



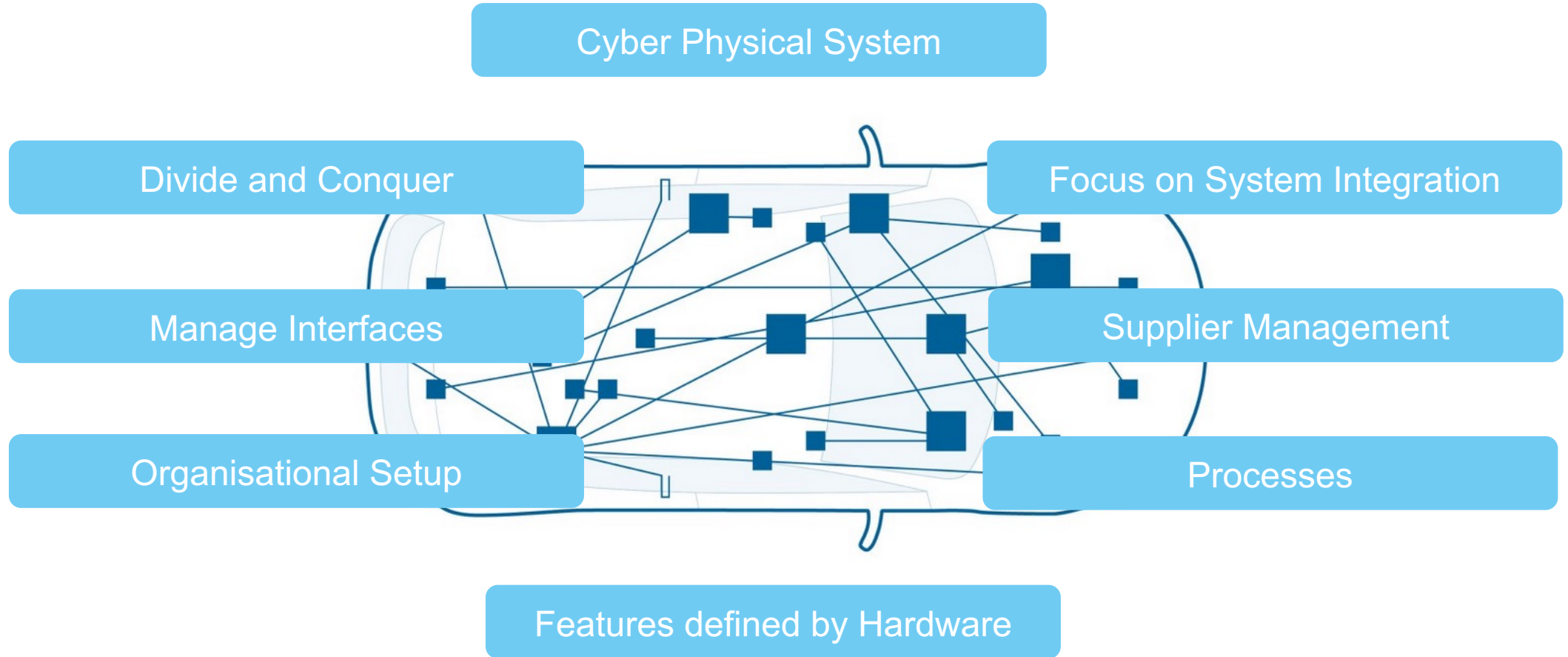
Software Defined Vehicle and Reliable Distributed Systems

