

# Driver Advisory Systems

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# Driver Advisory Systems

## Why?

Via digitalization and clever software, we can support the continued modal shift towards sustainable and Co2 emission free transport of people and goods via rail.

Already today rail is by far the most eco-friendly transport mode, but we can do better, and we should.

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## How?

The goal of GreenSpeed is to keep the flow of traffic smooth.

When flow can be maintained, this will improve punctuality, save energy, reduce Co2 emissions, increase capacity, improve ride comfort, and reduce wear and tear.

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## What?

A lot of effort is put into creating robust conflict free timetables and if all trains stick to that plan, no conflicts will occur, and everybody will be happy.

**DAS** helps a driver achieve exactly this, by interpreting all the information and constraints and translate this into an actionable driving advice that within those limits optimizes the speed profile while respecting the plan and as soon as deviations occur, advice on how to get back to the original plan.

**C-DAS** goes one step further and handles situations where the original plan is no longer feasible. C-DAS can receive new plans and act on those so that as soon as dispatchers decide to prioritize trains differently to solve a conflict, without this coming as a surprise to the driver. The C-DAS can receive this information directly from the Traffic Management System and act accordingly. By solving these conflicts, the flow of traffic can be kept smooth, and delays are not propagated through the network.

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## One industry – one system

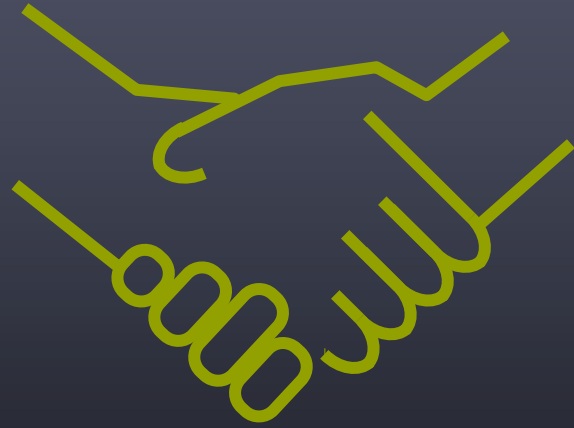
- **Railway undertakings**
  - ✓ Reduce cost for traction energy
  - ✓ Improve punctuality to please customers and avoid fines
  - ✓ Digitalize to improve data flow and operational procedures
- **Infrastructure managers**
  - ✓ Execute the timetable
  - ✓ Avoid conflicts
  - ✓ Increase capacity of existing infrastructure
  - ✓ Best data feed for Passenger Information Systems

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## DAS and C-DAS visualised



# Thanks for listening



THALES