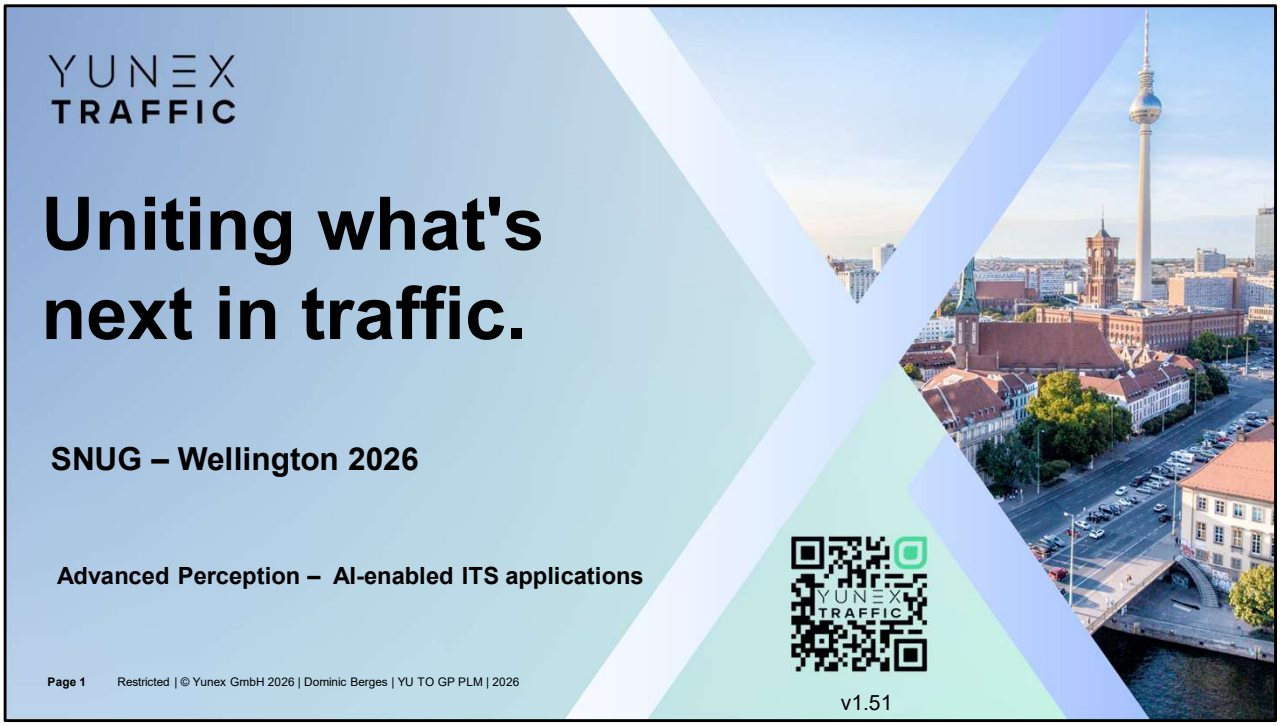


Advanced Perception: Yunex's AI-powered ITS applications for its customers. With the Advanced Perception product family and the first product Yutraffic awareAI, we are setting newrealize a range of solutions highly integrated with other Yunex products.



YUNEX TRAFFIC

Yutraffic awareAI

Cutting edge camera-based AI detection system – highly integrated into Yunex portfolio

Replacement for standard detection and advanced detection

AI technology for new ways to perceive traffic with unique benefits

YUNEX TRAFFIC

Roadside **AI** system to detect and track new road users by cameras – in total **12** classes: a **future-proofed technology**

Enable **V2X communication** for VRU applications to enhance road safety and to support autonomous driving.

Highest **data protection compliance** to roll out the product in the public space

New or **existing cameras** can be used

Cost savings are achieved by utilizing a **single detection platform** at your intersection

Applications can be **adapted** at any time or **new ones can be added** subsequently by using a **platform** approach

Easily access the **system remotely** using any browser in a secure and GDPR-compliant manner

Integrates ATSC4 controller at low cost, enabling unlimited detection zones and **full controller compatibility**. Supports data collection via the Yunex **Symphony** platform.

All road users can be considered for **flexible prioritization** solutions

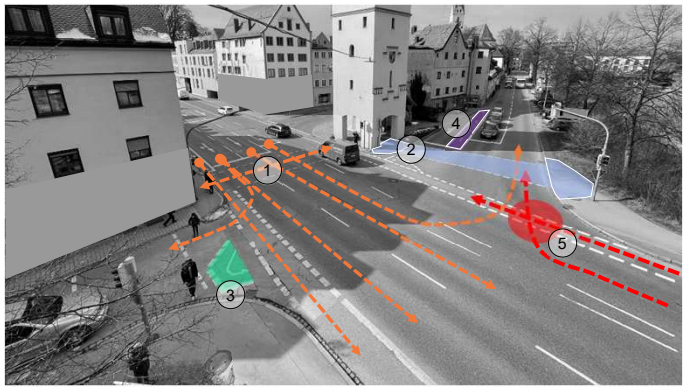


The Yutraffic awareAI product consists of a roadside artificial intelligence (AI) box based on the latest NVIDIA platform connected to standard IP cameras. Via Deep Learning, all relevant road users can be detected, classified and tracked to generate a real-time digital twin. Data points such as speed, position and direction of movement of individual objects are collected for this purpose.

With local video processing at the road, the most important technical measure is implemented to comply with the data protection of a camera-based method. Furthermore, depending on the project requirements, the product can be configured with applications and modules to ensure the best price-performance ratio, as well as to interact with third-party systems, be it Yunex control units or the Yunex RSU2x, but also with control units of our competitors.

A technical solution for a wide range of standard and advanced ITS applications

YUNEX TRAFFIC



- Connect **up to 6 or 10 cameras** to one AI unit – no need for multiple single detectors
- Built for traffic environments with **certified** compliance (e.g. EN 50293 EMC)
- Runs on the latest high-performance **NVIDIA** Orin platform

