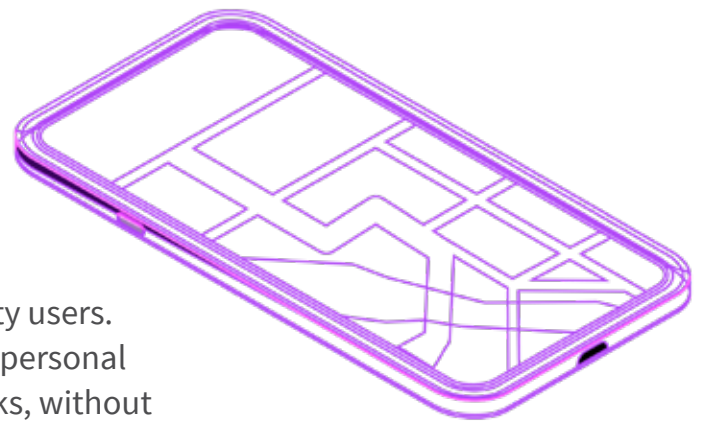
AI-Powered Collision Prevention

Eye-Net incorporates AI-powered algorithms to enhance accuracy, predict collisions, reduce latency and optimize device resource consumption:

Latency compensation
Adaptive compensating for the latency of each smartphone subscriber

Prediction & extrapolation
Locations and collision probability is calculated 10 times per second

Behavioral analysis
Based on characteristics such as velocity, bearing, acceleration & angular change

Spatial cross-correlation
Utilizes an advanced probability analysis to determine an imminent collision

Dynamic protection modes
Eye-Net™ dynamically activates / deactivates modules for resource usage optimization

How it Works

1 Each subscriber's mobile device location is continuously monitored

2 The location is shared with other Eye-Net™ subscribers in the vicinity

3 The Eye-Net™ application constantly searches for potential collisions

4 Immediate visual and audio alerts warn of an oncoming collision

Key Benefits

▼ V2X collision prediction and prevention solution

▼ Actionable insights and spatial informative notification

▼ Real-time audio and visual alerts

▼ Seamless integration to any 3rd party app (SDK)

▼ Compatible with most smartphones (runs on iOS and Android)

▼ Compatible with all micromobility vehicles

▼ Compatible with 3.5G, 4G, LTE, 4.5G networks and is 5G ready

Unique Characteristics

MOST ROAD USERS
Protects most road users
(vulnerable & drivers)

HARSH WEATHER
Works under all weather
and lighting conditions

ACCURATE
Exceptionally accurate
design with near zero FA

SIDE IMPACT ALERTS
Identifies threats outside
the field of view

HADNS-FREE
Runs as a background
process on iOS & Android

GDPR COMPLIANT
Anonymous service.
No registration required.

CAMERA-FREE
Relies on existing cellular
infrastructures
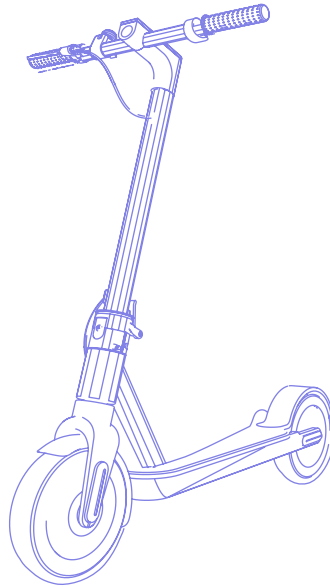
About Eye-Net

Eye-Net develops innovative solutions and smart communication platforms to enhance road safety and situational awareness for all road users in the urban mobility environment. Eye-Net protects vulnerable road users from potential collisions by delivering accurate real-time pre-collision alerts. The company's cellular-based V2X collision prevention solutions incorporate cutting-edge AI technology and advanced analytics to provide actionable insights and enhance road safety.