

OUR
BUSINESS

OUR
SALES

OUR
PRODUCTS

OUR
FACILITIES

OUR
TECHNOLOGY

OUR
PEOPLE



JAGUAR LANDROVER

Oct 2018

Paul Girr
Chief Engineer
Global Software Development Ireland.



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GLOBAL INVESTMENT IN INFRASTRUCTURE

WORLDWIDE LOCATIONS

UNITED KINGDOM

1. Global HQ, Engineering and Design, Whitley
2. Engineering, Design and Test Facility, Gaydon
3. Manufacturing Facility, Halewood
4. Manufacturing Facility, Solihull
5. Manufacturing Facility, Castle Bromwich
6. Manufacturing Facility, Wolverhampton
7. National Automotive Innovation Centre, Warwick
8. Special Vehicle Operations Technical Centre, Ryton
9. Engineering and Operations, Fen End

INTERNATIONAL

1. Chery Jaguar Land Rover, Changshu, China
2. Manufacturing Facility, Itatiaia, Brazil
3. Assembly Facility, Pune, India
4. Manufacturing Facility, Nitra, Slovakia
5. Contract Manufacturing, Graz, Austria
6. **SW R&D centre in Shannon, Ireland**



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SOFTWARE ENGINEERING CENTRE SHANNON, IRELAND



Industry Challenges Complex Systems



A

AUTONOMY



	L0	L1	L2	L3	L4	L5
	Driver Only	Assisted	Partially Automated	Highly Automated	Fully Automated	Autonomous
	SUPPORTS YOU TO DRIVE			GIVES YOU BACK YOUR TIME		
Key Customer Benefit	The customer experience of L0-L2 is one of reduced driver workload. Customer will feel less fatigued, less stressed and more aware of the driving environment.			The customer experience of L3-L5 is one elevation from the driving task of reduced driver workload, customer will feel less fatigued, less stressed.		
Key Metric/Conversation	WORKLOAD "How easy does the car make my driving experience?" CONFIDENCE (=ROBUSTNESS & SAFETY) "Can I trust the car?"			COVERAGE & AVAILABILITY "How much of my driving does the car do for me?" CONFIDENCE (=ROBUSTNESS & SAFETY) "Can I trust the car?"		
What Does it Enable?	None			(L4 and above: Sleeping, eating (road)) (L4 and above: Sleeping, eating (road)) (L4 and above: Sleeping, eating (road))		

C

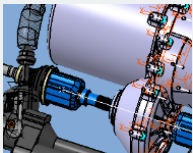
CONNECTIVITY



E

ELECTRIFICATION

Scaleable family of EDUs to span full architecture bandwidth requirements



Autonomy, Connectivity and Electrification represent the three key challenges facing our industry