Jörg Seitter
Advance Engineering

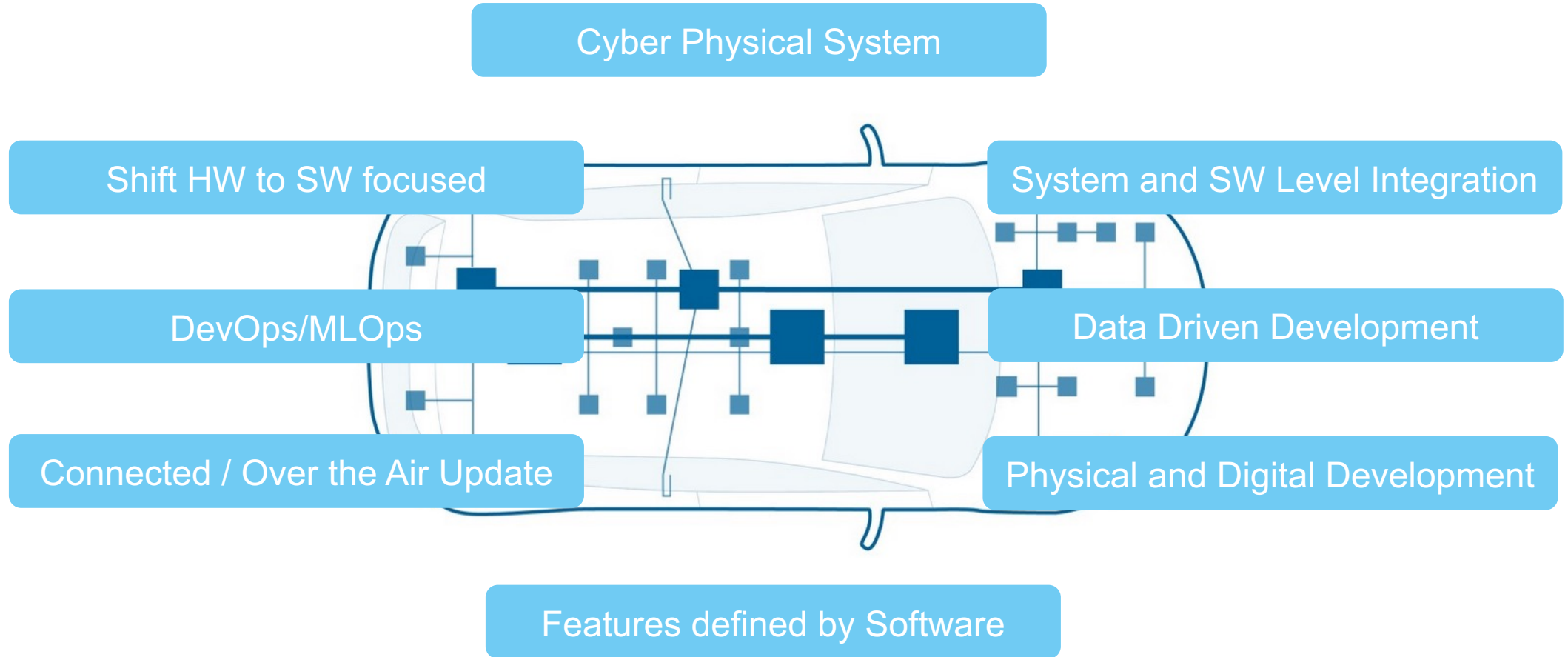
“You have to know the past to understand the present.”

