



North East Automotive Alliance

BRONZE

Cluster Management Excellence

STRIVING FOR CLUSTER EXCELLENCE

Automotive Sector Growth

UK

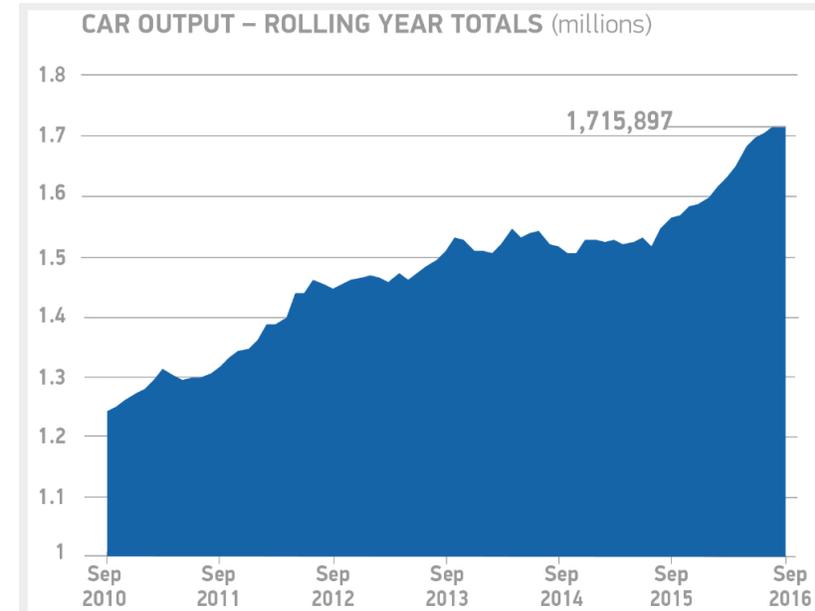
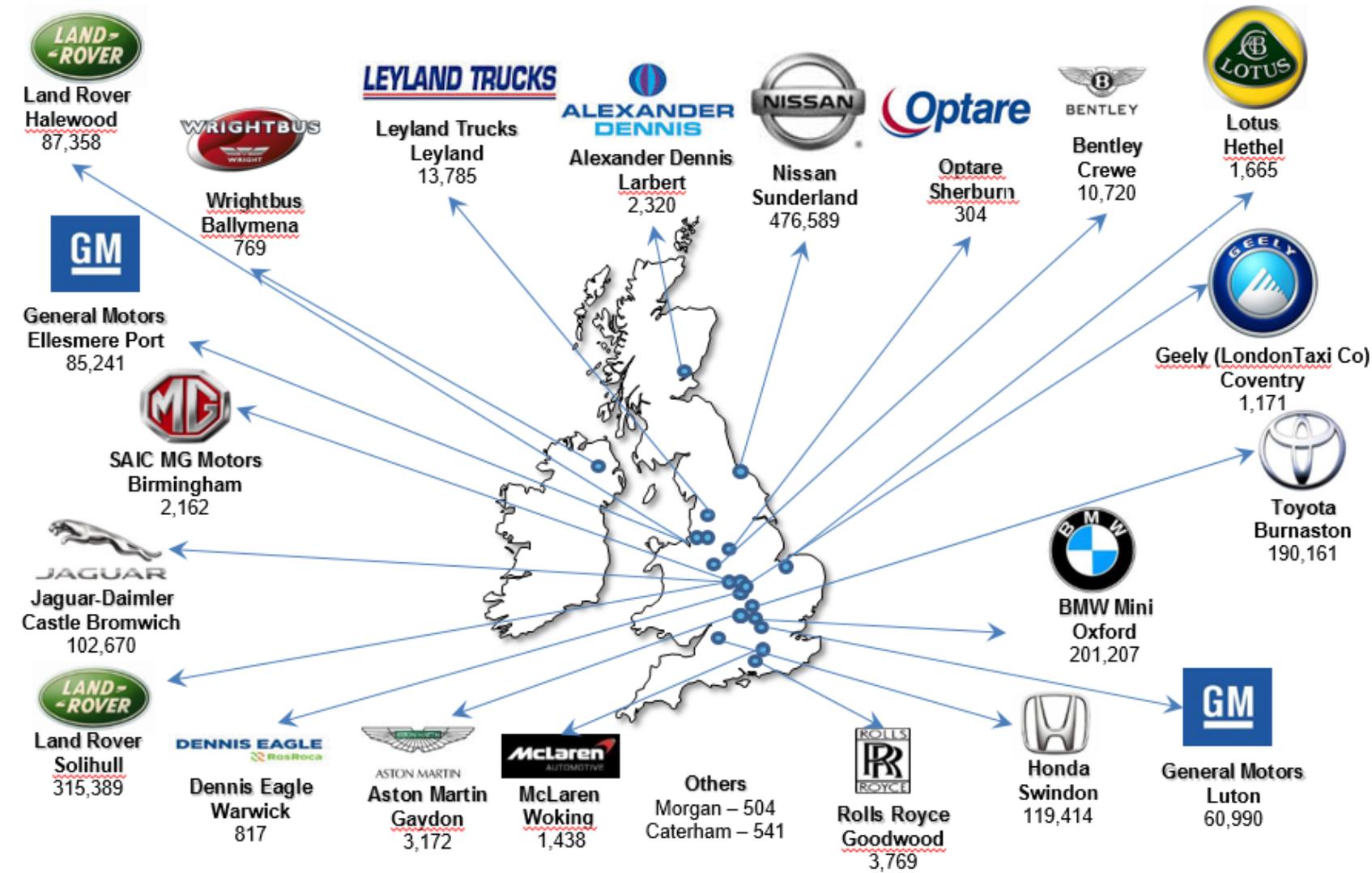
- £71.4bn turnover
- 950,000 direct jobs
- £15bn invested since 2012
- Production for passenger vehicles set to hit 2 million by 2020
- Desire to increase local content to a comparable level to Germany ~ 60%
- £6 billion tier 1 and tier 2 supply chain opportunity