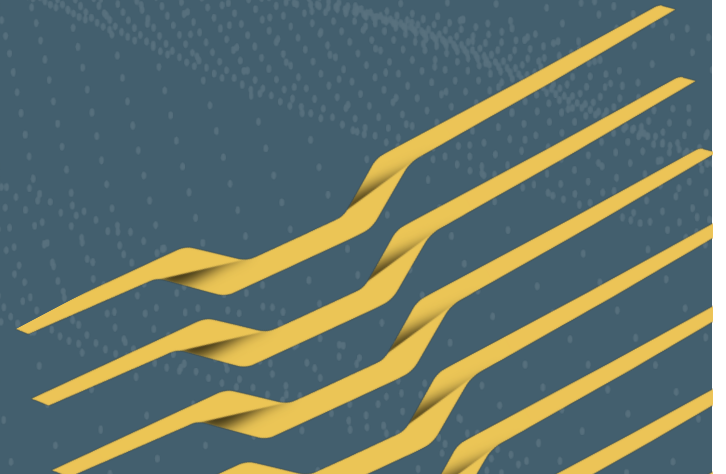


DR. WOLFGANG ZIEBART

TECHNICAL DESIGN DIRECTOR
JAGUAR LAND ROVER

I-PACE

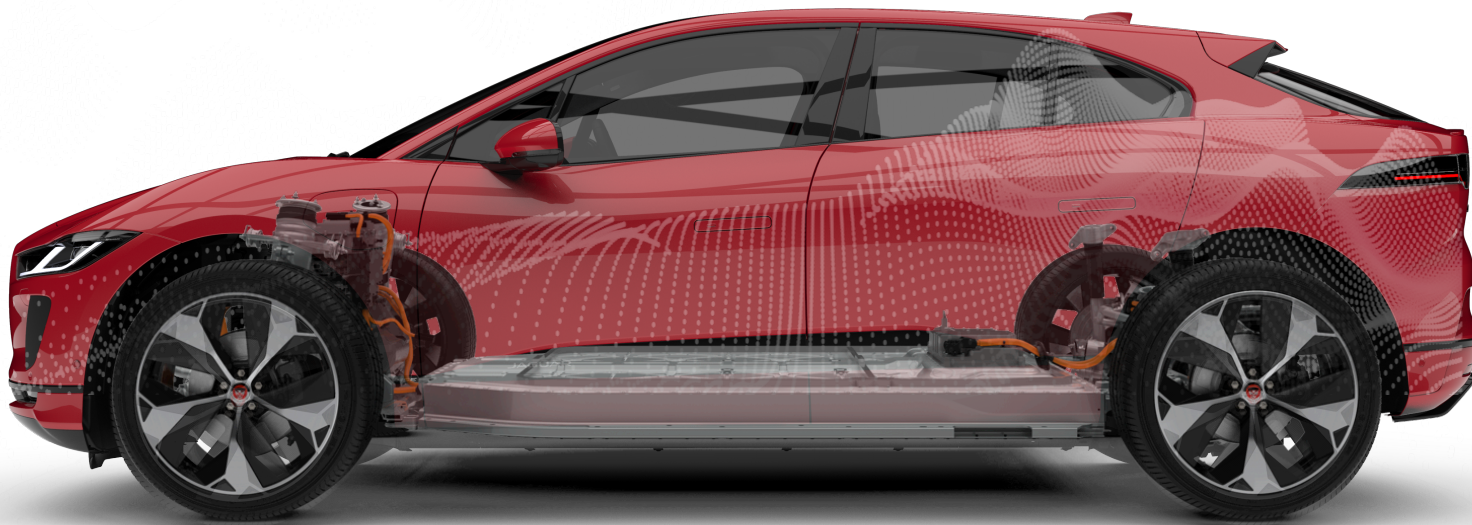
Presented by
Paul Girr







ELECTRIC ADVANTAGES



INTERIOR SPACE

HANDLING AND
COMFORT



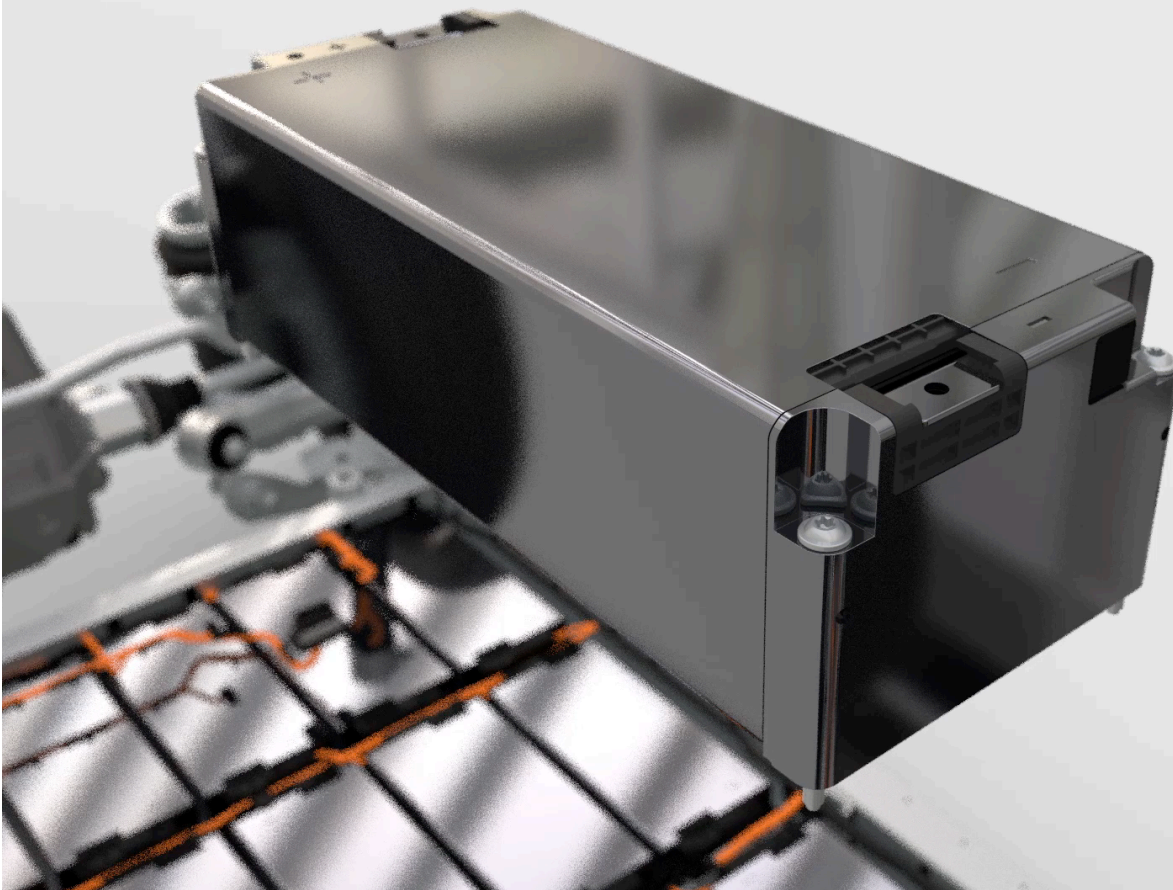
ELECTRIC PERFORMANCE

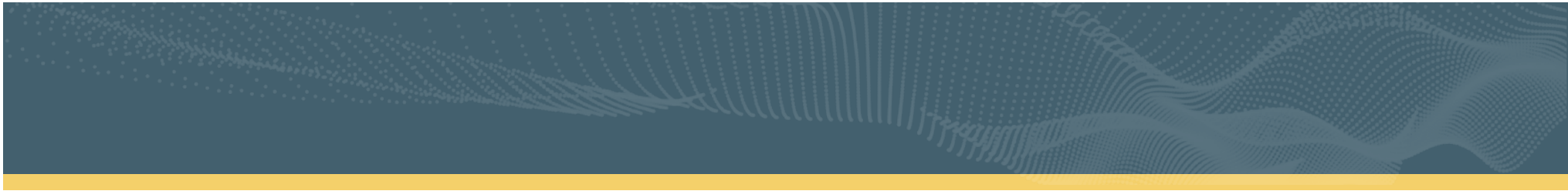


