SMART MOBILITY SOLUTIONS

PRODUCT CATALOGUE

AI:	Artificial Intelligence
ANPR:	Automatic number plate recognition
API:	Application Programming Interface; interface for automatic data transmission from sensor to a server in real-time
D:	Days
GDPR:	EU General Data Protection Regulation
GSM:	Global System for Mobile Communications; fully digital mobile communications network
IMT:	Individual motorised traffic
IoT:	Internet of Things
LoRa:	Long Range Wide Area; enables energy-efficient data transmission over long distances without LTE (see also SIGFOX)
LTE:	Long Term Evolution; a mobile communications standard for 4G, 5G etc
NMT:	Non-motorised traffic, cyclists and pedestrians
MTH:	Months
Multimodal:	Use of different transport modes during a certain period
o-d:	origin-destination
PT:	Public transport
SIGFOX:	Proprietary global communications network for low-energy wireless connection of objects to the internet (see also LoRa)
WK:	Weeks

🚆	Public transport (PT)
⚠	Safety
LED	LED display
🚫	Violations
P	Parking
🔗	Services
📶	Dashboard
AI	Artificial Intelligence
🛡	Data protection compliant
📱	Mobile installation
	Fixed counting station
🚶	Pedestrian
🛴	e-Scooter
🚲	Cyclist
🏍	Motorcycle
🚗	Car
	Car with trailer
🚌	Bus, coach
	Van
	Van with trailer
	Articulated van
🚚	Lorry
	Lorry with trailer
	Articulated lorry

The future of mobility is defined by seamlessly meshing of our work life, home life and leisure time. Just getting from A to B will no longer be enough. What will truly matter in a multi-mobile world are: experience, sustainability and health.

At SWISSTRAFFIC, we believe that mobility is one of the key areas affecting sustainability. All over the world, new products and services are evolving faster and faster, opening up a seemingly endless range of possibilities. But companies, governments, cities and other actors must still draw the right conclusions. Our aim is to support customers and to apply an integral approach to addressing this highly complex issue.

With over 20 years of expertise in mobility, we are your partner for innovative and sustainable mobility solutions.

Alain Bützberger
Founder & Chairman of the Board

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- Micro-Mobility
- Car Ownership Shift

Xycles

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- Mobility Hubs

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Road Diet

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- Preventive Healthcare
- Healthy Mobility

HEALTH

THE FUTURE OF MOBILITY

People are longing for peace of mind. Quality of life is becoming an increasingly precious commodity. Cities should be clean, green and quiet.

Experience is now more important than possession. Flexible access to an array of mobility options is the name of the game. Reality is shaped by diversity instead of routine. Seamless mobility blends personal and public concepts.

Autonomous driving is transforming the role that cars play. Driverless concepts reduce the need for parking spaces, expanding time spent in the car.

Cars are increasingly withdrawing from the cities. Bicycles will shape the future of mobility more and more.

VISION

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CLOUD SOLUTION

Customer can install the camera. Dual use as a safety camera. Outstanding accuracy, even for congested objects in urban environments.

Easy use of already existing cameras possible. Encrypted data transmission and analysis in the cloud. API available.

BOX SOLUTION

Additional hardware box is installed directly with the camera. Data transmission possible via GSM or LoRa. Easy use of current cameras possible. On-site data analysis. API available.

Customer can install the camera Can be used simultaneously as a safety camera.

Automatic detection of traffic flow for all moving objects without storing video or image data.

Data visualisation in a neatly arranged dashboard with separate customer portal.

AI | SWISSTRAFFIC AI

LoRa

AI-based fixed installation for multimodal counting in real-time. Use of existing camera infrastructure, if installed. SWISSTRAFFIC AI+LoRa complies 100% with GDPR data protection requirements.

IDEAL APPLICATION AREAS

Counting IMT, cyclists, persons
Counting tourists, hikers
Traffic signal optimisation
Cyclist behaviour
Nodal flow analyses
Traffic flow
Transfer relationships
Analyses of near-accidents
Impact analyses

TECHNICAL FEATURES

Multimodal
9 object classes
Accurate lane tracking
Real-time data
Congestion-resilient
Speeds
Simple installation
GSM or LoRa
Parking

COMBINABLE PRODUCTS

SENSOR

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.