Carl Sagan

We are coming from here

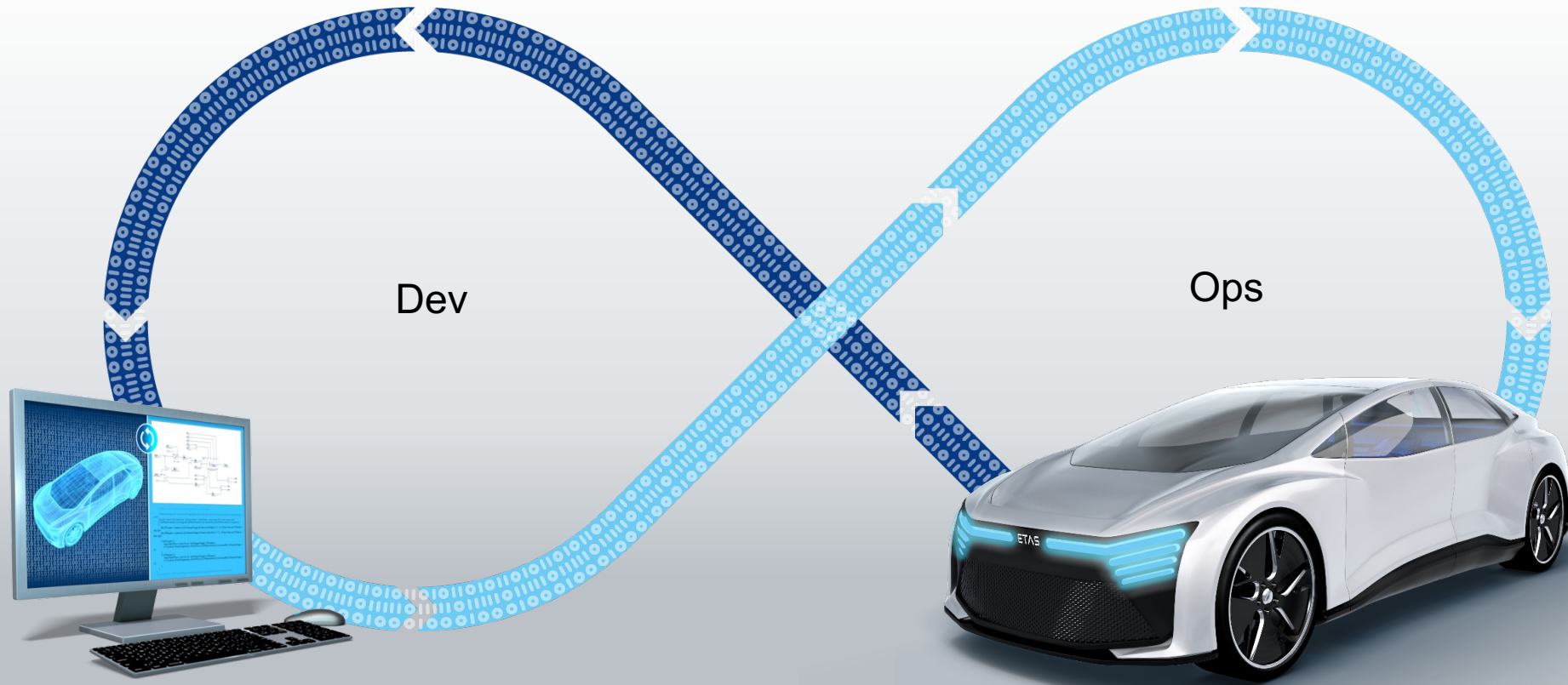


We are heading here



Software Defined Vehicle Development

The vision: The fully programmable vehicle

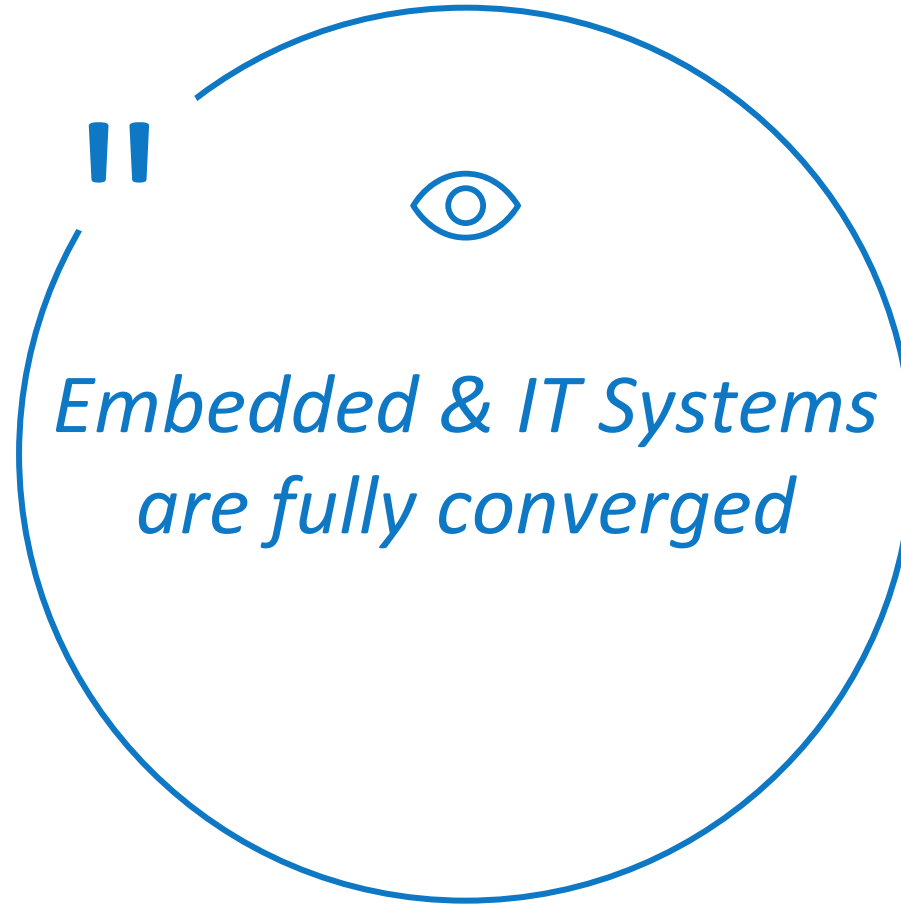


“The best way to predict the future is to invent it.”

