



Symbio Smart Traffic



True traffic flow data

Even today, transportation planning is based on statistical estimates, people's traffic observations and interviews that focus on people's and vehicles' routes and transportation behaviour. Symbio's solution provides you with real-time data on road traffic or people's movement in a shopping center and on the locations and times of congestions. It is useful for urban planners to know how traffic flows at traffic light intersections, when and where the peak hours of public transportation take place and where tourists stop to take photos.

Traffic census data with existing cameras

Symbio Smart Traffic is a smart video census solution which enables transportation planning and route optimization based on people's actual behaviour. The AI-based solution can be used with existing city and shopping center monitoring cameras, both outdoors and indoors. Artificial intelligence individualizes people or vehicles with a randomized identifier which makes the solution compliant with the EU's General Data Protection Regulation. Traffic or people flow data can be transferred directly to the customer's cloud or reporting system.

Visual peek into Symbio Smart Traffic



Functionalities of Symbio Smart Traffic:



Traffic count

- Time spent waiting at traffic lights
- Lane used and tail length
- Travel direction and speed
- Utilization of the data in transportation planning



Vehicle type identification

- Car, truck, train, bus, tram, bicycle etc.
- Utilization of the data in transportation planning



Data on people's behaviour and people flow

- Outdoors, e.g. on streets and close to tourist attractions
- In buildings, e.g. in offices, enues and shopping malls



Special requirements of public transportation

- Passenger count in trains, trams and buses
- Passenger movement in stations and stops
- Data on vehicle capacity and the utilization rate of special seats
- Wheelchair, strollers, restaurant car etc.



Real-time utilization of data

- Data for customers on lines to checkouts, events, rest rooms
- Utilization of the data for customer flow optimization

Operating environment

The solution tested with traffic and surveillance cameras can be used with smart phone cameras as well. The solution generates data directly to the customer's cloud services to be used for planning, and it can be integrated to the customer's systems such as a traffic light control system.