North East

- Nissan
 - a world class manufacturing plant account for 1/3rd of UK automotive sector
 - Nissan Renault Alliance – potential to supply 2.6 million vehicles
 - Nissan Qashqai & X-Trail Announcement
 - 11th January 2017 – UK's largest sourcing event took place in Sunderland
- Off-highway sector with OEMs such as Komatsu, Caterpillar & Cummins
- Tier 1 Supplier expanding



Vehicle Plant Locations & Output 2015



- 1.7m vehicles
- 2/3rds by Nissan and JLR
- ↑ to 2m by 2018/19



£6bn Tier 1 & 2 Supply Chain Opportunity

Component	Opportunity value (£m)	Component	Opportunity value (£m)
Engine castings	550	Hinges	105
Steering systems	330	12V Lead/Acid Battery	90
Trim	255	Cast aluminium sub-frames	90
Engine forgings	255	Brakes	80
Pressings and hot stampings	240	Drive shafts	80
Seat components	225	Fuel tanks	75
Alloy wheels	210	Engine accessories	75
Lighting	210	HVAC assemblies	75
Electronics	170	Misc. (pedals, mirrors etc.)	60
Plastic mouldings	150	Shock absorbers	60
Entertainment & navigation	135	Oil pans	30
Bearings	120	Premium finish	50
Instrument Clusters	120	Weather strips	50
Glass	110	Switchgear	30
		Other *	520

Source: Automotive Investment Organisation (AIO)