Alan Kay



Reliable Distributed Systems: Vision

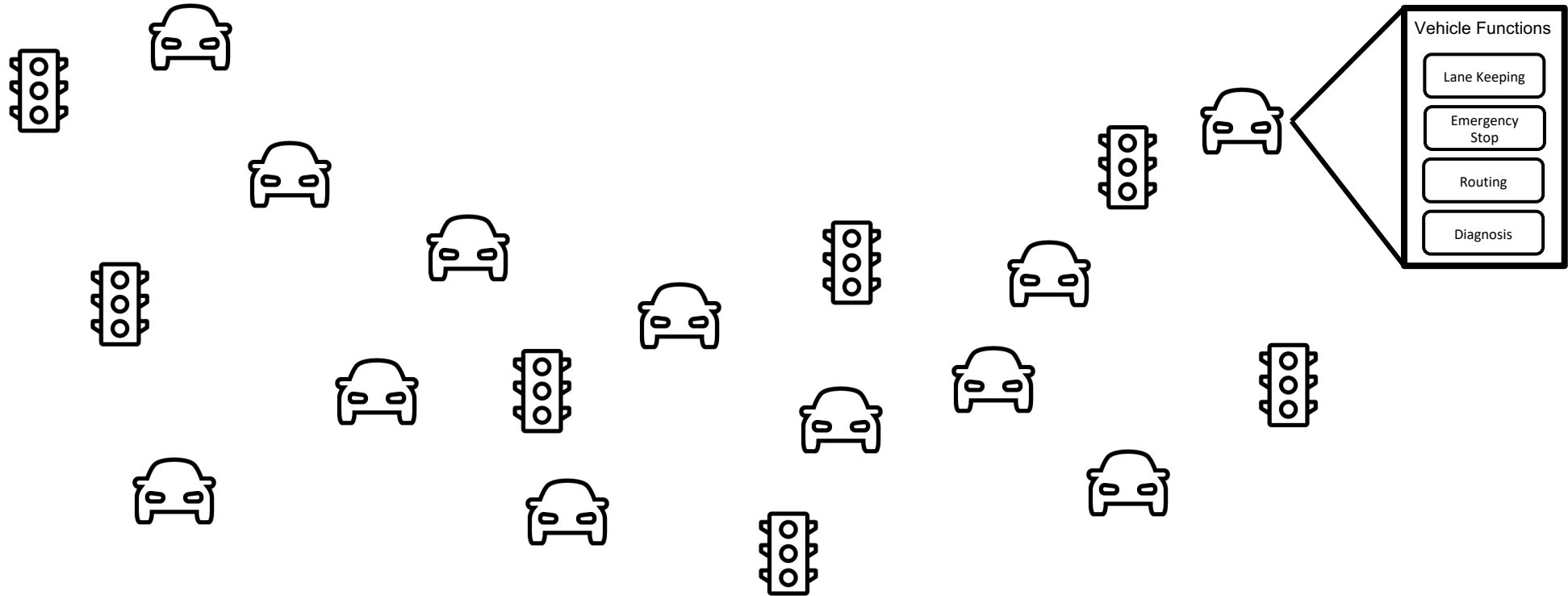


Reliable Distributed Systems: Example



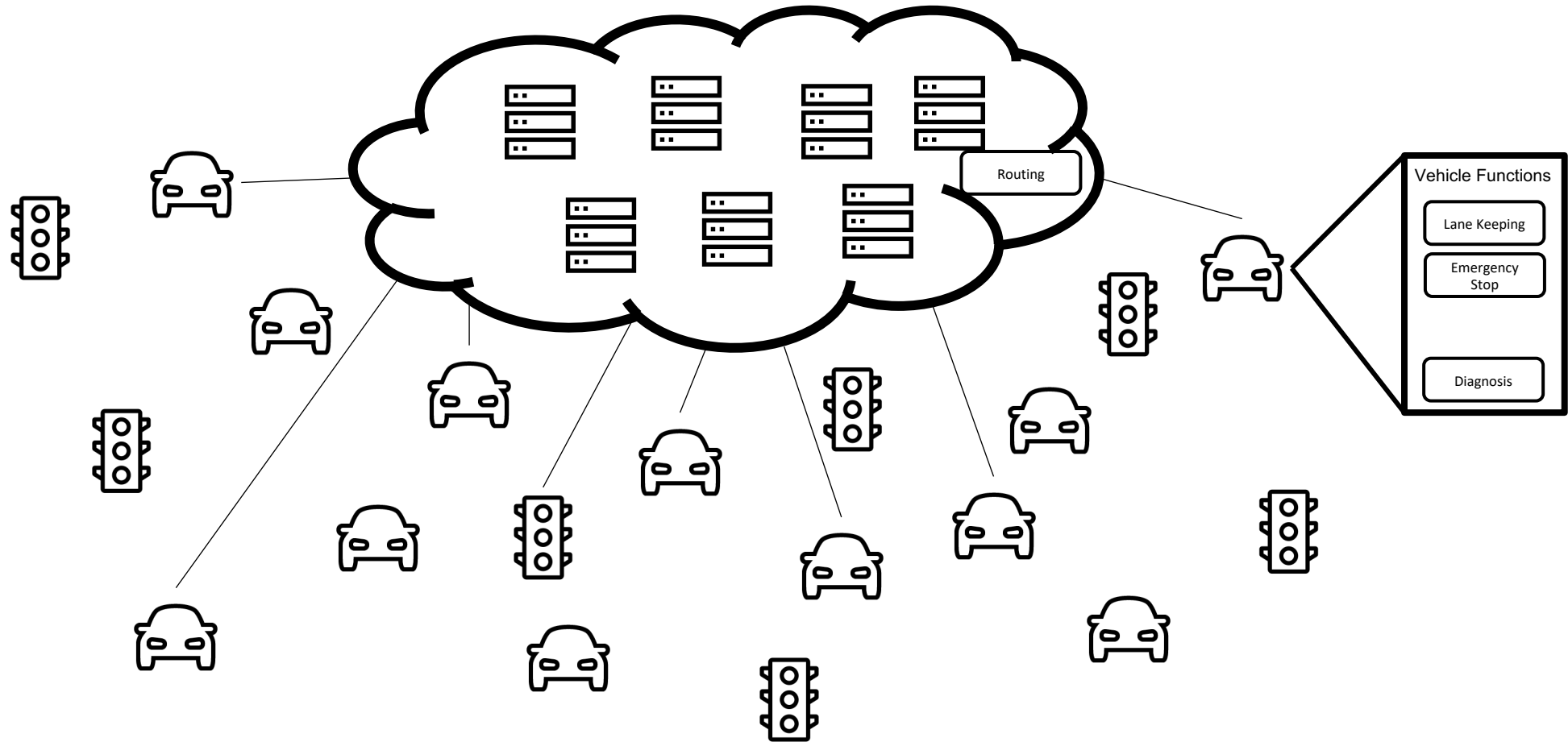
Reliable Distributed Systems (RDS)

