The North East Automotive Alliance

Supporting the sustainable economic growth and competitiveness of the NE automotive sector

Paul Butler, CEO, NEAA



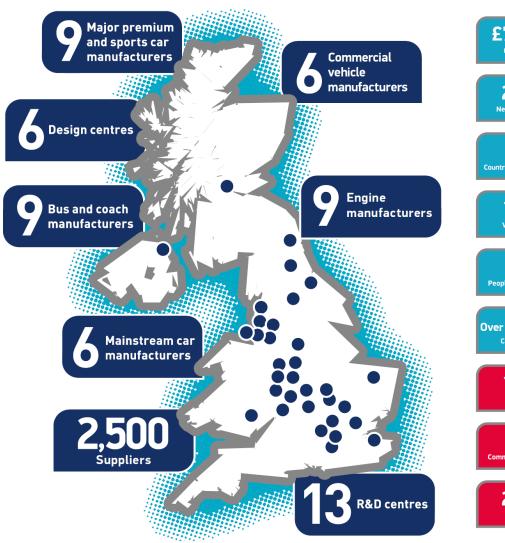


AGENDA:

- The UK automotive sector
 - Economic importance
 - Key drivers
 - Sector growth
 - Localisation
 - Technology revolution
 - Sector deal
- The NE automotive sector
 - Contribution to the NE economy
 - Areas of specialism in the NE
 - Significant recent investments & sector growth
 - Challenges the sector faces
 - Future developments in the sector, particularly the opportunities for the NE



The UK automotive sector



£77.5 billion

UK automotive turnover

2,692,237New cars registered in 2016

160 Countries importing UK-built vehicles

1,354,216Vehicles exported in 2016

814,000
People employed across UK Auto

Over **34.4 million**Cars currently on UK roads

1,722,698
Cars built in 2016

93,924
Commercial vehicles built in 2016

2,545,608
Engines built in 2016

Government support for the sector is strong



Innovate UK













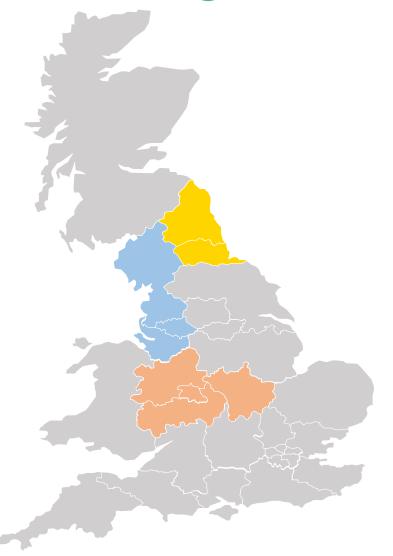








Passenger vehicle production



	Manufacturer	Location		Production)	Current Production Models
			2014	2015	2016	
1	JAGUAR LANDROVER	Halewood, Solihull, Castle Bromwich, Coventry	393,000	505,000	544,000	All
2	NISSAN	Sunderland	500,000	477,000	507,000	Qashqai, Juke, Leaf Infiniti Q30 8 QX30
3	O	Oxford	179,000	201,000	211,000	All Mini except Countryman
4		Burnaston	172,000	190,000	180,000	Avensis, Auris, Auris Hybrid
5		Swindon	122,000	119,000	134,000	5-door Civic
6	<u>GM</u>	Ellesmere Port	78,000	85,000	118,000	Astra
7	BENTLEY	Crewe	10,600	10,700	11,700	All
8	ROYCE	Goodwood	4,400	3,700	4,100	All
9	TOTAL WITH	Gaydon	4,000	3,200	3,700	New factory in Wales
10		Hethel	1,500	1,700	1,300	All
11	McLaren	Woking	1,800	1,400	3,200	All
12		Coventry	1,400	1,200	1,300	New £300m factory
			1.5m	1.6m	1.7m	

Midlands - 35% North East - 30% North West - 16%











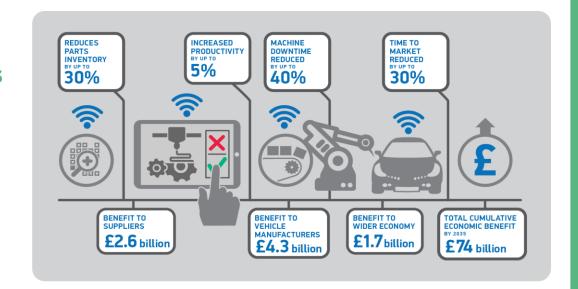
£6bn UK Tier 1 & 2 supply chain opportunity