90 kWh
LITHIUM-ION
BATTERY PACK

432
POUCH CELLS
(36 X 12 CELLS)

THRILLING
PERFORMANCE,
PRACTICAL RANGE
FAST CHARGING





2 SYNCHRONOUS PERMANENT MAGNET MOTORS

78KG EACH
LIGHTWEIGHT
COMPACT

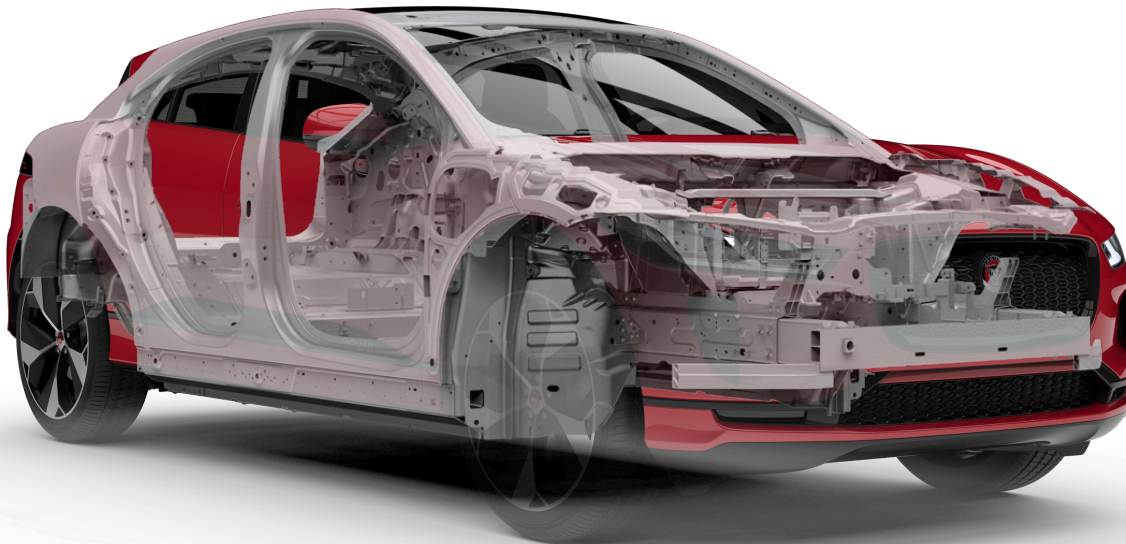
8 PATENTS

95% EFFICIENT

ALUMINIUM STRUCTURE

AI.

94% ALUMINIUM



ALUMINIUM STRUCTURE

AI.