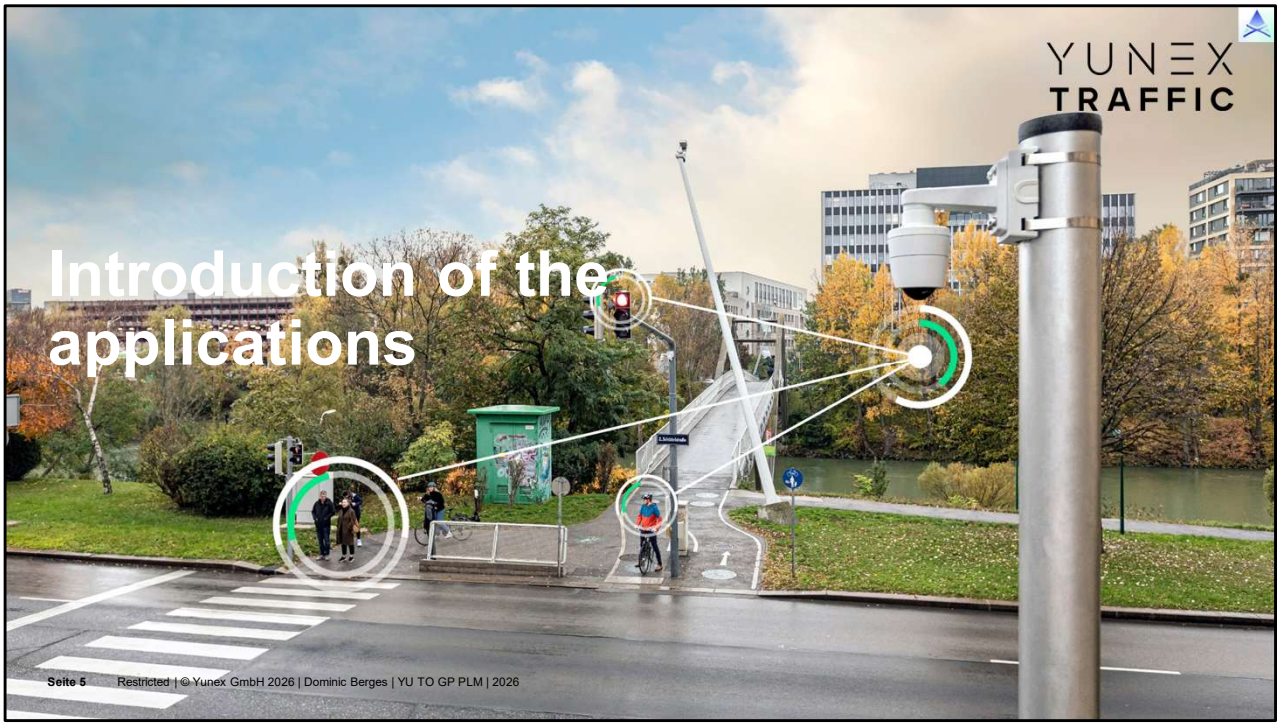
1. **Traffic Flow Insights**
   for real-time motion analysis of all road users such as pedestrians, cyclists, vehicles in the entire intersection area — Traffic Optimization
2. **Safe Pedestrian Crossing**
   for contactless request and adjustment of green time — VRU protection
3. **Dynamic Spot Detector**
   for counting, speed measurement and occupancy of all road users for any zones — Traffic Optimization
4. **Intelligent Priority**
   individually for all classes of road users — Traffic Optimization
5. **VRU Conflict Awareness**
   To reduce accidents between non-motorized and motorized traffic. — VRU protection

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The use cases in focus are exemplified in the sample intersection:

1. Traffic Flow Insights, to capture turning elations.
2. Safe Pedestrian Crossing, to implement non-contact request and adjustment of green time
3. Dynamic Spot Detector, to implement a virtual loop for the measurement of traffic flows
4. Intelligent Priority for requests from any road user based on individual rules
5. VRU Conflict Awareness to increase traffic safety

Further applications will be added successively. Each application requires a license, so that the right functionality can be offered individually for each project.


YUNEX
TRAFFIC
Introduction of the applications
Seite 5
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Application – Live view
Real-Time Insight Into Traffic Detection

YUNEX TRAFFIC

Customer benefit

See live camera feeds directly – full transparency and confidence

Instantly understand how the system detects

Troubleshoot and verify setup in real time

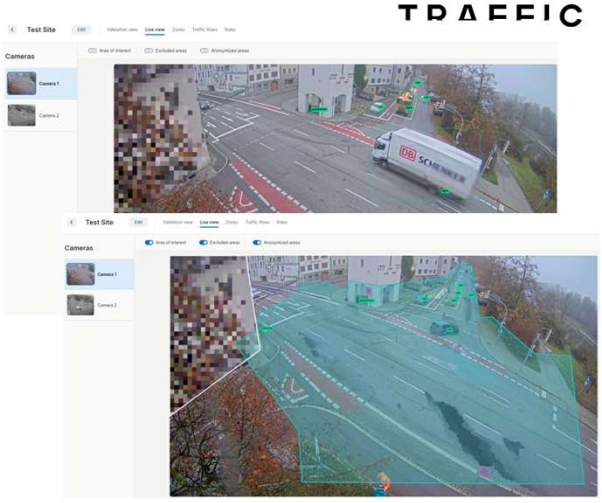
Functional description

Visualizes detection with class-specific labels (e.g. car, bike, pedestrian)

Shows short historical traces for movement insight

Define detection zones, anonymization areas, and excluded zones with a few clicks

Select individual cameras for targeted observation



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Data collection: Data

Connectivity: Controller RSU Symphony

Intelligent Priority, in which any complex logics for requirements can be implemented. An interface to the control unit is necessary for implementation.

NEW

Application – Traffic Flow Insights 1
24/7 data acquisition for turning relations for traffic analysis

YUNEX TRAFFIC

Customer benefit

In-depth understanding of the current and historical state of traffic volumes

Automated traffic data collection for control adjustment – manual traffic counting is replaced

The chord diagram provides an intuitive, circular visualization of turning movements that makes complex intersection patterns easy to understand at a glance

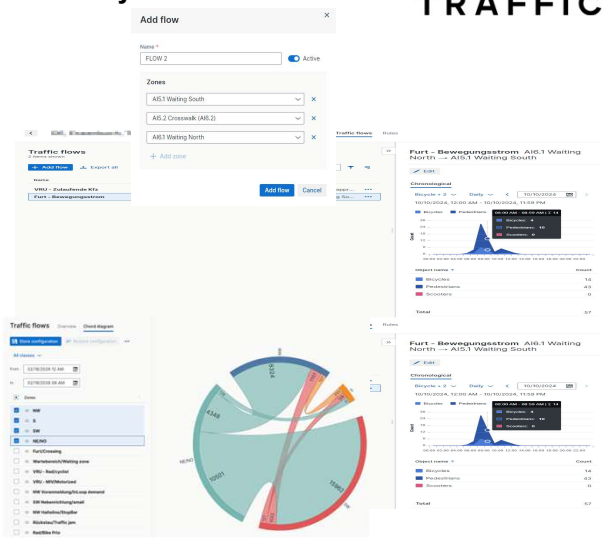
Functional description

Evaluation of the turning relationships of all road users for 2-3 defined zones

Filtering options in time and object classes

Export of historical data to CSV files

Visualization of the turning relationship



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Data collection: Data

Connectivity: Controller RSU Symphony

Traffic Flow Insights, which provides 24/7 data collection of turn relationships for traffic analysis.

