



DOWLAIS

DOWLAIS GROUP PLC
VIGO SITE VISIT

OCTOBER 2023

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Agenda

Monday 30th October

DOWLAIIS

- **Dowlais overview** **5:30pm**
- **Drinks and dinner (open Q&A)** **6.30pm**

Agenda

Tuesday 31st October

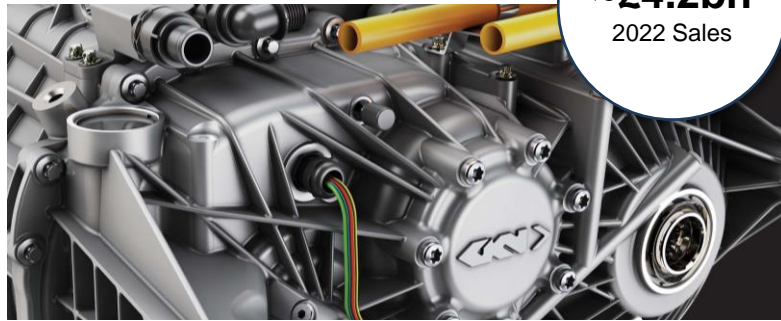
DOW/LAIS

- **Health & safety briefing** 8.30am
- **Powder Metallurgy** 8.45am
- **GKN Automotive (overview + Vigo intro)** 10.15am
- **Vigo plant tour** 10.45am
- **Lunch** 12.15pm
- **GKN Automotive (technology)** 12.45pm
- **Q&A, closing remarks** 1.45pm

Leave for airport at 2.45pm

DOWLAIS OVERVIEW

- **Dowlais is a world-class Automotive Group, consisting of two market leading businesses**
- **We have had a very successful start as a newly listed PLC**
- **GKN Auto is a technology leader, with an increasingly powertrain agnostic portfolio**
- **They have well invested, high quality network of plants – Vigo is a good example**
- **Powder Metallurgy is a high-margin business with revenue and margin growth potential**
- **They have already secured business on a number of incremental EV products**



~£4.2bn
2022 Sales



~£1.0bn
2022 Sales



#1 global driveline supplier

Present on 50% of vehicles¹

Working with 90% of global OEMs²

#1 sinter metals supplier

#2 powder metal supplier

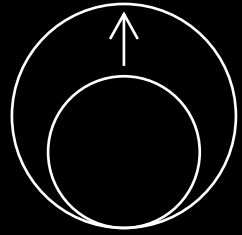
Global supply footprint

Reliable and secure H₂ storage

16 pilot systems

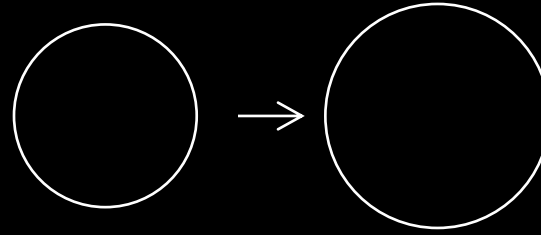
Healthy pipeline of opportunities

¹ Vehicles refers to individual nameplates of global OEMs; ² Global OEMs are those with manufacturing locations in multiple regions



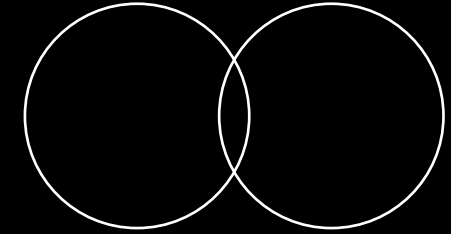
Lead

Market leadership and industry-leading financial performance



Transform

Technological innovation to enable a net zero economy



Accelerate

Sustainable organic growth and disciplined M&A

Mega-trends

Conconnected

Autonomous

Shared

Electrification

Customer landscape

“Traditional” OEMs



Chinese Local OEMs



Pureplay EV OEMs



Geo-politics

Supply chain disruption



Political & military tension



Trade war



Deglobalisation



H1 2023 HIGHLIGHTS

First half trading ahead. Strong margin expansion, positive free cash flow and accelerated EV transition. Full year expectations unchanged.

Margin expansion



Operating profit +40%¹, margin expansion of 140bps (+190bps pre-central costs). On track to achieve operating margin target

Cash generation



Adjusted² free cash flow of £33m³ generated, with a reduction of leverage. Dividend of 1.4p per share declared

Portfolio transition



Electrification transition accelerating, strong EV order intake, above target margins. eDrive system win in Auto, first magnets commercial agreement reached in PM

1. YoY change is stated at constant currency throughout the document 2. All adjusted financial measures are defined in the glossary to the interim financial statements 3. Free cash flow excluding demerger specific cash outflows of £39m



Strong first half, on track to deliver financial targets & profitably benefit from EV transition



Revenue growth

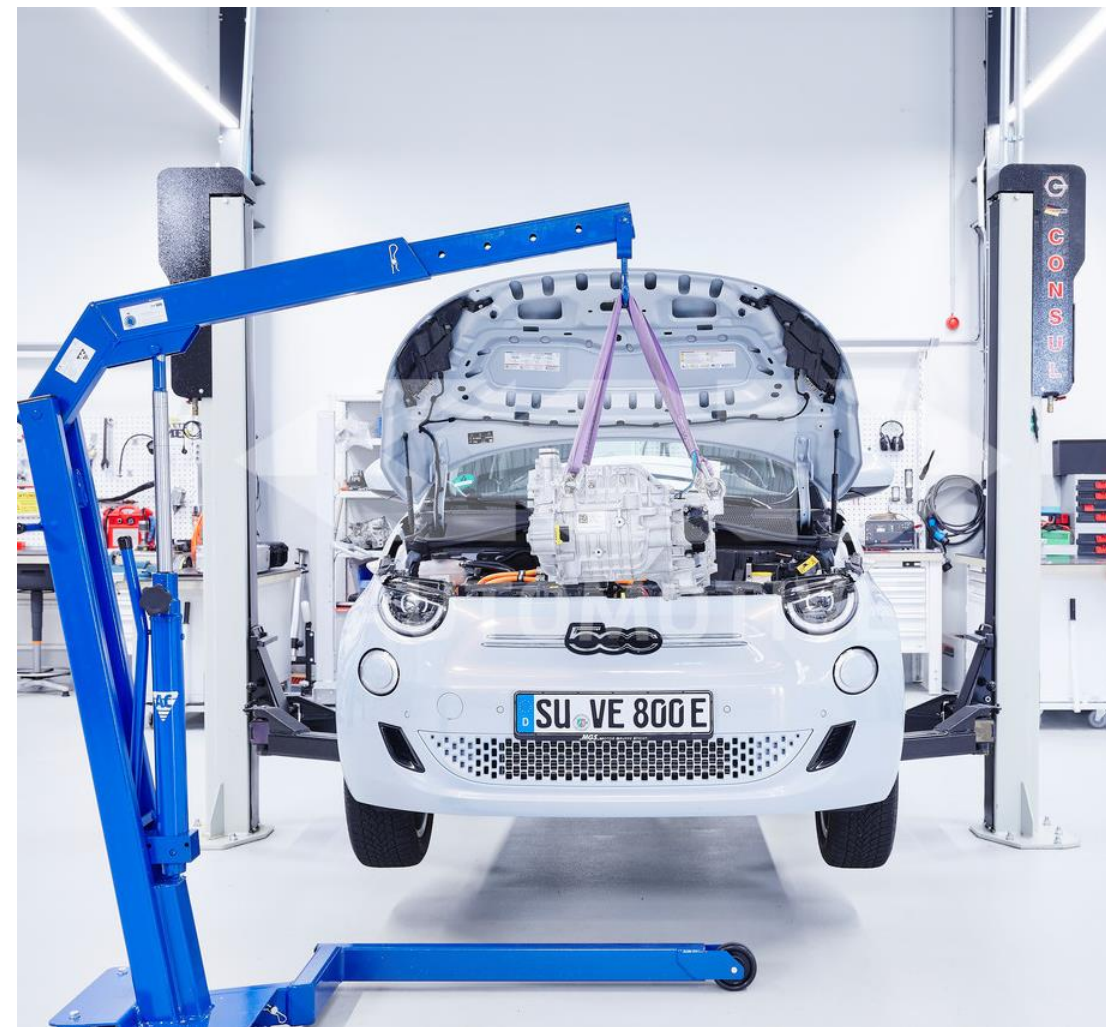
- H1 revenue growth of 12%, aligned with light vehicle production
- Strong growth from sids shafts and across all ePowertrain product portfolios

Margin expansion

- Adjusted operating profit growth of 92%, margin expansion 270bps
- Drop-through margin of 39% driven by strong operational performance and inflation recovery

Portfolio transition






- >£3bn of new business secured in H1, 78% for EVs, above target margin
- Multiple torque management component awards and a profitable eDrive system win

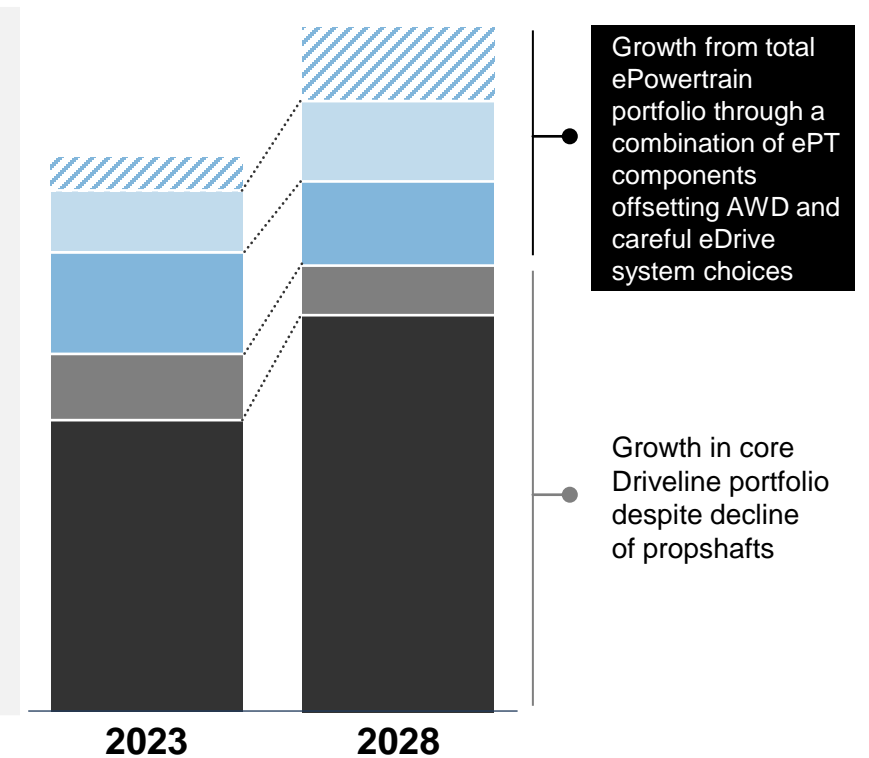


GKN Automotive



Profitable growth from both portfolios

Product portfolio	Impact of electrification	Comment	Portfolio growth
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eDrive systems		Prudent investment in targeted technology developments and smart program choices will deliver profitable growth
ePT components		Market leader in advanced differentials, growth forecast as addressable market increases
AWD		Heritage capabilities very relevant as portfolio transitions to ePT components
Propshafts		Focus on maximising asset utilisation and cash generation
Sideshafts		Market leader for both ICE & BEV, including in China. Growth forecast through content increase and further share gains



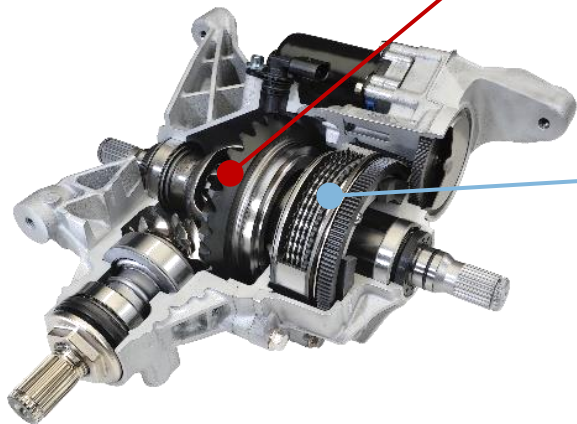
ICE exposure	~30%	<20%
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-  Positive impact of electrification
-  Negative impact of electrification

Most components within an AWD system transition to ePT components portfolio

AWD System

- > Power Take-off units
- > Rear Drive Units



Hypoid gears & shafts

Open differential



Disconnect units



Limited Slip Differential (LSD)



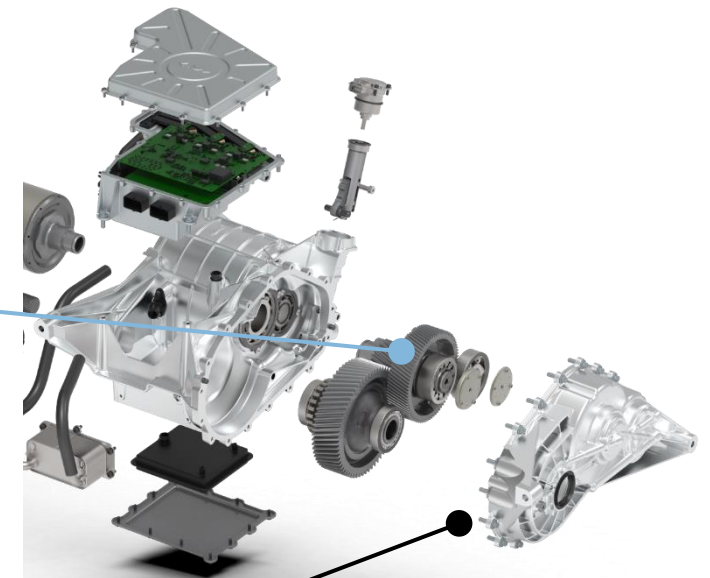
Electronic Torque Manager (ETM)



Helical gears & eDrive gearbox

eDrive System

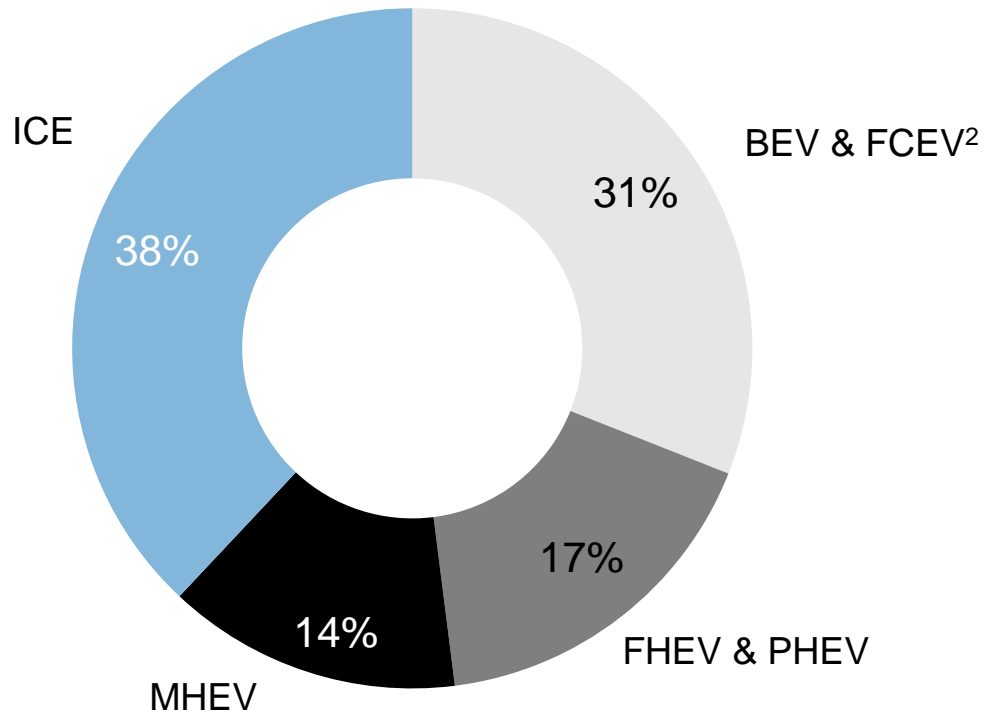
- > Electric Drive Units



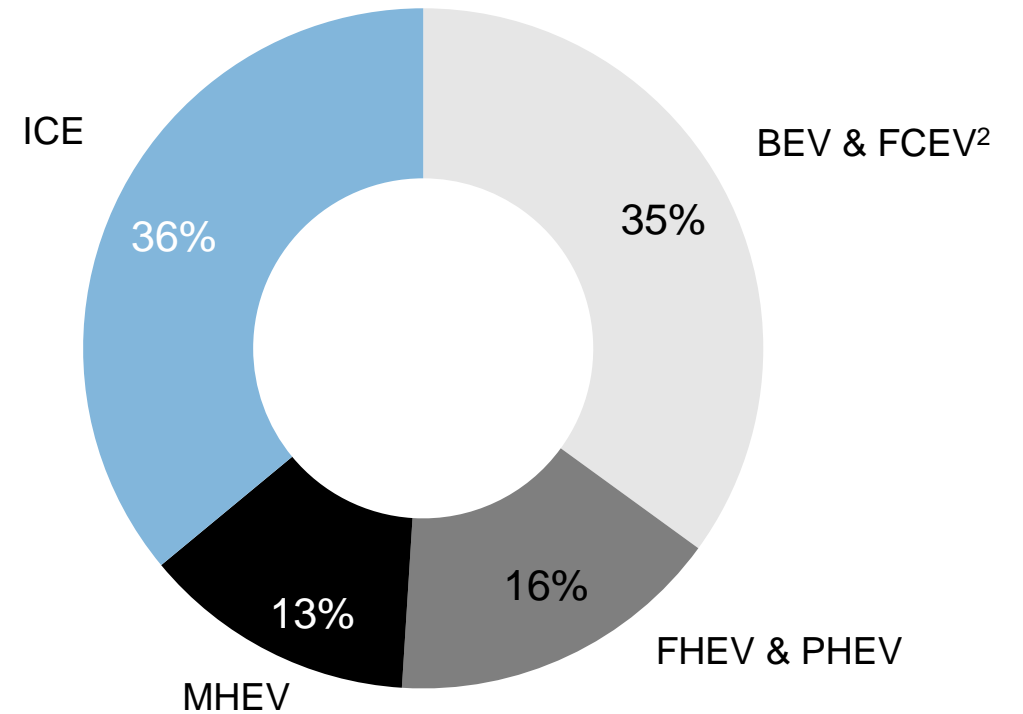
- No re-use
- Transition to eDrive component portfolio
- Incremental eDrive component content

