Automotive Electronic Systems

Dr Derek Boyd
CEO

About NMI

NMI is the trade association representing the UK Semiconductor, Microelectronics and Electronic Systems Communities.

Our objective is to aid the development of a sustainable, World-class industry by building a strong network and acting as a catalyst and facilitator for commercial and technological development.

A not-for-profit organisation funded by its members, the NMI has a membership that spans the supply chain and includes Electronic Systems Design and Manufacturing Companies, IDM & Fabless Semiconductor Manufacturers, Electronics Design Services, Intellectual Property Providers, Suppliers & Service Providers, Research and Academic Institutions.

NMI Introduction

- Over >240 Members and growing
- Eco-system of world-class designers, services, manufacturing, academia, government depts., etc.
- UK Focus – Global Connections
- Building strong communities around themes and competencies
- Catalysing UK competitive performance and enabling sector growth

Key Focus Support

- Skills
- Technical and Operational Networks
- Innovation Networks
- R&D Support and Influencing Policy
- Promotion
- Representation

UK Electronics Skills Foundation

ESCO
UK Electronic Systems - Challenges and Opportunities

- ESCO Report publication – 6th Nov
- Summit & Awards Dinner – 15th Nov
- Award categories

Power Electronics

28/29th Nov 2012 – iPOWER2

- Venue: University of Warwick
  - **Transport (Including Automotive)**
  - **Intelligent Grid**

28 - 29 Nov 2012

iPower 2

Showcasing UK Power Electronics

AESIN Overview

Why AESIN?

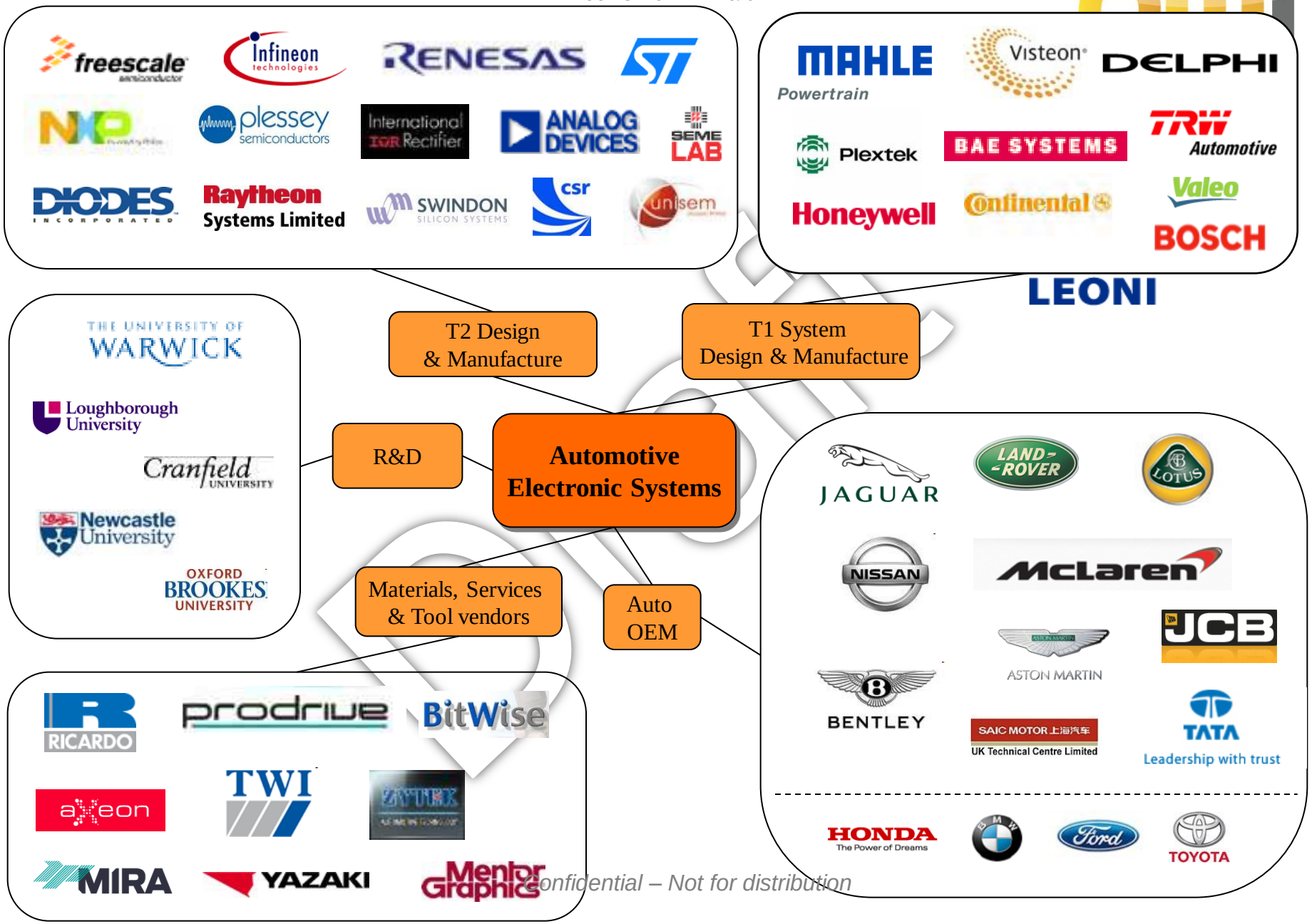
- Respond to the trend of growing Electronic Systems content in automotive
- Dynamic trends of greener, safer, connected vehicles
- Catalyse UK competence, strengthen supplier base, supporting processes of innovation... Link to global system