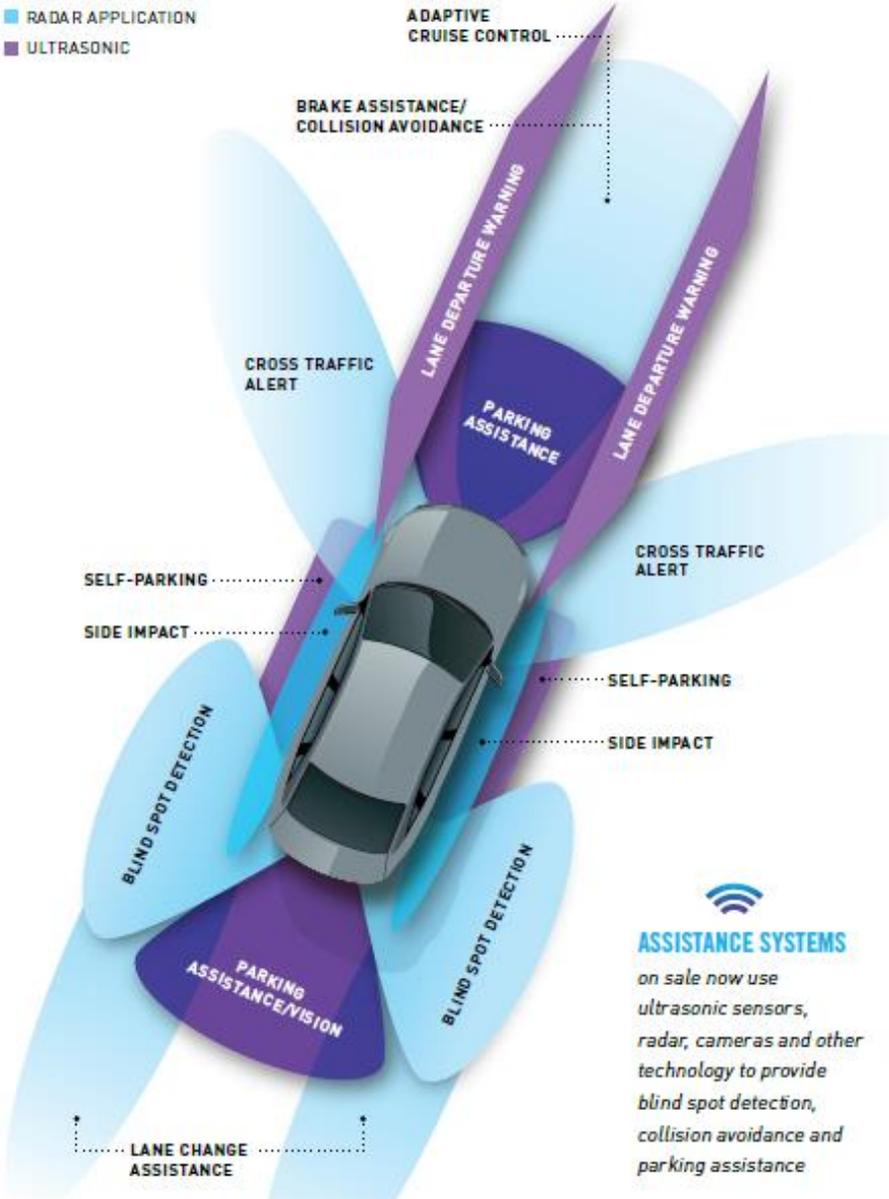


The Automotive Technology Revolution

“Almost half of the world’s top 20 “Most Innovative Companies” are automakers. In fact, for the first time this year’s (2014) top 20 list included more automobile manufacturers than technology companies. “

The Boston Consulting Group (BCG)

- Robotics, inc collaborative robots
- Light weighting & advanced materials
- Driver assists
- Advanced propulsion – EV & hydrogen
- Connected and autonomous vehicles, inc cyber-security
- Infotainment
- Mass customisation – expanded model choice & personalisation
- Codaholics
- Changing consumer use - modal integration & ride sharing



NMUK 30 years in Sunderland

1986



2016



- 8.5m cars since the launch
- Invested £3.85bn
- Accounts for 1/3rd of all UK car production
- Exports to more than 130 markets



NE Growth & Expansion



TRW



Vantec



Calsonic Kansei



Expert Tooling



Unipress



Lear



Gestamp



AV Dawson



Elring Klinger



Nifco



Mecaplast

Automotive Council stated investment in the UK automotive sector over the next 5 years will be £20bn



Industry Leadership

Executive Board

Kevin Fitzpatrick	Nissan & NEAA Chair	Peter Watson	RTEK, Chair of BEG
Mike Mathews	Nifco & NEAA Vice Chair	Stephen Irish	Hyperdrive
Paul Butler	NEAA CEO	Peter Howe	Komatsu
Martin Porton	RTC & NEAA Comp Sec	Simon Elliot	Independent Director
Matt Boyle	Sevcon, Chair of Skills WG	Irene Lucas	Sunderland City Council

Advisory Board



Executive & Advisory Boards

Vision & Mission

Industry Leadership
Strategy Development
Implementation
Performance Monitoring

NEAA Team

Strategy implementation and management of day to day cluster activities

Cluster Management Excellence – providing the framework conditions for success

Thematic Strategy Groups

Innovation & Technology

Business Competitiveness

Network

Skills

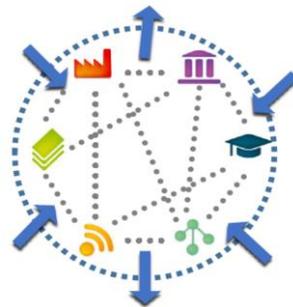
Trade & Investment

Co-ordination of activities which have mutual benefit - **Economic Sustainable Growth**