Our EV transition is following the market

GKN Automotive order book for 2027¹



2027 global LV production forecast



¹ Propulsion mix of total order book as at October 2023; ² BEV = BEV + REEV + Series-Hybrid
Source: S&P Global Mobility Alternative Propulsion forecast at October 2023

GKN POWDER METALLURGY



GKN Powder Metallurgy

DOWLAIS

Strong profit margin trajectory throughout the period & acceleration of portfolio transition



Revenue growth

→ H1 revenue growth of 2%

Margin expansion

→ Adjusted operating profit margin increase of 80bps between H2 '22 and H1 '23

→ Increase of 170bps between Q1 '23 and Q2 '23; strong run-rate into H2

Portfolio transition

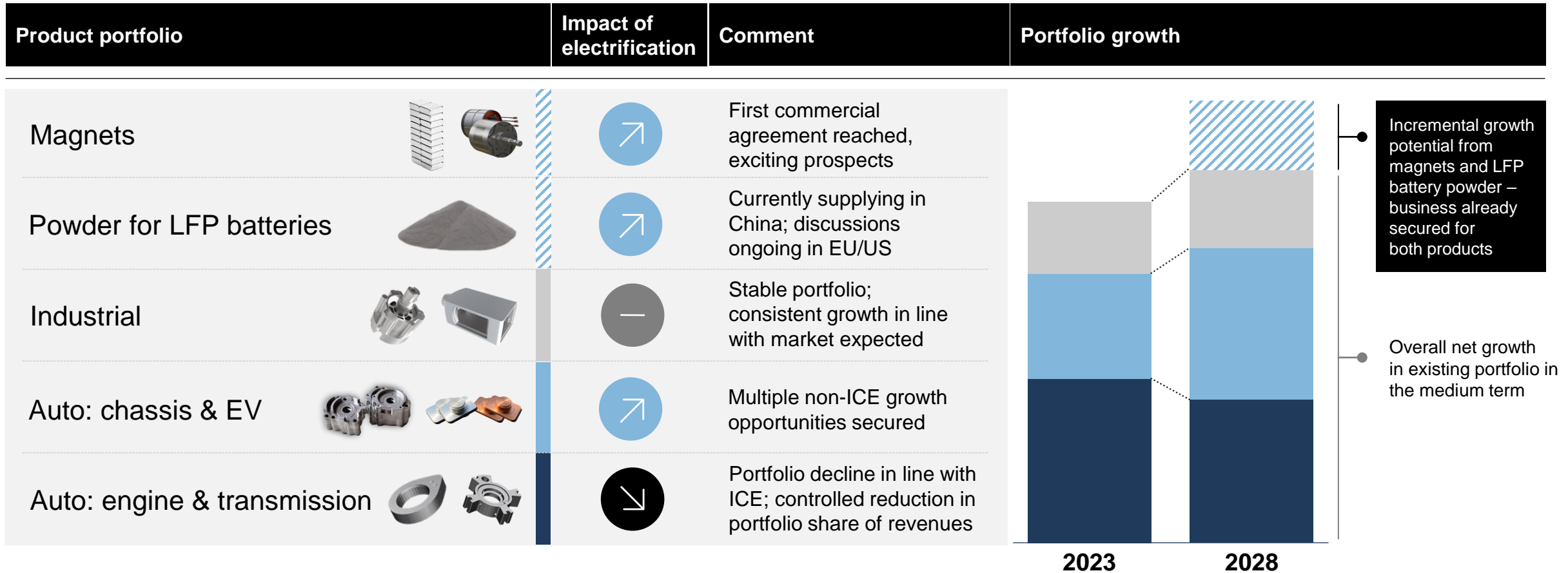
→ 36% increase in H1 new business bookings, 75% for propulsion agnostic product portfolios, at or above target margins



→ Acceleration of portfolio transition to EVs; multiple concrete opportunities defined, contract awarded for BEV differentials and first magnets commercial agreement



GKN Powder Metallurgy

Growth from existing portfolio, with incremental opportunities from new EV products



 Positive impact of electrification
  Negative impact of electrification
  Neutral impact of electrification

GKN Powder Metallurgy

Incremental EV content opportunities identified, and business secured

Thermal Management

Electric Pumps for battery and e-Motor cooling



CPV
Up to £15

Differentials

Gears for EV differentials



CPV
Up to £40

X-by-Wire

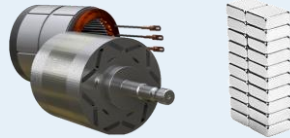
Small gearboxes for electric parking and active brakes



CPV
Up to £15

Magnets

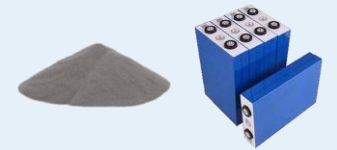
Rare earth magnets for BEV traction motors



CPV
Up to £150

Iron Powder

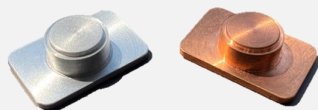
Used for Lithium Iron Phosphate batteries (LiFePO4)



CPV
Up to £55

Battery Terminal

Used in cylindrical and prismatic battery cells



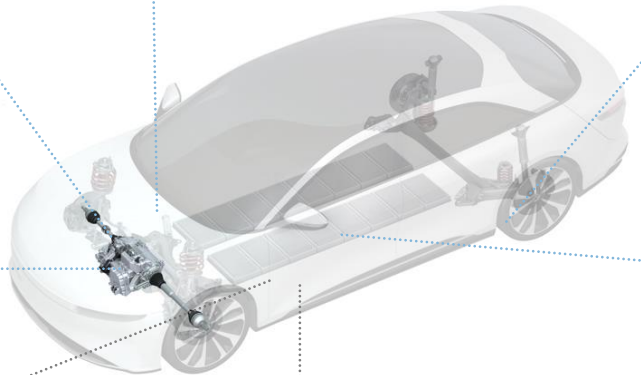
CPV
Up to £60



Bus Bar

Copper bushings for high voltage Bus-Bars



CPV
Up to £12



-  Product developed & commercial agreement secured
-  Product under development

Selected examples only– not exhaustive



DOWLAIS



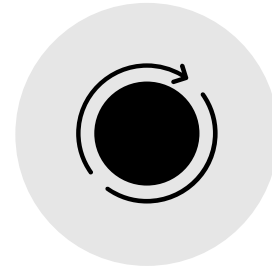
Revenue

Growth ahead
of market



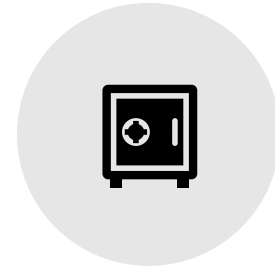
EBIT

>11% margin
for combined group³



Cash conversion¹

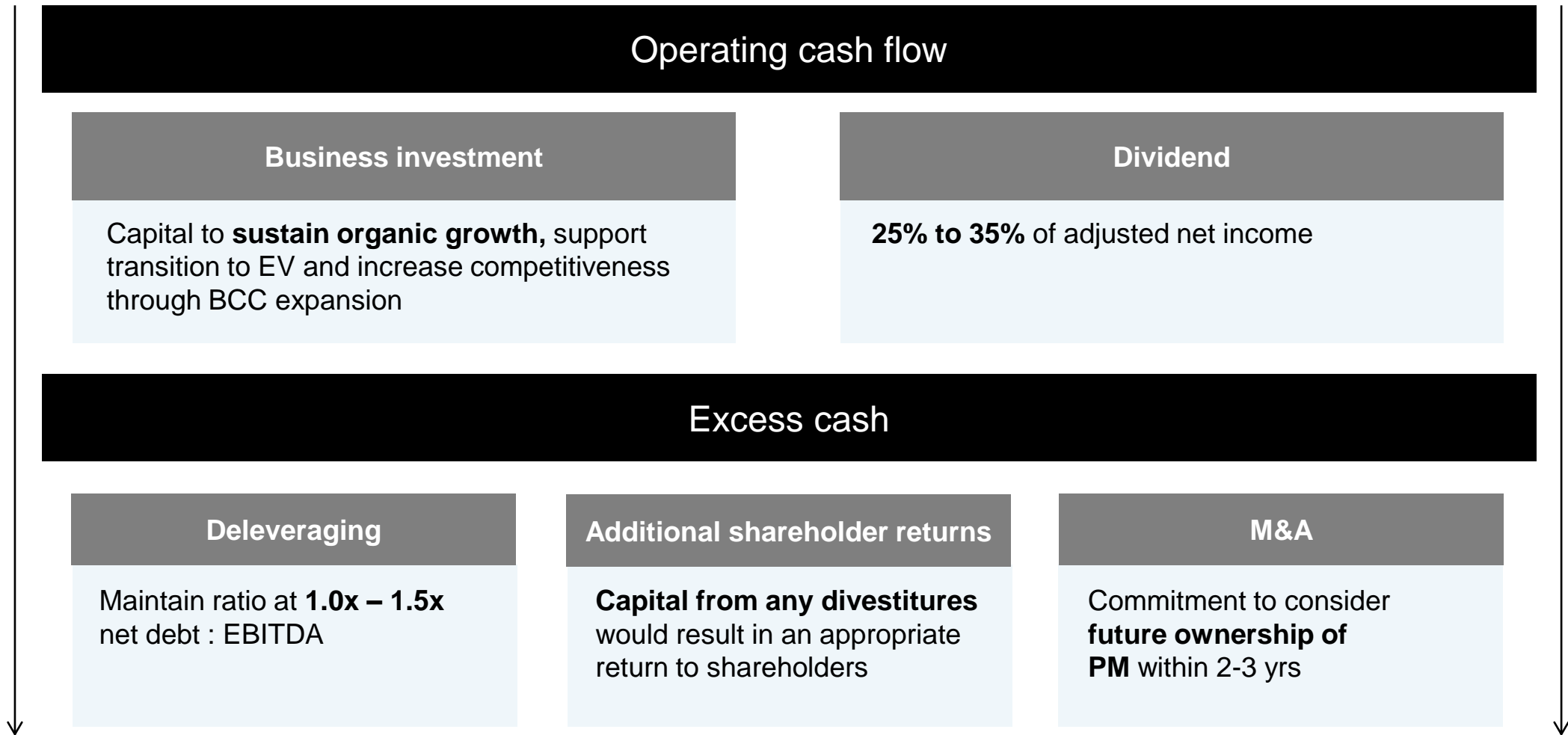
Consistently ~90%



Leverage²

Maintain at
~1.0x – 1.5x

¹ Cash conversion calculated as cumulative net cashflow pre-CAPEX / operating profit (EBIT); ² Leverage refers to ratio of net debt to EBITDA; ³ EBIT margin targets excludes central costs



Q & A





POWDER METALLURGY

LET'S SHAPE OUR FUTURE



Industry leading
technology from
powder to part

31 October 2023



LET'S SHAPE OUR FUTURE



Presenting today



Diego Laurent
Chief Executive Officer



Alessandro DeNicolo
VP Engineering





Agenda

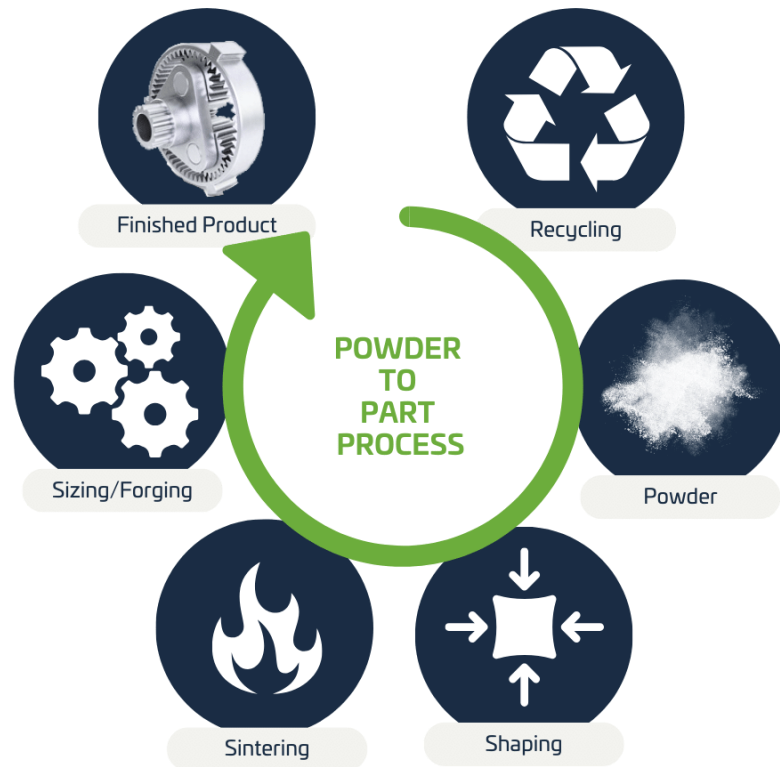
- > Business Overview
- > Market Positioning
- > Technology Strategy & Roadmap
- > Summary



> Business Overview

Introducing Powder Metallurgy (PM)

What is PM?



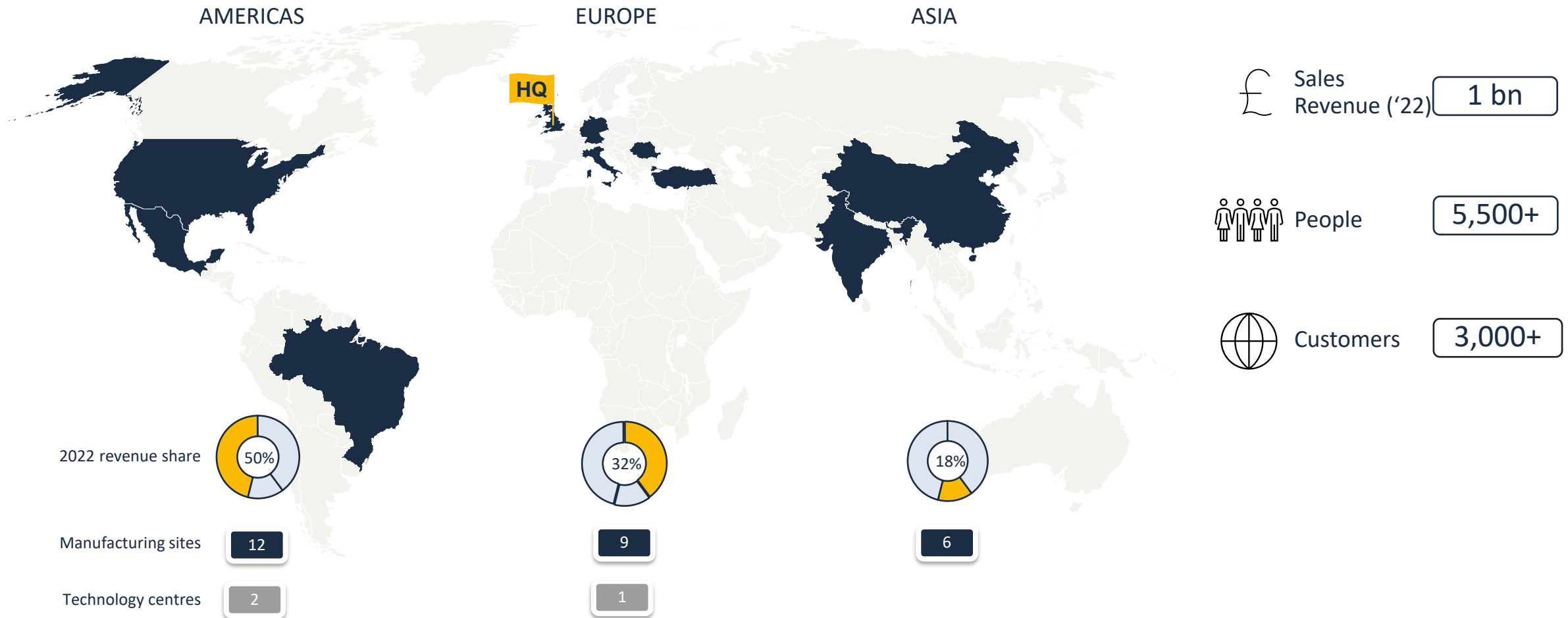
Why PM?

