

Northern Automotive Alliance



The Opportunities in the Automotive Industry for Northern Companies

Carol Holden OBE CEng, FIMechE

What is the NAA?



- The NAA provides a community for all automotive-related businesses in the North West, Yorkshire & Humber
- It purely focuses on the automotive sector, with a wealth of contacts and knowledge



What do we do?

automotive
Alliance

- Focused networking
- Knowledge Transfer
- Collaboration



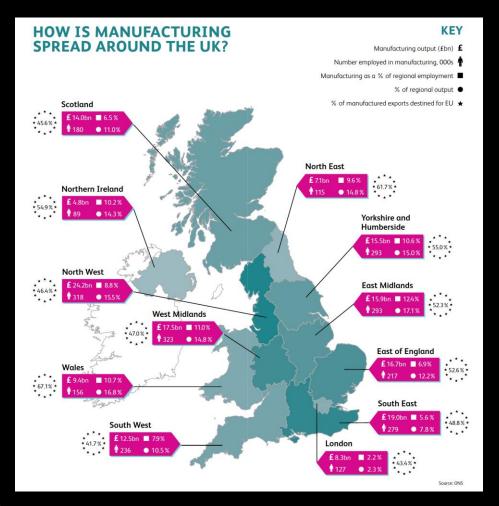








• NW: UK largest manufacturing output £24.2bn, 318,000 jobs



Why the North?



• NW Automotive £2,622m GVA, 2nd region in UK (ONS 2014 figures)





automotive

- 6 major vehicle manufacturers
- 5 niche vehicle manufacturers
- Over 20 global top 100 automotive T1s
- Specialist SMEs linked to commercial vehicles, engines & textile legacy





Who needs to be ready?



- In or outside of the sector
- Micro to multinational
- Local public sector
- Universities
- Trade & support organisations
- Consultancies





Readiness



- Professional image
- Professionalism
- USP/core competencies
- Automotive language
- Business development



National Assets







At the forefront of energy transformation



MERIDIAN
MOBILITY TECHNOLOGY
Accelerating intelligent mobility through collaboration worldwide



Utilising local national assets













SENSORCITY

Making the future happen

VIRTUAL ENGINEERING CENTRE



Electric vehicles & the grid

- Electric machines
- Power electronics
- Volume
- Niche vehicle
- Charging systems
- Electrical infrastructure
- Smart charging





Batteries

- Faraday Challenge
- UK Battery Industrialisation Centre





Lightweighting

- Lightweight components
- Low to high volume components
- Composites
- Metals: aluminium, titanium, magnesium
- Advanced design techniques







Engines

- Improved exhaust aftertreatment
- Alternative fuel engines
- Hydrogen
- Biofuels







Connected & Autonomous Vehicles

- UAV
- Software, gaming
- Processors, sensor
- Data management
- Infomedia systems
- Built environment impact
- Mobility





Vehicle Systems

- Vehicle system integration
- Test services
- New modes of vehicle operation
- Formula E
- New entrants who is going to be the UK 'Tesla'







- How can the NAA help you?
- National Automotive Infrastructure introductions
- Awareness: industry & key activities
- Assets: local infrastructure programme introductions
- Collaboration: development support
- Access to companies
- Road-mapping: Technology & growth
- Expert: Contract, project & technical project management
- Support: Where & how to find





What does the North need?

- Local, joined-up approach for the Northern low carbon vehicle industry – vision, strategy
- Automotive recognition for our research & national assets
- Funding & support mechanisms that make sense for a diverse, geographically spread community





Northern Automotive Alliance



Carol Holden OBE CEng, FIMechE

CONTACT DETAILS:

Carol.holden@northernautoalliance.com

07710 658601