Today



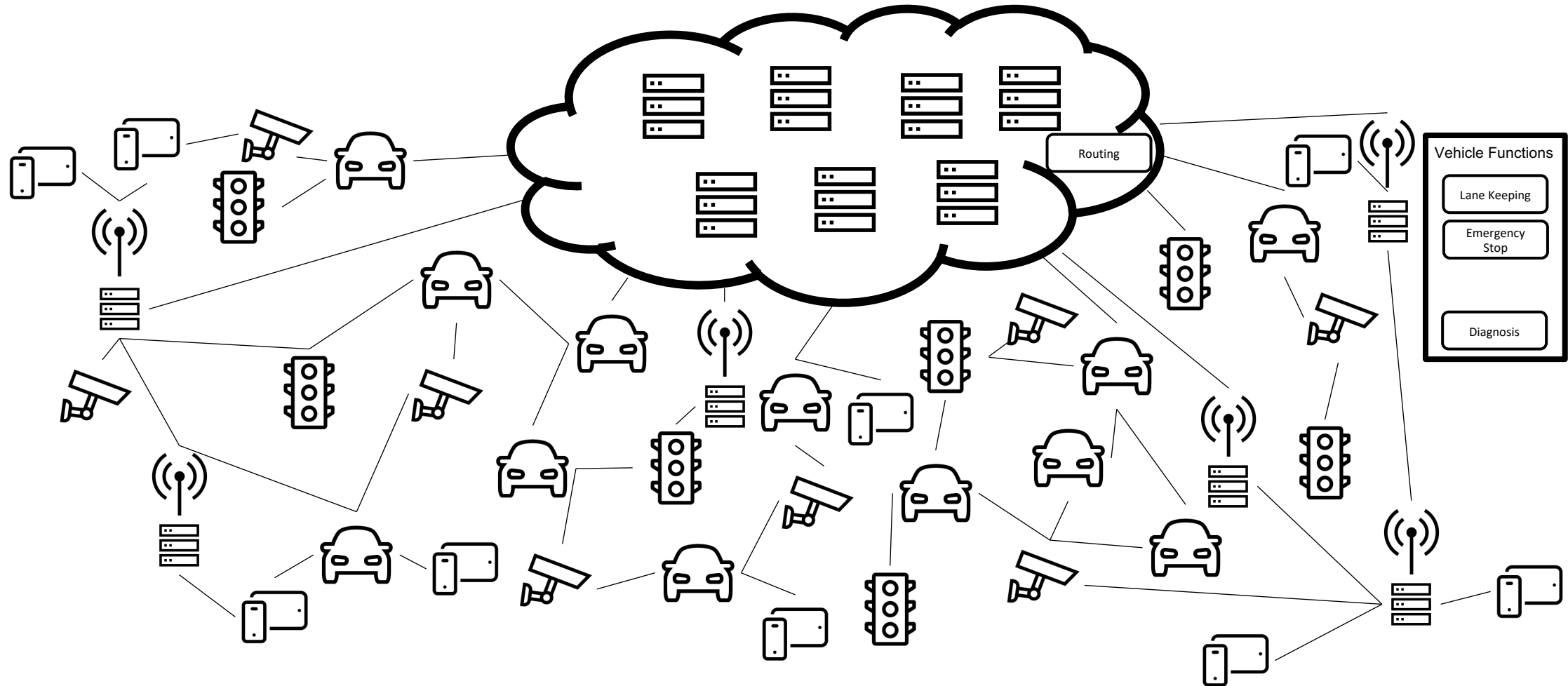
Reliable Distributed Systems (RDS)

