

- How can traffic controllers help saving the environment?
- Open protocols for traffic control and ITS
- How can we reestablish the standing for traffic controllers versus roundabouts?

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# How can traffic controllers help saving the environment?

## Environmental measures

- Priority for public transportation
- Reduction of traffic (residential areas, schools, kindergartens )
- Priority for bicycles and pedestrians
- Priority for Electrical vehicles
- Optimization of traffic flow



Traffic controllers have possibility to develop functions to address these aspects

The main environmental target will be to reduce private driving

# Open protocols for traffic control and ITS Problem

- Introduction of protocols on detail level, require that suppliers use the same algorithms for functions. This may lead to less development
- The central control system for traffic control are mainly supplied from equipment suppliers. The systems are made for the suppliers own equipment /algorithms
- It is a competitive advantage for the equipment supplier to control the central control system and thereby define the protocols to be used
- This advantage may be exploited by complicating implementation or by offering an unacceptable price for implementation towards the central control system

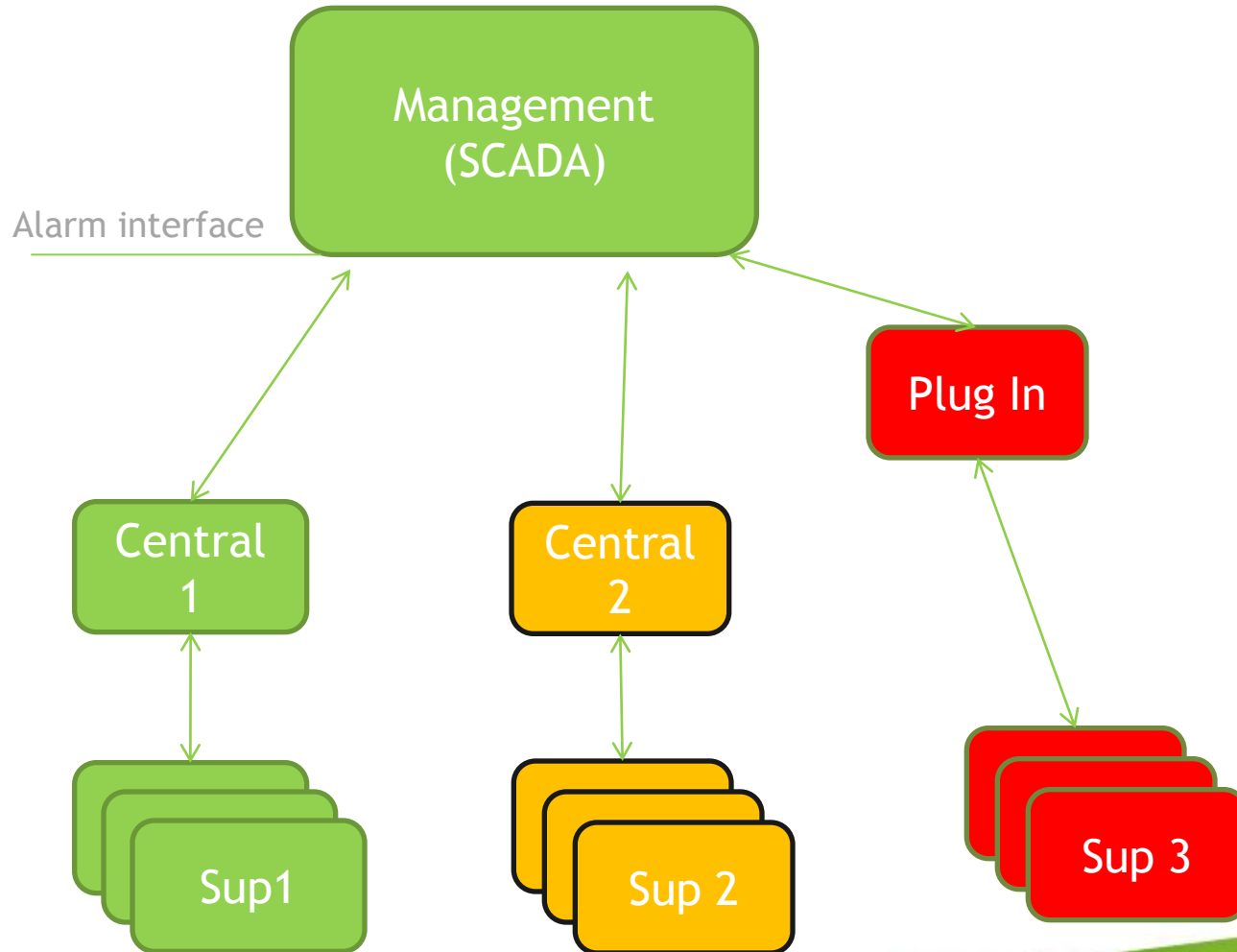
**Missing information flow between different processes reduce the integration level and stop development!**

# Open protocols for traffic control and ITS

## Possible solution

- Main functions are defined in an open SCADA system
- SCADA system communicate with the central control system supplied by equipment supplier or directly with the traffic controller through «Plug In»
- The owner defines which functions which are implemented in the SCADA system
- In case direct access to the traffic controllers is needed, this may be solved through a dedicated control system or by dedicated service SW
- The SCADA system should be an open available system in the market. The owner and the suppliers can define which scope and processes to be delivered
- Alarm and event list may be integrated, this allows close follow up of service-contracts

The future solutions will be developed by integrating information already available in other systems



# How can we reestablish the standing for traffic controllers?

- The environmental challenges caused by urban traffic demand that processes are controlled
- It is not possible to control the traffic flow in a roundabout!
- Roundabouts will be chosen were optimization of traffic flow is focused
- Traffic controllers have the possibility of addressing environmental challenges and traffic flow
- Traffic controllers will be the best solution in urban areas with high traffic flow or areas were reduction of traffic is an issue. It is possible to prioritize vehicle types or pedestrians



We have to focus on how to control the environmental challenges caused by traffic



- The environmental challenges will control the development of traffic control
- The traffic controller is suited for implementation of functions which address the environmental challenges
- Implementation of new functionality will depend on successful integration between different processes and actors

**Open systems where all actors participate is a prerequisite for developing future traffic solutions**



Takk for oppmerksomheten!