📌 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

IMPROVED SAFETY AT PEDESTRIAN CROSSINGS ALONG SCHOOL ROUTES

AI- and radar-based system to improve safety by the automatic detection of pedestrian crossings and failure to give way. Signals with special interior lighting and yellow strips attached to the poles can light up immediately during use of the pedestrian crossing to improve visibility, especially at night.

In addition to flashing, an alarm sound can also be emitted in potential "pedestrian-driver" conflict situations or if pedestrians are inattentive (staring at their phones). In case of violations, a brief video sequence can optionally be stored in the system to help with police investigations. As a fixed or mobile installation.

PREVENTING ACCIDENTS

AI technology to analyse trajectories and speeds for the detection of near-accidents at intersections involving pedestrians, cyclists and vehicles or to analyse cyclist behaviour at roundabouts. As a fixed or mobile installation.

AWARENESS RAISING IN THE EVENT OF VIOLATIONS

Downstream installation of LED displays, can sensitise transport users to their misconduct in real-time as a contribution to targeted improvement of road safety.

Pedestrians are distracted and tend to notice dangers too late.

Automatic detection of failures to give way at pedestrian crossings in real-time and warnings for road users.

AI improves safety along school routes and at pedestrian crossings.

SAFETY

AI REVOLUTION IN MOBILE TRAFFIC DATA COLLECTION

sᴡɪssSCOUT AI is revolutionising mobile traffic data collection. The integrated AI software enables on-site multimodal traffic analysis in real-time, without having to save videos or images. The analysed data is uploaded directly to the cloud, where it is then available for visualisation on the sᴡɪssDASHBOARD.

sᴡɪssSCOUT AI is the first mobile traffic data collection system with full GDPR compliance.

Please check the sᴡɪssSCOUT website for further information: www.swissscout.com

Mobile camera system with integrated AI
analysis software for real-time evaluations
and presentation on a proprietary dashboard.

Swiss quality. Hardware and software from a single
source.

AI | sᴡɪssSCOUT AI

The mobile camera system for multimodal counting is 100% compliant with the GDPR thanks to integrated AI and allows autonomy of up to 7 days. The data is analysed in real-time.

📌 IDEAL APPLICATION AREAS

Counting IMT, cyclists, persons
Counting tourists, hikers
Cyclist behaviour
Nodal flow analyses
Parking with origins
Impact analyses
Safety analyses

⚙ TECHNICAL FEATURES

Multimodal
Mobile solution with up to 7 days
of round-the-clock autonomy
Real-time data
Speeds
Accurate lane tracking
Congestion-resilient
Simple installation
12 object classes

⬓ COMBINABLE PRODUCTS
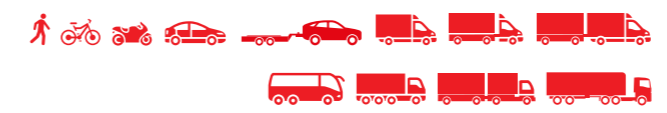
SENSOR

SOPHISTICATED LASER TECHNOLOGY

The sensor uses a "laser curtain" that is defined during installation to log the cross section in a sequence of consecutive scans (every 16 ms). The laser uses this information to generate a 3D image that is analysed by the algorithms to determine the correct classification. The system accurately registers the direction of travel by detecting which of the 4 laser planes the cyclist, e-scooter or pedestrian reaches first.

The sensor is equipped with a CPU. All signals from the laser scanner are processed directly. A 4G modem is also installed in the laser to transmit text data (no images) to a server in real-time.

A cloud of points indicating a bicycle and an e-Scooter. The sensor software is able to distinguish cyclists, e-scooters and pedestrians.

A typical system for counting bicycles consists of a laser scanner and an LED display.

swissBIKE+PED CROWD has a neatly arranged, proprietary dashboard.

AI | swissBIKE+PED CROWD

Simultaneously counts cyclists and pedestrians in all directions on paths with a width of up to 4 metres. Combinable with an LED display. Counts also e-scooters.

📌 IDEAL APPLICATION AREAS

Counting cyclists, persons
Counting tourists, hikers
Counting e-scooters

⚙ TECHNICAL FEATURES

Laser technology
LED display
Solar fixed counting station
Accurate lane tracking
Real-time data
Proprietary dashboard

⬐ COMBINABLE PRODUCTS

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SENSOR

Page 17

PIEZO INSTEAD OF INDUCTION

Counting with piezo strips is far more accurate than using induction. An electromechanical pulse is triggered by the pressure applied by an object as it crosses the strip, which is then analysed by the system. Passing vehicles or cyclists are detected very accurately, even during congestion when a vehicle may be stationary on the piezo strip.

