



Transforming Software Development for Future Autonomous, Electrified and Connected Commercial Vehicles

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Systems Engineering Commercial Vehicles & Off-Road

Transforming Software Development Challenges in Commercial Vehicles and Off-Road

Automotive



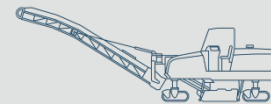
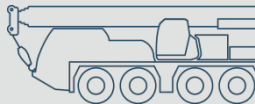
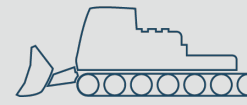
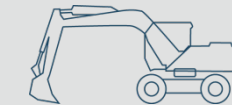
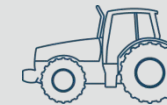
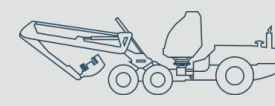
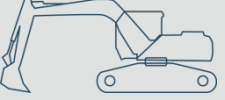
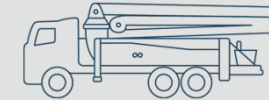
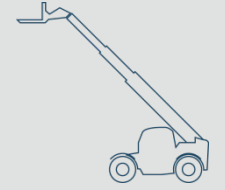
versus

- High number of applications and variants / specialized use-cases
- Many small players
- Investment good → TCO
- Product lifecycle 30 years+
- Staged assembly
- Reselling 1st, 2nd, 3rd life
- Changing area of use over life
- Long useful life 45.000 h
- High uptime requirements

common

- High innovation in automated & connected
- Cross domain value chains
- Different heart-beats across domains

CVO applications



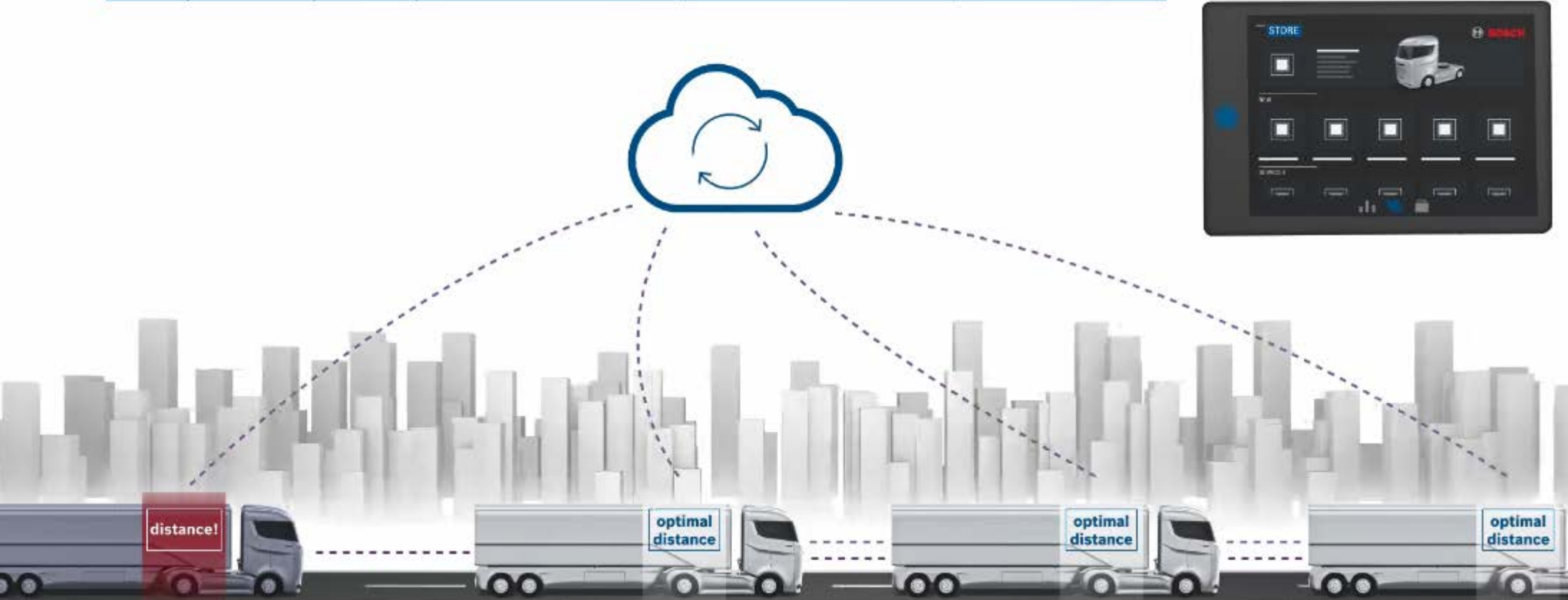
Transforming Software Development

Upgrade vehicle in use with additional innovative features



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Upgrade vehicle in use with additional innovative features



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Upgrade vehicle in use with additional innovative features



