cross®

ROAD TRAFFIC TECHNOLOGY

GOOD JOURNEY
INNOVATIONS

CROSS HOLDING

The company dates back to 1994 and set out by installing systems comprising stand-alone traffic light controllers. We have grown and diversified ever since to the extent that our staff now carry out major Smart City and road projects all around the world. Enabling smooth, safe travel for everyone is the goal of CROSS - a family-run business - and the team it employs.

VISION

To be at the forefront of developing and implementing innovative traffic technologies. To deliver world-class services, technology and products to our partners and customers.

WHY CROSS?

- State-of-the-art technology
- In-house R&D
- Experts and transport engineers
- Wealth of real-world experience
- Customized solutions
- Flexibility

1994
BEGINNING OF THE STORY

200+
EMPLOYEES

50+
DEVELOPERS

500+
MILLION CZK IN REVENUE

CZECH REPUBLIC

The advanced technologies we develop in-house at CROSS are applied in everything we do - ITS and Smart Cities projects, Traffic Control, Parking, Weigh-In-Motion, Road Telematics and Road Weather status. We have specialists on hand for consultation capable of discussing a potential project of any scale, covering all the bases - from A to Z. An important factor for

clients is the knowledge that any state-of-the-art proposal from us will be interoperable with the software or hardware they already have in place and can be customized to suit the given application. Systems by CROSS have been installed in locations from Japan to Brazil, Norway to Tanzania with the aim of keeping traffic moving whatever the local conditions.

CROSS HOLDING:

Cross Zlín, a. s. | InCinity, s. r. o. | Lab Systém, s. r. o. | Cross Turkiye | Cross Deutschland

INTERTRAFFIC INNOVATION AWARDS 2018
Winner in the Infrastructure category

INTERTRAFFIC INNOVATION AWARDS 2016
Overall winner

INTERTRAFFIC INNOVATION AWARDS 2016
Winner in the Smart Mobility category

SMART CITY SERVICE AWARD 2017
Winner

- CROSS headquarters
- CROSS branches
- CROSS installations

MISSION

We aim to improve conditions for road-based travel through applying the latest technologies. Our priorities are safety and the efficient traffic flow of all vehicles and freight.

PRODUCT OVERVIEW

www.cross-traffic.com

WEIGH IN MOTION

An advanced and progressive Weigh-in-Motion system for weighing fast-moving vehicles in combination with loop detectors, road sensors and a core WIM module. CROSS software enables on-line measurement as well as immediate validation and enforcement.

www.optiwim.com

CrossWIM	dynamic weighing unit with a facility for direct enforcement
#OPTIWIM®	certified as the most precise system for assessing dynamic weight

TRAFFIC CONTROL

Complete systems and hardware for intelligent control of traffic in cities, including traffic light controllers and control centres for comprehensive monitoring purposes and adaptive traffic management.

CROSS RS 4	traffic light controller
CROSS RS 4S	traffic light controller
eDaptiva®	full-featured urban traffic management centre
eDita®	maintenance and programming software

PARKING SYSTEMS

A complete solution for parking in outdoor areas, urban zones, garages or car parks. Every device is integrated with a system that handles all management and control, including payment terminals for off-street and on-street parking.

CrossPark	parking system with automatic barriers
CROSS APTM	universal payment terminal
CROSS APTL	payment terminal lite

ROAD WEATHER

A system for monitoring and predicting weather conditions on roads and in cities. It can be extended to form a comprehensive solution with numerous options for intelligent management of wintertime road maintenance.

www.metis4.com

CrossMet	road and urban meteorological stations
METIS	advanced road weather information system
SSWM	system to aid decision-making in road maintenance
WMi	performance of wintertime maintenance and cost analysis

TRAFFIC VIOLATIONS

Solutions for eliminating illegal stopping and parking on the streets of city centres. Systems for evaluating authorized or unauthorized entry and transit in areas where traffic is regulated.

CROSS Pavis	parking violation system
CROSS Avis	entry and transit detection

DATA COLLECTION

State-of-the-art systems for classifying and counting vehicles, based on inductive loops, cameras or radars. The ability to monitor traffic flow and calculate travel times.