36kNm/° TORSIONAL
RIGIDITY

LOW CENTRE OF
GRAVITY

50:50
WEIGHT DISTRIBUTION



ELECTRIC PERFORMANCE



STATE-OF-THE-ART
THERMAL
MANAGEMENT
SYSTEM



ELECTRIC PERFORMANCE



400 PS



696 Nm

400PS
696NM

4.5 secs
0-60 mph



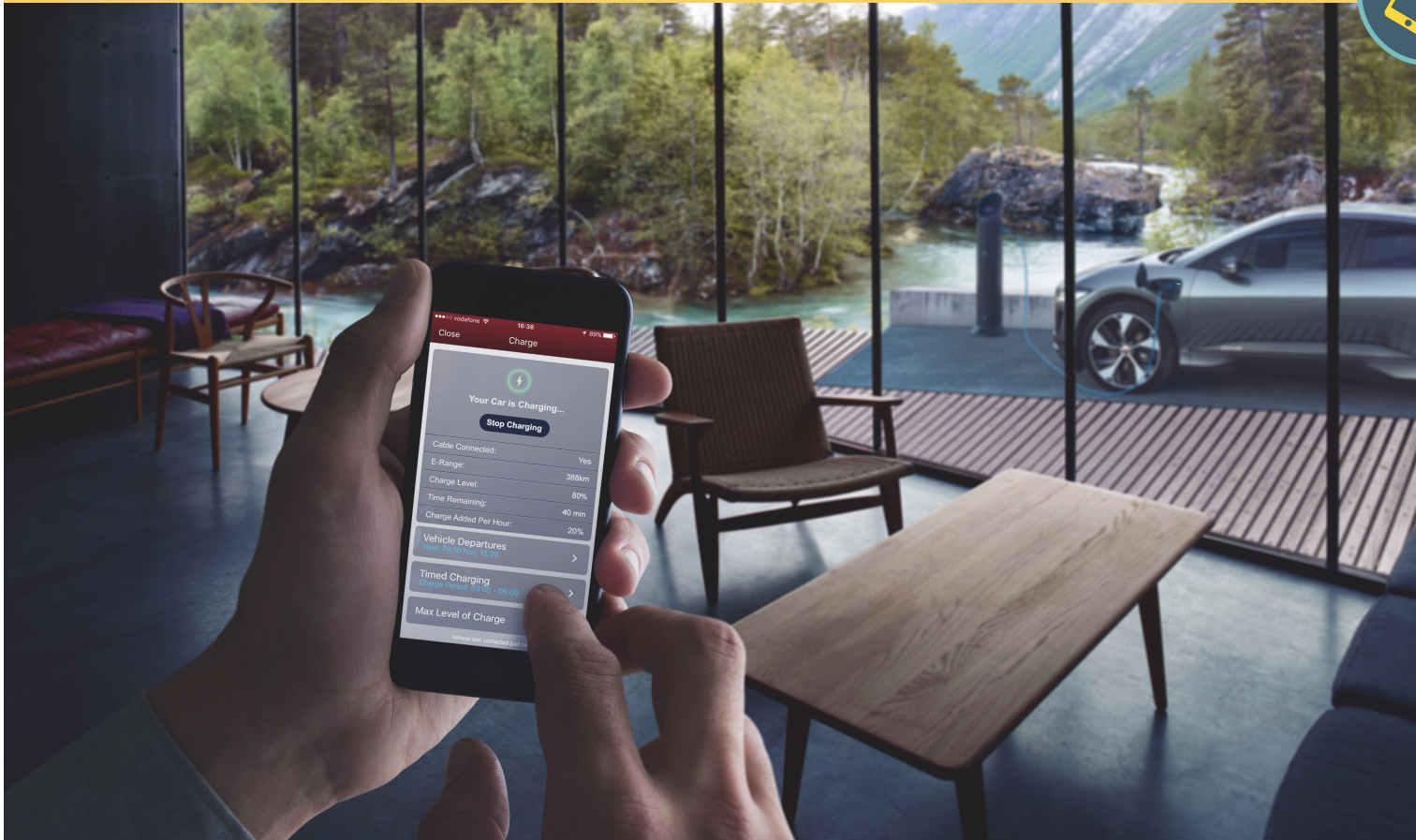
ELECTRIC PERFORMANCE



480KM
RANGE



ELECTRIC PERFORMANCE



BATTERY PRE-
CONDITIONING VIA
SMARTPHONE

UP TO 62 MILES
RANGE ADDED BY
CONNECTED TECH





WIRED FOR LIFE



SMART BLUETOOTH
KEY FOB

AUTOMATICALLY
SWITCHES CAR TO
YOUR SETTINGS

PRE-HEAT/ COOL
CABIN FROM
SMARTPHONE



WIRED FOR LIFE



AMAZON ALEXA
SKILL FOR
JAGUAR I-PACE

ASK ALEXA FOR:
— CHARGING LEVEL
— RANGE
— VEHICLE STATUS



WIRED FOR LIFE



EV NAVIGATION:

DYNAMIC,
ACCURATE RANGE
CALCULATIONS

IDENTIFY CHARGE
POINTS, DYNAMIC
CHARGE STATUS