- Powder from scrap metal
- Contributes to the circular economy
- Net-shape capability
- Lower waste manufacturing processes
- Competitive and high quality



GKN Powder Metallurgy – At a glance

World leading provider of metal powder solutions



Our Businesses



Powders



World #2

leader in atomized metal powders for various applications

tons/year

250,000

Sinter



World #1

leader in high volume, high precision powder metal components

pcs/day

10,000,000

Additive



Global Player

in digital manufacturing of AM focusing on medium series and aftermarket

pcs/year

2,000,000

Magnets



Expansion

into permanent magnets for electric vehicle markets in Europe and North America

tons/year
(planned)

4,000



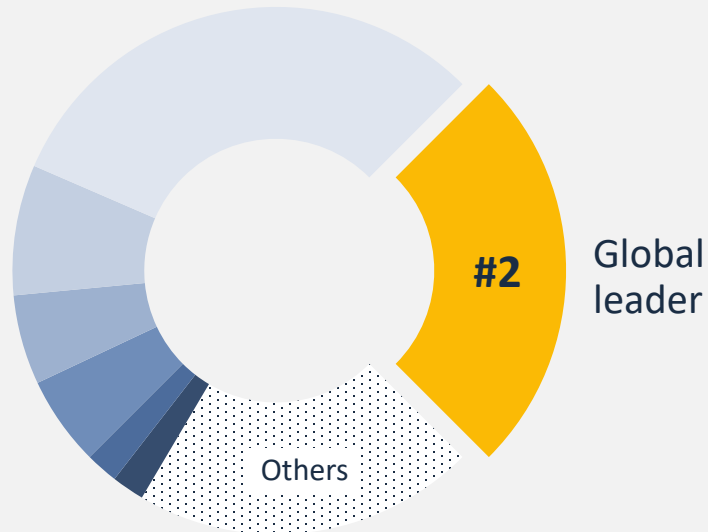
> Market
Positioning

#2 global leader in metal powder, #1 global leader in sinter products

Powder



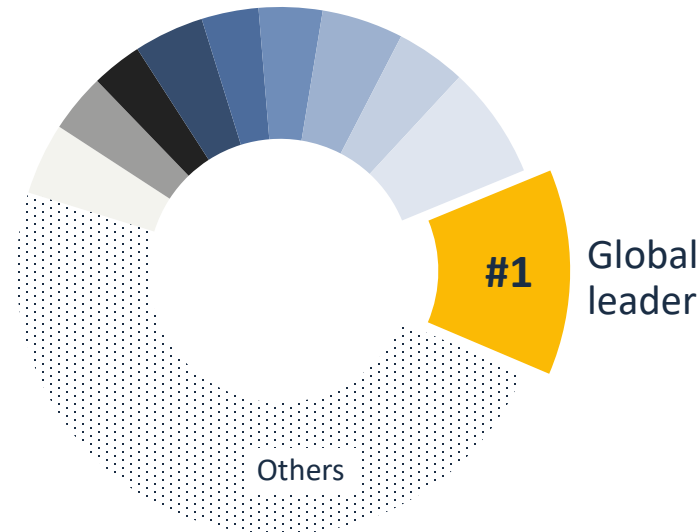
Market share



Sinter



Market share



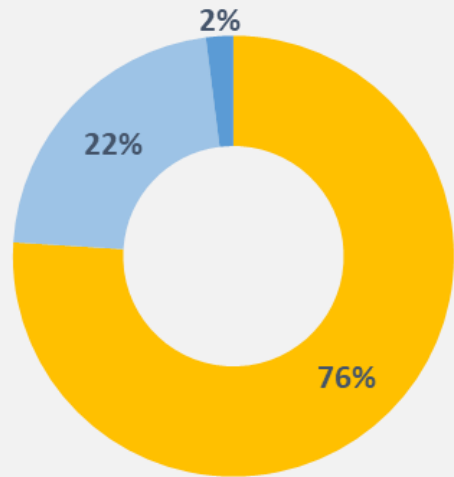
Our Leadership Factors

- ➔ Breadth of capabilities
- ➔ Global manufacturing footprint
- ➔ World class co-design
- ➔ Manufacturing excellence
- ➔ Strong customer relationships
- ➔ Focus on sustainability

Driving excellence worldwide: powering automotive and industrial segments

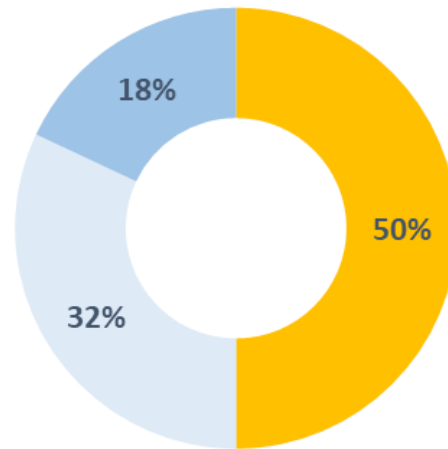
Share of the revenue

by Business



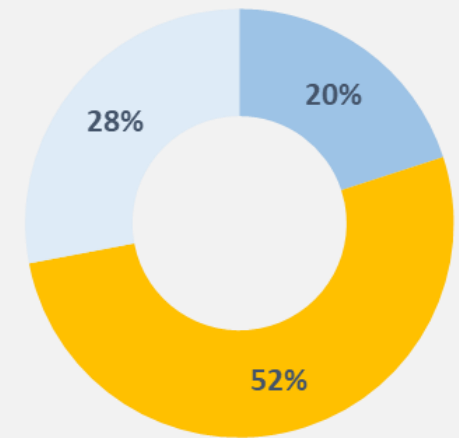
■ Sinter ■ Powder ■ AM

by Region



■ Americas ■ Europe ■ Asia

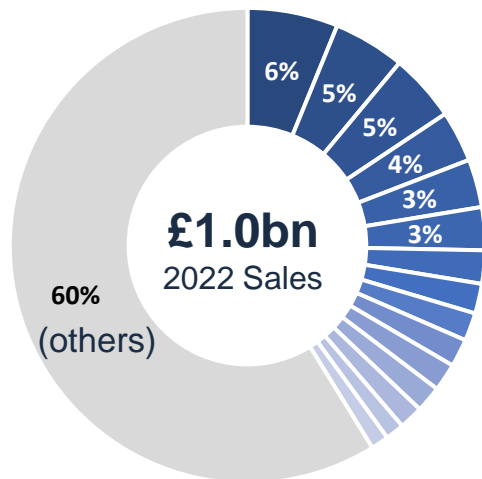
by End Market



■ Industrial ■ Auto - ICE ■ Auto - Agnostic

A diversified global customer base, whilst serving locally

Balanced customer mix



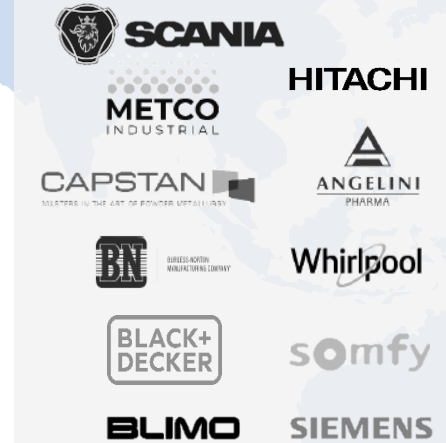
Automotive OEMs



Automotive suppliers



Industrials



Top 10 customers represent near one-third of the revenue

Strategy for success



ADAPT

To market and industry changes



GROW

Penetrate EV



PERFORM

Operational excellence

Portfolio transition

Growth

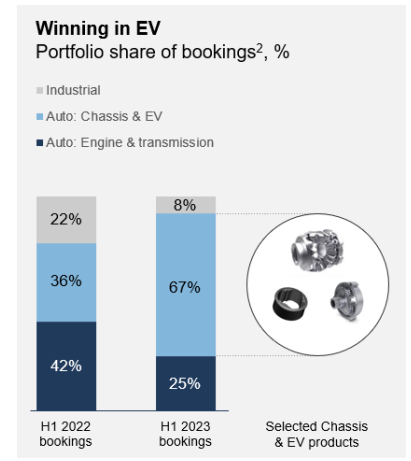
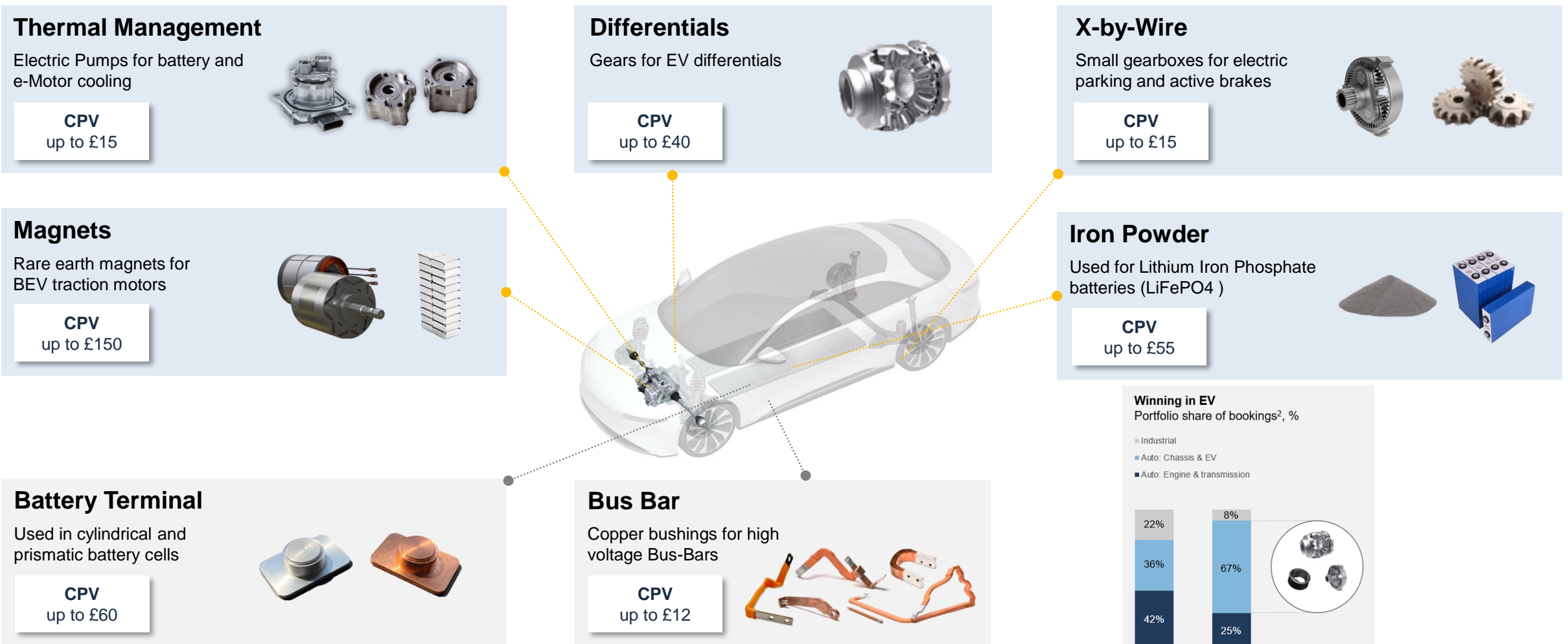
Margin expansion

Increasing opportunities in BEV applications, with business secured

Product developed & commercial agreement secured
 Product under development

Selected examples only– not exhaustive

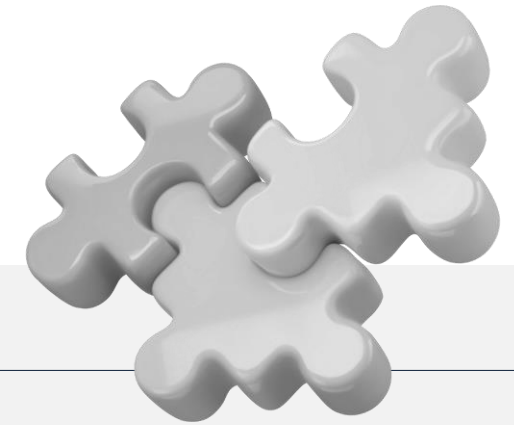
Potential content per vehicle





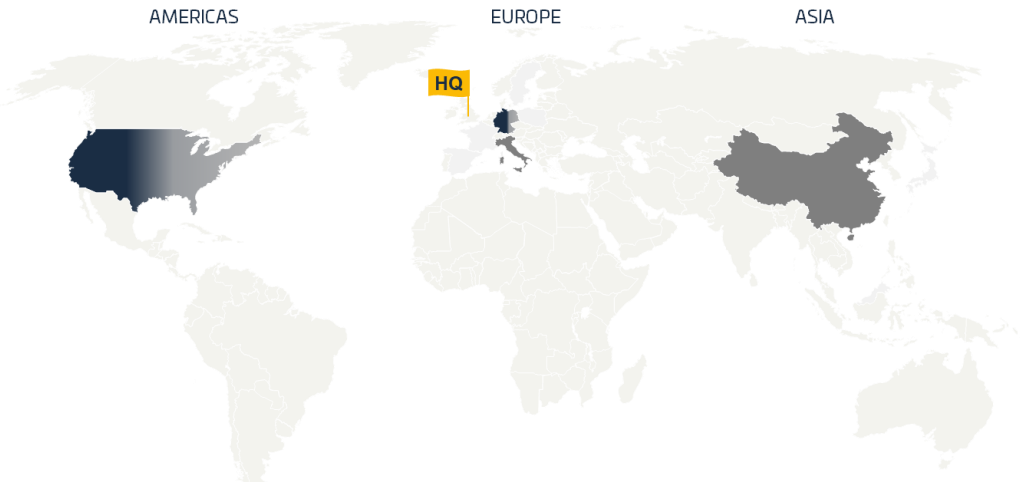
> Technology Strategy & Roadmap

Market leading engineering capabilities



Global Engineering Footprint

Engineering Strategy



Technology Centres		Product Engineering
Radevormwald, Germany	(Sinter)	Bonn, Germany
Cinnaminson, USA	(Powder)	Bruneck, Italy
Bonn, Germany	(Additive)	Yizheng, China
		Auburn Hills, USA
		Conover, USA



Engineering & Product Roadmap

- Market leading global engineering capability
- Designing new products to enable next generation BEVs
- Bringing PM advantages to BEV, supporting cost-effective systems
- Developing technical expertise in magnets, launching in 2025



Market & Customer

- Taking advantage of the whole industry re-designing their system, for the next generation of EVs
- Solutions provider instead of component supplier



System Engineering & Quality Excellence

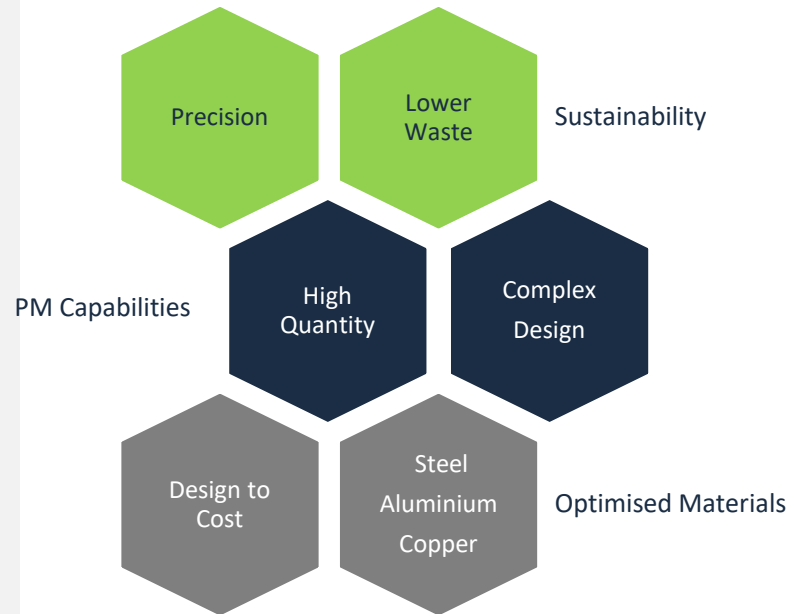
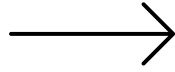
- High focus on safety critical systems
- Robust quality engineering for reliable products



Project Management

- Strong track record of global product launch
- Leveraging excellent know-how transfer across all GKN sites to support customers locally

PM in automotive provides a technology advantage across vehicle platforms



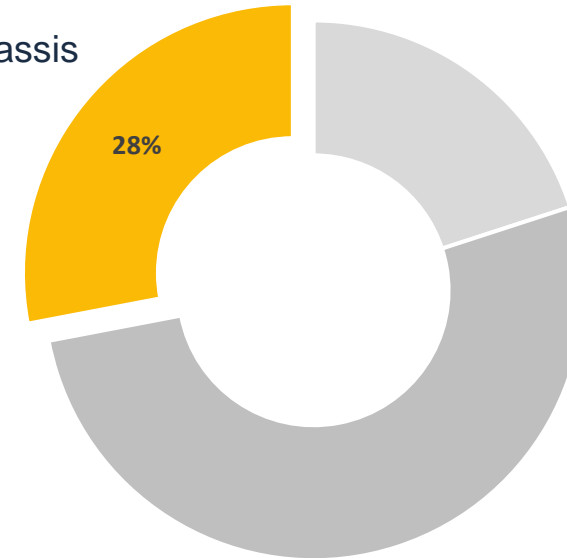
Our body & chassis products are not impacted by propulsion systems

Body & Chassis



Share of PM Sales

Body & Chassis



- None of our B&C components are negatively impacted by vehicle electrification
- Some applications (e.g., comfort systems) will actually benefit from increased fit rates on BEVs

On the way to transition our capabilities to new applications



Identified product groups: sparking innovation in BEV applications

On the initial BEV platforms, OEMs pursued a rapid market entry strategy.

- Many of the car systems (i.e. brake, steering) were carried-over from conventional engines platforms.

Current re-engineering activities from OEMs and Tier 1s create opportunities for PM to add value:

- System redesign for a better BEV integration
- Cost reduction activities
- Overall optimisation to increase range and efficiency

New environmental restrictions requiring redesign offering additional opportunities.