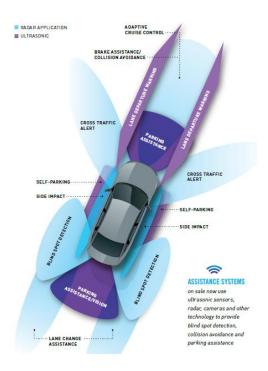


Technology revolution

Manufacturing Processes

- Mass customisation
- Shorter lead times
- Automation
- 4iR





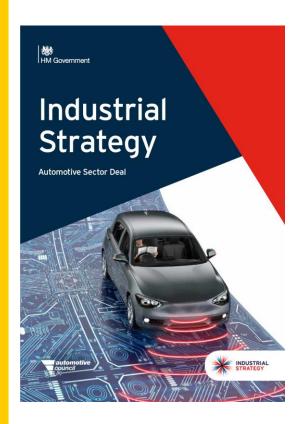
On Vehicle

- Light weighting & advanced materials
- Driver assists
- Advanced propulsion EV & hydrogen
- Connected and autonomous vehicles,
- Infotainment
- Codaholics
- Integrated mobility





Sector deal – the 1st of several



- Demonstrates sectors strategic importance to UK PLC
 - Sets clear priorities and complements work activities of the AC
 - Building on test facilities in the UK
 - Supply chain competitiveness programme
 - Funding announced
 - £1bn Advanced Propulsion Centre
 - £450m Automotive R&D (2023 onwards)
 - £400m EV Charging Infrastructure
 - £250m CAV
 - £246m Faraday Challenge
 - £100m Plug In Car Grants
 - £40m NPIF R&D on-street wireless charging
 - £16m NMCL Supply Chain programme







The North East Automotive Sector

The North East automotive sector

A globally significant region

Nissan, Sunderland – the UK's largest and most productive car plant

- 30% of all UK passenger vehicles
- 20% of all EV production across Europe
- Other OEMs Komatsu, Caterpillar, Cummins & Erwin Hymer
- World-class supply chain 28 Tier 1's and over 200 tier 2 and below
- Europe's largest battery facility
- Regional strengths in
 - Manufacturing
 - Injection Moulding
 - Emerging technologies EV (inc battery), CAV, PE and EM (APC Spoke)
- Home to the UK's largest automotive cluster, the NEAA.
- £11bn sales and 30,000 direct employees







NE Investment



Vantec



Expert



Gestamp R&D



Unipres



MMUK



Calsonic Kansei



Lear



TRW





ElringKlinger



Novares

Future growth and expansion

• Turnover exceeding £14bn

2019

• Employment exceeding 33,000



1986





Challenges

- Skills
- Brexit
- Step change in production volumes & transition to LCV
- Increased complexity and high levels of customisation
- Industrial digitalisation
- New technology and market entrants
- Regional competitiveness is being eroded due to global best practice sharing
- Limited access to the UK manufacturing innovation eco system
- Overcoming barriers to innovation
 - Increased competition for company investment
 - Proving to industry standards
- Changing public sector framework IS, ISCF, Sector Deal, LIS AUTOMO





