

Company Profile



Complete Mobility Provider.



Who are we?

Founded in 2009, ISSD provides solutions to create added value in the field of intelligent transport. Its areas of expertise include traffic management, electronic applications and consulting services. With the slogan 'Complete Mobility Provider', ISSD contributes to mobility from A to Z by working for a greener, more efficient and accessible transport future in more than 5000 locations in 15 countries.

ISSD is located in METU Teknokent, Turkey's most prestigious technology development zone. The company stands out from its competitors with its product portfolio, technical expertise, R&D capabilities and long-term customer relationships. ISSD's young and talented team is committed to creating value and aims to become a global leader by delivering this value to the world.



What “Complete Mobility Provider” Means to Us.

The “Complete Mobility Provider” motto emphasizes a sustainable, accessible and efficient transport ecosystem that addresses all mobility components from A to Z by bringing together different modes of transport.

It refers to integrated smart mobility solutions using real-time transport data and smart transport technologies, covering various modes

of transport such as public transport, car sharing, micromobility as well as private vehicles. It is an approach that ensures inclusiveness for all individuals by prioritizing sustainability and accessibility, adopts environmentally friendly solutions with the principle of zero emission, aims to disseminate data-based decision-making mechanisms and reach all stakeholders by reaching the end user.

We pursue jobs you never thought were possible

Vision Mission.

We offer technology-oriented and innovative solutions in the “Intelligent Transport” sector with the motivation to create added value and the eagerness to be the locomotive of the sector. We focus on improving and facilitating the travels of road users, reducing traffic congestion and minimizing environmental impacts; we deliver our mobility solutions using smart transportation technologies to the end user. We aim to be a global leader in the sector with the mission of creating value and presenting this value to the world, which we have adopted since day one.

Our Values.

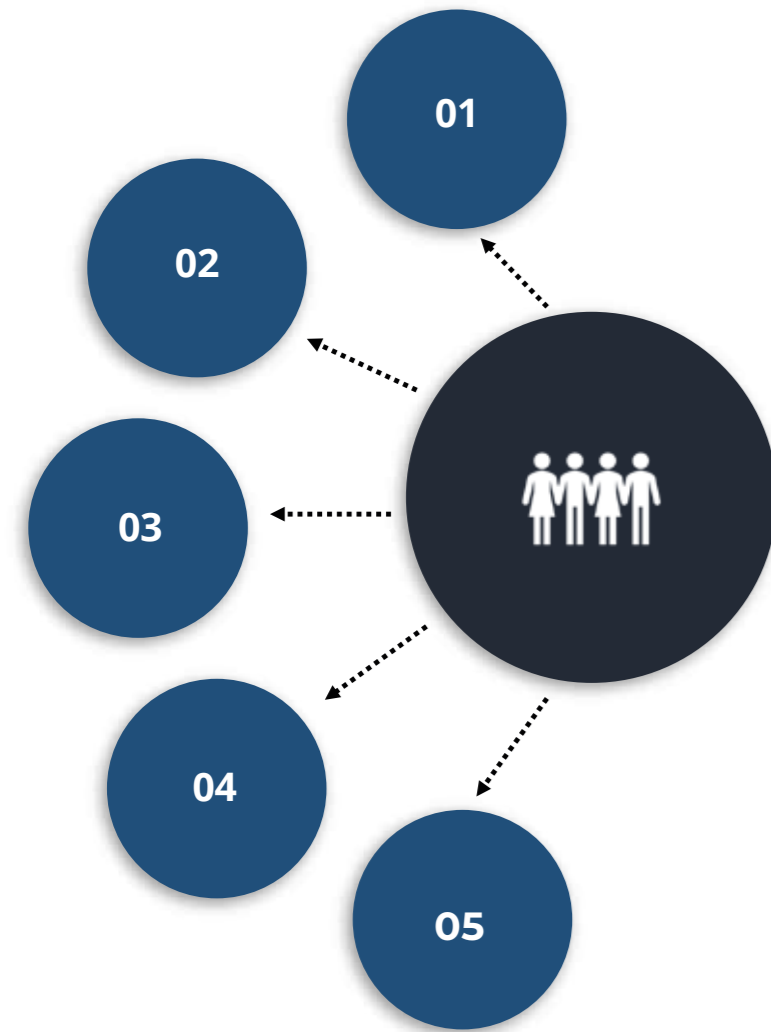
Producing added value
Friendliness
Team orientated
Transparency
Technology orientated
Sustainability
Action orientated
Continuous learning culture

Awards.