Today



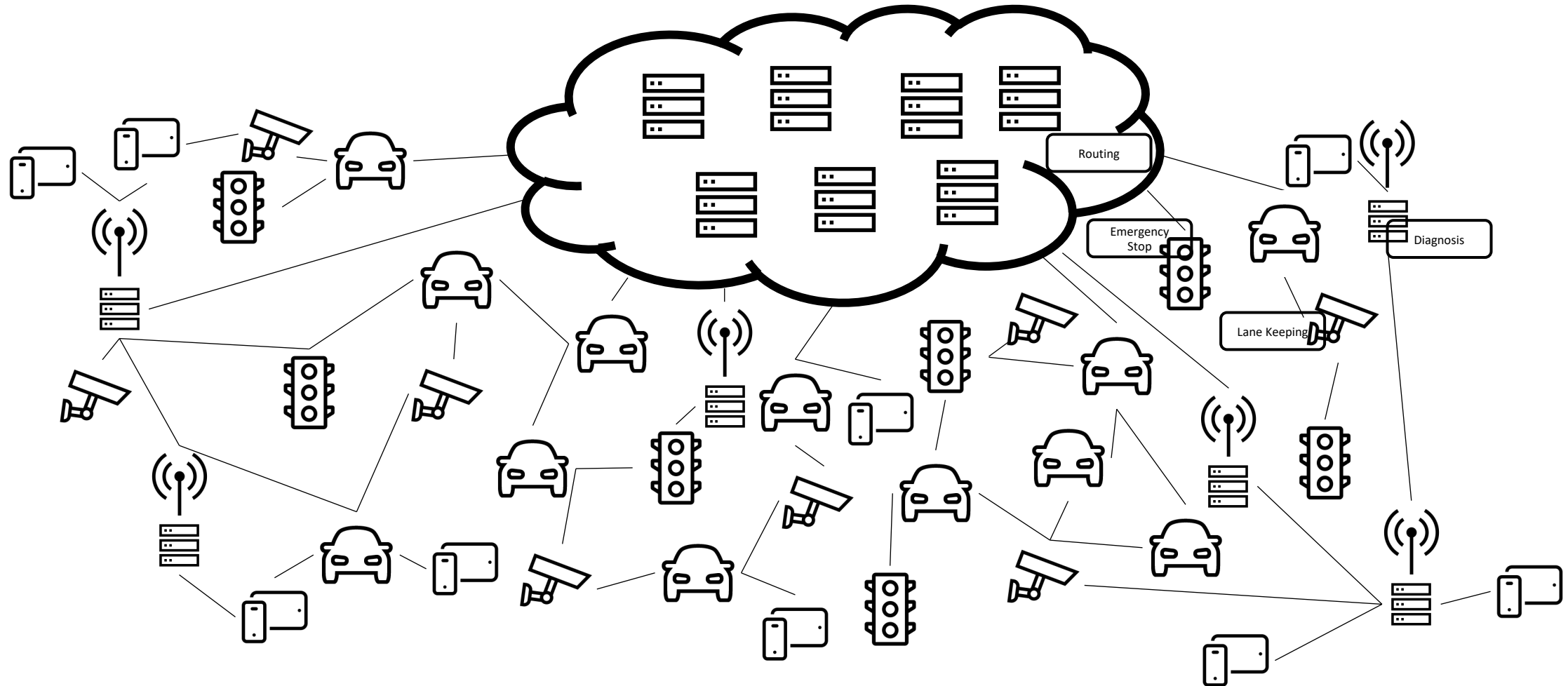
Reliable Distributed Systems (RDS)

