Autonomous Vehicle Approach
Autonomous Vehicle Trends

Collaborative approach to rapid algorithm development based on neural networks leveraging sensor fusion
Our Evolution to Autonomous Driving

• Distributed ADAS ECUs
• Classical use case programming
• Lacking algorithm developer-friendly architecture
• Non-fault tolerant
• Discrete non-scalable system

• Centralized domain controller
• Neural network technology
• Open software for algorithmic development
• Secure and fail-safe hardware
• Scalable toward L3/L4 autonomous driving
Visteon Autonomous Driving Development

Applications
- Decision making
- Path planning
- Object detection

Middleware
- Environment model
- Sensor fusion
- ADAS framework

Platform
- Base software
- Functional safety
- Hardware

OEM / 3rd party / Visteon

With neural networks

Visteon delivers supervisory system technology
Visteon Neural Networks Evolve Autonomous Driving

Neural networks deliver improved performance, reliability and time to market
Our Autonomous Driving Value Proposition

- Neural networks for classification, path planning and decision making
- Open framework works with OEM and 3rd party algorithms
- Sensor fusion and sensor agnostic
- Centralized ADAS domain controller scalable to L3/L4

Automotive-grade open platform enables rapid development