Application – Safe Pedestrian Crossing (2)
Enhance safety and efficiency for your intersection crossings

YUNEX TRAFFIC

Customer benefit

Reduced waiting time and contactless request

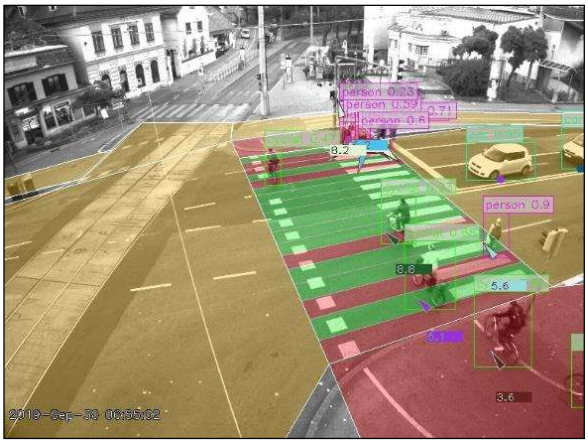
Safe crossing

Lower false requests

Functional description

UI for configuration of parameters like waiting time, speed, count or class selection

Communication of demand requests to control units



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Data collection: Data

Connectivity: Controller RSU Symphony

Safe Pedestrian Crossing, which increases traffic safety and enables the efficiency of fords. A connection with the control unit is necessary for this.

Application – Dynamic Spot Detector ③
Data acquisition of all road-participants at all locations of your intersection

YUNEX TRAFFIC

Customer benefit

Virtual loops can be placed at any zones instead of a static installation

Detection of motorised and non-motorised road users

Virtual loops can be reconfigured later as desired

Functional description

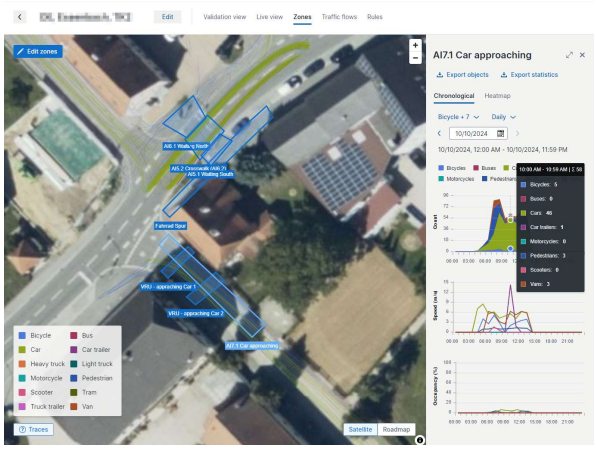
UI for configuration of zones

Evaluation of counts, speed and occupancy of all classes

Different graphical representation for deeper analysis

Export of historical data to CSV files for individual post-processing

Filtering options in time and object classes



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Data collection: **Data**

Connectivity: Controller | RSU | Symphony

Dynamic Spot Detector for data collection and analysis of all road users at each location of the intersection.

Application – Intelligent Priority 4
Any logic for demand request can be created

YUNEX TRAFFIC

Customer benefit

Any imaginable condition can be defined

Distinguish the direction of road participants

Influence local traffic actuation at controller to improve your KPIs

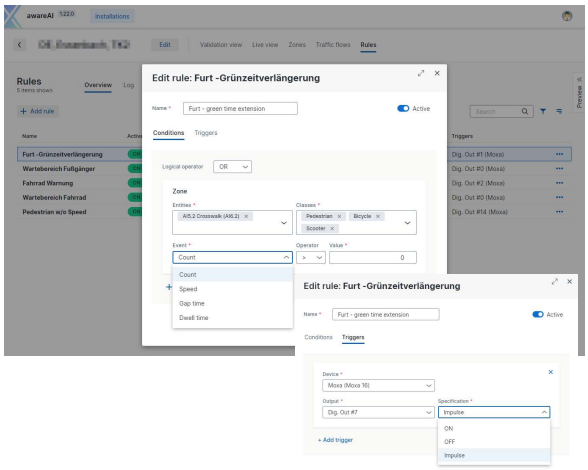
Functional description

UI for configuration of parameters like count, speed, class, dwell time and gap time

Communication via IO-unit to any 3rd party system like controller

Logging of all events for evaluations

Configurable for arbitrary zone



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Data collection: Data

Connectivity: Controller RSU Symphony

Intelligent Priority, in which any complex logics for requirements can be implemented. An interface to the control unit is necessary for implementation.

Application – VRU Conflict Awareness 5

Increase safety for VRUs for critical spots like vehicle right turns and their conflict to pedestrians

YUNEX TRAFFIC

Customer benefit

Accident reduction of motorized and non-motorized traffic

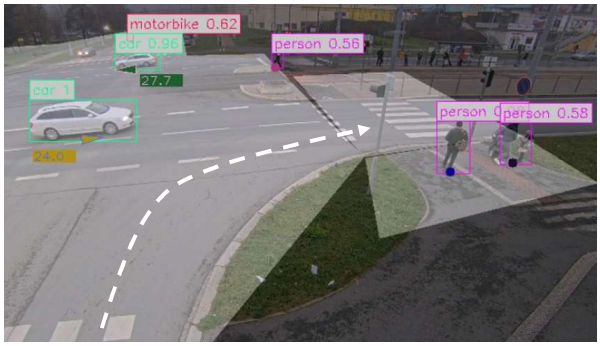
Warning to connected vehicles and non-motorized traffic participants like pedestrian

Functional description

Parameterization of conflict classes, speed intervals and lane selection individually per intersection

Communication of DENM via the Yunex RSU (later on via flashlight – not part of release 1.0)

Supports the classes vehicles, cyclists and pedestrians



Info-Box
- Early stage application which is continuously improved
- Use of the VRU Application is at the sole risk of the road-users, as only additional information is provided for a better road awareness

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Data collection: Data

Connectivity: Controller RSU Symphony

And finally, VRU Conflict Awareness, which ensures the increase of traffic safety for VRUs at neuralgic points such as the right turn of vehicles with the conflict to pedestrians. An interface to the RSU and/or the control unit are necessary for implementation.

NEW

sX IP-Based Integration with awareAI
Faster, simpler and more scalable traffic actuation

YUNEX TRAFFIC

Customer benefit

Eliminates physical detector wiring and reduces installation effort and accessory costs through pure IP-based data transfer

Provides real-time enriched traffic data for higher-performance traffic actuation, including advanced programs such as Intelligent Priority.

Increases scalability by expanding detector input capacity from 32 to 256 channels, supporting complex intersections and future upgrades.

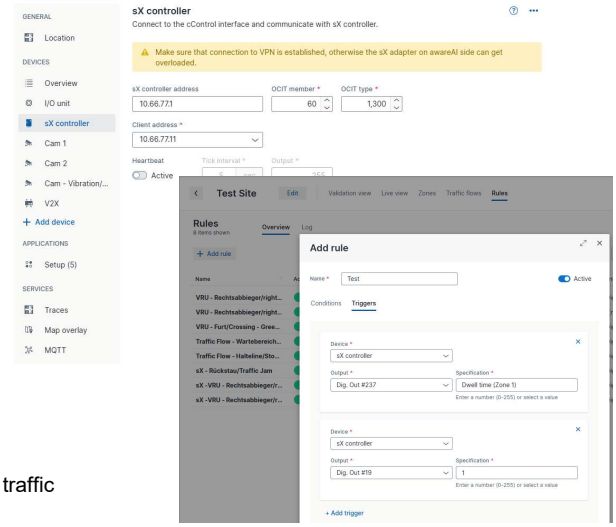
Functional description

Direct IP data exchange between awareAI and sX using AP values in real time

Fast commissioning via awareAI Installation Wizard with minimal parameters

Live AP value monitoring in sX Visu STP

Supports event types (speed, count, gap, dwell) for advanced traffic actuation



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Data collection: Data

Connectivity: Controller RSU Symphony

The sX IP-based integration in Service Pack 4 introduces a major step forward in how traffic data from Yutraffic awareAI is delivered to the sX controller. Instead of using wired detector inputs, the system now transfers all relevant information directly over IP using AP values. This reduces installation effort, removes physical wiring, and enables real-time exchange of enriched traffic data. With this integration, the detector capacity increases from thirty-two to two hundred fifty-six channels, allowing the controller to manage far more complex intersections and advanced traffic-actuation strategies.