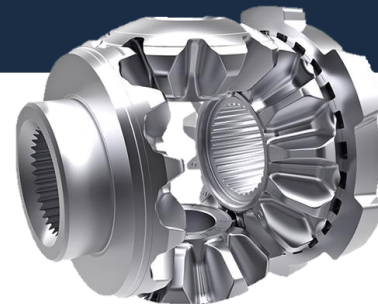
Thermal Management



X-by-Wire



E-Drivetrain



Battery & Electronics



Thermal Management

Potential CPV
Up to £15

Efficient electric oil pumps, HVAC and heat sinks are critical in BEV's



On BEV the thermal management is key and significantly different compared to ICE

- E- motor cooling for high efficiency
- Battery performance and longevity (incl. during charging)
- Power electronic performance
- Cabin comfort

By re-designing the system, PM is the optimum technology to improve component manufacturing and performance efficiency:

- Cost effective on large scale production
- Wide range of material selection (thermal conductivity)
- Ideal precision range to avoid machining

New business wins

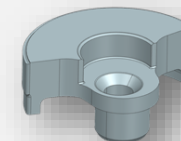
Gerotor for e-axle cooling



WODEER 沃德尔



HVAC Balancing Weight

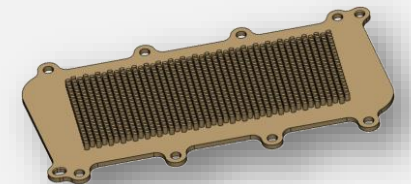


HANON SYSTEMS



Customer Interest

Heat Sink



X-by-Wire

Potential CPV
Up to £15

Increasing use of electromechanical actuation to replace hydraulic system

On ICE cars, electromechanical actuators are already used, while in electric vehicles additional electromechanical systems come into play:

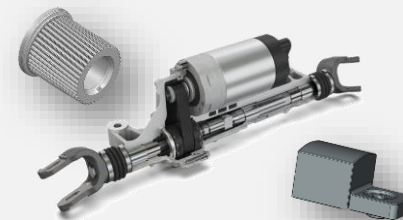
- Active brake
- Steering incl. rear wheel steering

PM is the ideal process for small gearboxes:

- Cost effective high precision components
- 100% quality check for safety components

New business wins

Rear Steer System



Customer Interest

Electro-Mechanical Brake



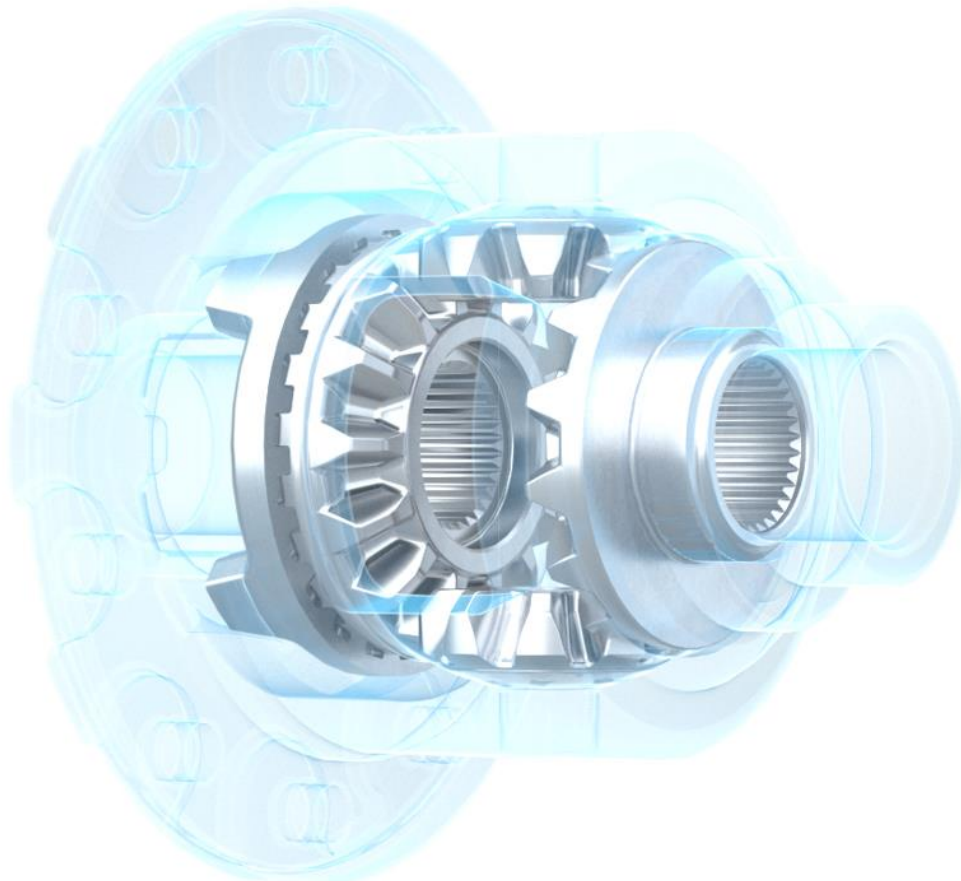
SCHAEFFLER



High Performance Powertrain components

Potential CPV
Up to £40

High performance differential gears bringing benefit to electric drivetrain



Within BEV architecture differential gears are gaining importance:

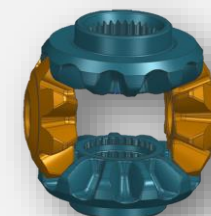
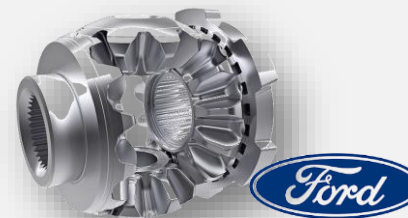
- High number of differential systems in vehicle (one-third of vehicles have a front and rear e-axle with one differentials per e-Axle)
- Active role in energy recuperation during braking

PM can bring unique advantages:

- Implement complex geometries, suitable in particular for lock clutch differential design
- Reduce material waste thanks to pre-shaped raw material billet
- Opportunity to downsize gear design due to enhanced material properties: isotropic structure, clean steel and special case hardening

New business wins

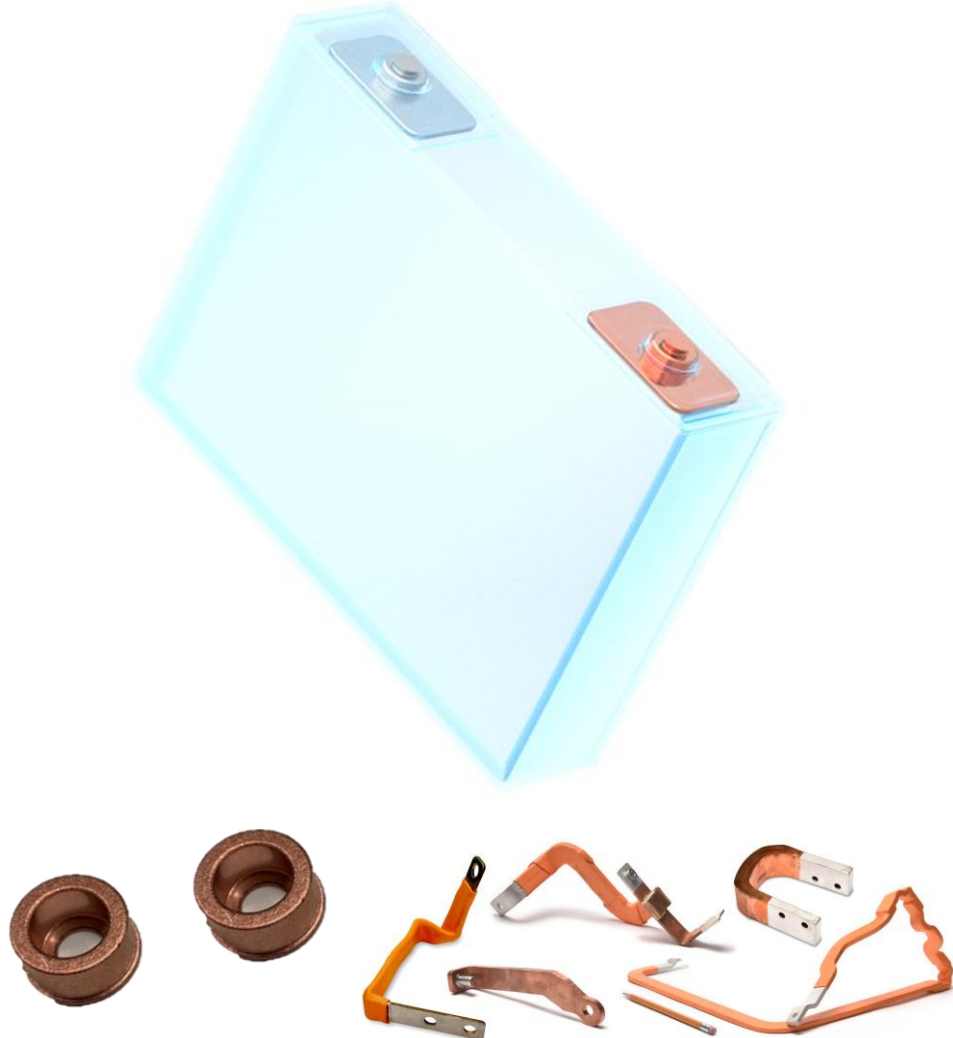
Customer Interest



Connecting elements (Battery and Electronic)

Potential CPV
Up to £60

Connecting Elements and Battery Terminals in complex shapes with PM technology



Connecting elements are essential for the efficient and reliable operation of an electric vehicle electrical system

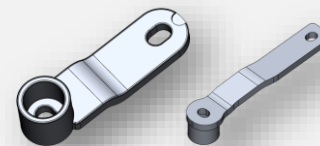
- Bus bars link individual cells in the battery pack.
- Connect the battery to the inverter and the various electrical systems.
- Battery terminals are connecting the Anode and Cathode of the single cell to the circuits

PM can bring unique advantages:

- Copper and Aluminium components
- Geometry freedom to produce multilevel battery terminal, used in prismatic cell
- High conductivity material

Customer Interest

Aluminium & Copper Connecting Elements



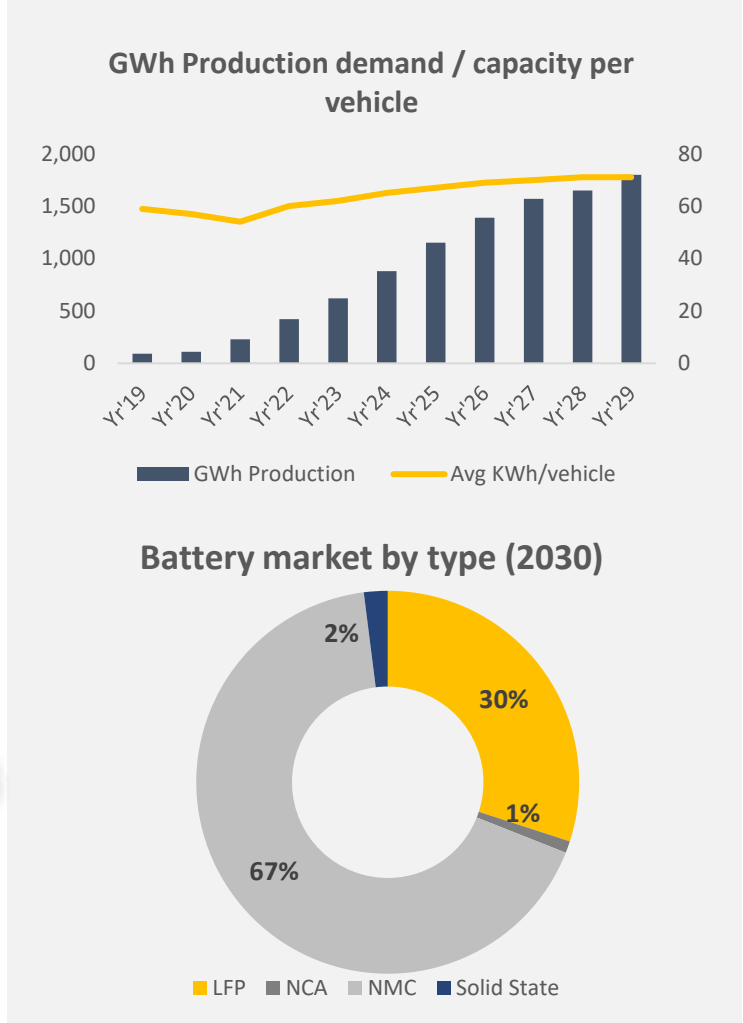
Battery Terminals



Battery Raw Material

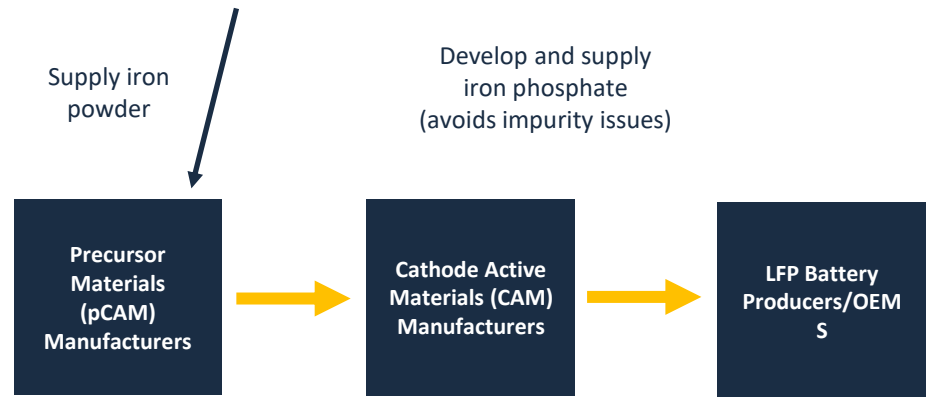
Potential CPV
Up to £55

PM powder for batteries: LFP batteries offer great advantages to traditional NMC batteries



Despite their slightly lower power density, LiFePO4 batteries offer several benefits:

- Cost-effective: iron is a much cheaper material
- Safer: lowest risk of fires
- Load cycle up to 100% without degradation



- Raw material supply in USA and Europe



> Magnets

Increasing the CPV

Attractive opportunity to expand into e-motor magnets

Large market and CPV¹

→ Magnets are key for e-motors

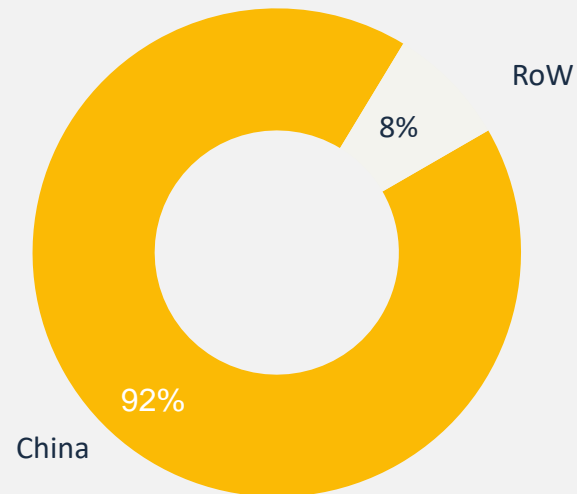


→ Sizeable market potential of up to £10bn by 2030

→ Rare-earth magnets are a core PM product; expertise suited to manufacturing

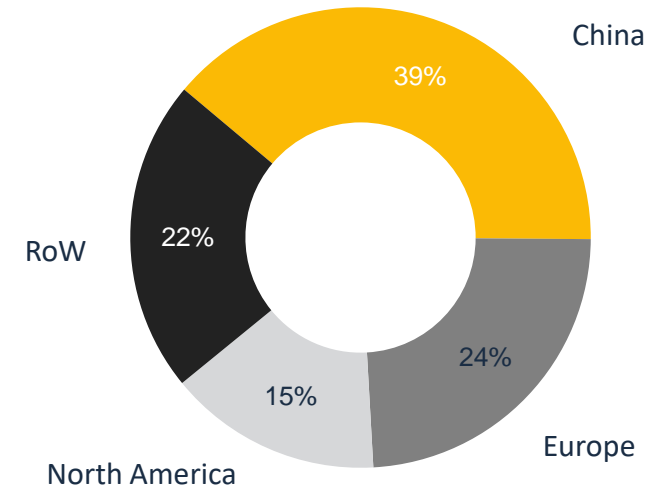
We reduce sourcing risk

→ Current magnet production capacity



We reduce production risk

→ EV production by 2030



Our approach

- Sustainable and China-independent supply chain
- Manufacture in Europe and USA to satisfy local customer requirements
- Become a key player in North America and Europe, sourcing outside of China

Our go to market and industrialisation plans are being executed

> Targeting both OEM's and Tier 1's

- Leveraging existing relationships

> Compelling value proposition

- De-risking the supply chain
- Supporting local content requirements
- Strong presence in focus regions

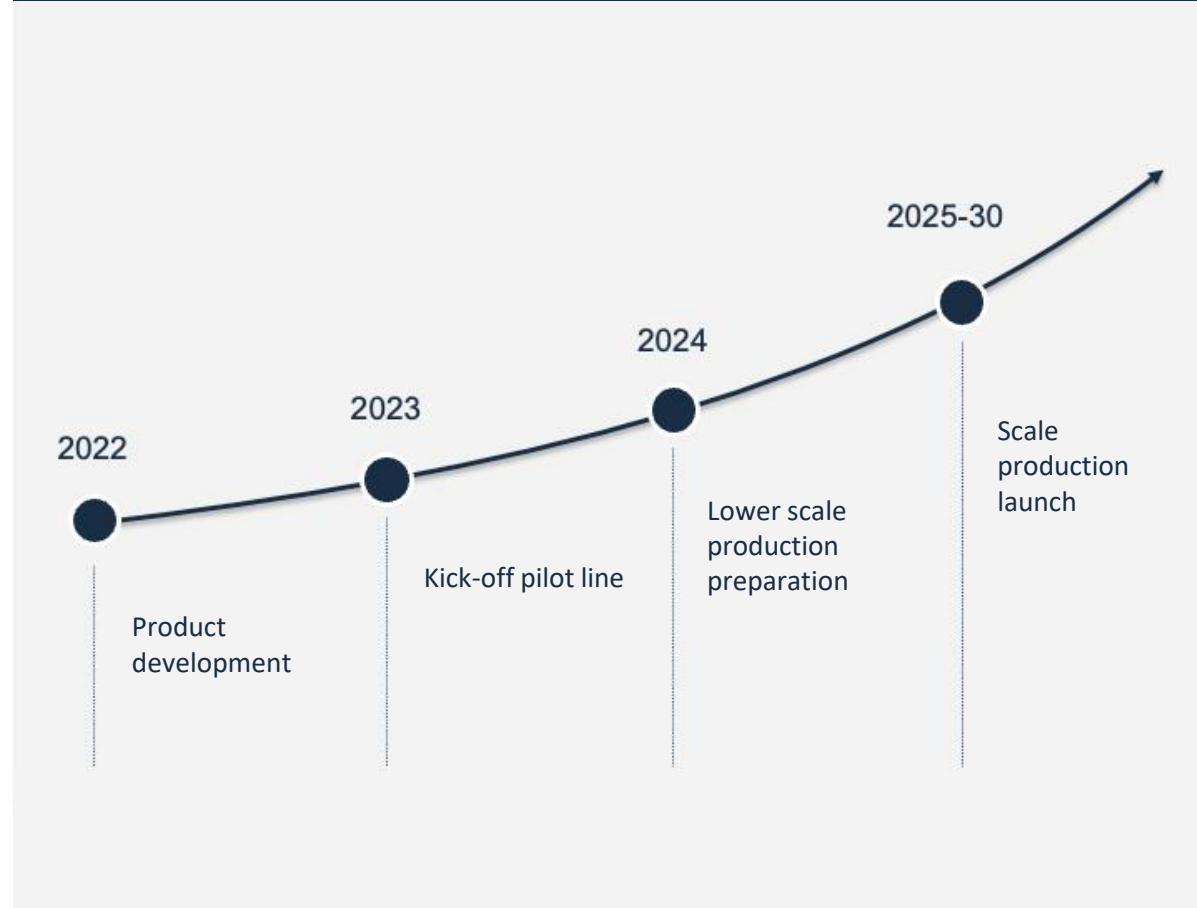
> Differentiated positioning

- Automotive specialist
- Advanced material science & process expertise
- Local support and development capabilities