Working Level Focus Groups

Manufacturing
On Vehicle

Energy
Logistics
Services
TPM



Future Workforce
Apprenticeships
Graduates
HR Forum

Trade
Investment

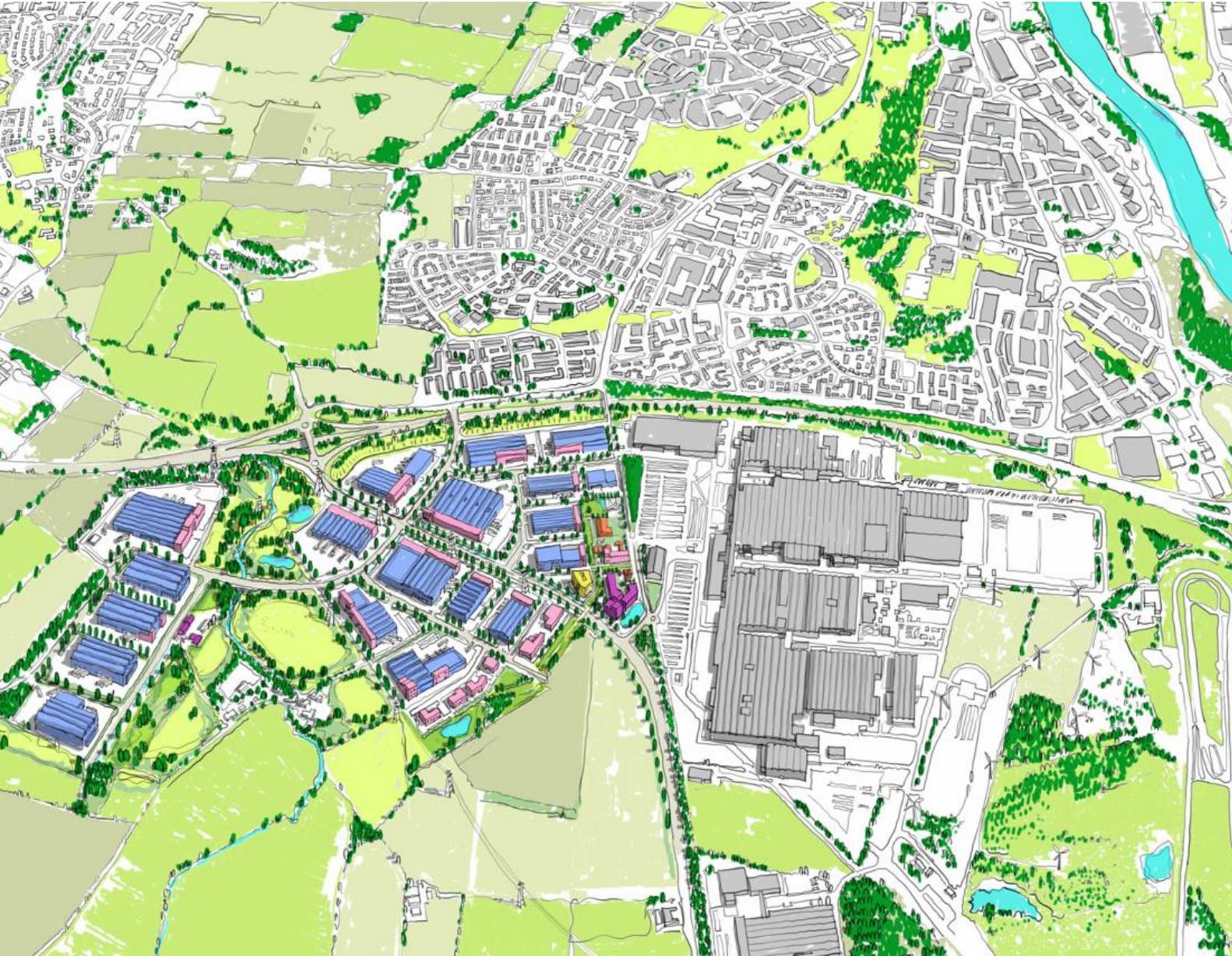
Collaborative working

- Understand current conditions
- Gap analysis
- Identify actions
- Implement
- Confirm effectiveness

