

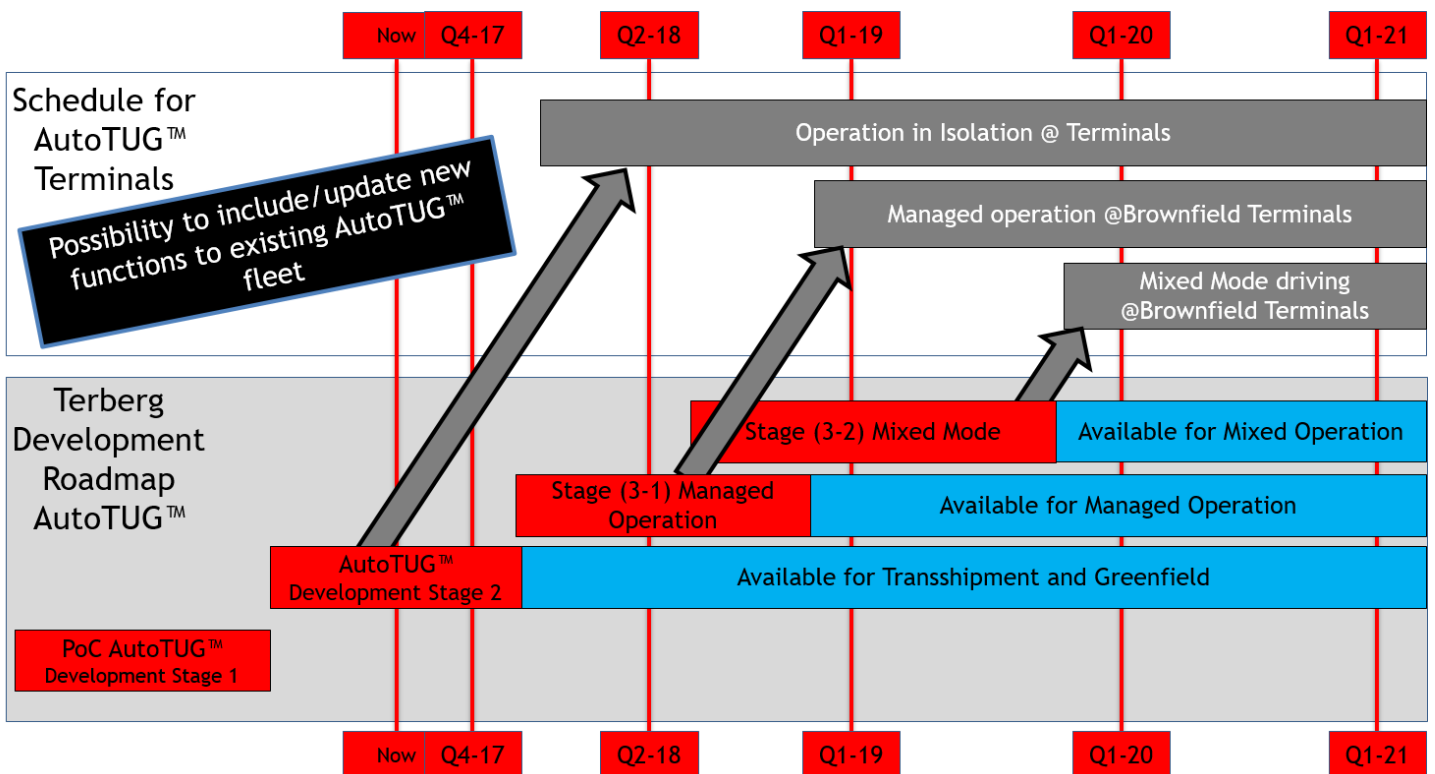
# AUTO<sup>TM</sup> TUG



Worlds first  
fully automated  
terminal tractor



# Roadmap Development



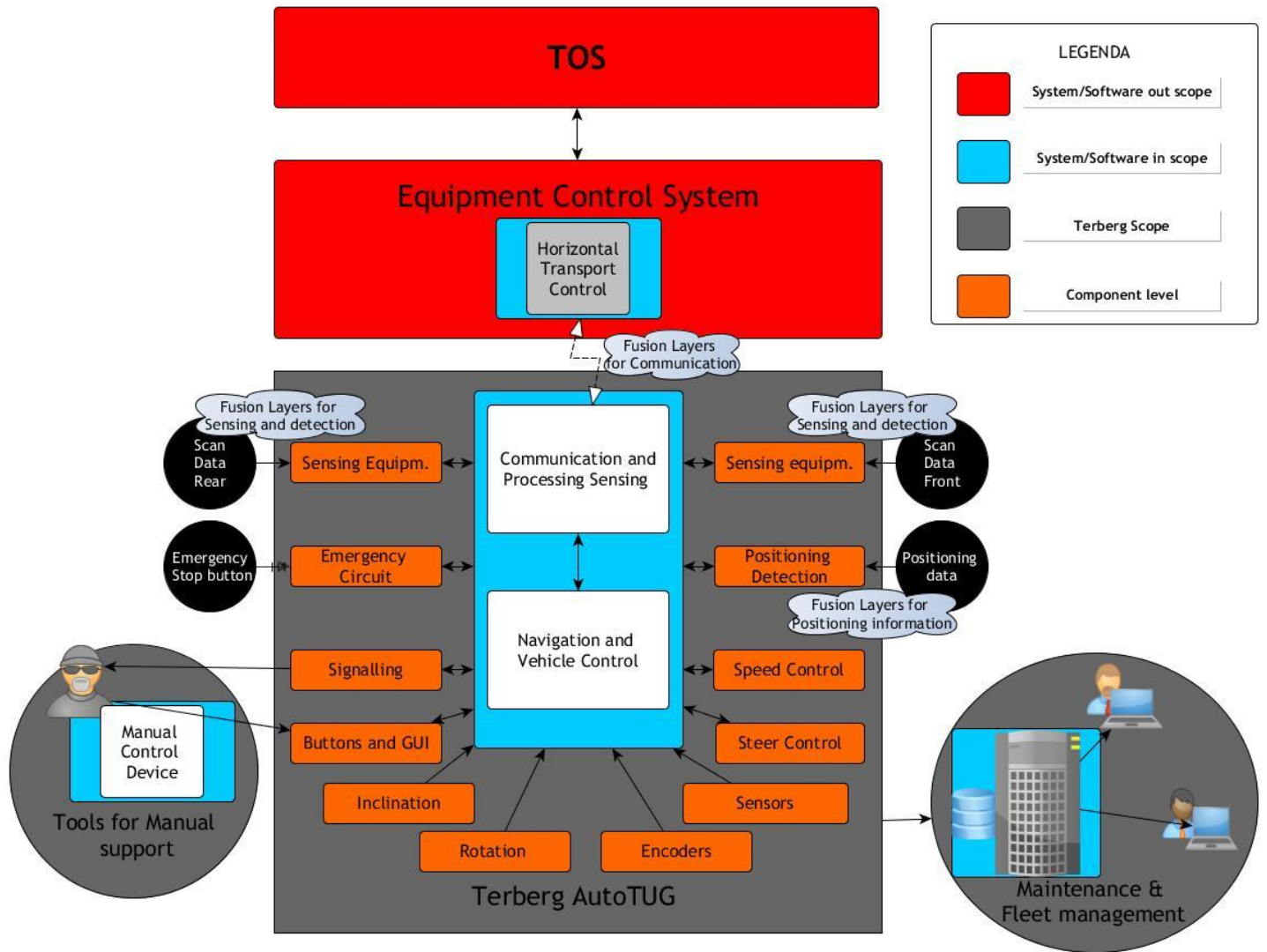
## Applications:

- Container terminals
  - \* Greenfield / Perpendicular Brownfield setup with Isolated Horizontal Transport (2017)
  - \* Brownfield mixed mode (2020)
- Distribution centers
- RoRo terminals
- Airports
- Industry

## Advantages:

- > cost-efficient:
  - \* Lowest OPEX as a result of optimized navigation software
  - \* highest availability
  - \* Competitive CAPEX
  - \* Relatively easy implementation at new and existing terminals
- > Maximum speed 25 km/h, in certain conditions even 40 km/h
- > Optional: cabin for manual operation
- > Transponders technology enables operation in harsh weather conditions
- > Low axle load: reduces implementation costs
- > Modular design with fusion layers: AutoTUG can interface with all port IT systems

# System architecture





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