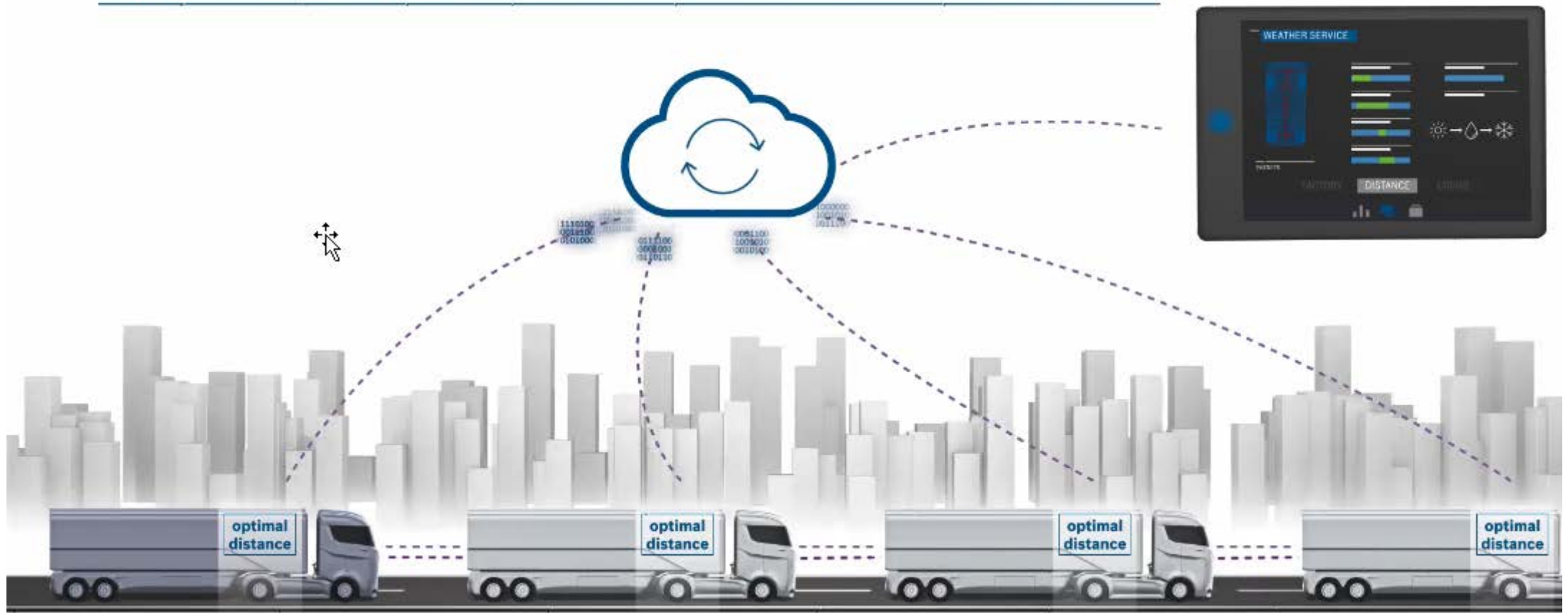
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Upgrade vehicle in use with additional innovative features



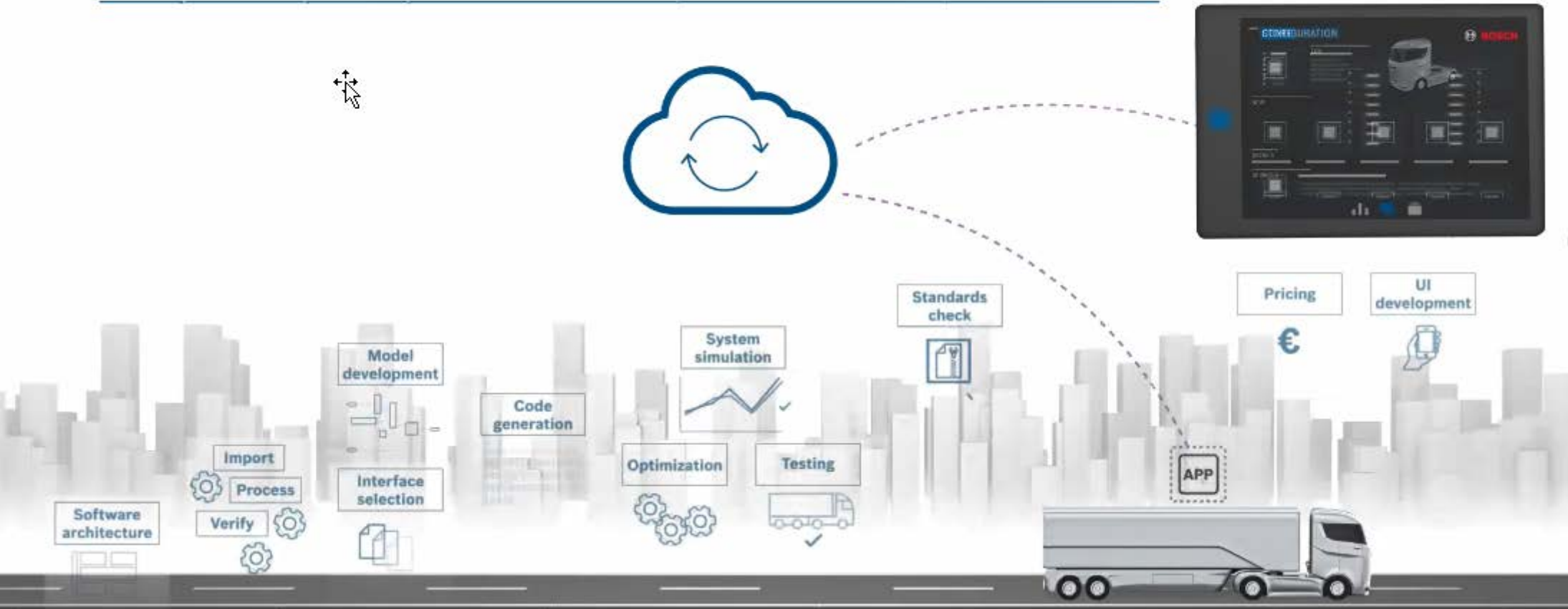
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