Mobile/temporary counting station with tubes

Installation of a fixed counting station with piezo technology. Only on smooth surfaces, no paving. Up to 5 m maximum width per lane.

AI | # SWISSTRAFFIC+BIKE

Uses induction loops, a thermal sensor or piezoelectric strips to count mixed traffic either temporarily or permanently.

📌 IDEAL APPLICATION AREAS

Counting cyclists

Counting IMT

⚙ TECHNICAL FEATURES

Fixed or mobile counting station

3 months autonomous if mobile

Speeds

Accurate lane tracking

Congestion-resilient

Simple installation

5 vehicle classes

Free analysis software

Piezo or induction loops

⤡ COMBINABLE PRODUCTS

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Can count cyclists and pedestrians at the same time and identify their direction of travel.

SENSOR

SMART LICENSE PLATE RECOGNITION

Detection rates of at least 98% – even for mobile deployments in Switzerland and abroad. Different vehicle types are distinguished and matrices are generated per vehicle type, which can be directly incorporated into a traffic model. Graphic visualisation of the results facilitates interpretation.

SEGMENTAL SPEEDS FOR IMPROVED SAFETY

Average speed detection along a certain section of road – e.g. for school route safety – can be combined with an LED display to sensitise errant motorists. Optionally, the system can be used for the issue of fines by the police.
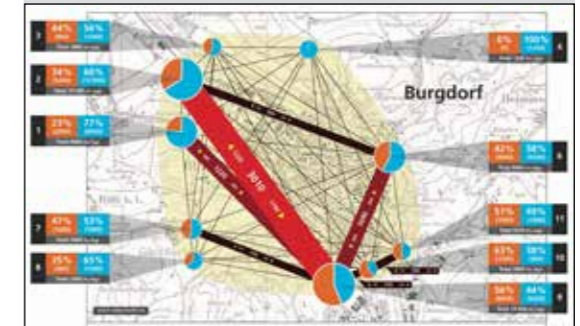
Graphical visualisation of the origin, destination and transit traffic through a city, municipality or neighbourhood with different vehicle types.

Identification of the share of electric, hybrid, diesel, petrol vehicles and their origins (country, canton, town)

AI | SWISSANPR AI

Precise traffic detection thanks to the use of the latest generation of smart license plate detection cameras with high data quality. SWISSANPR AI complies 100% with GDPR data protection requirements.

IDEAL APPLICATION AREAS	TECHNICAL FEATURES	COMBINABLE PRODUCTS
Destination, origin and transit traffic	Fixed or mobile counting station	Page 12 SWISSSAFETY AI
Rat-running traffic	Autonomous for 5 days if mobile	Page 32 SWISSNOISE AI
Travel times and routes	LED display	Page 34 SWISSTRAVEL
Proportion of electric, hybrid, petrol or diesel vehicles	Accurate lane tracking	Page 36 SWISSPARKING AI
Hazardous goods transports	Real-time data	Page 38 SWISSSERVICES
Segmental speeds	Congestion-resilient	
Traffic models and scenarios	Origins: country/canton/town	
	SWISS10 (10 vehicle classes)	

Automatic registration of hazardous goods transports and their cargo types.

SENSOR

ALSO COVERS WIDER PERIMETERS

At a suitable height, drones enable coverage of a wider observation perimeter, along with precise tracking and counting of all movements within it. The high resolution of the mounted camera enables visualisation of even the smallest objects such as pedestrians or cyclists using our AI software. All data protection requirements according to the GDPR are observed.

Special drones that receive power via a cable to the ground are deployed for assignments lasting more than 60 minutes.