Launched in 27th March 2015 Not-for-profit industry led cluster



Industry Leadership

Executive Board

Mike Mathews

Paul Butler

Martin Porton

Matt Boyle

Kevin Fitzpatrick Nissan & NEAA Chair

Nifco & NEAA Vice Chair

NEAA CEO

RTC & NEAA Comp Sec

Chair of Skills WG

Peter Watson Stephen Irish Peter Howe

Irene Lucas

Kasai, Chair of BEG

Hyperdrive

Komatsu

Sunderland City Council

Advisory Board





































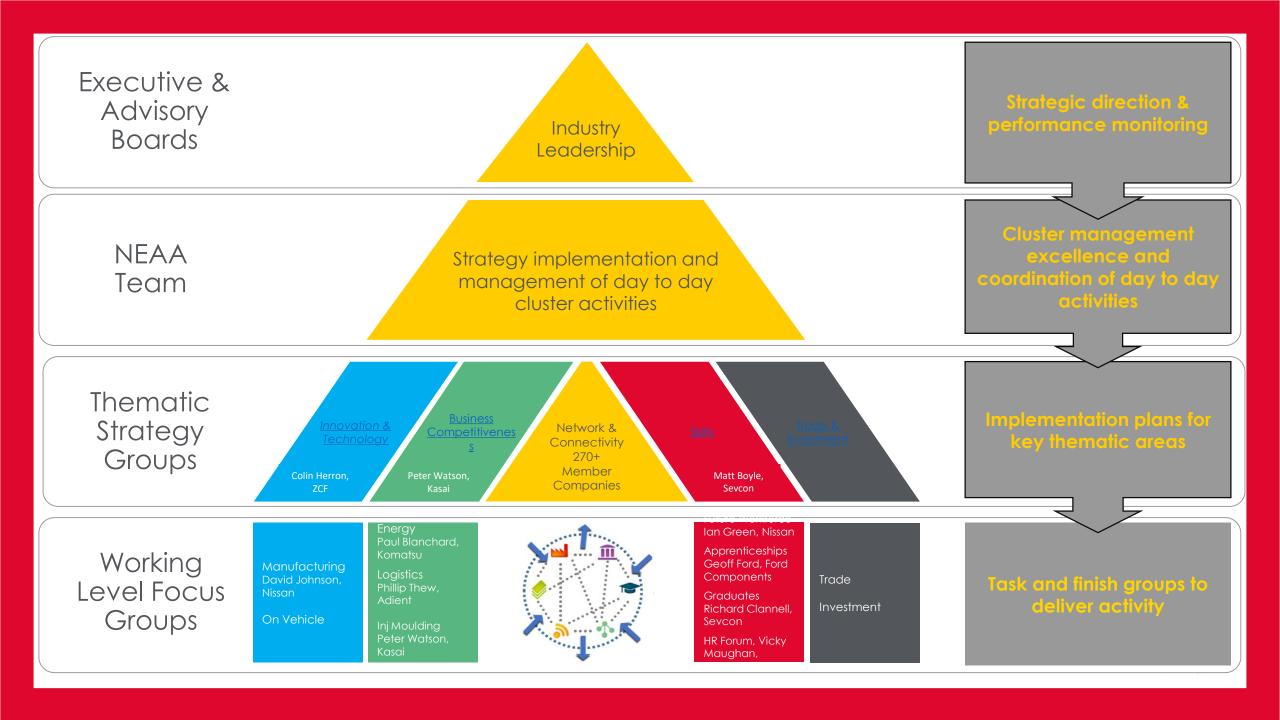












The Largest Automotive Cluster in the UK













































































KATMEX LTD











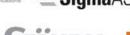






















D&S Services











































































SLALEY HALL







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South Tyneside Council



northumbria

































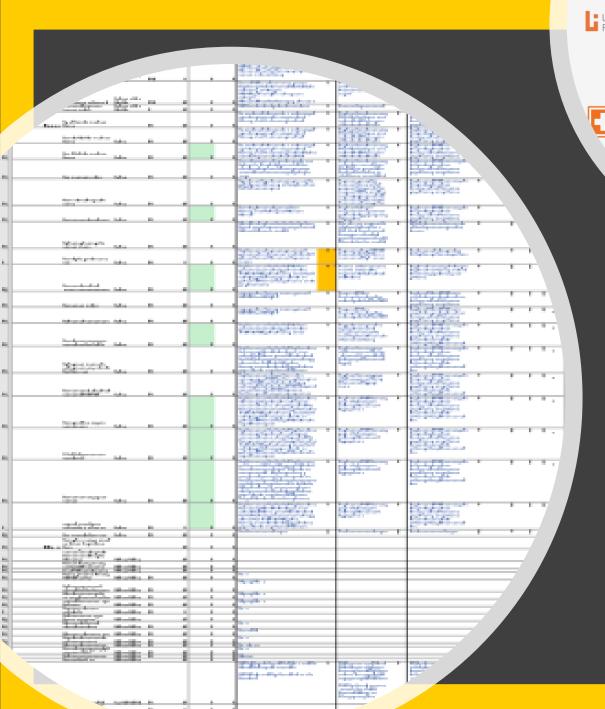




Opportunities

- Build upon the regional strength as a global CofE for automotive manufacturing
 - IAMP once in a lifetime opportunity
 - Increased UK content & further supply chain opportunities (localisation)
 - Increased exports
 - Capitalise upon the industrial digitalisation opportunity to put the NE at the forefront of manufacturing technology – supporting the sector and building cluster strength and broadening capability
 - Build upon NE strengths in battery, PE, EM, CAV and infotainment attract more R&D and new companies into the sector
 - Develop our NE testing infrastructure
 - NMUK test track
 - 5G
 - Attract national assets Millbrook/Mira
- Supply chain development broaden and strengthen regional capability
 (The above would develop the NE into a globally significant automotive region)
- Improve productivity in other manufacturing sectors through transfer of automotive manufacturing methodologies