208 Cluster Participants



Stage 1: World Class Infrastructure



International Advanced Manufacturing Park

- Enterprise Zone status
- 100 hectare site
- 260,000m² developable floor space
- Excellent links to the A19 and A1
- Ready for development in 2019

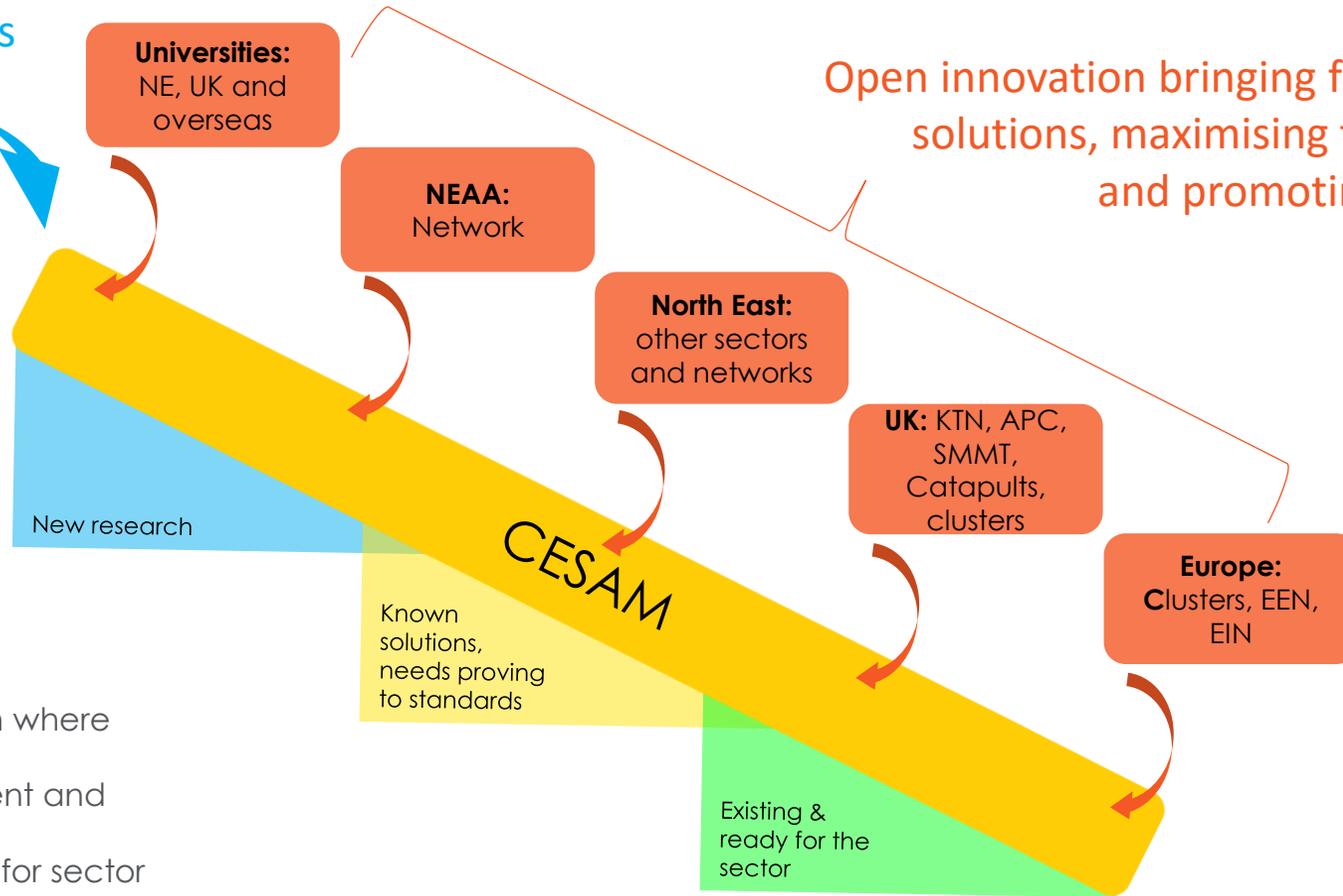
Ideally placed location to support Nissan, UK and European markets

A once in a lifetime opportunity!!!