Routes of travel are also determined, in addition to counting. Provides aerial analysis of how long parking procedures last as well.
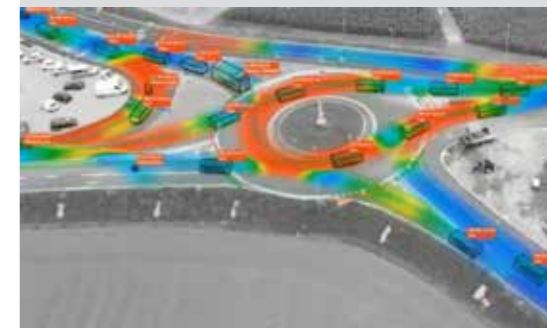
Observation and counting of multimodal traffic in wider perimeters and identification of near-accidents (safety deficits).

AI | swissDRONE AI

Aerial observation and counting of multimodal traffic situations. Detection of movement patterns for all transport users across a wider perimeter. Prevention of near-accidents.

📌 IDEAL APPLICATION AREAS

Observation and counting
of multimodal traffic
Nodal flow analyses
Traffic flow
Parking
Analyses of near-accidents

⚙ TECHNICAL FEATURES

Multimodal
Autonomy for 60 minutes
Speeds
Accurate lane tracking
Congestion-resilient
Simple installation
9 object classes

COMBINABLE PRODUCTS

Autonomous for 60 minutes. Can be extended to several hours if necessary.

SENSOR

AI | swiss**LASER**

SWISSLASER was specially developed for directional counting of individual motorised traffic and to satisfy even the most rigorous accuracy requirements in an urban environment. SWISSLASER is able to distinguish up to ten vehicle classes according to SWISS10.

TECHNOLOGY

The laser technology emits up to four beams. These are invisible to the human eye and harmless. The point cloud they create replicates the vehicle shape with the exact vehicle dimensions, enabling both precise classification and identification of any height and width restrictions.
The laser can be mounted either at the side or overhead. It also provides highly accurate speed measurements if the "Radar" option is enabled.

The laser complies with data protection requirements, as it does not record or transmit images. Precise laser detection distinguishes between the lengths and profiles of vehicles.

Two lanes can be covered simultaneously if the system is mounted at a height of around 8 m.
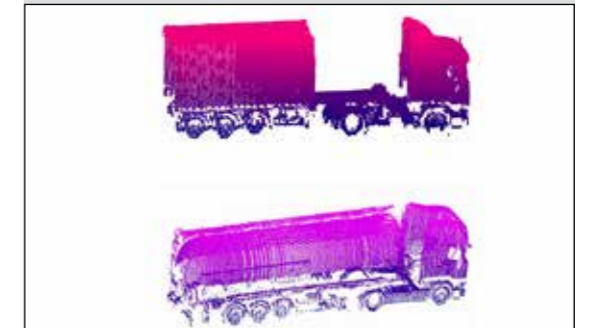
The laser point clouds map the precise vehicle shape and therefore differentiate up to 10 vehicle classes.

swissLASER has a neatly arranged, proprietary dashboard.

📌 IDEAL APPLICATION AREAS	⚙ TECHNICAL FEATURES	↙ COMBINABLE PRODUCTS
Counting IMT	2 lanes simultaneously	Page 36 SWISSPARKING AI
Detection of congestion	Real-time data	Page 38 SWISSSERVICES
Parking	Congestion-resilient	
	No lane encroachment	
	Simple installation	
	SWISS10 (10 vehicle classes)	
	Laser Class 1	
	Proprietary dashboard	

SENSOR

PRECISE COUNTING IN PEDESTRIAN ZONES

This unique sensor enables precise counting of pedestrian traffic in pedestrian zones, even in dense crowds. Among its most outstanding features is the wide coverage of up to 32 metres with just a single sensor.

The use of laser technology ensures compliance with all data protection requirements.

4x laser curtain for reliable counting and up to 98% accuracy.

AI | SWISSPED

Counts city centre pedestrians in zones with a width of up to 32 metres. SWISSPED complies 100% with GDPR data protection requirements.

📌 IDEAL APPLICATION AREAS

Counting pedestrians in pedestrian zones

⚙ TECHNICAL FEATURES

Laser technology
Width of up to 32 metres
Mounted at a height of up to 20 metres
Real-time data
Simple installation
Fixed counting station

◰ COMBINABLE PRODUCTS

Page 38   SWISSSERVICES
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Mounted at a height of up to 20 metres for counting zones with widths of 32 metres.

SENSOR

TECHNOLOGY

SWISSRADAR is characterised in particular by its capability for prolonged autonomous operation of up to three weeks without replacing the battery. Can be equipped with Solar and 4G modules to generate real-time data as a permanent counting station. Unsuitable for locations with congestion or stop & go traffic, as these factors distort the results.

