



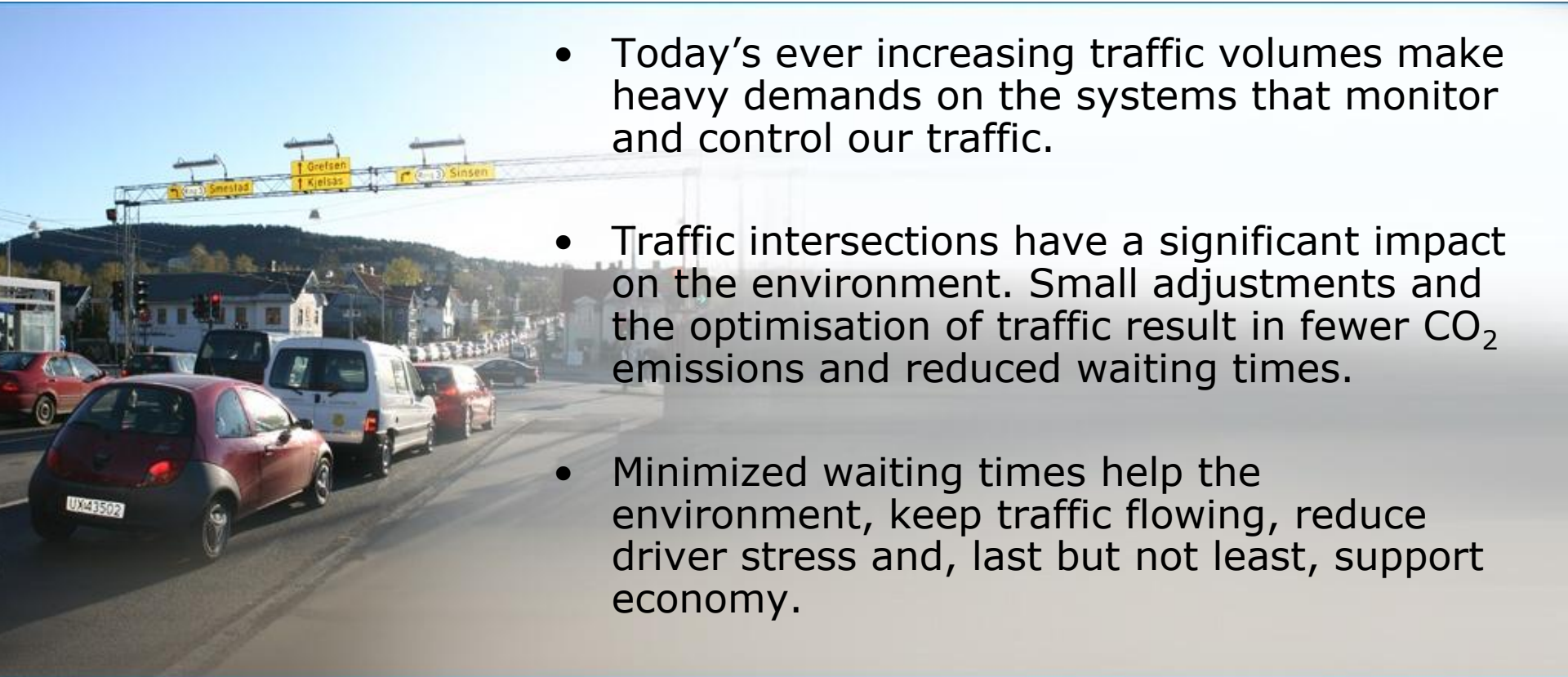
Swarco ITC Controller Family

Swarco Tech - State of the art – in Traffic Management

- Swarco Tech is the Nordic market leader in traffic controllers
- Swarco Tech's mission and ongoing challenge is to improve and develop innovative and environmentally sound traffic solutions.
- Our technology is state of the art and builds on more than 30 years of experience



Problems and challenges in traffic today



- Today's ever increasing traffic volumes make heavy demands on the systems that monitor and control our traffic.
- Traffic intersections have a significant impact on the environment. Small adjustments and the optimisation of traffic result in fewer CO₂ emissions and reduced waiting times.
- Minimized waiting times help the environment, keep traffic flowing, reduce driver stress and, last but not least, support economy.

Today's requirements



- Central control systems
- Adaptive control systems
- Priority systems (buses, trams, emergency vehicles)
- Above ground detection (video, GPS, radar)
- Environmental issues
- Collection and easy analysis of historical data
- Open protocols based on standard communication
- Failsafe system

Swarco ITC-2 Controller



- A product of continuous development; the ITC is the most modern and advanced intersection controller on the market.

- LINUX platform; open platform with up-to-date possibilities
- Product developed in-house; Easy to make changes in soft- and hardware
- Easy to handle; compact design, including different connection options
- Fulfils all the traffic standards and requirements
- Connectivity to important systems; SPOT, PriBus, LHOVRA, Omnia, Omnivue, EC-Trak
- Scalable product family

Swarco ITC-2 Mini controller



- All functionality inherited from ITC-2 but with focus on low cost for small intersections and pedestrian control

- Fulfill and are tested according to all EU norms for Traffic controllers
- Programming tool as well as the enhanced Linux platform is inherited from ITC-2 to secure scalability
- Easy to handle; compact design, including different connection options
- Connectivity to important systems; SPOT, PriBus, LHOVRA, Omnia, Omnivue, EC-Trak

Swarco intelligent SHDSL modem



- SHDSL modem with intelligent Proxy software for communication between Central system and Traffic controller
- Fulfill and are tested according to all EU norms for Traffic controllers
- 2,3 Mbit TCP/IP communication on standard cables
- Up to 3 km between units
- Robust and easy to handle HW design
- OSPF routing protocol (open shortest path finder)
- Connectivity to important systems; SPOT, Omnia, Omnivue, EC-Trak

Benefits and possibilities for the customer



- Designed for extreme weather conditions
- Scalable from small to big intersections and different types of detection
- Lots of knowledge available
- LINUX, IP-based systems
- Connectable to FLASH real-time PT system from Swarco Mizar
- Video detection fully integrated in the controller
 - Autoscope
- Building a priority system with identification by changing a card (DETIC)
- Low operating/maintenance costs
- Connectable to existing UTC systems (EC-Trak)

Technical

- Easy to operate
 - By the panel
 - By a personal computer
 - Windows-based software for programming and debugging
 - Built-in webpage with basic functions
 - Useful diodes for easy overview
 - Software-initialised cards
- Failsafe supervision system
 - Safety cpu
 - Watchdog
- Modular concept
- Easy to install/replace, i.e. 19"rack or DIN rail
- Fulfils all the new standards (EN12675 & H638 S1)