The Fabric



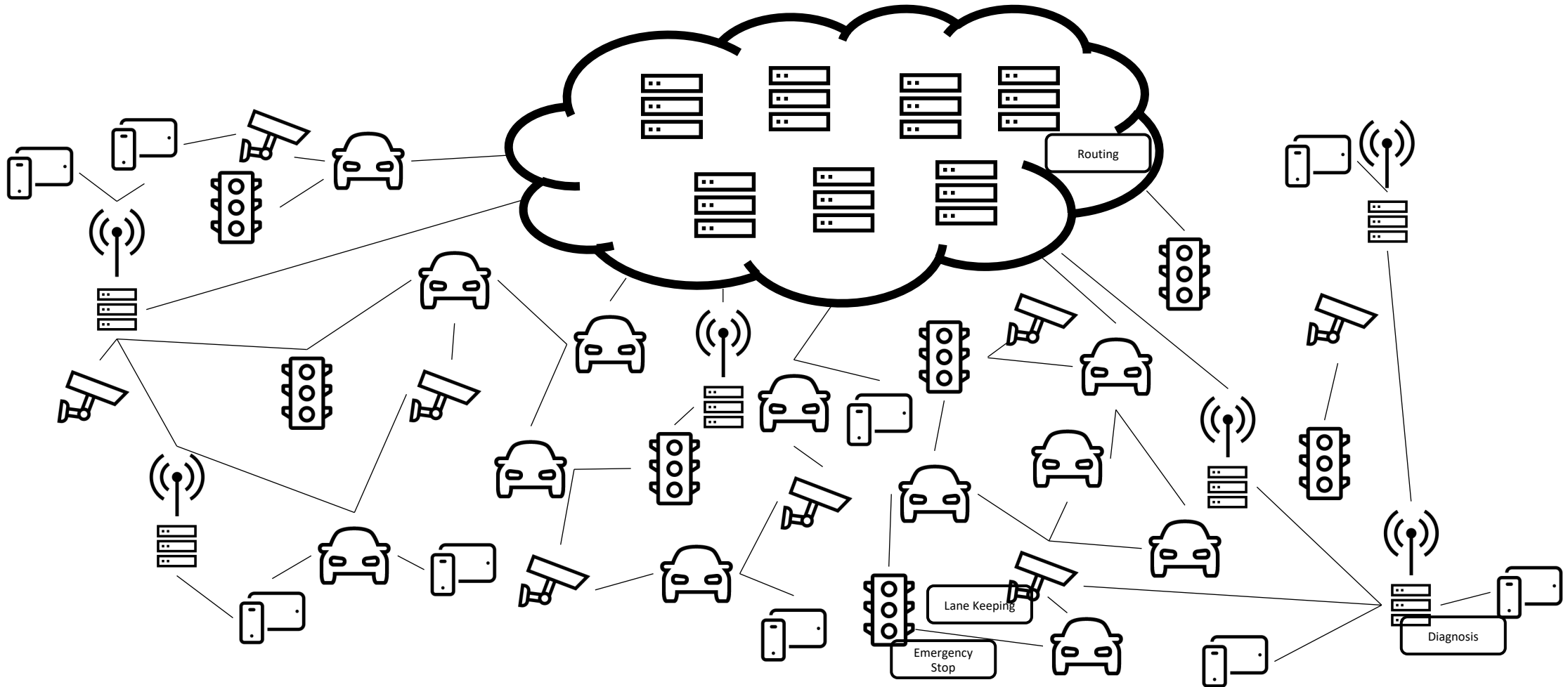
Reliable Distributed Systems (RDS)