Key deliverables:

- **Technical excellence**
  - Up-skilling UK auto-electronics engineering capability
- **Accelerating innovation**
  - Engaging the UK Electronic Systems innovation system
  - Includes microelectronics & power electronics

NMI Automotive Electronic Systems Stakeholder Map

June 2012 Draft 1.1



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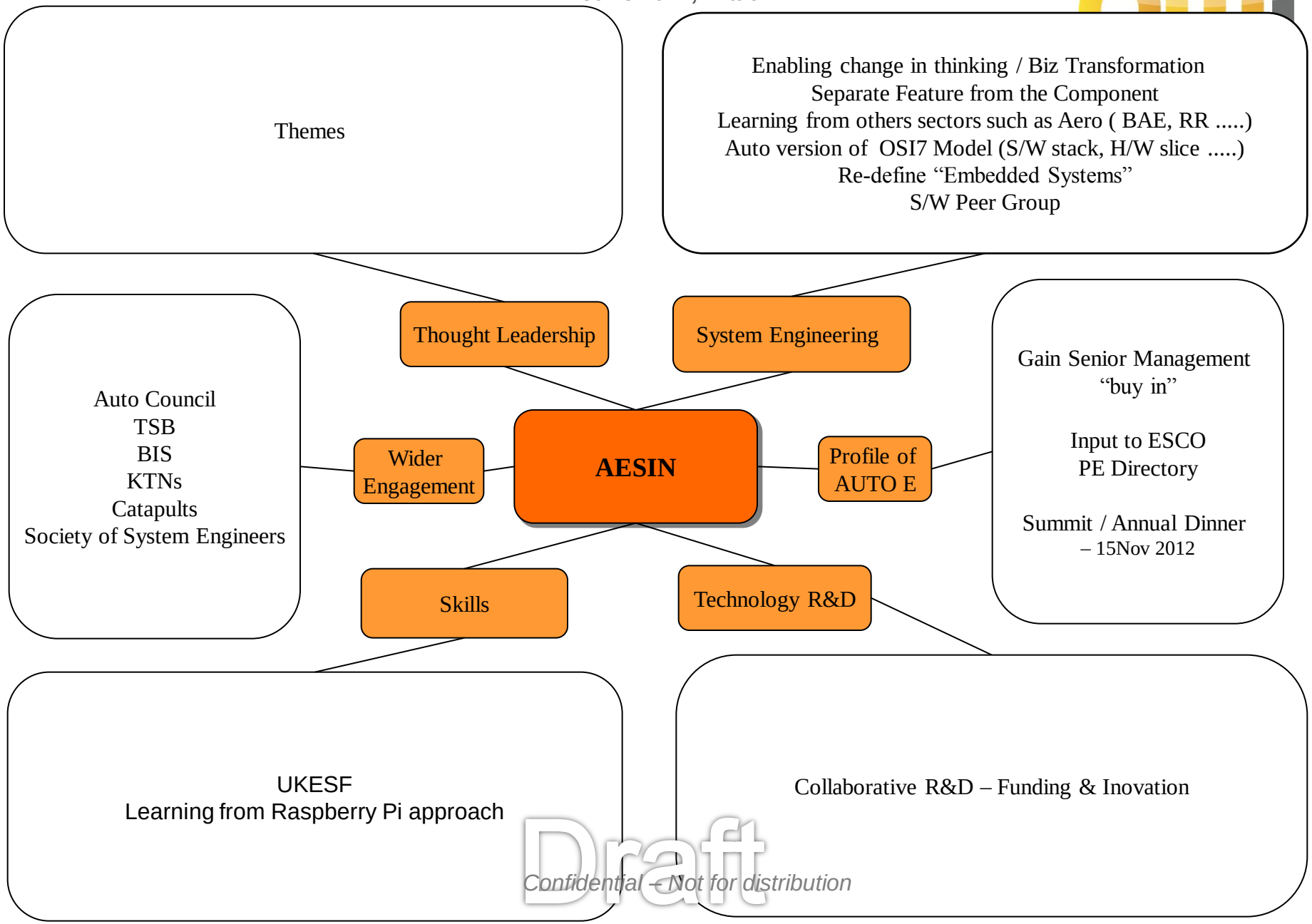
AESIN Work Package mapping