Commissioning is handled through the awareAI Installation Wizard, requiring only the controller address and a few configuration parameters. Optional heartbeat support can be activated for system-health monitoring. In daily operation, all AP values are visible live in the sX Visu STP interface, making diagnostics straightforward for engineering and service teams.

The integration also supports event-type transmission such as speed, counts, gap times and dwell times. This enables advanced actuation logic, including Intelligent Priority, and creates a seamless interface between perception and controller logic. Overall, the IP-based link strengthens portfolio integration, simplifies fieldwork, and provides a scalable foundation for modern traffic management.

NEW

Reliable Traffic Detection Through Automatic Camera Stabilisation

YUNEX TRAFFIC

Customer benefit

Ensures consistent detection quality by compensating camera vibration caused by wind or unstable poles

Reduces service validation effort by preventing false or unstable detections

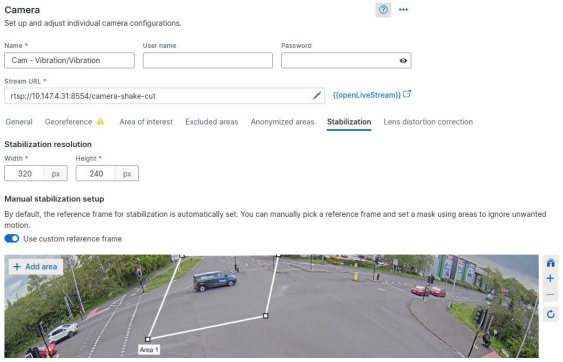
Improves performance for installations on boom masts or flexible mounting structures without additional hardware.

Functional description

Digital stabilization analyzes image movement and compensates camera shake in real time

Can be activated per camera in the Installation Wizard and tuned for the mounting situation.

Works with optional lens-distortion correction for fish-eye and wide-angle cameras.



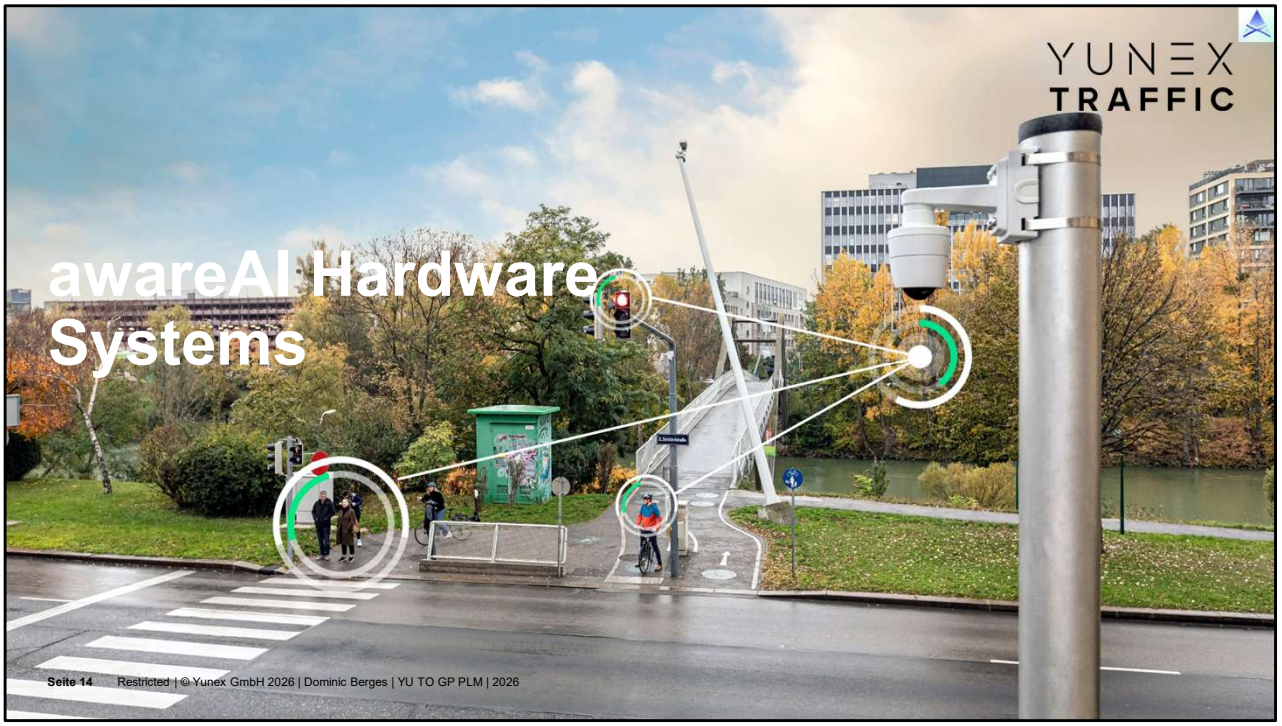
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Data collection: Data

Connectivity: Controller RSU Symphony

Camera Auto-Stabilization ensures reliable detection by eliminating vibrations and shaking in camera images, which can occur on boom masts or poles exposed to wind. The feature digitally compensates camera movement without affecting the detection logic, resulting in more stable object tracking and fewer false fluctuations. It can be activated individually per camera in the Installation Wizard and adapted to the specific mounting situation. [YTTB 2026-...Pack 4_EN | Word]

The function is particularly relevant at locations with unstable infrastructure, where small movements would otherwise lead to inconsistent detections. When combined with lens-distortion correction, the system can also compensate for wide-angle optical effects. Since stabilization increases processing load, it should be activated only when required. In practice, the feature improves detection robustness, reduces on-site troubleshooting, and enables reliable use of awareAI even under challenging environmental conditions.