The Fabric



Reliable Distributed Systems (RDS)

The Fabric



Reliable Distributed Systems (RDS)

First released Level 4 Automated Driving system...



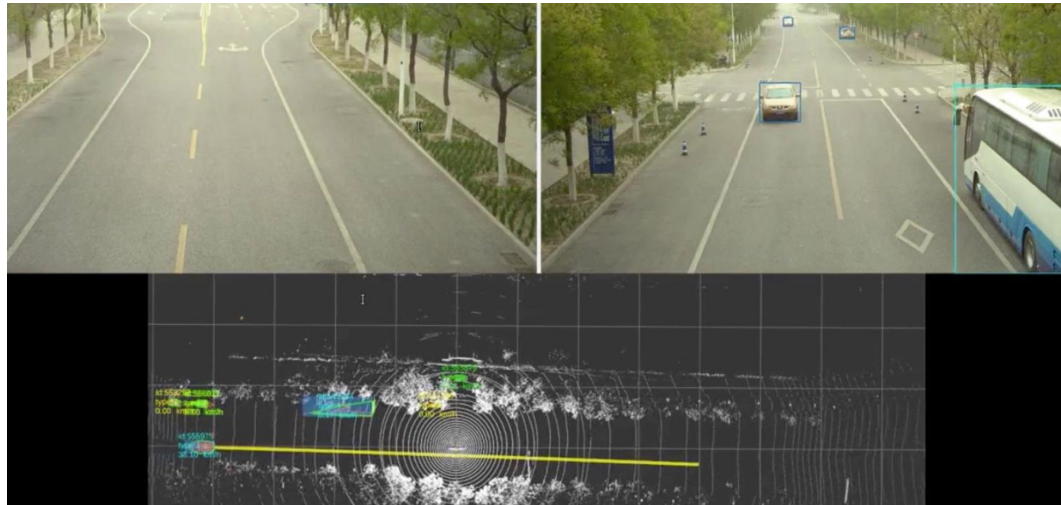
... is a reliable distributed system.

Reliable Distributed Systems (RDS)

IEEE Spectrum

Self-Driving Cars Work Better With Smart

Roads › Intelligent infrastructure makes autonomous driving safer and less expensive



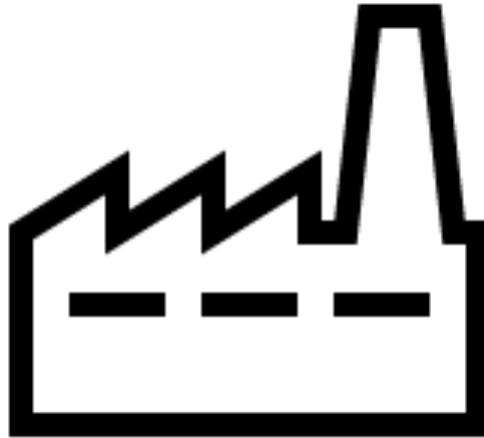
Source: IEEE Spectrum/Shao Shan Liu

Reliable Distributed Systems (RDS)

RDS spans multiple domains



Mobility



Manufacturing



Building
Technology

Thank you

joerg.seitter@etas.com



DRIVING EMBEDDED EXCELLENCE