Innovation studies



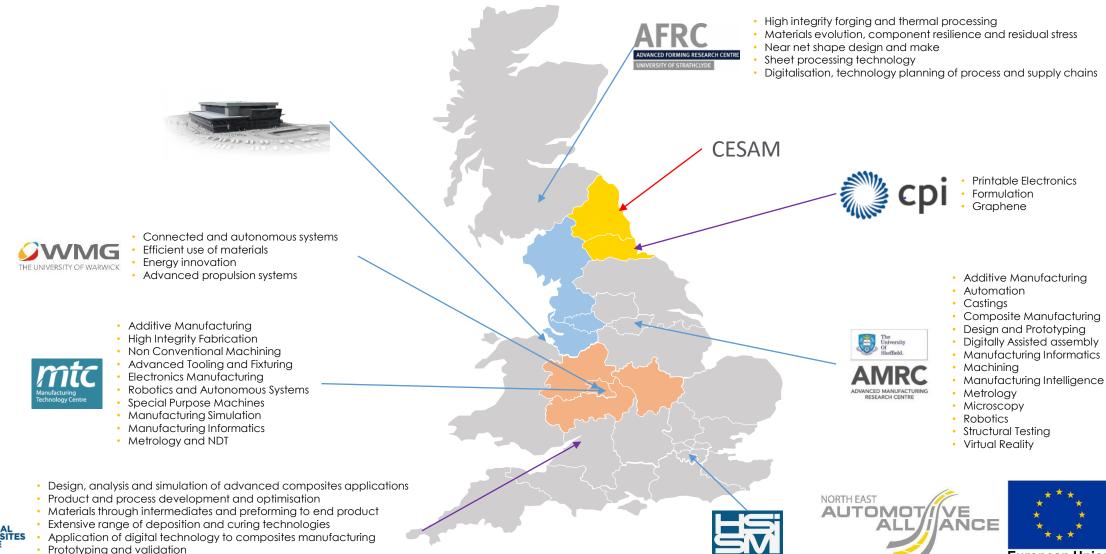


What is CESAM?

An advanced manufacturing innovation centre that provides a framework for manufacturing innovation in the NE which:

- Provides a regional hub to link NE companies to national Centres of Excellence and leading edge research – short, medium and long-term
- Enables companies to innovate at lower TRL's
- Provides economies of scale which is attractive to both public and private sector funding
- Filtering innovative opportunities/ideas/solutions
- Industrialising innovative techniques and technologies ensuring they are tested and demonstrated to industry standards in real production facility
- Provides cross-sector dissemination to accelerate adoption and maximise competitive advantage
- Supporting scale up of new the automotive supply chain
- Provides sustainable competitive advantage for NE companies which is difficult for competing plants to replicate
- Builds on the NEAA cluster by attracting new solution providers to establish NE operations to support
 CESAM activities