Stage 2: Open Innovation

Industry challenges



CESAM

- Review industry challenges (synergies)
- Assess TRL level and funding landscape
- Anonymise and disseminate project
- Review applications and form collaboration where appropriate
- Responsibility for overall project management and funding application (when applicable)
- Assessment of project output and suitability for sector
- Dissemination of learning

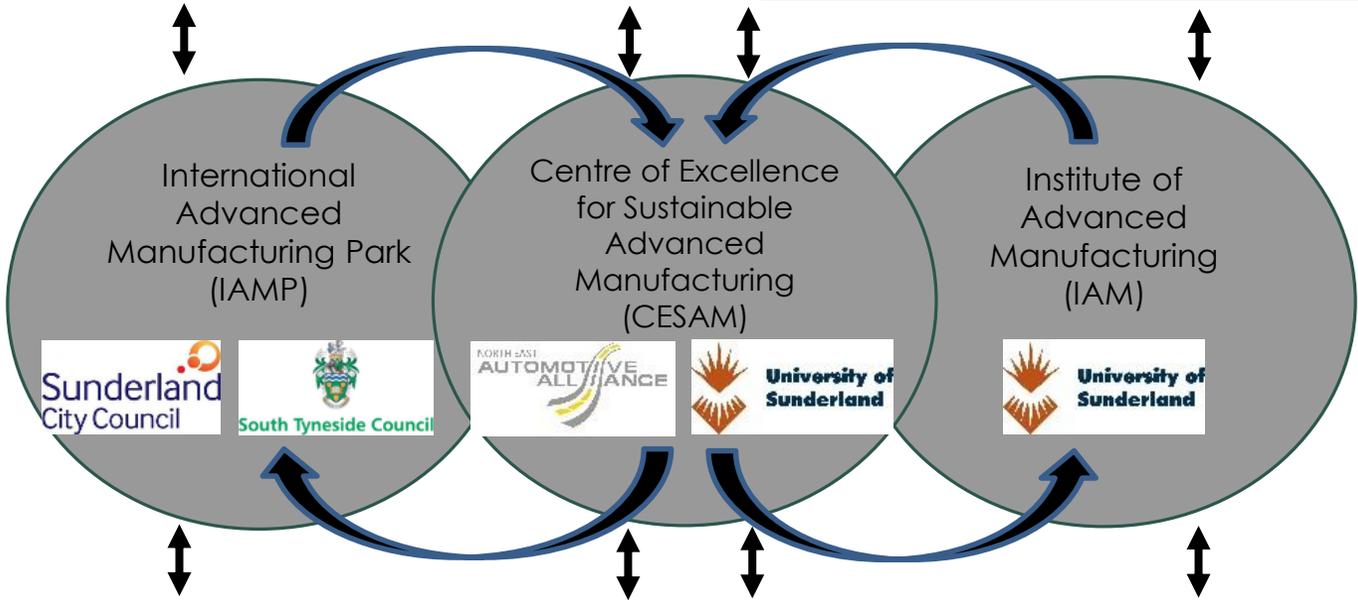


Skills Sustainability

- Schools - STEM & Sector Promotion in Schools
- Colleges & Universities - Industry led curriculum
- Current Workforce - Agile workforce, fit for the future
- Skills Base - Agile System to Underpin Growth

Environmental Sustainability

- Own or Shared Generation
- Energy & Water Efficiency
- Reduction in Raw Material Consumption
- Reduced Logistics & More EVs



Sustainable Advanced Manufacturing

Manufacturing Sustainability

- R&D & Innovation Acceleration
- Productivity Breakthrough & Transfer of Best Practice
- Factory of the Future
- Supply Chain Responsiveness - Customisation