YUNEX
TRAFFIC
awareAI Hardware Systems
Seite 14
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NEW

awareAI Hardware variants
The right solution for all scenarios

YUNEX TRAFFIC



ST



sX



Variant	awareAI1.0	awareAI1.1	awareAI 1.0 UK (based on 1.1)	awareAI 2.0
Dimension HxWxD (cm)	50 x 47 x 22		18 x 48 x 26	29 x 8 x 20
Volume (dm³)	~ 53		~22 -60%	<4,6 -91% | -79%
Cameras (max.)	10	6	6	6
Temperature	-40C° to +60C°		-20C° to +70C°	-40C° to +74C°
Mounting	Pole Mount (world)		Rack-Mount (ST controller)	Shelf + DIN-Rail (world)
Environment	Outdoor		Cabinet Indoor	Cabinet Indoor

1) Only processing unit; w/o accessories

NEW

Initial Product Image



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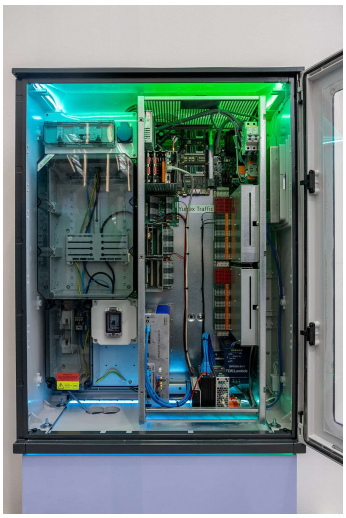
NEW

Images of controller integration – sX

02.04.2026

YUNEX TRAFFIC









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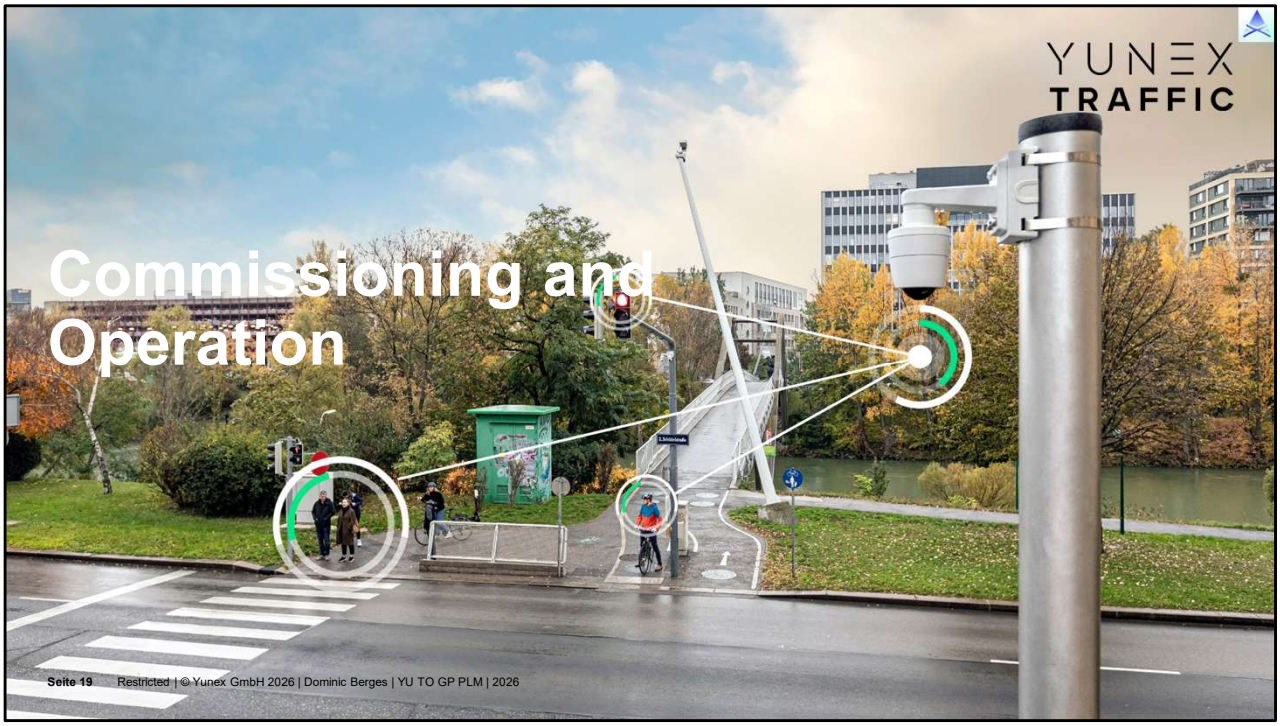
Integration with ATSC4 Traffic Signal Controller

YUNEX TRAFFIC

Currently the awareAI 2.0 connects to the ATSC4 via a moxa I/O device to provide the virtual loop inputs.

Development is underway to integrate it directly with the controller removing the requirement for the Moxa I/O.

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YUNEX
TRAFFIC
Commissioning and Operation
Seite 19
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NEW

Unified MQTT (Message Queuing Telemetry Transport) API for fast, secure, and flexible access to real-time traffic data

YUNEX TRAFFIC

Customer benefit

Provides a single, standardized MQTT interface that simplifies integration with third-party systems and reduces project-specific customization

Enables high-quality analysis with real-time and aggregated traffic data, including per-second, per-minute, and full object-level information

Strengthens data security and operational control by allowing customers to host the MQTT5 broker in their own infrastructure with full control over credentials, access, and TLS

Functional description

Provides a unified MQTT5 API delivering real-time and aggregated traffic data in a standardized topic structure.

Publishes object detections, zone and flow data, rule events and system-health information via configurable topics in the awareAI Wizard

Supports secure customer-hosted brokers with TLS, credentials and VPN connectivity for controlled data exchange

Data sources

Type	Description	Frequency
Zones	1-min statistics for Zones	Once per 60 seconds
One-second aggregations	1-sec statistics for Zones	Once per 1 second
Traffic flows	1-min statistics for Traffic Flows	Once per 60 seconds
Heartbeat	Health-state information	Once per 5 seconds (configurable)
Rules	Real-time events from Rules	On every tick (once per 150ms)
Real-time zones	Real-time statistics for Zones	On every tick (once per 150ms)
Real-time traffic flows	Real-time statistics for Traffic Flows	On every tick (once per 150ms)
RAW object data	RAW data created by the Analytics Stack	On every tick (once per 150ms)
Zone definitions	Definitions (names, locations) of Zones	Once per 60 seconds
Traffic flow definitions	Definitions (zones) of Traffic Flows	Once per 60 seconds

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The API improvements in this release introduce a unified MQTT5-based interface that makes accessing awareAI traffic data significantly easier and more consistent. Instead of different data paths or custom project integrations, all relevant information is now provided through a standardized MQTT topic structure. This includes real-time object detections, aggregated statistics in one-second and one-minute resolution, complete zone and flow definitions, rule-trigger events, and detailed system-health information. The MQTT broker is fully under the customer's control and is hosted in their infrastructure, allowing them to define security parameters such as TLS, credentials, and VPN access. This improves cybersecurity, ensures predictable data flow, and gives customers flexibility in how they connect their own backend systems. The awareAI Wizard supports configuration of all published topics, making commissioning straightforward without needing manual edits or custom code. Overall, the new API framework provides a cleaner data model, better performance, and much simpler integration with third-party platforms, analytics tools, or traffic management systems. It future-proofs deployments by offering a consistent API across all awareAI installations and preparing for extended use cases that rely on reliable, high-frequency traffic data.