2023 Deloitte Technology Fast 50
2022 Productivity Award - R&D 2nd
2019 DeloitteTechnology Fast 500™ EMEA – 351th
2019 Deloitte Technology Fast 50 – 10th
2019 Intertraffic Traffic Management Award
2017 Intertraffic Municipality Solution Award
2015 TÜBİTAK ELOTEG Group, Most Successful Project
2012 Project Market Promising Business Award
2012 Innovative Entrepreneur Award KOSGEB
2010 Yeni Fikirler Yeni İşler General Category 1 st Place
2010 Yeni Fikirler Yeni İşler Defense Category 1 st Place



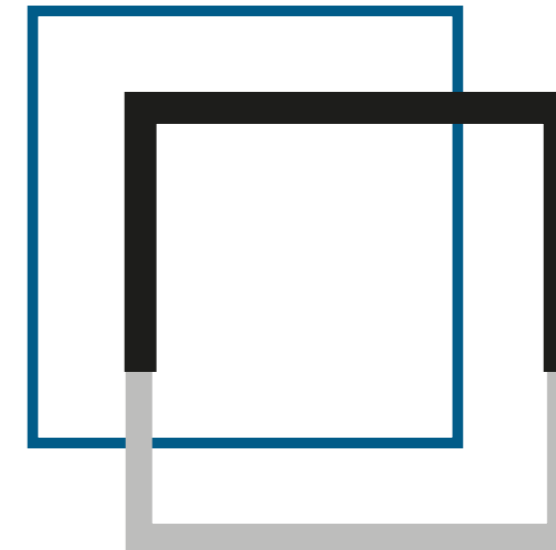
120+
R&D Teams.



Mobility Team
Software Design Team
Big Data Analytics Team
Embedded Systems Team
Systems Engineering Team

15 Years of experience.

Milestones.





Traffic Management Systems



Electronic Enforcement Systems



Traffic Consultancy



Industry Specific Solutions

Solutions.

Traffic Management

CHAOS Dynamic Junction Control System
VIERO-AI Vehicle Counting System
VIERO-360 Junction Analysis System
CENTRIS Dynamic Junction Control Unit
MANGO Next Generation City Traffic Management Platform
BLUESIS Bluetooth Based Traffic Analysis System

Electronic Enforcement

POINTR K3000 Red Light Enforcement
POINTR P3000 Speed Corridor Enforcement
POINTR P2000 Parking Enforcement
POINTR-2M Mobile Enforcement
POINTR E3000 Emergency Lane Enforcement
OVER-H Overheight Vehicle Detection

Number Plate Recognition

POINTR P3000 Automated Number Plate Recognition System
POINTR MALL Mall-ANPR
POINTR B3000 Bullet-ANPR

Connected Driving

MANGO CAR New Generation Electric Vehicle
MANGO Traffic Management Center Software

Traffic Data and Analytics

Floating Car Data (FCD) Analytics
Bluetooth Based Analytics
Accident Analysis

Simulation

PTV Group Traffic Simulation
Transoft Intersection Simulation

Industry Specific Solutions

CONSCAN Konteyner ID Recognition System
Customs Number Plate Recognition System



Our Systems around the World.



Our traffic management and electronic enforcement systems are in active use in 15 countries around the world.

10000+
Sensors & Systems

More than 10,000 of our traffic management and electronic enforcement sensors are in use around the world.

5000+
Locations

Our traffic management and electronic enforcement systems are actively used in more than 5000 locations.

500+
Projects



Asia:
Kazakhstan – Shymkent
India – Chandigarh
Georgia - Poti

TRNC - Lefkoşa
Turkmenistan – Ahal City
Indonesia - Jakarta
Uzbekistan

Middle East:
UAE – Ras Al Khaimah
Bahrain
Palestine - Hebron
Iraq
Syria

Africa:
Nigeria - Lagos

America
California

Europe:
Croatia
Ukraine - Vinnytsia

Our Systems in Türkiye.



5000+
Sensors & Systems

More than 5000 sensors of our traffic management and electronic enforcement systems are available on the Turkish market.

70+
Cities

Our traffic management and electronic enforcement systems are in active use in more than 70 locations.



Marmara Region:

- Bursa
- Bolu
- Çanakkale
- Edirne
- İstanbul
- Kocaeli
- Sakarya
- Tekirdağ
- Yalova
- Kırklareli

Aegean Region:

- Afyonkarahisar
- Aydın
- Denizli
- İzmir
- Kütahya
- Muğla
- Uşak

Southeastern Anatolia Region:

- Adıyaman
- Batman
- Diyarbakır
- Gaziantep
- Mardin
- Kahramanmaraş
- Şanlıurfa
- Siirt
- Kilis

Central Anatolia Region:

- Aksaray
- Ankara
- Eskişehir
- Karaman
- Kayseri
- Kırıkkale
- Kırşehir
- Konya
- Nevşehir
- Niğde
- Sivas
- Yozgat

Mediterranean Region:

- Adana
- Antalya
- Burdur
- Hatay
- Isparta
- Mersin
- Osmaniye

Eastern Anatolia Region:

- Ağrı
- Ardahan
- Elazığ
- Erzincan
- Erzurum
- Hakkari
- Iğdır
- Malatya
- Şırnak
- Van

Black Sea Region:

- Amasya
- Artvin
- Bartın
- Bolu
- Çorum
- Düzce
- Giresun
- Gümüşhane
- Karabük

- Kastamonu
- Ordu
- Rize
- Samsun
- Tokat
- Trabzon
- Zonguldak

Capabilities

Competencies.