Up to 3 weeks of continuous operation possible.

Extended mounting height of between 1 and 8 metres.

AI | SWISSRADAR

A lateral radar device for intermittent and/or regular traffic counts, the identification of road sections with excessive vehicle speeds and for the collection of data used in urban traffic development plans.

Automatic calibration. Data export via Bluetooth.

IDEAL APPLICATION AREAS

30 km/h zones
Counting IMT
Speed detection

TECHNICAL FEATURES

Fixed or mobile counting station
Autonomous for up to 3 weeks
if mobile
Speeds
Accurate lane tracking
Simple installation
4 vehicle classes
GSM

COMBINABLE PRODUCTS

SENSOR

TECHNOLOGY

The boxes use digital heat detectors. These components act like miniature thermal imaging sensors.

They concentrate infrared heat radiation when people cross the sensor beam. Digital analysis of this signal can be used to count the number of objects and determine their direction of travel. The speed is also used to distinguish between people and cyclists. These boxes are simple, small, adaptable to any environment and operate autonomously.

Automatic transmission of numerical data by LTE or SIGFOX. Counter visualisation on Android or iOS smartphones.

Counts cyclists and pedestrians.

AI

SWISSBIKE+PED LIGHT

This IoT sensor is specifically designed for the needs of tourist facilities such as parks and trails or for natural settings and is used to count hikers and cyclists, for social clubs or events without ticketing etc.

📌 IDEAL APPLICATION AREAS

Counting tourists, cyclists, hikers,
cross-country skiers,
people attending events
Pavements

⚙ TECHNICAL FEATURES

Autonomous for 1 year
Real-time data in the app
Simple installation
Counting widths of 1–6 metres
2 object classes
SIGFOX, GSM and LoRa
Plug & count

↙ COMBINABLE PRODUCTS

Installation at the edge of a footpath (1 sensor integrated in a wooden post) possible.

SENSOR

NOISE MEASUREMENT USING ARTIFICIAL INTELLIGENCE

The highly sensitive sensor detects ambient noise and uses integrated machine learning software to analyse its profile. This distinguishes between cars, motorbikes and lorries. The sensor also recognises the direction of travel and speed based on the noise emission.

The LED information panel raises awareness and encourages noise-conscious driving. Practical experience has shown significant success in reducing noise at locations fitted with SWISSNOISE AI.

There are plans to extend detection capabilities to also include electric vehicles and electric bicycles.

The LED information panel raises awareness and encourages noise-conscious driving.

The highly sensitive sensor detects ambient noise and uses integrated AI machine learning software to analyse its profile.

SWISSNOISE AI has a neatly arranged, proprietary dashboard.

AI | SWISSNOISE AI

AI-based measurement of traffic noise from different directions. The downstream LED display raises awareness and encourages noise-conscious driving, which leads to a significant noise reduction in most cases. In turn, this improves quality of life considerably.

📌 IDEAL APPLICATION AREAS

Impact analyses for 30 km/h speed limits
Recording of noise emissions
Awareness raising among vehicle owners

⚙ TECHNICAL FEATURES

Fixed or mobile counting station
Solar-powered if mobile
Accurate lane tracking
Real-time data
With LED display
Simple installation
Proprietary dashboard

⤡ COMBINABLE PRODUCTS

SENSOR

TIME IS A PRECIOUS COMMODITY

Receiving early information can improve the mobility patterns of transport users. Reliable predictions can be made regarding journey times and delays by incorporating AI together with the measurement of real traffic events.

TARGETED IMPACT ANALYSES

Gains (or losses) in travel times are the best and most effective way of substantiating statements about the impact of infrastructure projects or accompanying measures over a longer period.

Real-time determination of journey times and delays on various routes and optimisation of the traffic flow.

LED display indicating delays.

AI | SWISS**TRAVEL**

SWISSTRAVEL logs journey times and delays in real-time for both personal transport and cycling. This enables deficiency analyses to be performed and the optimisation of traffic distribution and connections.

SWISSTRAVEL has a neatly arranged, proprietary dashboard for travel times.