> Creating business opportunities

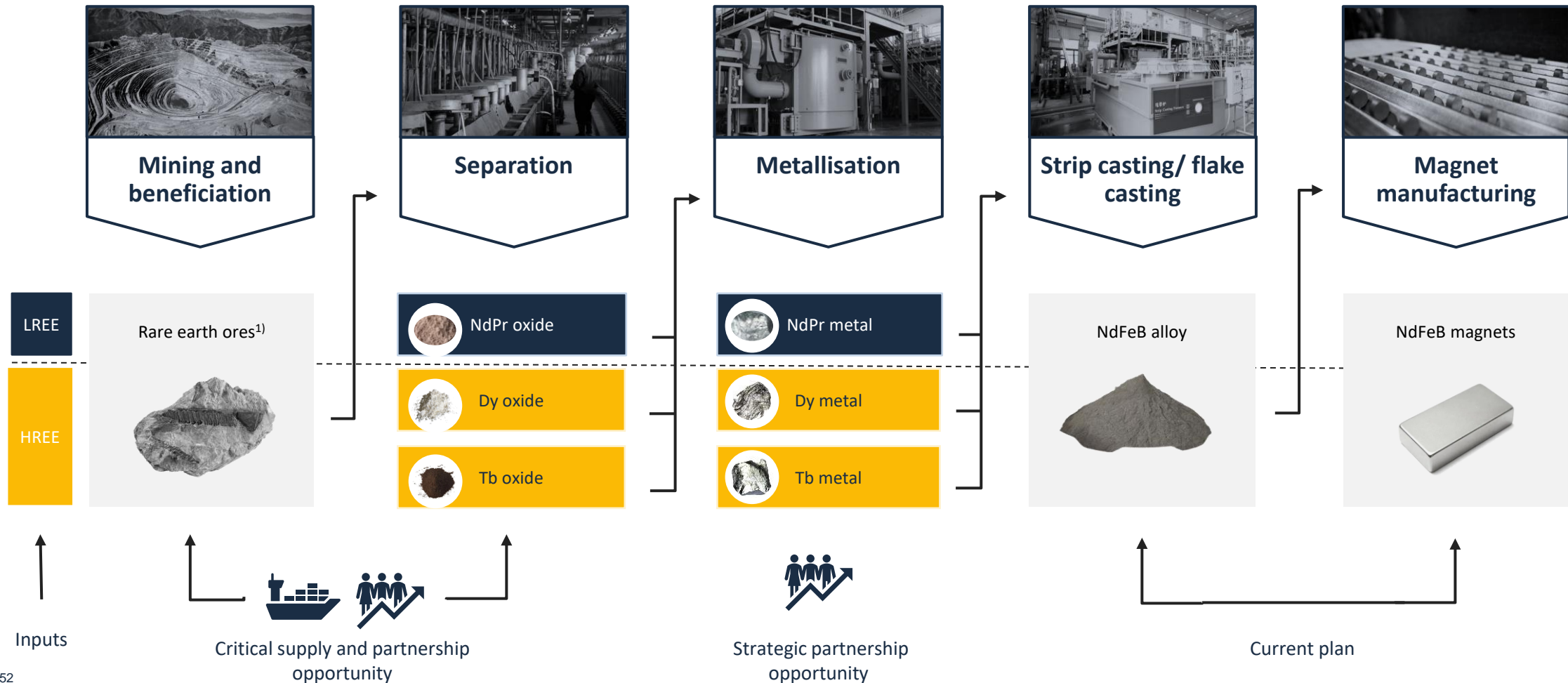
- Schaeffler MOU in place
- Extensive discussions with major BEV-players

Industrialisation Journey



Connecting the value chain for reliable sourcing of magnets

Process Steps

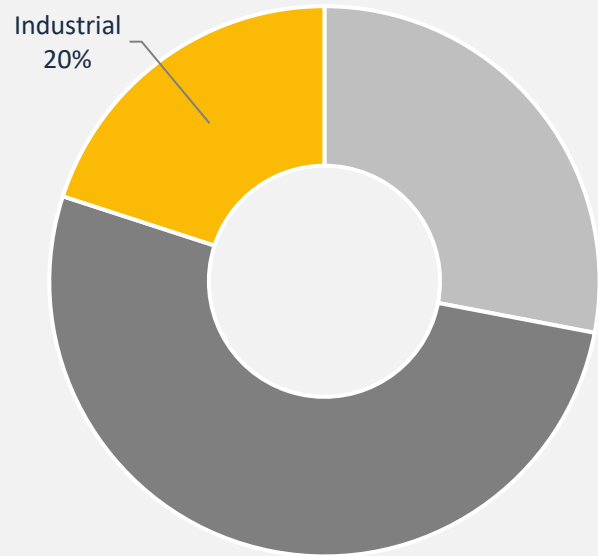




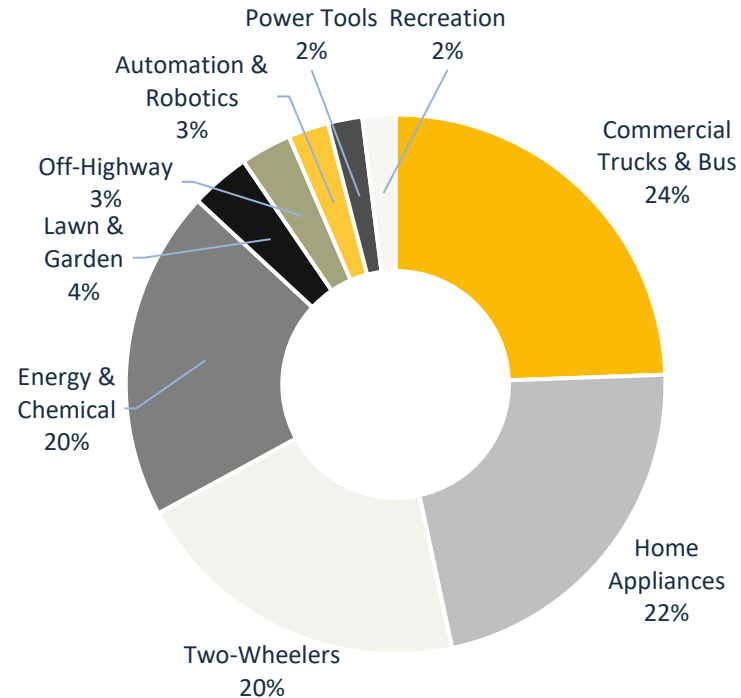
> Beyond the Car Market
&
Additive Manufacturing

Green transition also attracting opportunities for our Industrial segment

A relevant part of our business today



With diverse applications



And opportunity to expand

- The green transition is evident in all other non-automotive applications
- Hydrogen generation and storage
- Green-Hydrogen generation is replacing other processes from methane
- Alternative e-mobility growing, such as e-bikes and -scooters
- ICE elimination in other vehicle types, such as lawn and garden

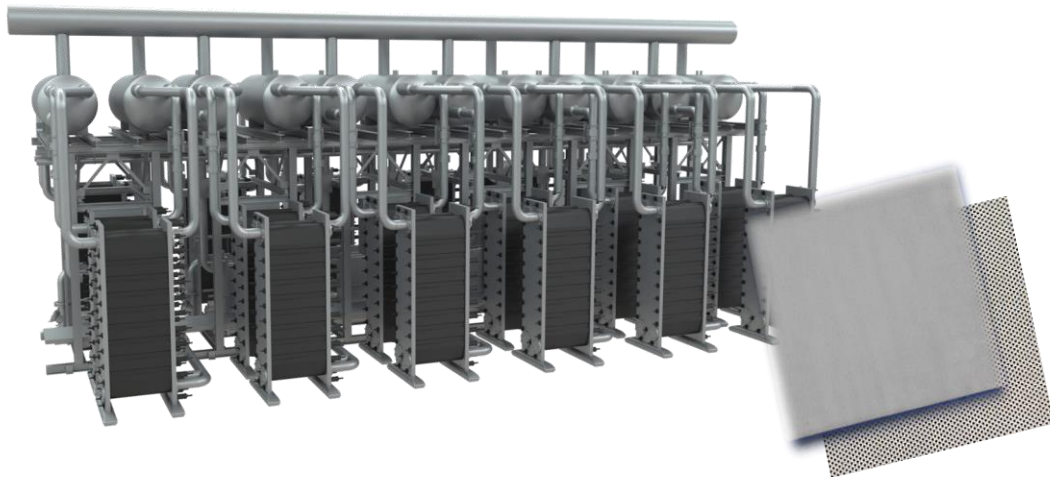
Possibilities cover a vast range of the industrial sector

Industrial – Focus on high growth sectors

Filters are key part of our Industrial portfolio

There is a growing demand for electrolysers in the market, which brings opportunity

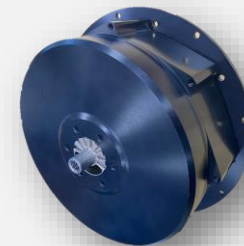
- Porous Transport Layer is a key component for the PEM electrolyser
- Efficient PTL offers the opportunity to reduce the cost of the equipment
- GKN offers a highly efficient PTL material



Gearbox for e-Bike developed from Valeo with high PM content



Premium segment: high torque motor for high-Speed E-Bike

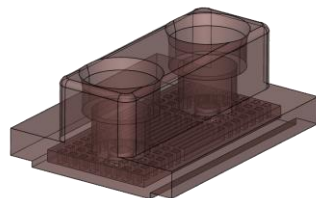


Amplifying possibilities with Additive Manufacturing

Low-scale metal additive manufacturing

Artificial Intelligence requires significant computational power.

- ➔ The generated heat quantity requires specific solutions
- ➔ Housing for microprocessor with internal cooling channel
- ➔ Design not feasible with any other production technology



Individual solutions for electric luxury cars

- ➔ Steering wheel cover for Cadillac Celestiq
- ➔ Move AM from Prototyping to small series





> Key Takeaways

- Our industry is changing rapidly
- Powder Metallurgy is adapting and developing new solutions for BEV applications
- We have clear opportunities in both automotive and industrial segments
- Magnets and battery materials add a prospect to grow above the market
- We are focussed on maintaining our market and engineering leadership to drive growth, whilst improving our financial results

LET'S SHAPE OUR FUTURE



[Who is GKN Powder Metallurgy](#)



[Our automotive solutions](#)



[Let's shape our future](#)



gknpm.com





AUTOMOTIVE
OVERVIEW



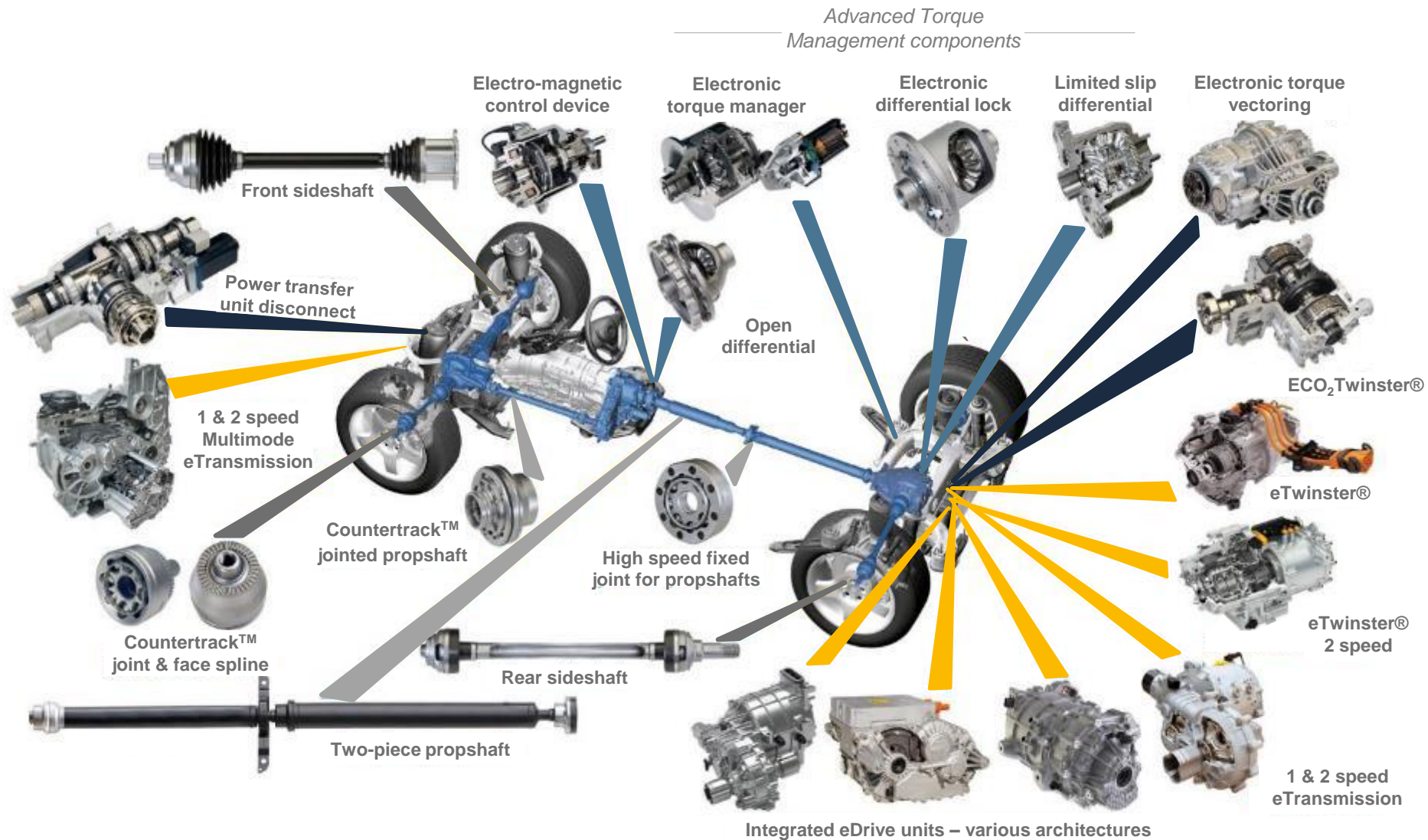
GKN Automotive Overview

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October 2023

GKN Automotive business at glance

GKN Automotive comprehensive product portfolio



Sideshafts

Propshafts

AWD systems

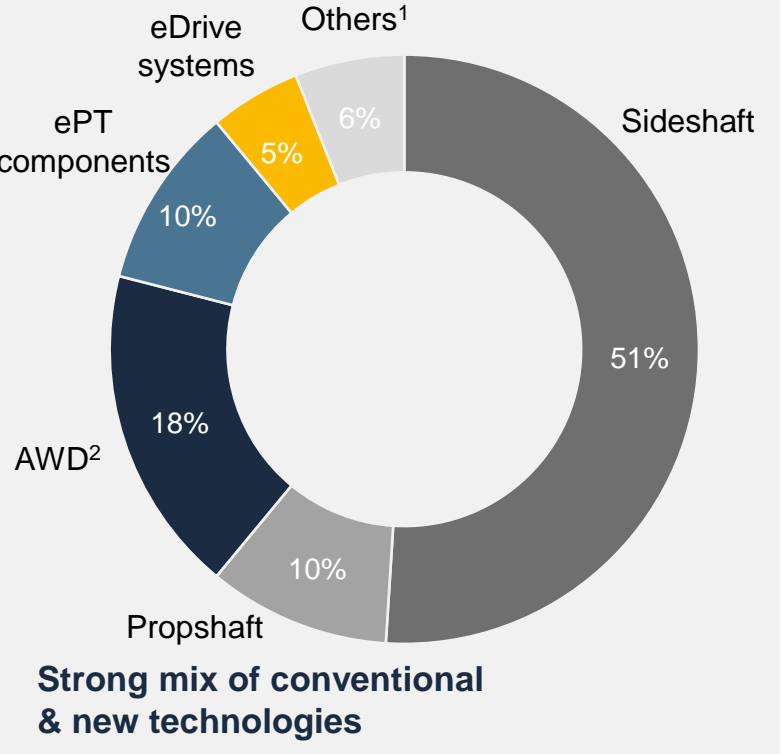
eDrive systems

ePT components

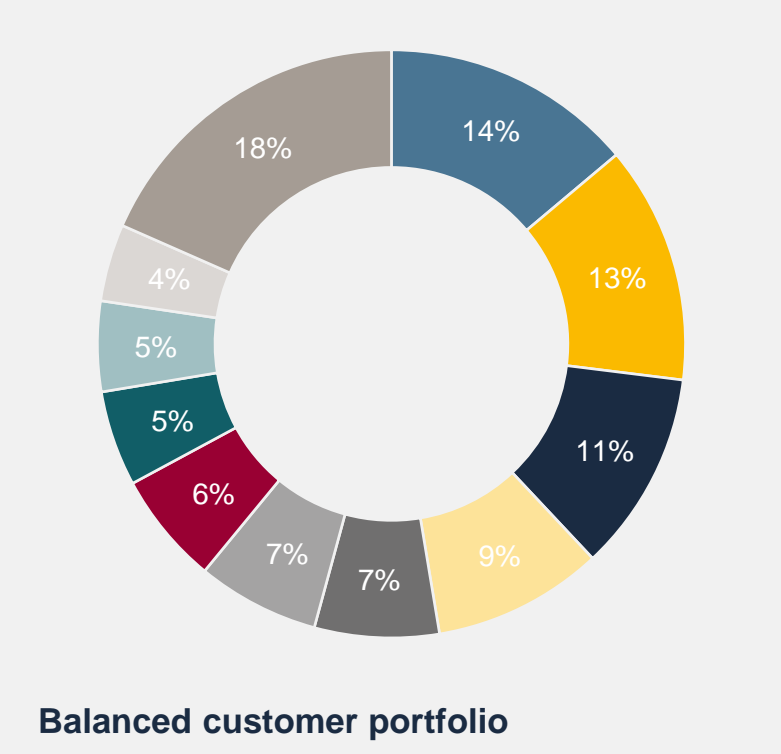
GKN Automotive business at glance



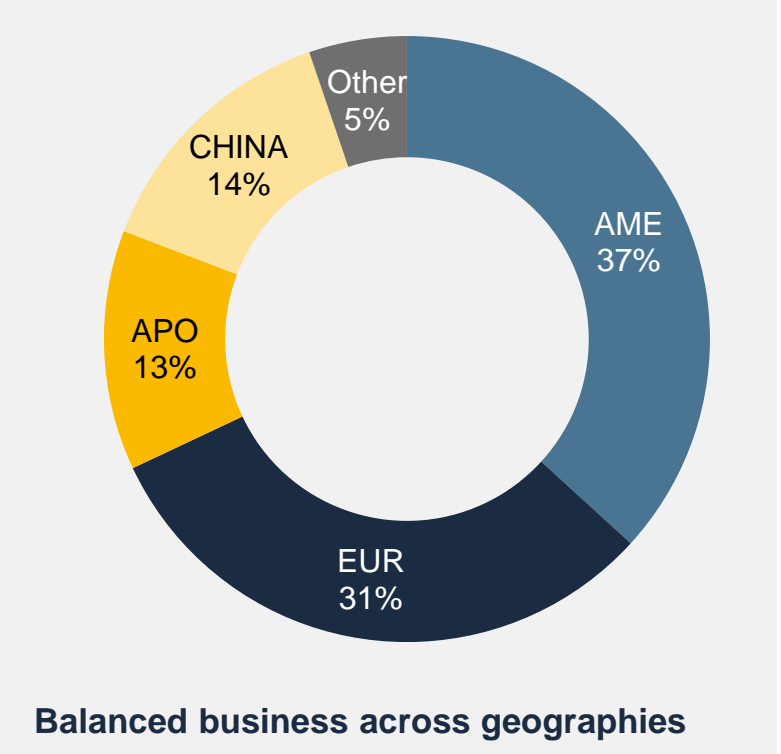
Product mix, 2022¹



Customer mix, 2022¹



Geographical Mix 2022¹



A globally balanced business across products, customers and regions

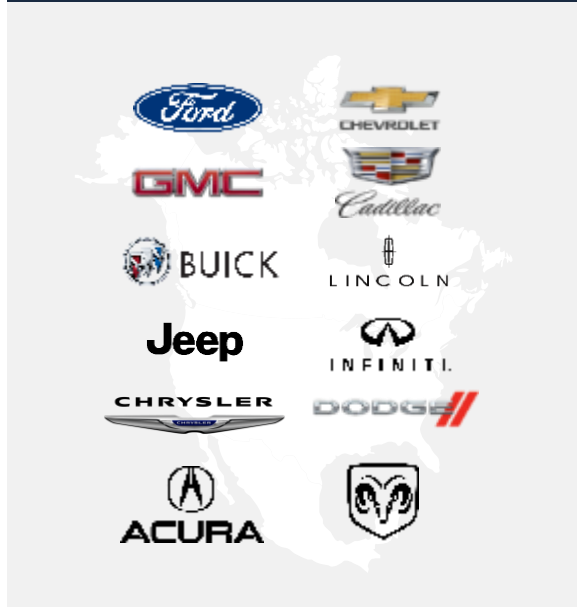
¹ Based on 2022 Actuals, Includes JVs, FSL, Aftermarket, Cylinder Liners at GKN share; ² All-Wheel Drive; ³ Includes Niche, Motorsports, and Aftermarket

