

AESIN – The Connected Corridor Journey

LOW CARBON VEHICLE EVENT 2015 10TH SEPTEMBER

MARTIN GREEN

GLOBAL PRODUCT MANAGER CONNECTIVITY
VISTEON

■ AESIN – Automotive Electronics Systems Innovation Network

- Trade association operated by the National Microelectronics Institute UK Trade Association

■ Launched in 2012

- Membership includes UK vehicle manufacturers, Tier 1 electronics manufacturers, Silicon vendors and Software companies

■ Goal & Focus

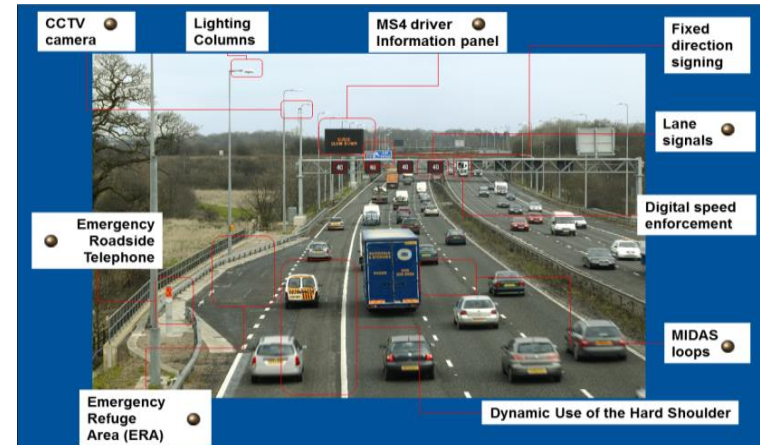
- Acceleration of innovation in electronic systems in vehicles and infrastructure within the UK
- Work streams include : Connected Vehicles, Software Quality Assurance, Automotive Security & Powertrain Electronics

■ Alliances

- AESIN works alongside associations such as the UK Automotive Council & collaborates with the UK Electronics Systems Community to provide specialist insight from the automotive electronics sector

What is the problem?

- **Can virtual and digital information be sent directly into the vehicles ?**
 - Reducing the need for more physical communication and guidance (signs)
 - Reducing the necessary cost of road side infrastructure and road closures for install and servicing
- **Can the communication technology (LTE, DSRC, Wi-Fi)**
 - Support the future need for higher integrity communication, in support of semi & autonomous vehicles ?
 - Support convenience services where appropriate ?
- **Is it technically & financially feasible ?**
 - Before any major installation - Will the technology solution work ?
 - Can a business case be built around the interested stakeholders



Who are the stake holders?

■ The Vehicle Manufactures & Suppliers

- Providing features and functions customers value
- Choosing the right technology aligned with industry standards
- Service, Quality & Brand perception



■ The Owner (Car and Phone)

- Improved predictability of travel
- Value for money & Safety
- Services & Seamless Connectivity



■ Highways Authorities

- A Safe & Effective infrastructure service per £ of investment
- Informed Drivers without distraction
- Road map to autonomous vehicles

■ Comms. and Infrastructure Providers

- Providing connected services to our customers (via Car and Phone)
- Recovering the investment in spectrum and infrastructure

Connected & Autonomous vehicles are in a very complex relationship
Any business case has to address needs of all the stake holders & eco-system

▪ Vehicle Park

- The project has to take into account the technology installed in the existing vehicle park within the UK
- Near term this could predominantly be the mobile phone and solutions that transfer this information to the driver in a safe manner

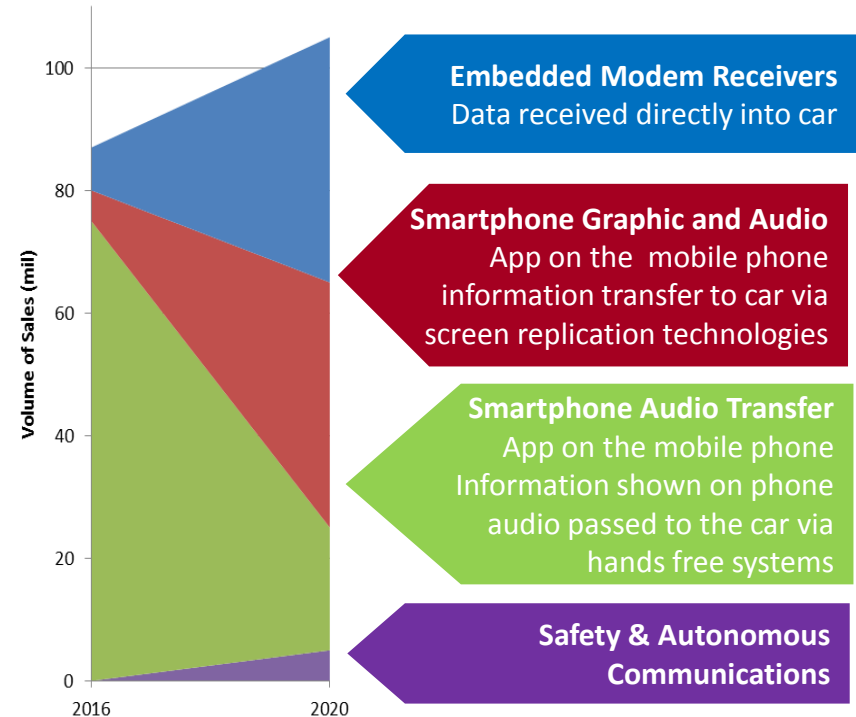
▪ Next Generation technology

- The project will also look at the next generation technology (DSRC and LTE VDC) for use with Semi and Autonomous vehicles
- Will re-use “apps” developed for the mobile phone space but in vehicle

▪ Security & Driver Distraction

- Will be a key focus area of the project with goal to provide best practice guidelines

Global Vehicle Connectivity Installations



What next ?

- **Time Scales 3 Year+ project with stages of test**

- Ongoing liaison with DfT (project lead) to ensure industry involvement
- DfT led feasibility studies underway
- Formal Press Release and Industry Information Day to follow

- **Participation**

- The project is shared between AESIN members, Industry Consortium and Highways Authorities
- The project will develop a pilot environment within the UK which will enable a wider participation



Thank You