📌 IDEAL APPLICATION AREAS

Analysis of journey times and delays
Segmental speeds
Impact analyses

⚙ TECHNICAL FEATURES

Bluetooth and WiFi MAC-addresses
Fixed or mobile counting station
Autonomous for 7 days if mobile
Speeds
Real-time data
LED display
Simple installation
3 vehicle classes
Proprietary dashboard

COMBINABLE PRODUCTS

Page 20   SWISSANPR AI
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SENSOR

AI | SWISSPARKING AI

End-to-end solution for the public sector, private enterprises and private properties. From the issue of access rights and a reservation system, to barrier authentication and automatic shuttle buses, this product supports all of your parking requirements.

PUBLIC

The professional, cloud-based platform gives municipalities an end-to-end solution for parking management. SWISSPARKING AI improves the capabilities of your traffic infrastructure, limits congestion and reduces the search for parking spaces. Car parks must be accessible at all times and well frequented. 85% is considered a benchmark for optimum occupancy.

The price is an effective instrument for controlling occupancy levels in car parks. A carefully selected fee structure balances demand and minimises unnecessary traffic. Prices can be adjusted flexibly to prevent bottlenecks or stimulate use. This means that pricing should certainly be dynamic.

PRIVATE

Companies sometimes struggle with the increasing scarcity of parking spaces and long waiting lists. Digital parking solutions help them to manage this problem and provide facilities for their staff both easily and efficiently.

In today's world, smart IoT technology and innovative software and app solutions create innumerable opportunities to make better use of available parking capacities. Aside from standard elements like number plate recognition, visitor reservations and an array of app functionalities, SWISSPARKING AI offers additional modules to enhance your end-to-end solution. SWISSPARKING AI can even be integrated into existing systems.

Automatic reservation and navigation to free parking space with customisable visitor and employee attributes.

Automatic authentication at the barrier entrance enables entry to the parking space without stopping using automated payment.

SWISSPARKING AI has a neatly arranged, proprietary dashboard.

IDEAL APPLICATION AREAS

Municipal parking facilities
Tourist or event parking
Company parking
Property parking
On-street ofr off-street car parking

TECHNICAL FEATURES

End-to-end hard- + software solution
Payment app, dynamic parking fees
Issue of access rights
Parking space reservation
Authentication at the barrier
Automatic parking buses
Origins: country/canton/town
Fixed or mobile solution
Proprietary dashboard

COMBINABLE PRODUCTS

PARKING

WE HELP YOU ACHIEVE STRATEGIC MOBILITY OBJECTIVES – FOR SMART MOBILITY IN TOMOR-ROW'S WORLD.

Our company has a highly qualified pool of special-ists. It goes without saying that we operate consis-tently at the cutting edge of technology and strive to build green and economically viable solutions.

As traffic engineers, we deliver expert planning and competent advice. Professional technology and state-of-the-art technology are used in the execu-tion of all our assignments.

Our engineers have developed processes for mobil-ity intelligence analytics that enable the real-time evaluation of big data. We make use of open data and also collect our own information.

This means we can offer a full service – from plan-ning to implementation – from a single source based on more than 20 years of experience. You are in safe hands with us.

As traffic engineers, we deliver solution-oriented planning and competent advice.

Planning and achievement of strategic mobility objectives.

AI | swiss**SERVICES**

Our mobility experts assist you from planning to implementation. We offer everything from a single source, including consulting, data collection and collaborative development of a solution.

📌 IDEAL APPLICATION AREAS

Traffic flow simulations
Development planning
Technical traffic studies
Performance capability analyses
Accident analyses
Reconstruction concepts
End-to-end parking solutions
Holistic traffic concepts
Safety analyses

⚙ TECHNICAL FEATURES

From identifying the problem
to creating the solution
Mobility engineers & fitters
Over 20 years of experience
State-of-the-art technology
Installation and maintenance

🔗 COMBINABLE PRODUCTS

Installation and maintenance of sensors by quali-fied SWISSTRAFFIC staff.

SERVICE

AI | SWISSDASHBOARD

Modern, interactive, customisable, multimodal dashboards with predictions and APIs that map multimodal mobility in real-time.