Linking to the UK Manufacturing Innovation Eco System



European Union

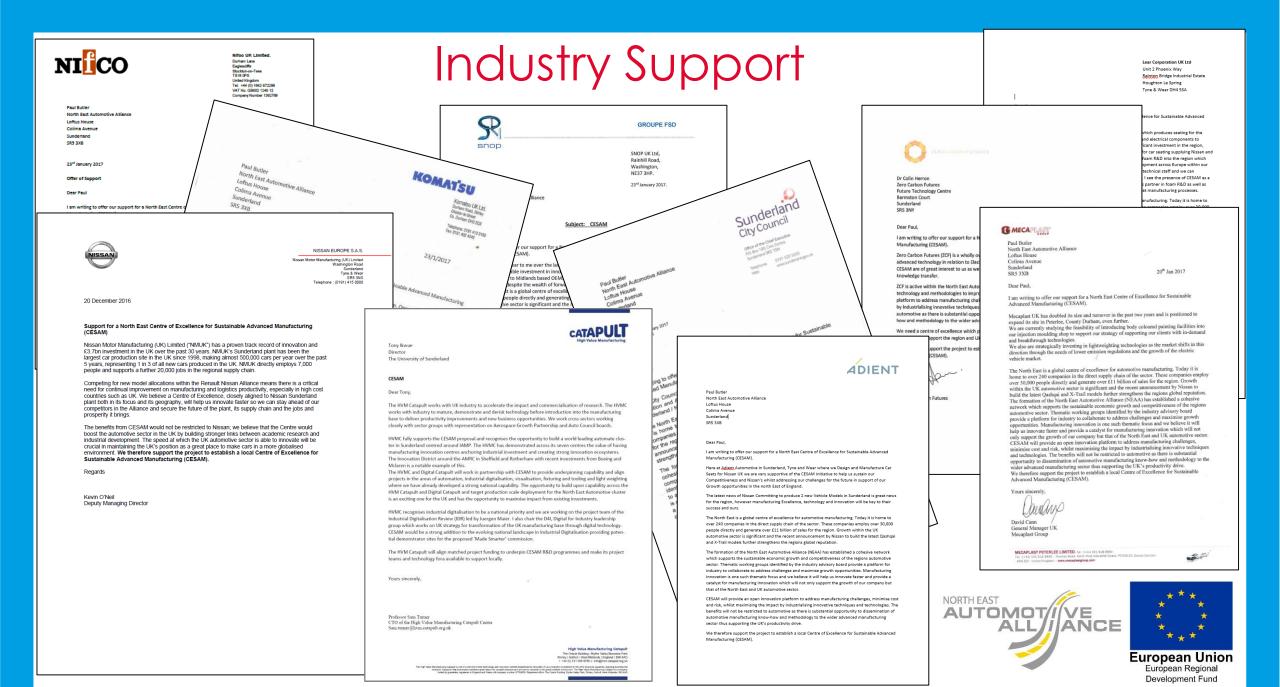
European Regional

Development Fund



· Manufacturing, inspection and testing

Collaborative and confidential working environments

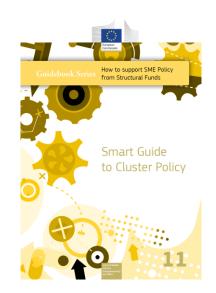


EU Support

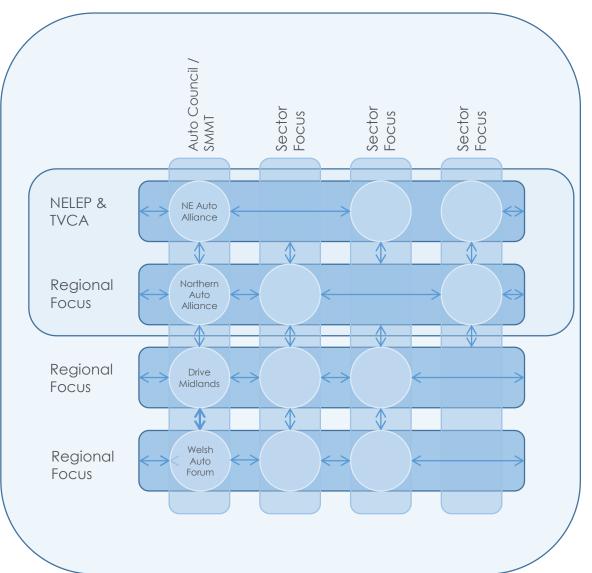
- Cluster Collaboration
- Cluster Excellence
- Policy







How Clusters Support the UK Eco System



National Government / Industrial Strategy

- National framework
- Addressing national strategic issues and opportunities
- Improve living standards and economic growth

Sector Deals & National Sector Bodies

- Setting out national sector strategies to deliver against Industrial Strategy
- Addressing key strategic issues facing specific industrial sectors at a national level

Northern Powerhouse

- Delivering the Northern Powerhouse strategy to unleash the full potential of the North

Local Industrial Strategy – LEPs

- Developed locally and agreed with the government
- Identify priorities to improve skills, increase innovation and enhance infrastructure and business growth
- Will guide the use of local funding streams and any spending from national schemes

Cluster Focus – Regional Industrial Clusters

- Developing and delivering cluster strategy against the above
- Prioritising what against industry needs
- Linking national sector and regional activities to provide more co-ordinated support for companies

AUTOMOT/I/VE

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