Economic Sustainability

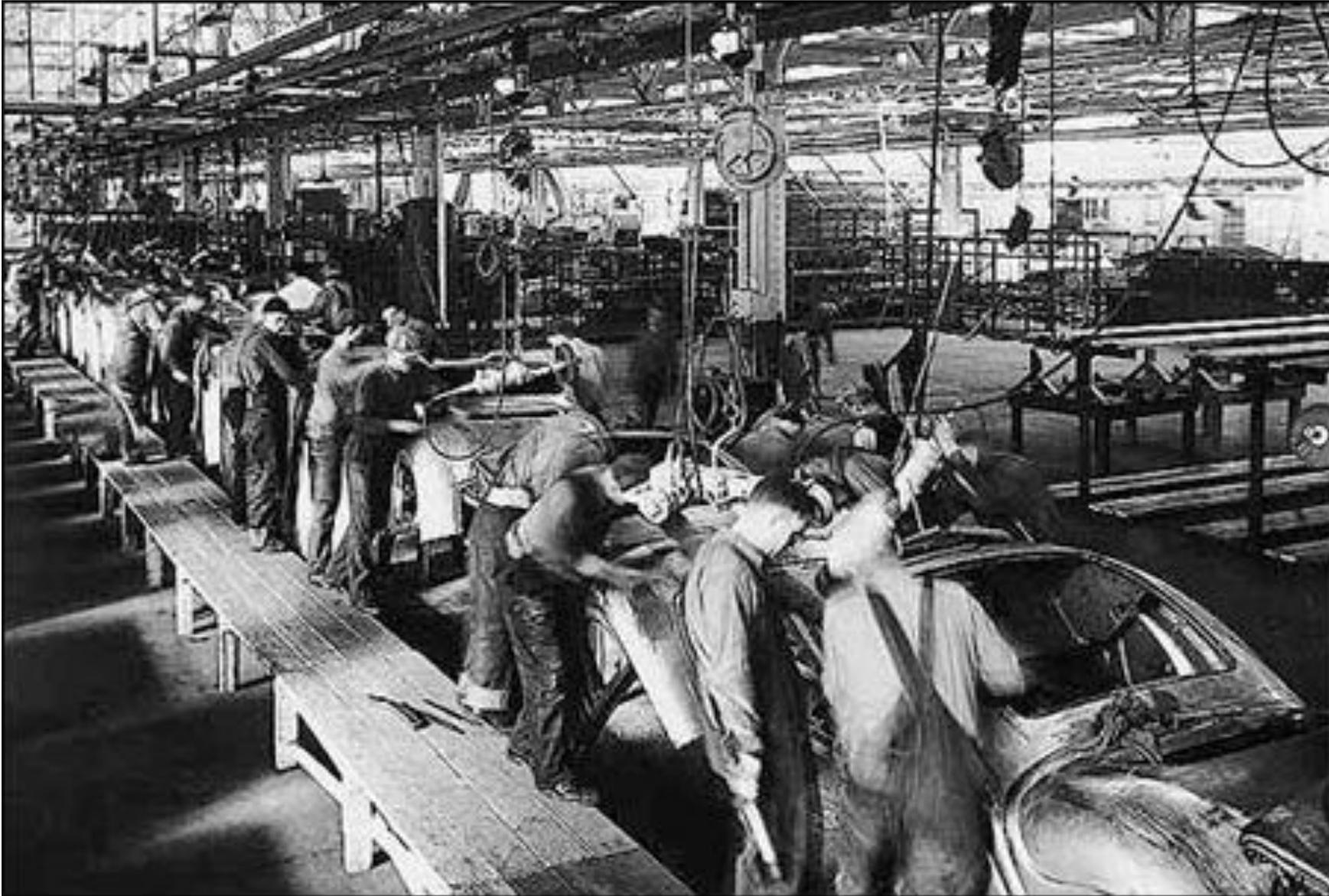
- Anchoring Companies & Attracting Investment
- Improved Supply Chain Competitiveness
- Increased UK / Local Content
- 5,200 Jobs Created - Average GVA £94,500



Highly Skilled but Ageing Workforce



Industry Perception



VE
ANCE



European Union
European Regional
Development Fund

The Reality....



NEAA Website/ CRM

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North East Automotive Alliance

Supporting the North East's Automotive Industry

Small to Medium Sized Enterprise Supply Chain Management

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North East Automotive Alliance Westminster launch unveils new Innovation and Technology Group to UK automotive industry

October 30, 2015 9:16 AM

The North East Automotive Alliance (NEAA), which is part-funded by the European Regional Development Fund, unveiled its new Innovation and Technology Group at a special Westminster launch event to showcase the strength of the region's automotive industry this week.

Poll

[Poll Archives](#)

What problems do you experience in your manufacturing process?

- Performance KPI's
- Skills & training
- Supplier performance