📌 IDEAL APPLICATION AREAS

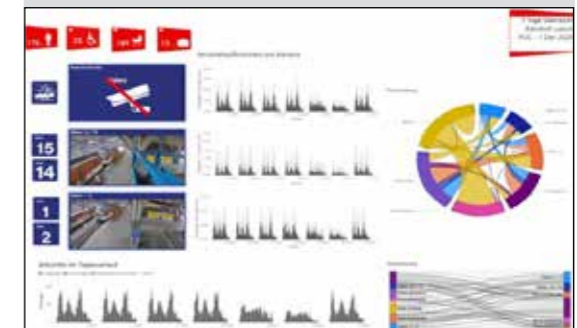Pairing clarity with KPIs for optimised ease-of-use.

⚙ TECHNICAL FEATURES

APIs for your own dashboard
Customisable
Expandable
All data exportable
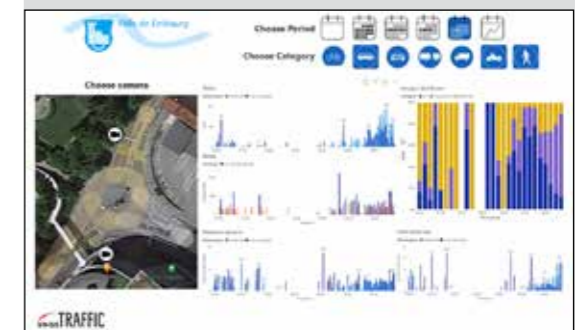Predictions
Meteo

COMBINABLE PRODUCTS

Pages 10-35   all SWISSSENSORS

You select the parameters that matter to you and receive the data neatly arranged in real-time – accessible anytime, anywhere.

Presentation of the transfer relationships and occupancy rates for passenger trains at a railway hub.

Dashboard for traffic experts. A variety of neatly arranged performance indicators are displayed per period and object class at the push of a button.

DASHBOARD

SWISS TRAFFIC
we innovate mobility

PRODUCT OVERVIEW

PRODUCT	COUNTING	MOTORISED TRAFFIC	CYCLISTS	PEDESTRIANS	ORIGIN-DESTINATION, TRANSIT	SPEED	PARKING	LANE RECOGNITION	REAL-TIME	CONGESTION RESISTANT	EASY TO INSTALL	DASHBOARD	LED DISPLAY	PERMANENT COUNT LOCATION	MOBILE INSTALLATION	NUMBER OF VEHICLE CLASSES	AUTONOMY WHEN MOBILE	ADDITIONAL USES
swissTRAFFIC AI+LoRa	●	●	●	●	◐	●	●	●	●	●	●	✓	✓	✓		9		4/5G, TURN OFF RELATIONS
swissSAFETY AI	●	●	●	●		●		●	●	●	●	✓	✓	✓	✓		7 D	RIGHT OF WAY, RED LIGHTS, ILLEGAL PARKING
swissSCOUT AI	●	●	●	●	◐	●	●	●	●	●	●	✓			✓	10	7 D	
swissBIKE+PED CROWD	●		●	●		◐		●	●		◐	✓	✓	✓		3		LED DISPLAY, + E-SCOOTERS
swissTRAFFIC+BIKE	●	●	●			●		●		●	◐		✓	✓		5	3 MTH	
swissANPR AI	●	●	◐			●	◐	●	●	◐	●		✓	✓	✓	✓	10 · 5 D	ORIGIN, E-VEHICLES, E-CAR, CO_2
swissDRONE AI	●	●	●	●	●	●		●		●	●	✓			✓	9	1 HR	
swissLASER	●	●				◐	●	●	●	●	●	✓	✓	✓		10		SWISS10
swissPED	●			●					●		◐	✓	✓	✓		1		PEDESTRIAN ZONES
swissRADAR	●	●				●		●	◐		●	✓			✓	4	3 WKS	4/5G
swissBIKE+PED LIGHT	●			●				●		●	✓		✓	✓	2	1 Y		
swissNOISE AI	●	●						●	●	●	●	✓	✓	✓	✓	10	SOLAR	E-VEHICLES
swissTRAVEL	◐	●	◐		◐	●		●	●	●	●	✓	✓	✓	✓	3	7 D	DELAY TIMES
swissPARKING AI	●	●					●	●	●	●	◐	✓	✓	✓	✓		5 D	
swissSPEED		●				●		●	●	●	●	✓	✓	✓	✓		SOLAR	LED TEXT-DISPLAY, 4G

SCAN ME

IMPRINT