System Configuration – Map overlay for site plans
Improved data interpretation with latest map data

YUNEX TRAFFIC

Customer benefit

Enables accurate and up-to-date visual configuration using customer-provided site plans.

Improves usability and clarity in projects where satellite imagery is outdated or insufficient

Improved data interpretation

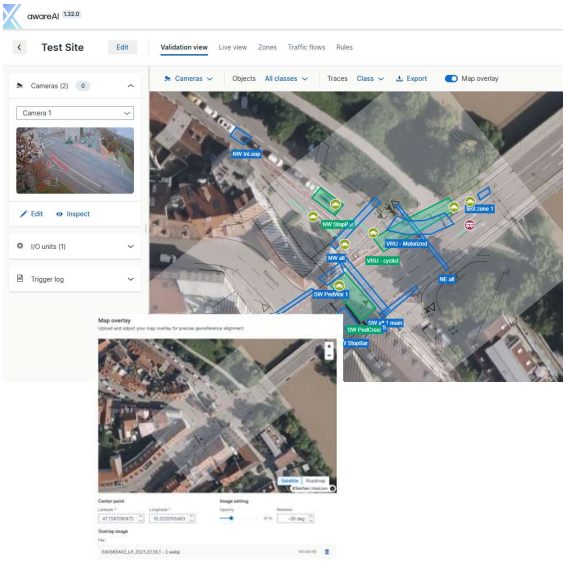
Functional description

Fully configurable via the installation wizard

Seamlessly integrates into the Validation View and Zones applications

Supported formats: jpeg, png, webp, gif

Calibration via geo-point and visibility setting



Intelligent Priority, in which any complex logics for requirements can be implemented. An interface to the control unit is necessary for implementation.

System Validation – Validation View
Experience the system behavior in real-time

YUNEX TRAFFIC

Customer benefit

Evaluate the system behavior live

Fast adaptions of configuration and direct feedback

Increased trust of the system behavior

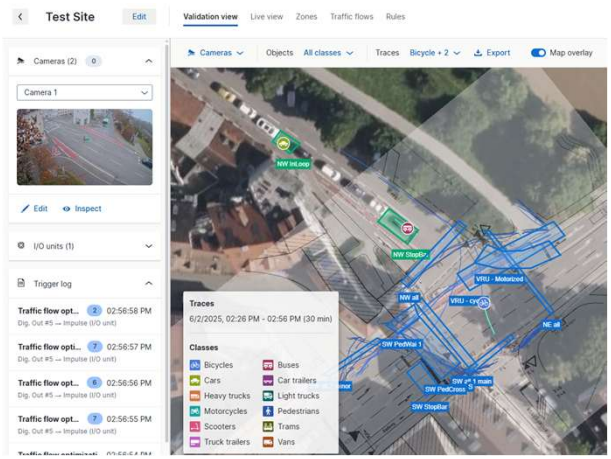
Functional description

Synchronized visualization of cameras, bird view map, IO unit and trigger log

Bird view map with live objects with highlighting zones for recognition

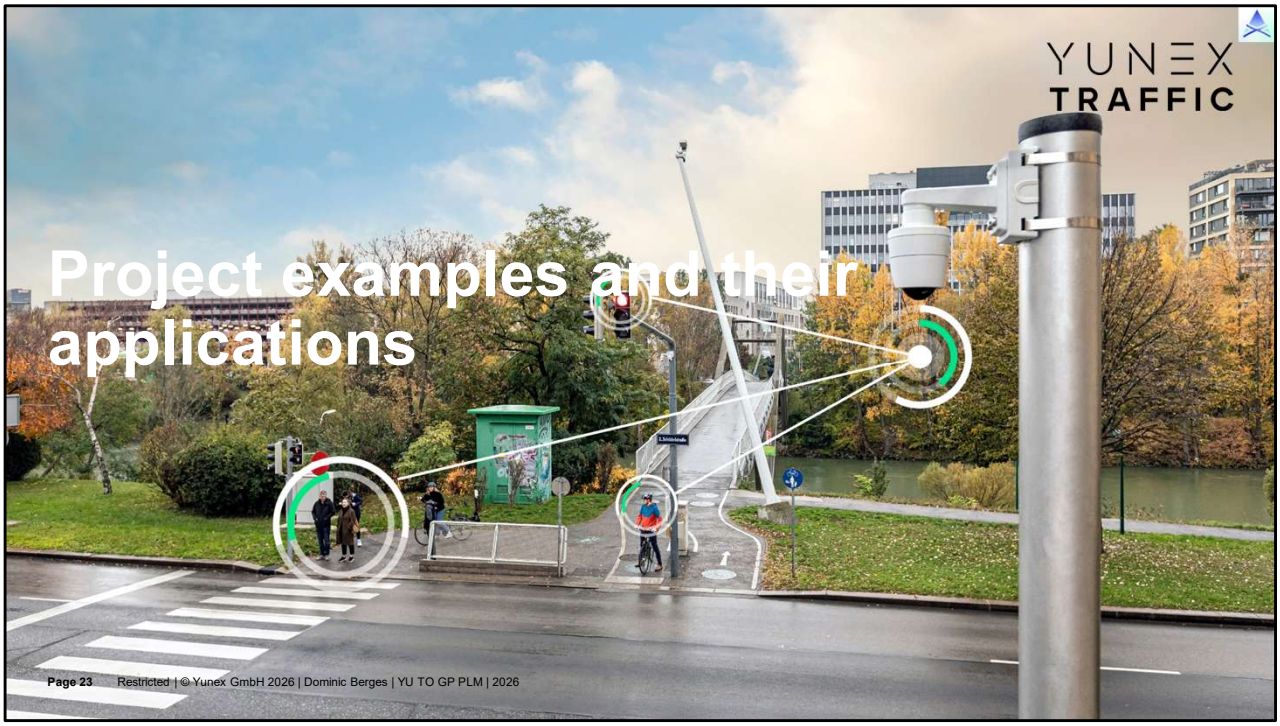
Setting the bird view as required e.g. with configurable traces

Defined Zones from Intelligent Priority are also displayed



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Intelligent Priority, in which any complex logics for requirements can be implemented. An interface to the control unit is necessary for implementation.



