Connected Infrastructure for automated driving on roads
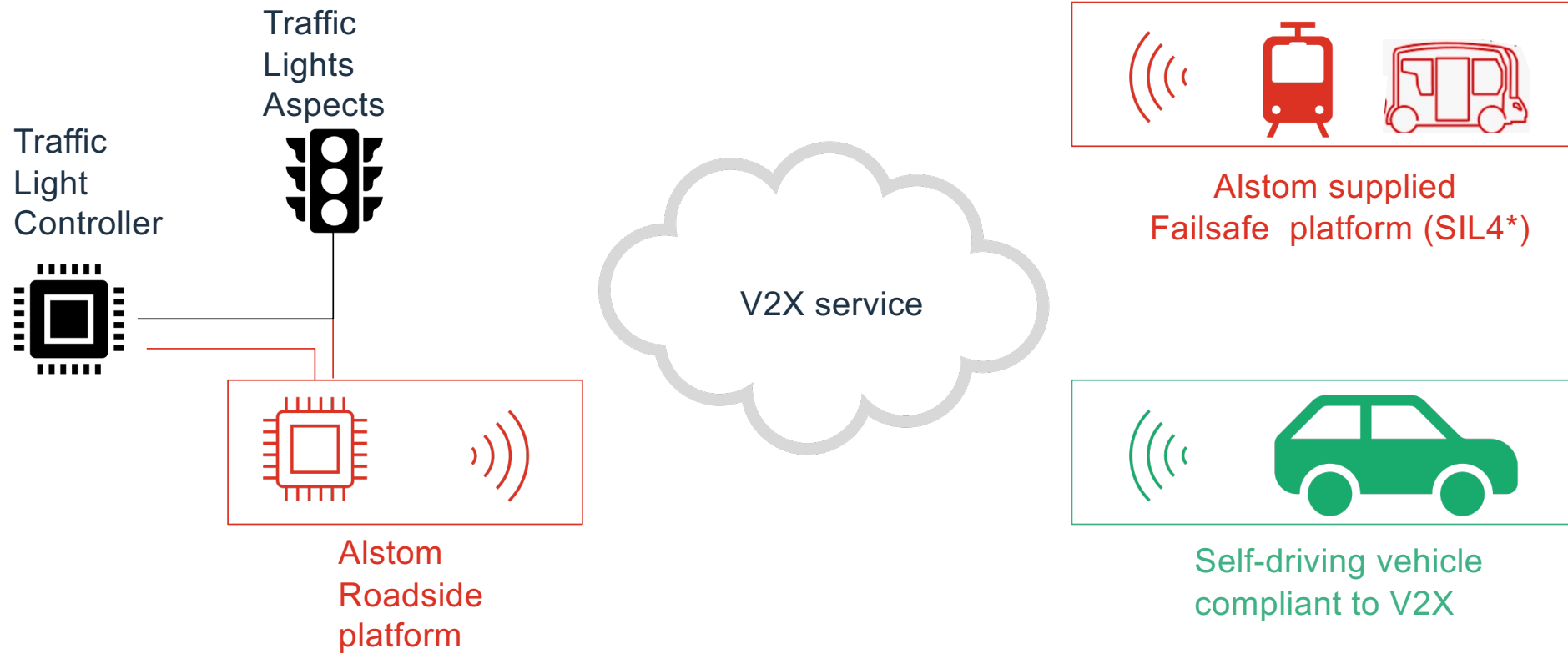
June 13th, 2022

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Traffic lights for self-driving vehicles

- Road self-driving vehicles are (impressively) innovating in exploring their environment

- One topic has already been solved (for decades) in railways though:
  - Provide the infrastructure route locking to the vehicle in fully safety
    Safety Integrity Level 4

  - No need for image analysis of traffic lights. Information available and communicated in real-time in a safe way using vehicle connectivity standard (V2X)
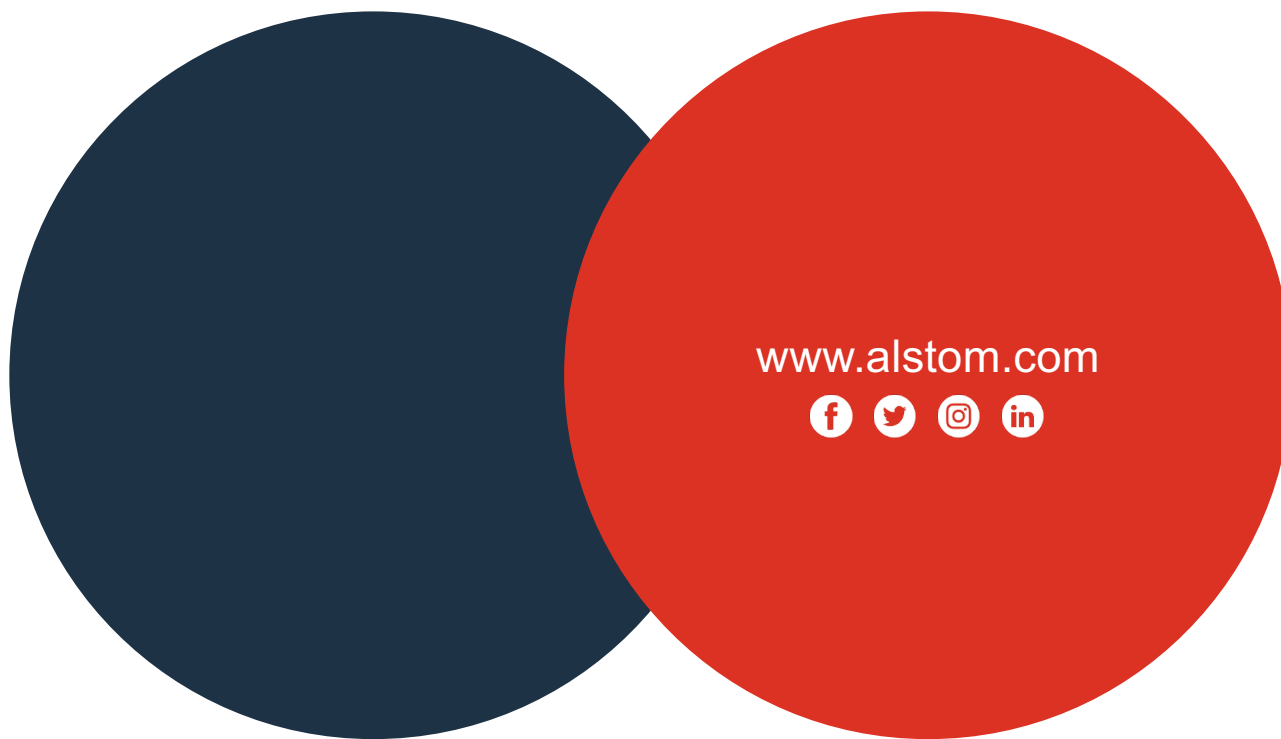
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An Alstom contribution to road traffic

Traffic Light Controller

Traffic Lights Aspects

V2X service

Alstom Roadside platform

Alstom supplied Failsafe platform (SIL4*)

Self-driving vehicle compliant to V2X

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On-going case study

- Automated shuttle service in Toulouse

- Route includes:
  - Open road with traffic lights
  - Roundabout
  - Cycle lane
  - Pedestrian and cycle crossings

- Under experimentation
  - Targeting commercial availability in 2023

Photo: EasyMile

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