June 2012, Draft 1.1



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Draft

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Announcing today:
Automotive Electronic Systems Innovation Network
AESIN

JAGUAR · LAND ROVER · McLaren · NISSAN · Visteon · RICARDO

freescale · Infineon technologies · Plextek · RENESAS · Mentor Graphics

AESIN Overview(2)

Building on existing Electronic Systems community

NMI membership can already access:

- Digital, Analogue Mixed Signal, Low Power to Power Switching
- Cross Sector access – Consumer, Energy Sector, Transport, Military – Defence contractors

AESIN Initial planning

Initial AESIN activities / deliverables

will typically include a variety of activities under the guidance of our core steering group.....

- ***Technology showcase***
- ***Dedicated workshops***
- ***Incubation sessions***

Contact us to get involved .... details to follow this launch event

www.nmi.org.uk

Paul.jarvie@nmi.org.uk

07739427766

New members

NMI would like to welcome our newest members supporting the Exhibition today...

And.....

Segin Global Solutions, IT Dev, PRP Optoelectronics ,ML Electronics, Element 6, IXYS Westcode, EMU Technologies, Feuerlabs, Compound Semiconductor Technologies

Join the community ..... www.nmi.org.uk

Agenda , 26th Sep 2012

09:00	**Registration and Refreshments**	
09:45	Welcome & Introduction	Dr. Derek Boyd, NMI
10:10	WMG Introduction & Welcome	Mark Pickering, Warwick Manufacturing Group
10:25	Enabling the future vehicle digital platform across the supply chain	Dave Battersby, Jaguar LandRover
11:00	Refreshments / Exhibitor Area	
11:30	Born and Bred in Bedfordshire- Infiniti Emerg-e and Nissan Connect 2- BOLD DESIGN, SMART TECHNOLOGY	David Moss, Nissan NTC
11:50	Leading by Example – Lessons from Formula 1	Tim Strafford, McLaren Electronic Systems
12:10	New challenges in Auto Electronics & Supply Chain structure	Stuart Bird, Visteon
12:30	**Buffet Lunch / Networking /Table Top Exhibitions / Exhibit Vehicles**	
13:30	Skills update	Darren Race, SEMTA
13:45	Driving innovation into the UK automotive supply chain	Paul Martin, Plextek
14:05	Innovation Challenges in Automotive Electronics	Andrew Birnie, Freescale
14:25	Automotive Infotainment – keeping ahead of consumers	Keith Kidd / Andrew Patterson, Renesas / Mentor Graphics
14:45	Vehicle Electrical Systems Integration (VESI) – an overview	Layi Alatise, University of Warwick
	Connecting & Delivering Innovation – Quick Fire Session	
15:05	**Refreshments / Exhibitor Area**	
15:30	How HIL impacts power electronics development and quality assurance	Marko Vekic,Typhoon HIL/ PPM
15:40	Delivering ADAS Innovation	Ian Saward, ASL-Vision
15:50	The Heart of the Matter – Driver ECG monitoring using in-seat EPIC sensors	Robert Breakspear, Plessey Semiconductor
16:00	Panel Session - Interactive Q&A debate	
16:30	**Wrap up & Close**	

Thank you to our Host .....

THE UNIVERSITY OF WARWICK

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