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Reference – Essenbach (DE) – Traffic light system of the future

YUNEX TRAFFIC

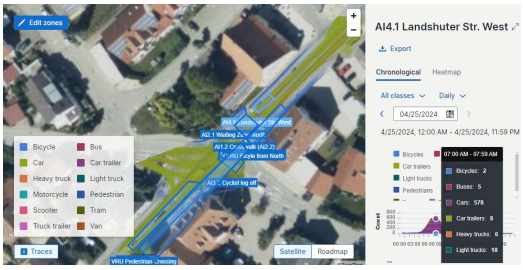
Pilot project for safer, smoother and more environmentally friendly traffic flow

Project Goal: test current and newly available technologies for traffic lights

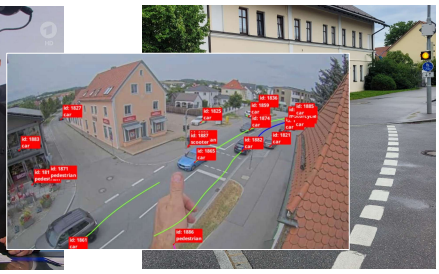
- Protecting VRU
- Prioritization of VRU
- Extension of green phases (seniors)
- Improved local control of the traffic light controller
- Contactless request for pedestrian

8 p.m. „Tagesschau“ (DE main news channel) report Link 1 Link 2 with Bavaria's Minister of Transport Christian Bernreiter









Reference – Hamm (DE) – Home of Germany's first "AI traffic light"

YUNEX TRAFFIC

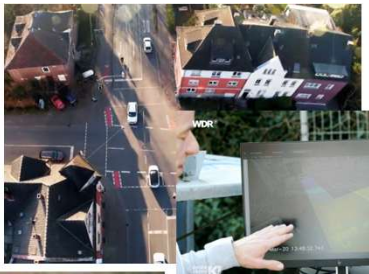
"Green wave for cyclists" for safer and smoother traffic flow on this commuter route

Project Goal: grant cyclists a green wave at this intersection to make cycling safer and thus promote it

- Detection of approaching cyclists
- Prioritize them
- Extension of green phases if more cyclists want to cross
- Constant machine learning so that car traffic does not come to a standstill for too long

30.05.2025, WDR report [LINK] (GER news channel)









"I see great potential in equipping all traffic lights in our city with AI."
- Christian Breßler, Road Traffic Office, City of Hamm

Reference – Essen (DE)

YUNEX TRAFFIC

Goal: replace standard detection for local control

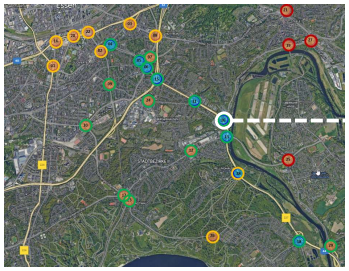
Project goal: Generate data for traffic model & modal split

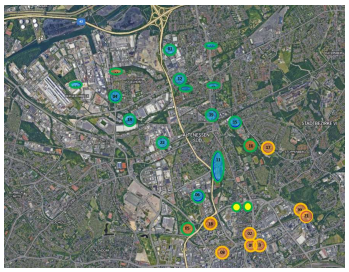
43/50 intersection deployments completed

Real-time interface to data platform

Comply to security and GDPR for KRITIS city

Maintenance







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Essen is embarking on an innovative lighthouse project aimed at enhancing standard detection systems for local traffic control. The project will see 50 intersections outfitted with the awareAI outstation, designed to create a real-time digital twin of the urban traffic flow. Moreover, the system has been rigorously evaluated and accepted from both a security standpoint and in compliance with GDPR regulations, owing to Essen's designation as a city with critical infrastructure. Additionally, Yunex will undertake the responsibility of maintaining the system, ensuring seamless operation and support for the customer.

Reference – Bocholt (DE)

YUNEX TRAFFIC

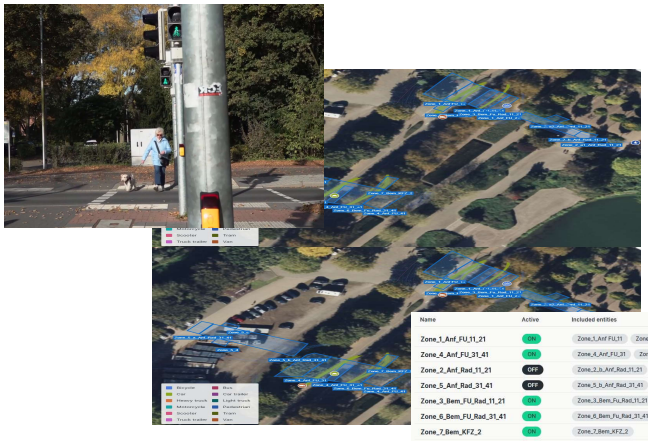
Goal: Road safety and efficiency

6 cameras with real-time AI processing

Minimization of waiting time for pedestrians

Bicycle prioritization compared to motorized transport

Needs-based green time adaptation for pedestrian protection



Name	Active	Included entities	Included classes	Conditions
Zone_1_Anf_FU_11_21	ON	Zone_1_Anf FU_11 Zone_1_Anf_	Bicycles Scooters +1	Multiple (3)
Zone_4_Anf_FU_31_41	ON	Zone_4_Anf_FU_31 Zone_4_An	Bicycles Scooters +1	Multiple (3)
Zone_2_Anf_Rad_11_21	OFF	Zone_2_b_Anf_Rad_31_21	Bicycles Scooters	Single
Zone_5_Anf_Rad_31_41	OFF	Zone_5_b_Anf_Rad_31_41	Bicycles Scooters	Single
Zone_3_Bem_FU_Rad_11_21	ON	Zone_3_Bem_Fu_Rad_11_21	Bicycles Pedestrians +1	Single
Zone_6_Bem_FU_Rad_31_41	ON	Zone_6_Bem_Fu_Rad_31_41	Bicycles Pedestrians +1	Single
Zone_7_Bem_KFZ_2	ON	Zone_7_Bem_KFZ_2	Buses Cars +6	Single
Zone_8_Bem_KFZ_3	ON	Zone_8_Bem_KFZ_3	Buses Cars +6	Single
FU41_Bem	OFF	Zone_6_Bem_Fu_Rad_31_41	Bicycles Scooters +1	Single
Direction_Zone2	ON	Zone_2_url_to_b Zone_2_a2_to	Bicycles Scooters	Multiple (2)
Direction_Zone_5_a_to_b	ON	Zone_5_a_to_b_ Zone_5_c_to_	Bicycles Scooters	Multiple (3)

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Reference – Bern (CH)

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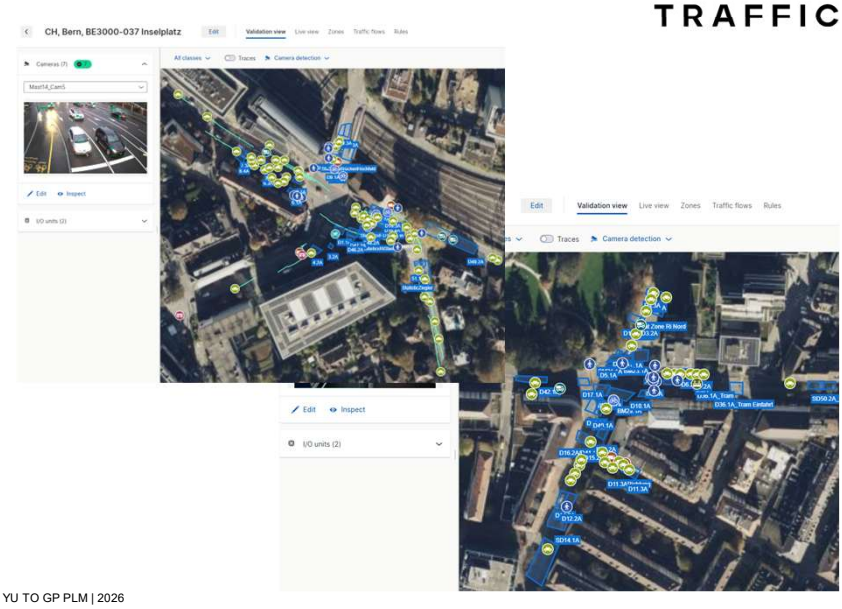
Goal: Replace standard detection; increase traffic efficiency and VRU safety