⁴ Internal combustion engine (ICE), battery electric vehicle (BEV); BEV includes fuel cell, series-hybrid and REEV vehicles

We work with 90% of global OEMs



Americas



Europe



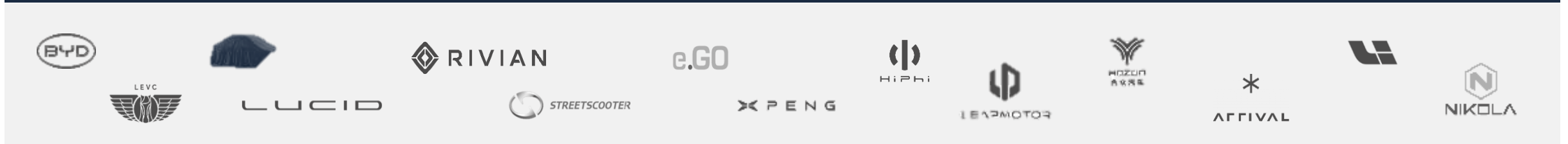
Asia-Pacific



China



Pure-play EV OEMs



Strongly positioned with traditional and emerging OEMs across all regions

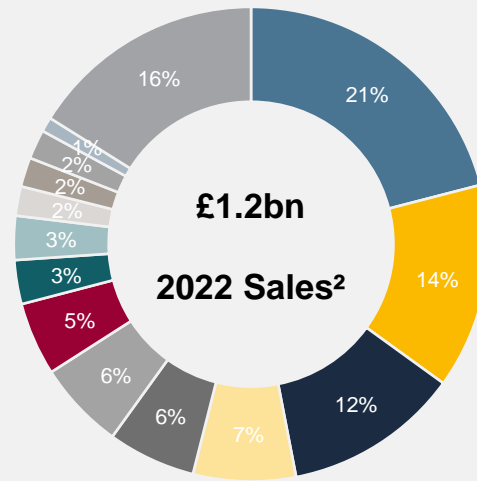
We are well positioned to capture ongoing growth in China



Key highlights

- 30+** years of experience through successful JV with HASCO Group
- #1** market leader in sashesafts & propshafts
- 10** production sites
- 9** live or launch-phase eDrive programmes

Balanced customer case



Selected local OEM's brands

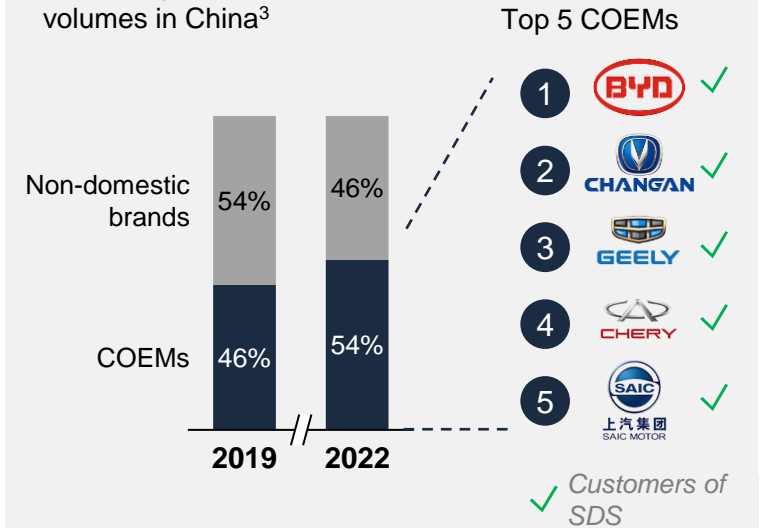


Selected global OEM's brands



Increasing COEMs share in China

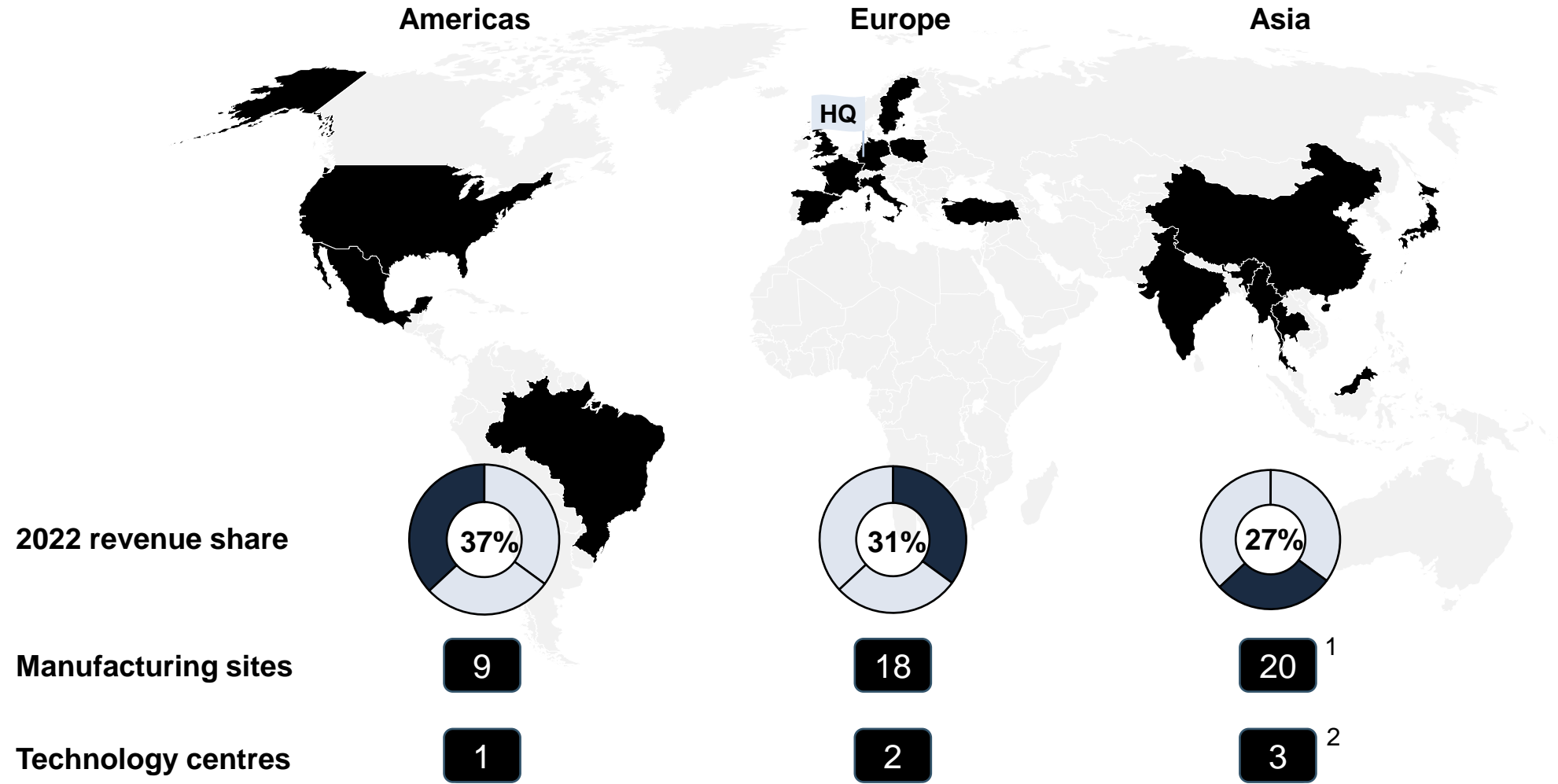
Brand origin of LV production volumes in China³



- > GKN Automotive already supplies top Chinese OEMs in their domestic market
- > Target to further increase share of sales with COEMs

1. Including China JV employees; 2 JV sales at 100% of which GKN has 50% share 3. Categorization based by vehicle brand - S&P production forecast of Sep 2023

We have a well-balanced global footprint



¹ Incl. 10 from JV; ² Incl. 1 from JV

Our capabilities based on a strong manufacturing expertise and engineering / technology know-how



Manufacturing and process capabilities



Precision Forming

- ➔ Forgings for CV joints
- ➔ 9 sites globally



CNC Machining

- ➔ Gears and functional surfaces in CV joints
- ➔ 31 sites globally



Heat treatment

- ➔ Induction hardening, carburising and carbonitriding, of machined components
- ➔ 31 sites globally



Surface treatment

- ➔ Painting of parts
- ➔ 11 sites globally



Automated Assembly

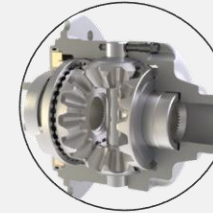
- ➔ Full / largely automated assembly of CV joints, driveshafts, AWD & eDrive systems & components
- ➔ 26 sites globally



eMotor assembly

- ➔ Full vertical integration of eMotor assembly under industrialisation

Engineering and technology know-how



Mechanical engineering

- ➔ +2,000 engineers WW
- ➔ +1,500 patents granted
- ➔ 6 technology and innovation centers



SW development

- ➔ 15+ yrs of Auto SW & 5+ yrs of traction inverter experience
- ➔ AUTOSAR SW history / ASPICE L2 proven processes
- ➔ +300 engineers across Germany, US, and India



Systems integration

- ➔ System design support, simulation support, problem resolution support, validation support
- ➔ 11 application eng and 4 vehicle testing facilities

GKN Automotive business priorities

We continue working on our priorities

Focus next slides



① Portfolio Transition



Accelerate the electrification transition → focusing commercial operating model



Adapt portfolio and secure market leading EV order intake



Win profitable, niche eDrive system programs



② Margin Expansion



Streamline our industrial footprint, shifting towards Best-Cost-Countries



Improve operational efficiency through automation, productivity and continuous improvement initiatives



③ Cash Generation



Emphasize quality of earnings (cash conversion)



Improve data visibility and focus strategy on cash control

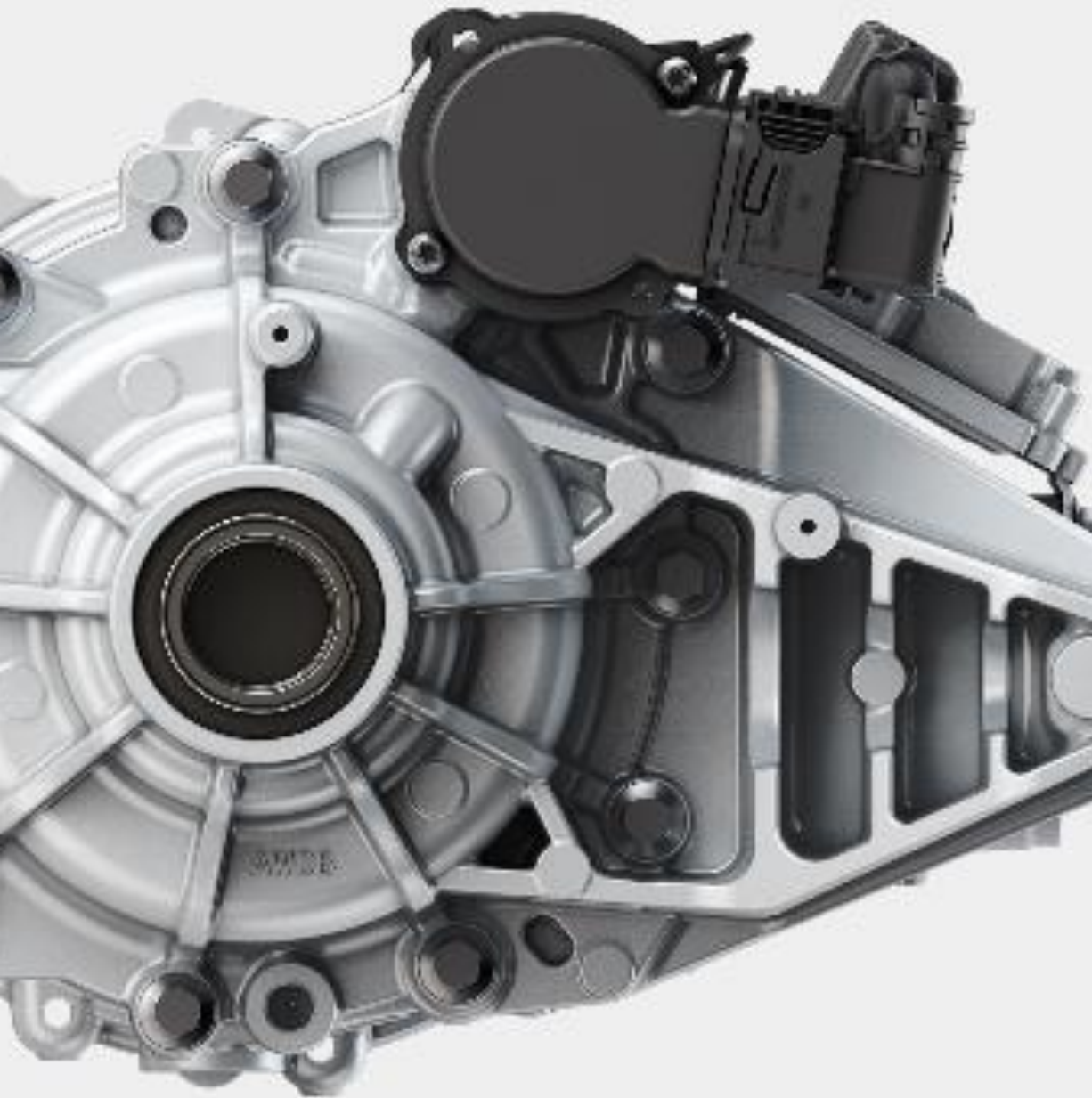
Our portfolio is increasingly propulsion agnostic



Product		Impact of electrification	Share of sales 2022 (%)	Share of sales 2028F ¹ (%)	Strategy
Sideshafts					<ul style="list-style-type: none"> Market leader for both ICE & EVs Growth forecast through content increase and further share gains
ePT components			~70%	>80%	<ul style="list-style-type: none"> Market leader in advanced differentials Growth forecast as addressable market increases
eDrive systems					<ul style="list-style-type: none"> Prudent investment in targeted technology developments and selective program choices to deliver profitable growth
Propshafts			~30%	<20%	<ul style="list-style-type: none"> Limit investments, maximising utilisation of existing assets Maximise portfolio profitability and cash generation
AWD systems					<ul style="list-style-type: none"> Heritage capabilities, very relevant as portfolio transitions to ePT components

Positive impact from electrification Negative impact from electrification

¹ Estimated share of sales based on market data and GKN Automotive internal order book and revenue forecasts