CrossCount	traffic counter and classification device
Travel Time module	traffic detectors and unit for traffic flow monitoring and predicting travel times
CROSS ControlUnit	universal unit for collecting and transferring telematic data

INVIPO®

A platform that enables the visualisation and integration of solutions for smart cities and intelligent road networks.

www.invipo.com

COMPREHENSIVE
SMART CITY PROJECT

ITS
IN IZMIR

Izmir is the third largest city in Turkey, the administrative centre for its province and home to almost 4 million inhabitants.

CROSS was tasked with supplying and installing infrastructure that included traffic lights, equipment for detecting and monitoring traffic flow, parking violation systems, meteorological devices to gauge weather conditions on roads and other technologies for its transition into a smart city. In total, over 3,000 individual items were incorporated in the system, which communicates on-line with Invipo - the Smart City platform.

ITS IZMIR was awarded the Smart City Service trophy in 2017

TRAFFIC CONTROL: 400 intersections	PEDESTRIAN ZONES: 107 sets of bollards
TRAFFIC CONTROL CENTRE: 9 x 6 m video wall	ROAD WEATHER SYSTEMS: 30 stations
PRIORITY FOR PUBLIC TRANSPORT: 1,500 vehicles	PAVIS: 116 monitoring locations
PARKING: 60 navigation boards	TRAFFIC VIOLATIONS: 100 locations
ON-STREET PARKING: 2,000 road sensors	TRAFFIC DETECTION: 209 traffic points
INFO PANELS: 108 digital message boards	

The largest ITS project in the region and the greatest in scope globally.
More at: **www.itsizmir.com**

REFERENCES

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CONTINENTS

55
COUNTRIES

1000+
SATISFIED CUSTOMERS

Hungary
Network of 106 Weigh-in-Motion stations

Mošnov, Czech Republic
Comprehensive airport parking

Czech Republic
Road weather national system

Aarhus, Denmark
Cloud-based urban traffic control system

St. Petersburg, Russia
Traffic control on Vasilievsky Island

Bulgaria
Data collection, network of 200 CrossCount stations

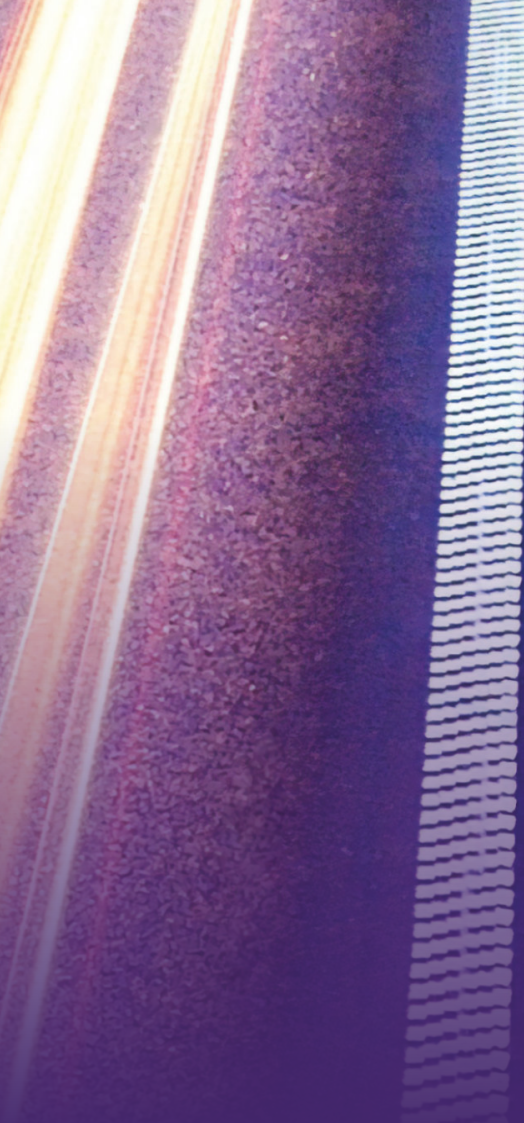**Saudi Arabia**
Weigh-in-Motion

Czech Republic
Weigh-in-Motion for direct enforcement

www.cross-traffic.com