7 & 9 cameras with real-time AI processing on 2 systems

Replacement of 50% of inductive loops

Bicycle detection enables where loops do not work

Pedestrian green time extension to increase safety



Project in Hamm

YUNEX TRAFFIC

Video removed, to play please find YouTube link below on SNUG website, video01

4 **Intelligent Priority**
individually for all classes of road users
Traffic Optimization

2 **Safe Pedestrian Crossing**
for contactless request and adjustment of green time
VRU protection

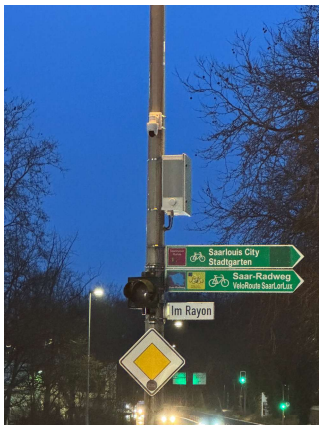
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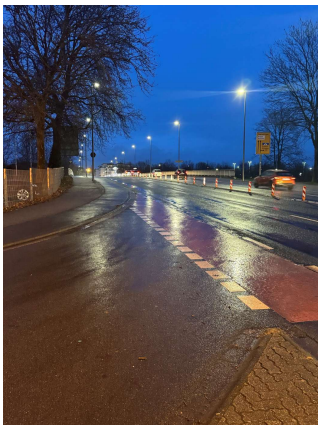
Video - This is how the AI traffic light works in Hamm | WDR aktuell

The Hamm project is the most publicized project in the media - as the first AI traffic light in Germany. It was presented on Galileo, Bild Zeitung, “Sendung mit der Maus”, etc. The focus in this project was the bicycle prioritization of the "Application Safe Pedestrian Crossing".

Project Saarlouis – Right turn warning with corridor light and warning signal head

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5

VRU Conflict Awareness

To reduce accidents between non-motorized and motorized traffic.

VRU protection

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In the city of Saarlouis, the deployment of the "VRU Conflict Awareness" application has marked a significant step forward in enhancing safety measures. This innovative project introduces a warning system evaluated through the awareAI system, which alerts users via both a warning signal light and corridor lighting. This sophisticated approach exemplifies how cutting-edge technology can be utilized to significantly improve safety in urban environments in a highly innovative manner.

Project TEMPUS München – Project insights
Background real-time evaluation of potential conflicts

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5

VRU Conflict Awareness

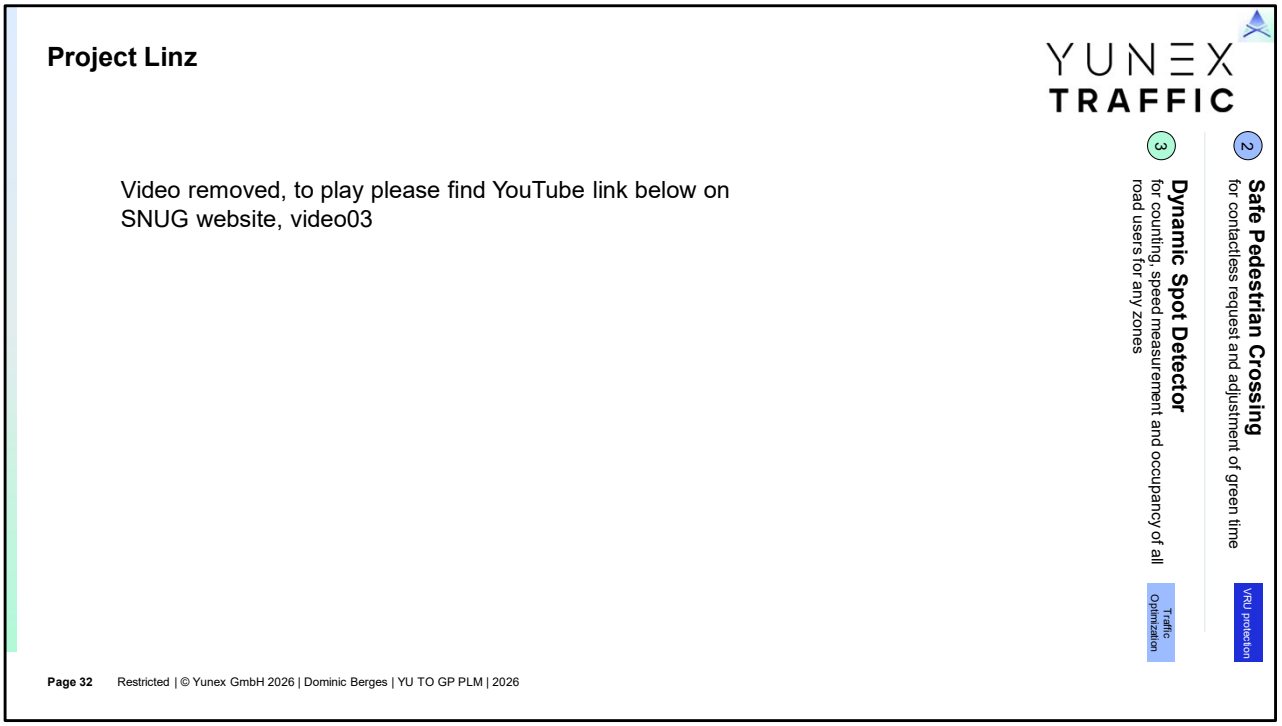
To reduce accidents between non-motorized and motorized traffic.

VRU protection

Video removed, to play please find YouTube link below on SNUG website, video02

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Real-time evaluation takes place in the background, evaluating acceleration values, speeds and the relative distance between road users. This enables a precise determination of critical scenarios in order to generate a warning message.



With the intelligent traffic light in Linz, we increase safety for the students of the Michel Reitter School (LSZ for Hearing and Vision Education Kapuzinerstraße) when crossing the street. The artificial intelligence recognizes road users with the integrated deep learning algorithms and classifies them. It recognizes whether people are passing the intersection or actually want to cross the protective path. It recognizes whether only one or several people are waiting for a green signal at the protective path. Virtual speed monitoring detects slow pedestrians or larger groups and extends the green phases if necessary, which not only increases comfort for the most vulnerable road users, but also ensures greater safety. All detected data is processed directly on the road in accordance with European data protection regulations and forwarded to the traffic control center in such a way that no conclusions can be drawn about persons or vehicles. Registration at the traffic lights is automatic - in addition to the previous push-button system. This means that passers-by receive the green light without having to touch the traffic light.
Over 30,000 people have already followed the BBC's video on YouTube.