Traffic Scene [Analysis](#)

Deep Learning model development and optimization
Edge computing
Computer Vision
Machine Learning

Sensor Development [and Integration](#)

Mechanical design and manufacturing
Electronic design and manufacturing
Software design and development
Embedded system design

Traffic Engineering [Services Solutions](#)

Intersection, Corridor and Signal Design
Traffic Simulation
Traffic Impact Analysis
Traffic Safety Projects
Parking Studies
Public Transportation Studies
Micro-mobility and Accessibility Analysis
Trainings with Certification

Capabilities

Competencies.

Central Management [and Control Software](#)

Cross platform web / mobile technologies
Server and client side applications development
UI/UX Design
Database Management
Frontend / Backend design and development
API using and development

System Architect [and Applier](#)

ITS integration & product development
C-ITS integration
IoT Platforms
ITS Product Innovation
ITS Project Applications & Management

City Traffic Network Monitor [and Sensor Fusion](#)

Data Analytics
Anomaly Detection
Cloud Computing
Distributed Processing



City Traffic Network Monitor and Sensor Fusion.

ISSD has successfully developed algorithms that process data incoming from Bluetooth sensors and collect Floating Car Data (FCD). These algorithms are capable of processing incoming data both offline and in real-time by utilizing cloud computing. The developed algorithms are utilized to calculate speed profiles, analyze traffic occupancy and congestion, detect incidents and anomalies and distill the normal behavior of the areas that the systems supervise.

Furthermore, these algorithms can utilize distributed processing tools for whole city-based real-time analysis and can utilize data collected from Bluetooth sensors to extract Origin-Destination (OD) matrices and determine travel time between two consecutive sensors, in real-time. Data from the analyzed traffic systems are visualized and displayed on the web interface to aid with the decision-making process.

Traffic Scene Analysis.

Using its experience and capabilities in the field of traffic engineering, ISSD has been able to design, develop and optimize robust deep learning models.

ISSD has also been capable of producing efficient, real-time algorithms that rely on machine learning for tracking, counting, license plate recognition, incident detection and object detection using both edge and center processing and utilizing CPUs, GPUs, VPUs, and NPUs in their operation.

These algorithms help creating image-based traffic monitoring and enforcement, incident detection, traffic data collection and adaptive junction management systems that can work throughout different weather, lighting, and indoor/outdoor conditions. Today those systems collect and process data from more than 200.000 cameras to ensure a safer and smoother traffic, worldwide.



Sensor Development and Integration

ISSD has been able to develop a multitude of traffic sensors that are capable of operation in outdoor and indoor environments. These sensors provide a wide range of data regarding traffic flow. The provided data can help contribute to traffic management and anomaly detection significantly as the deployment of such sensors across an area can significantly increase both the accuracy of detection and the reliability and efficiency of the decision-making algorithms and the traffic management systems.

This is done in parallel to the storage of historical data for later forecasting and redundancy analysis. The developed sensors are also integrable with any traffic management system in use, to be utilized as additional data resources.

System Architect and Applier

ISSD has the sufficient knowledge and experience to define required traffic needs and determine the required architecture and subsequently design and then develop and integrate the systems accordingly and manage the life cycles of the multitude of intelligent transportation systems it offers.

Central Management and Control Software

ISSD has designed and developed the central software that is needed for traffic control of city-wide traffic network. The designed software has all the features and functionalities needed to manage a city sized traffic network.

This is coupled with the ability to manage results coming from different algorithms and display them in a comprehensible visual manner through its web-based interface, providing valuable information to the user and reducing the service, maintenance, and labor costs.



Analysis

Traffic Modelling & Simulation

Traffic Impact Assessment

Swept Path Analysis

Signal Warrant Analysis

Accessibility Analysis

Dynamic Traffic Assignment

Trip Generation & Distribution

Operation

Multimodal Operations

Freeway Operations

Intersection Operations

Special Event Traffic Management

Performance Measurement

Transit Signal Priority

Traffic Circulation / Regional Traffic Planning

Macro Traffic Analysis

Public Transport Modelling

Sustainable Urban Mobility Plan

Travel Demand Modelling

Network Modelling



Macro Transport Modelling

Wayfinding Design

Traffic Safety Superstructure Design

Intersection Design

Corridor Design & Planning

Preliminary Design

Final Roadway Design

Traffic Signal Design

ITS Design & Planning

Complete Street Design

Roundabout Design & Planning

Parking Studies & Management Plans

Signing & Striping

Bicycle & Pedestrian Studies

Transit Facilities Design



Design&Planings

ISSD A.Ş.
Complete Mobility Provider

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