Our product portfolio strategy

Propshafts

Manage

Sids shafts

Grow

AWD + ePT Components

Transition

eDrive Systems

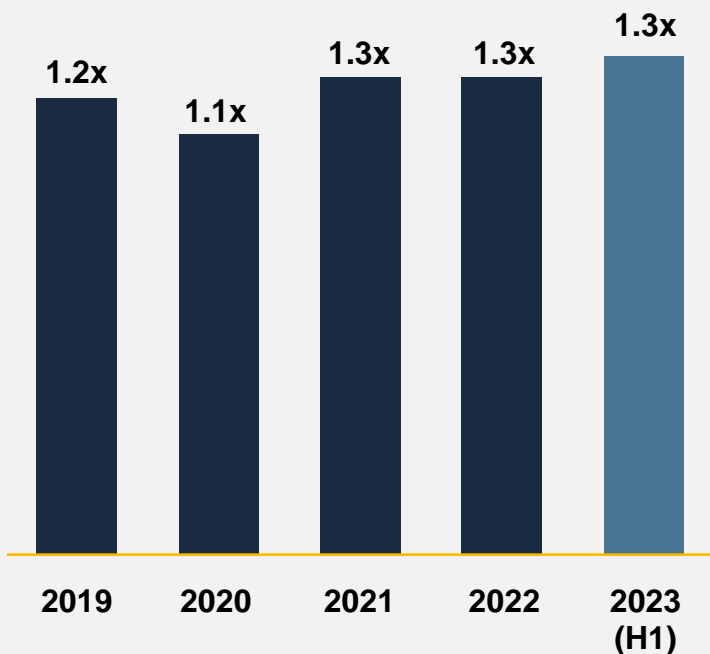
Selective

1

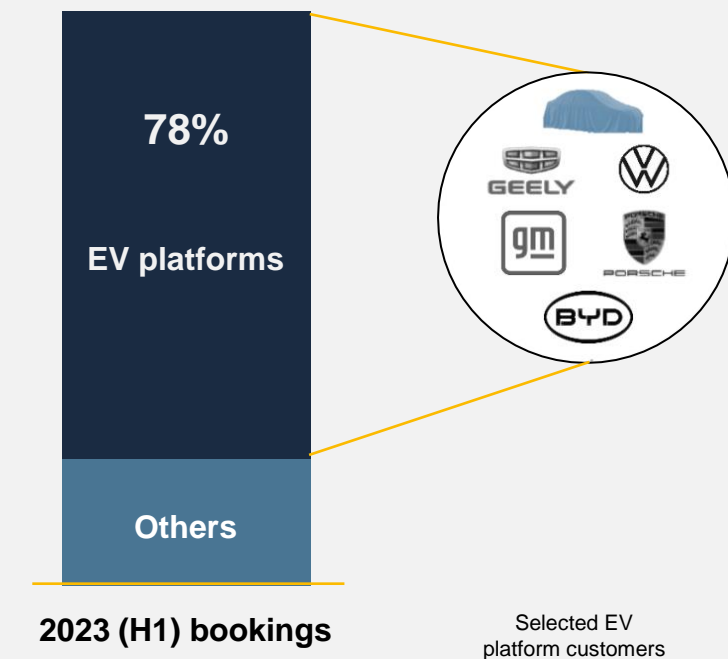
Strong bookings value, heavily focused on EVs and above target profit margins

H1 performance

Driving growth Book-to-bill ratio¹



Winning in EV H1 order book², %



- > Record level of new business bookings secured in H1 2023
- > >£3bn lifetime revenue awarded at a book-to-bill ratio of 1.3x
- > 78% of new business awarded on EV platforms (73% pure BEV)
- > Awards from Global, local Chinese and pure BEV customers
- > Profitable new business wins supporting margin expansion objectives

1. Book-to-bill ratio refers to the ratio of revenues to lifetime revenue of new business bookings within the given time-period, reported FX rate, excluding aftermarket, cylinder liners and freight services 2. Lifetime revenue split of business booked in H1 2023

We are on-track to expand our profit margin

Our financial model to drive margin expansion

H1 2022

3.2%

Volume/mix

Inflation

Price

Labour

Performance

H1 2023

6.5%

Principle



Volume/Mix: Incremental volume provides margin tailwind



Inflation/Price: Price recoveries and purchasing productivity offset material inflation



Labour/Performance: Labour inflation offset by productivity improvements and continuous improvement initiatives

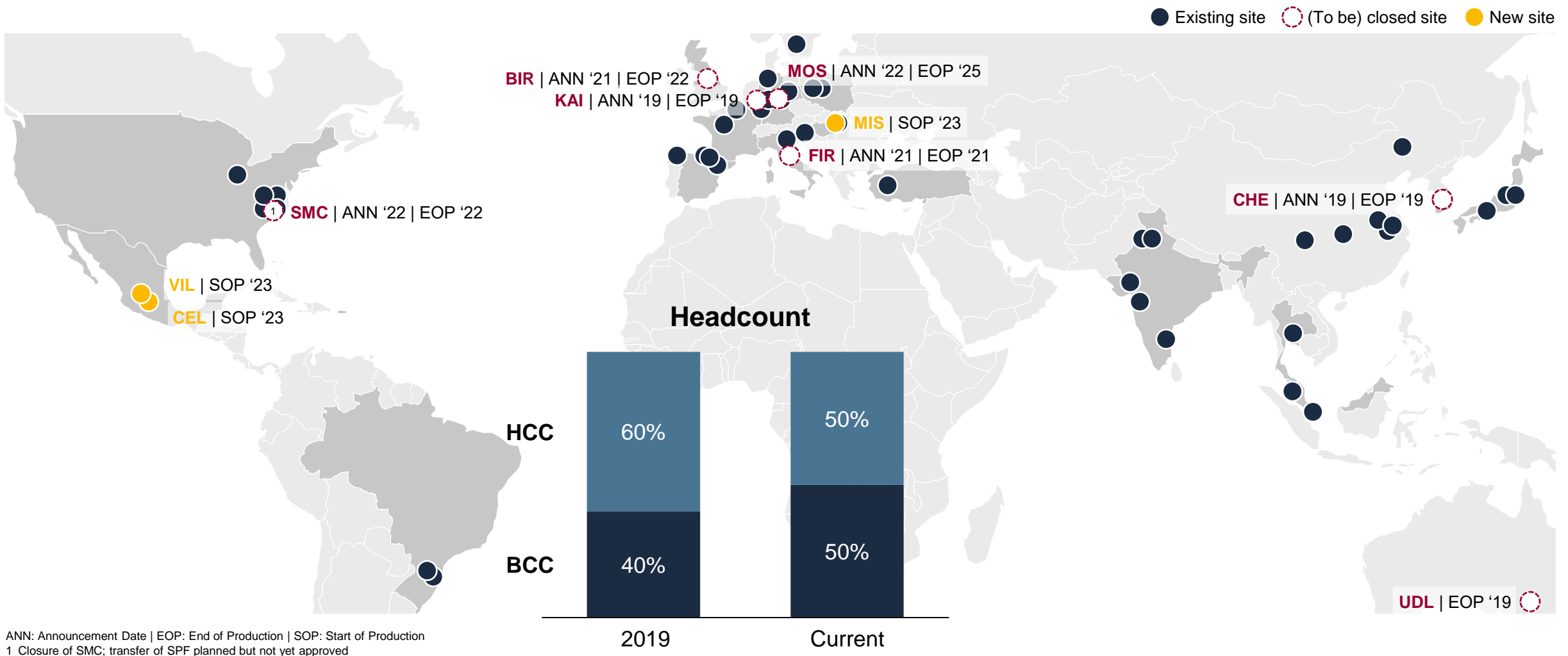
H1 2023 proof points

- £3bn of new business bookings, above target margins; consistently >100% book:bill ratio
- >75% of direct and indirect material inflation offset by purchasing efficiencies and price recoveries
- Continuous improvement initiatives (productivity efficiencies and automation) offsetting labour inflation and incremental benefits from completed/ongoing restructuring

We develop our footprint, shifting towards more cost-effective locations...



CONFIDENTIAL



ANN: Announcement Date | EOP: End of Production | SOP: Start of Production
 1 Closure of SMC; transfer of SPF planned but not yet approved
 2 Excluding Aftermarket sites

...started production in new plants in Mexico and Hungary

~16k sqm




Mexico
Villagran

Operational as of March 2023

- Production expansion to accommodate sidshaft business growth
- Additional raw material warehouse to improve process flow

~12k sqm




Mexico
Celaya

Operational as of March 2023

- Production expansion to accommodate sidshaft business growth
- New engineering centre consolidating offices, testing, prototyping

~60k sqm¹




Hungary
Miskolc

Operational as of Sep 2023

- New site to increase BCC production share & accommodate business growth
- 2nd building step launched to accommodate component production

¹ Includes 2nd building construction step

Summary

- We are the **#1 global drive system supplier** with a well-balanced product, customer and geography mix
- We have developed strong, long-lasting partnerships with our **global customer base** and are well positioned to capture growth in China
- Our **comprehensive drive system portfolio** is well aligned to the needs of electrified platforms
- We are making a significant impact on our operating cost base through investments in **footprint optimisation and productivity improvements** to enable significant margin expansion



AUTOMOTIVE
TECHNOLOGY



GKN Automotive Technology

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October 2023

Drivetrain and Powertrain Architectures

Drivetrains and Powertrains

Architectures and Products



Drivetrains and Powertrains

Architectures and Products



- Front Wheel Drive
- Front Sideshafts

Drivetrains and Powertrains

Architectures and Products



Drivetrains and Powertrains

Architectures and Products



- Front Wheel Drive
- Front Sideshafts

- All-Wheel Drive
- Rear Sideshafts and Propshaft

- Complete integrated All-Wheel Drive
- Differential, PTU, RDU & Software

Drivetrains and Powertrains

Architectures and Products



- Front Wheel Drive
- Front Sideshafts

- All-Wheel Drive
- Rear Sideshafts and Propshaft

- Complete integrated All-Wheel Drive
- Differential, PTU, RDM & Software

- Hybrid Electric Vehicle
- eTransmission, Motor, Inverter & Software

Drivetrains and Powertrains

Architectures and Products



- Front Wheel Drive
- Front Sideshafts

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Drivetrains and Powertrains

Architectures and Products



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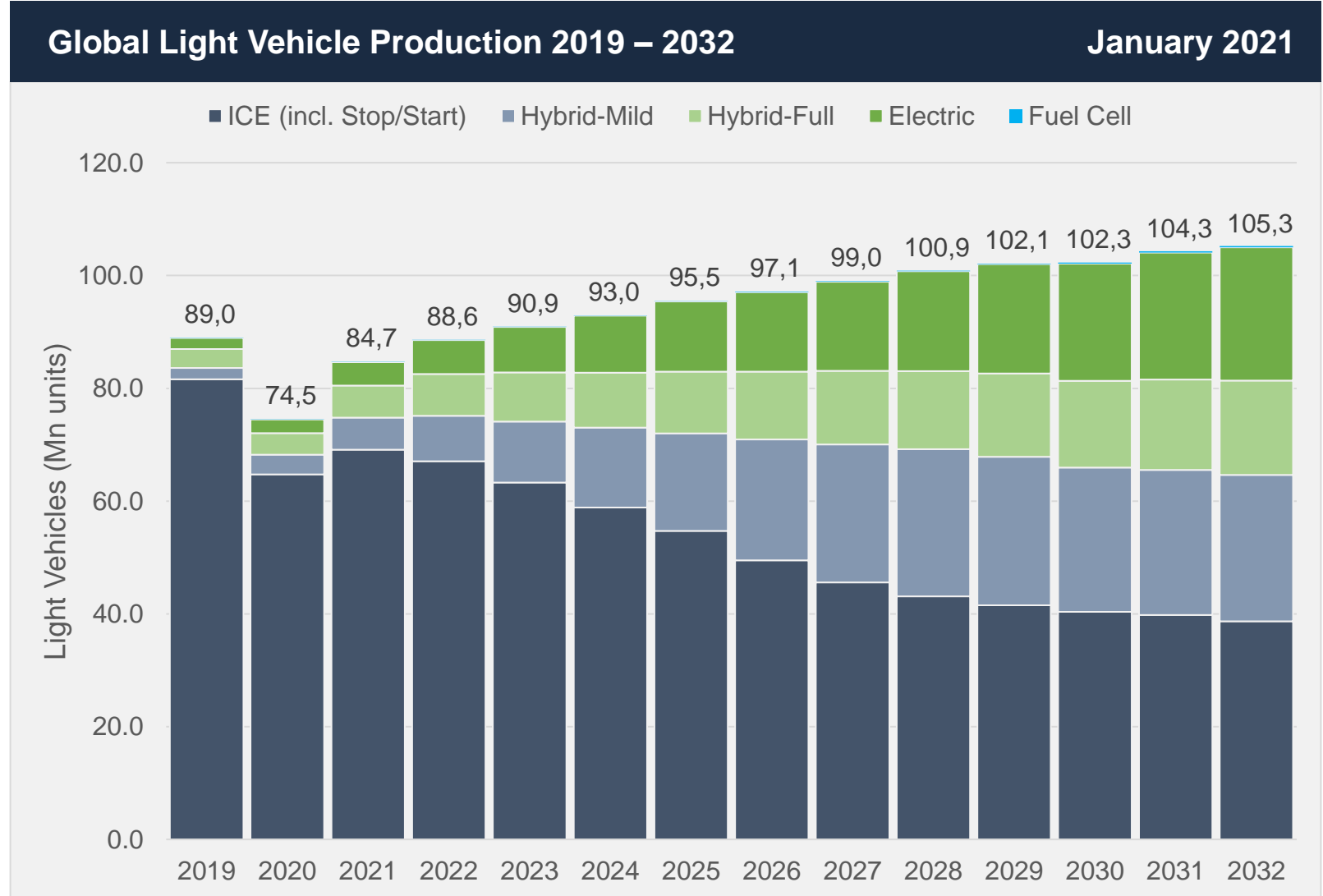
- Electric Vehicle AWD
- eTransmission, Motor, Inverter & Software

Light Vehicle Market

Market Analysis






Propulsion System - Global volume projection

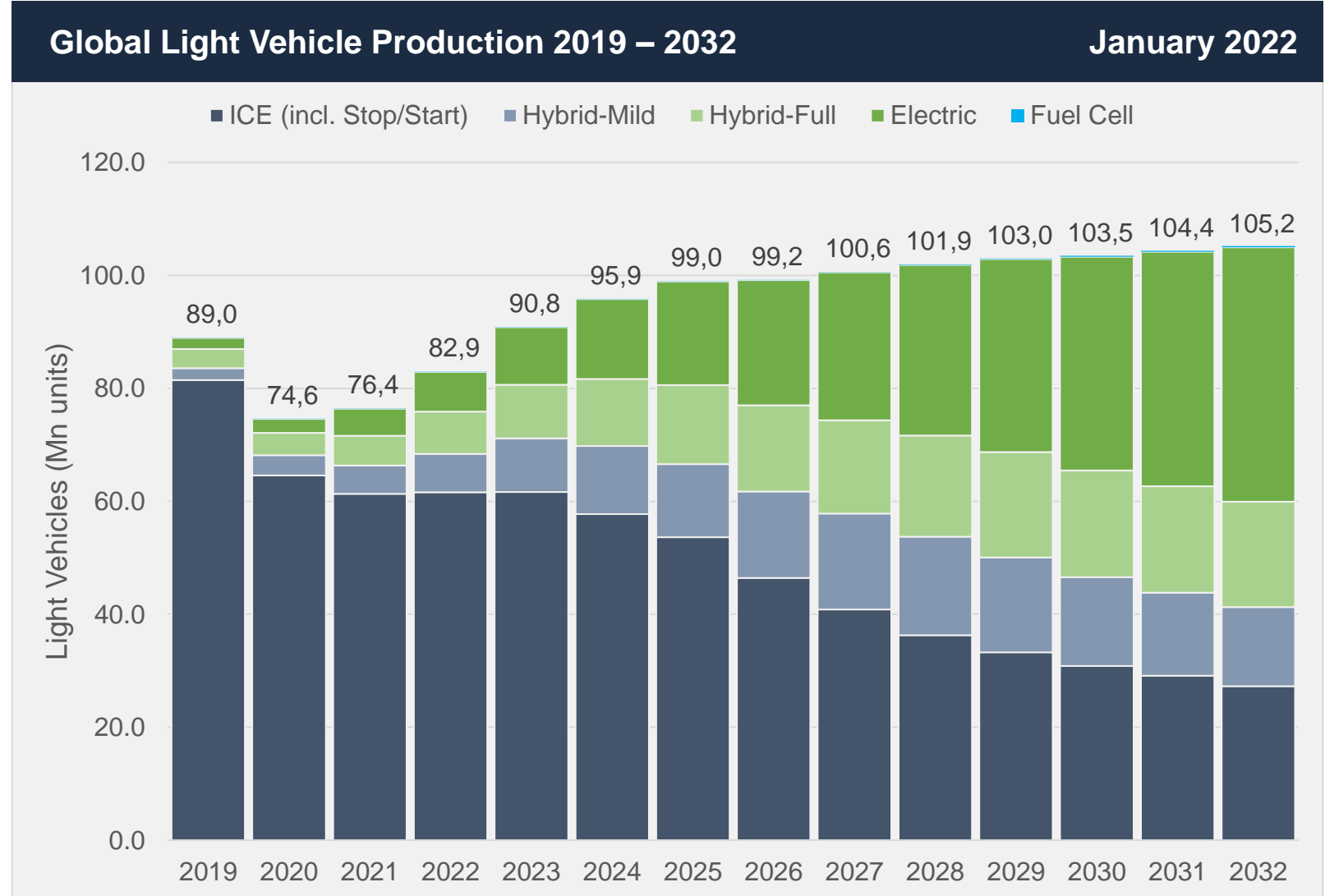
Propulsion System Design	Example
FCV (Fuel Cell Vehicle)	 <i>Toyota Mirai</i>
BEV (Battery Electric Vehicle)	 <i>Audi e-tron GT</i>
Hybrid-Full (incl. PHEV)	 <i>Volvo XC90 T8</i>
Hybrid-Mild (<65V System Voltage)	 <i>Fiat 500 MY 2020 Hybrid</i>
ICE (incl. stop/start) (Internal Combustion Engine)	 <i>Mazda CX-5</i>



Market Analysis






Propulsion System - Global volume projection

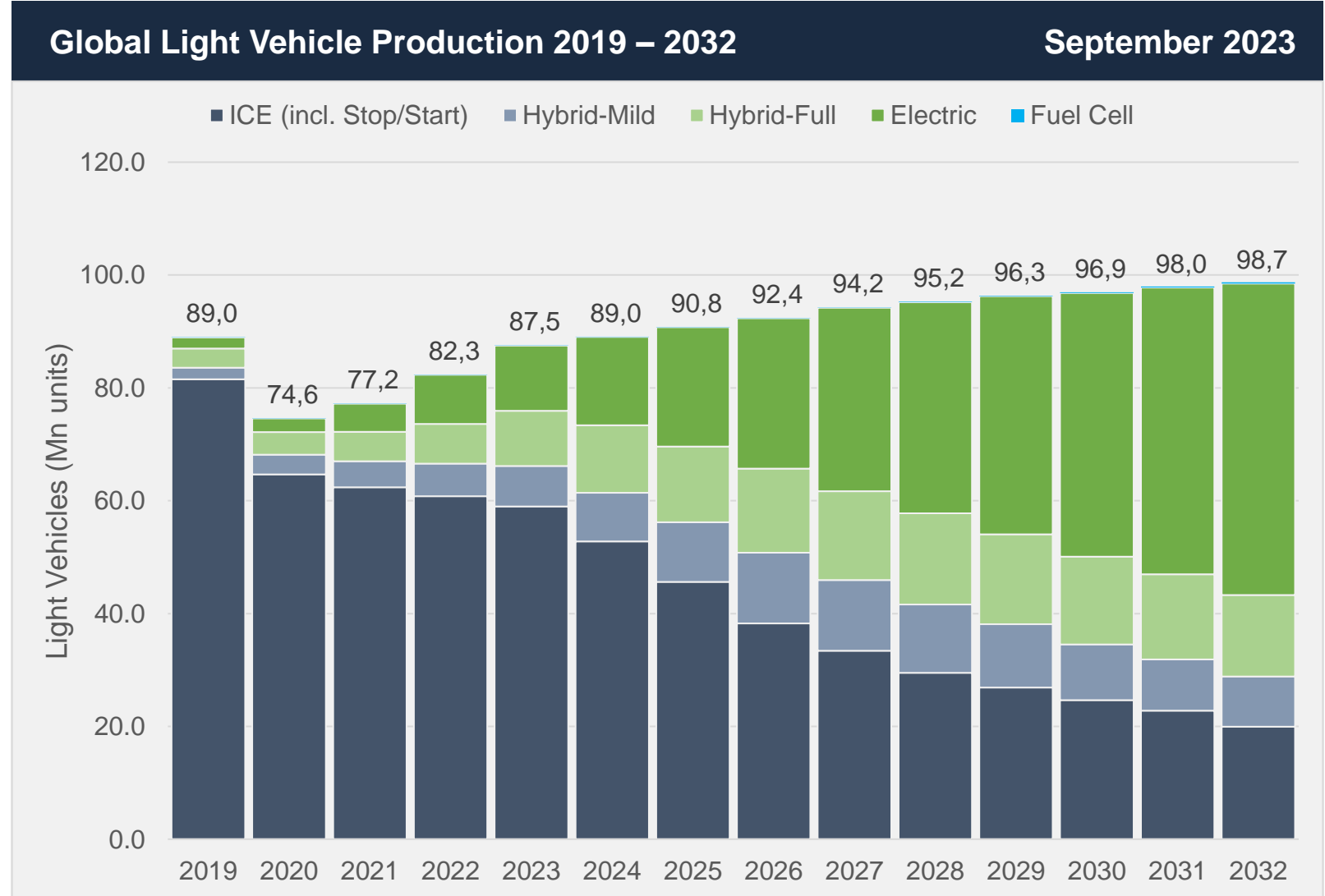
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Market Analysis

Propulsion System - Global volume projection

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GKN Automotive Engineering

GKN engineering strategic pillars

Market & Customers

- > Customer-focused organisation from multi-perspectives including commercial, engineering and quality
- > Enhanced frequency of interactions and capability exchange e.g., tech days and other events



Business Processes

- > Fit-for-purpose business processes according to product evolution e.g., program management and supplier integration
- > ASPICE-compliant and industry product safety requirements-adherent
- > Proactive resource planning and risk management



Engineering & Product Roadmap

- > Complete eDrive portfolio with systems, modules and components for main and secondary drive
- > End-to-end driveline solutions for electrified vehicles i.e. torque generation, management and transfer



Systems Business Capabilities

- > Exponential growth in systems knowhow and expertise with focus on software and electronics
- > Active development of partnership with leading market players for alternative systems business approach



Global Production

- > Lean and improved production footprint for optimal global reach at best cost
- > Institutionalised production standards



GKN Automotive Engineering

Global Footprint and Capabilities



Technology centres

- 01 Lohmar, Germany
- 02 Bangalore, India
- 03 Auburn Hills, USA
- 04 Shanghai, China
- 05 Daikoji, Japan
- 06 Abingdon, UK

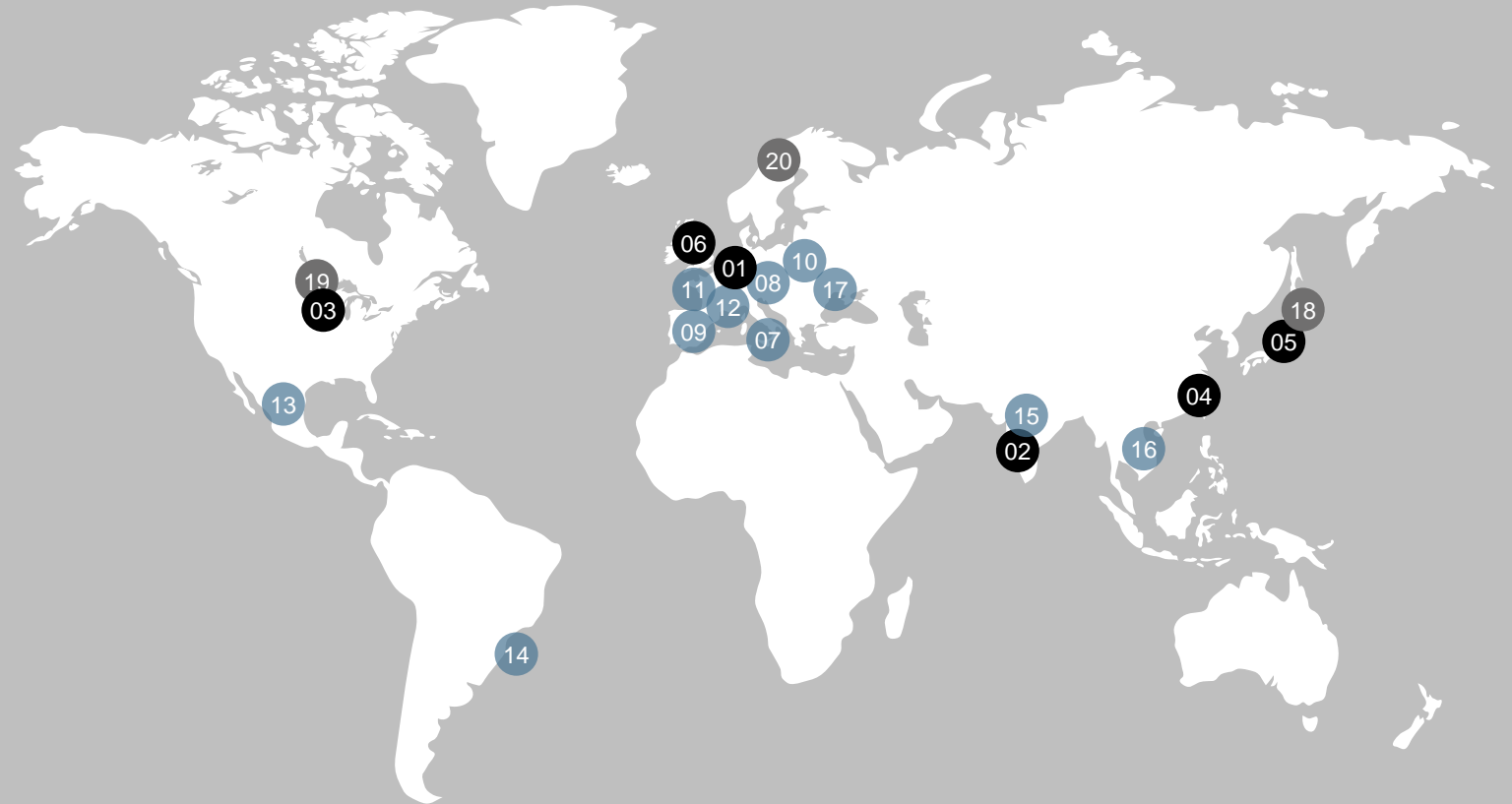
Application engineering

- 07 Bruneck, Italy
- 08 Offenbach, Germany
- 09 Zumaia, Spain
- 10 Olesnica, Poland
- 11 Poissy, France
- 12 Arnage, France
- 13 Celaya, Mexico
- 14 Porto Alegre, Brazil
- 15 Faridabad, India
- 16 Rayong, Thailand

17 Miskolc, Hungary – new site with Engineering capabilities

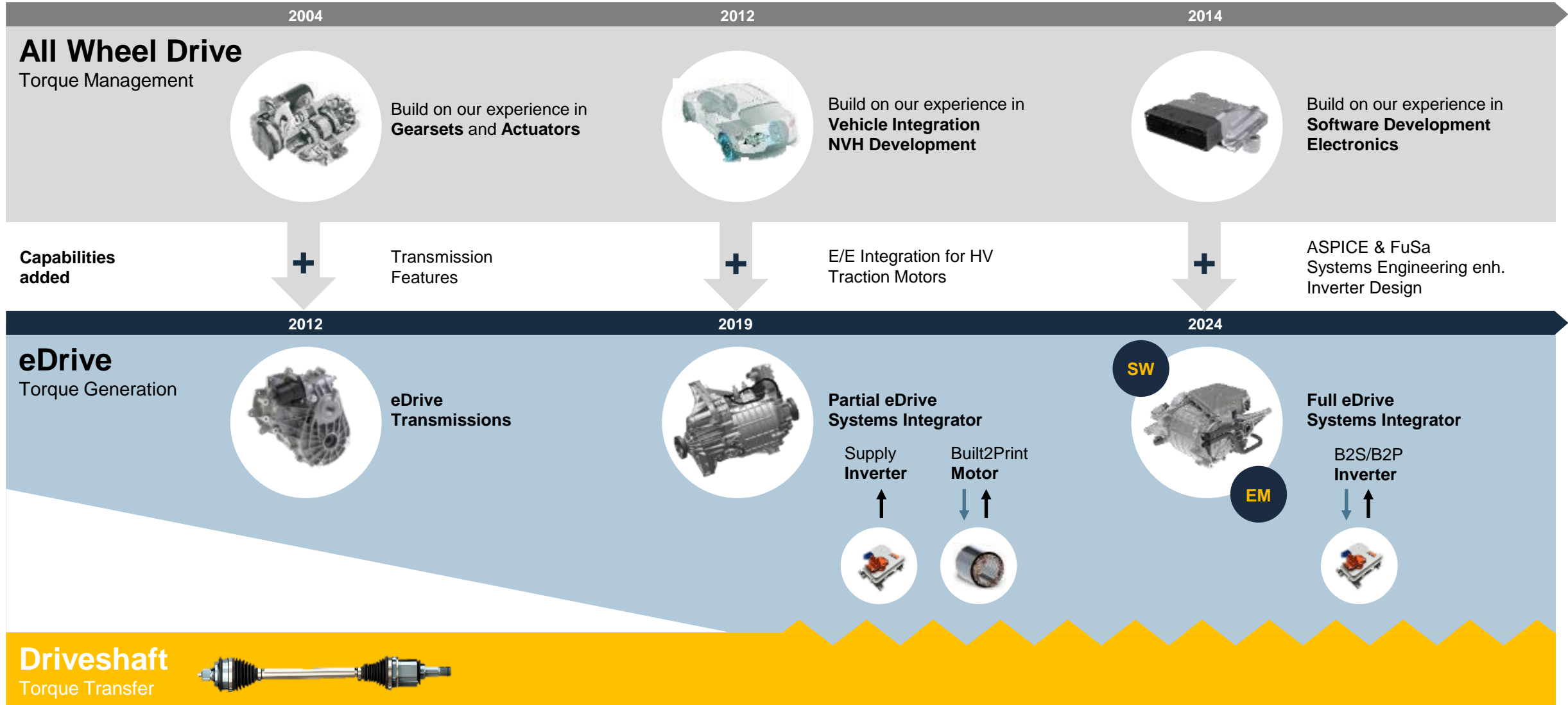
Vehicle test facilities

- 18 Tochigi, Japan
- 19 Raco, USA
- 20 Arjeplog, Sweden



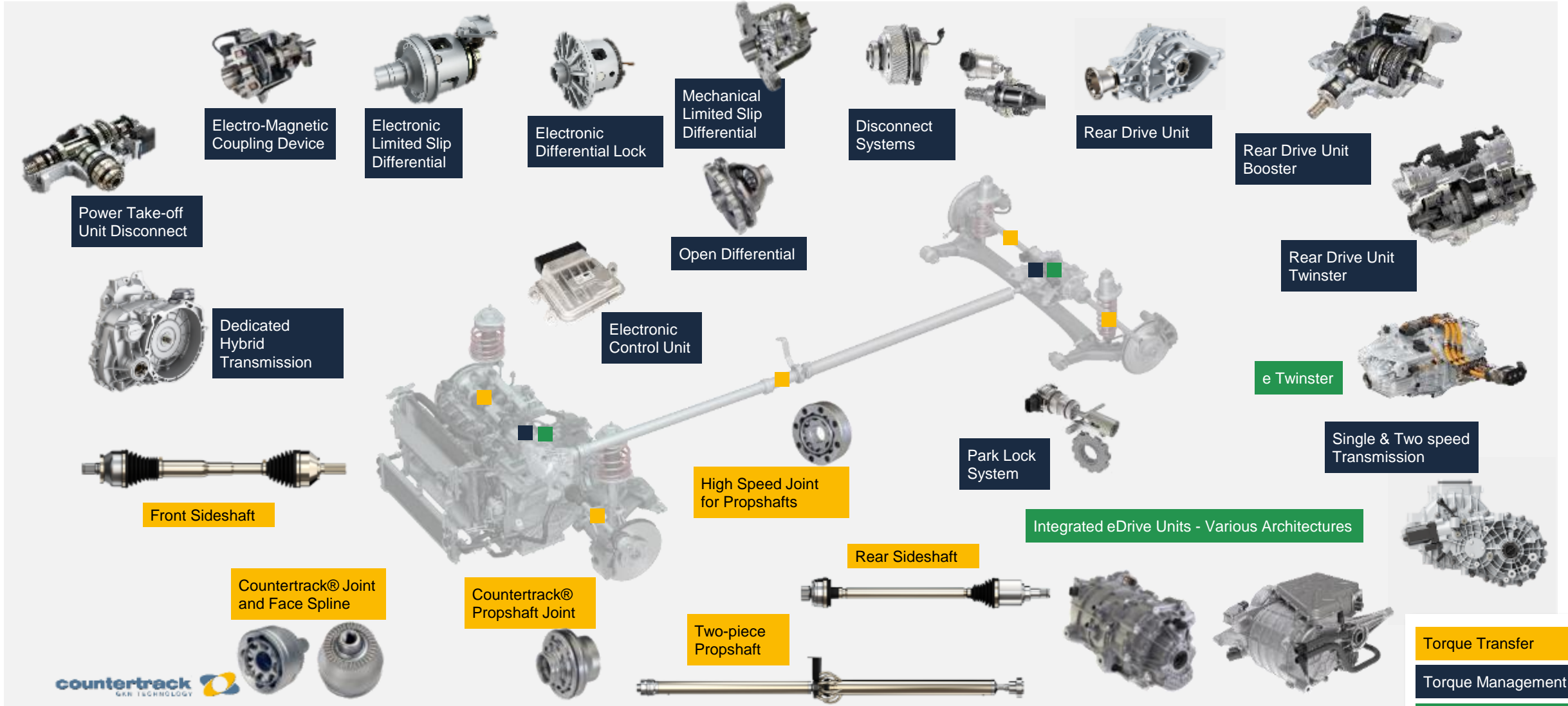
Systems Engineering

Portfolio expansion & capability development building on traditional products



Comprehensive product portfolio

Driveline, AWD and eDrive Systems



Torque transfer – Sideshafts and Propshafts

Understanding the market drivers

Where do we go from here?

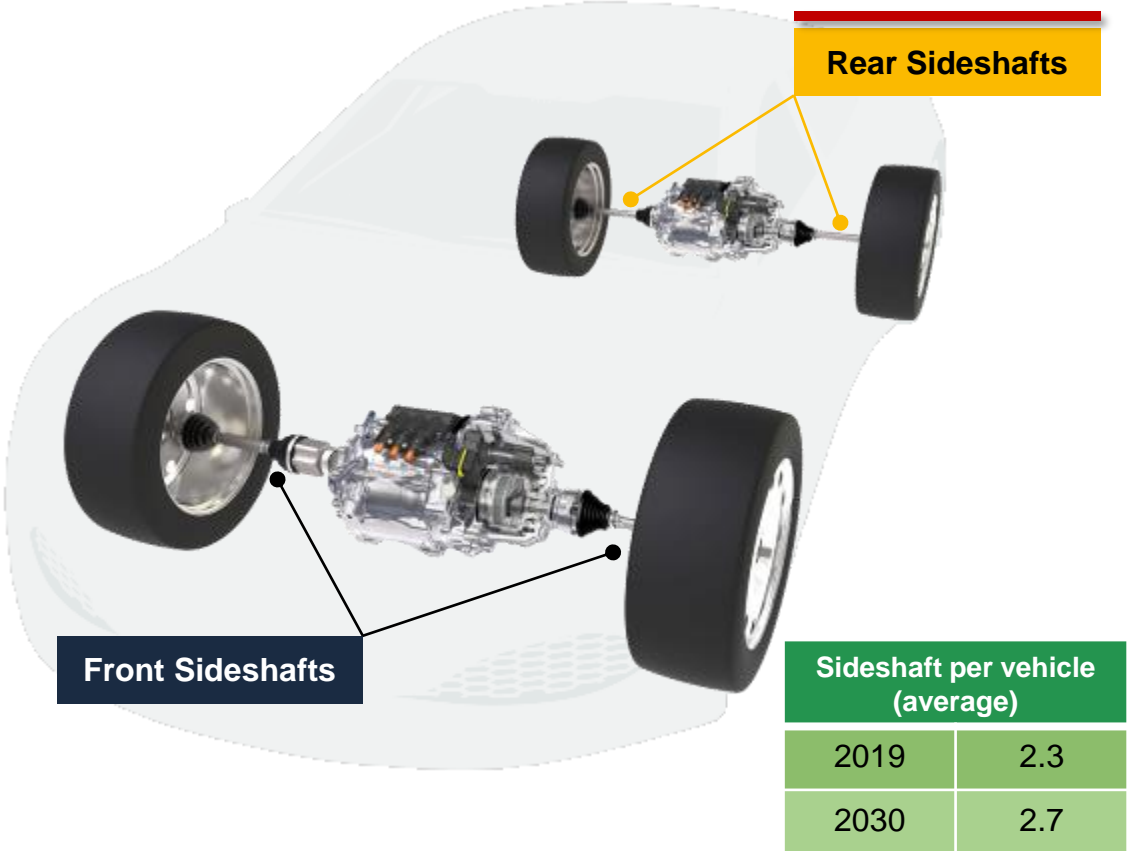
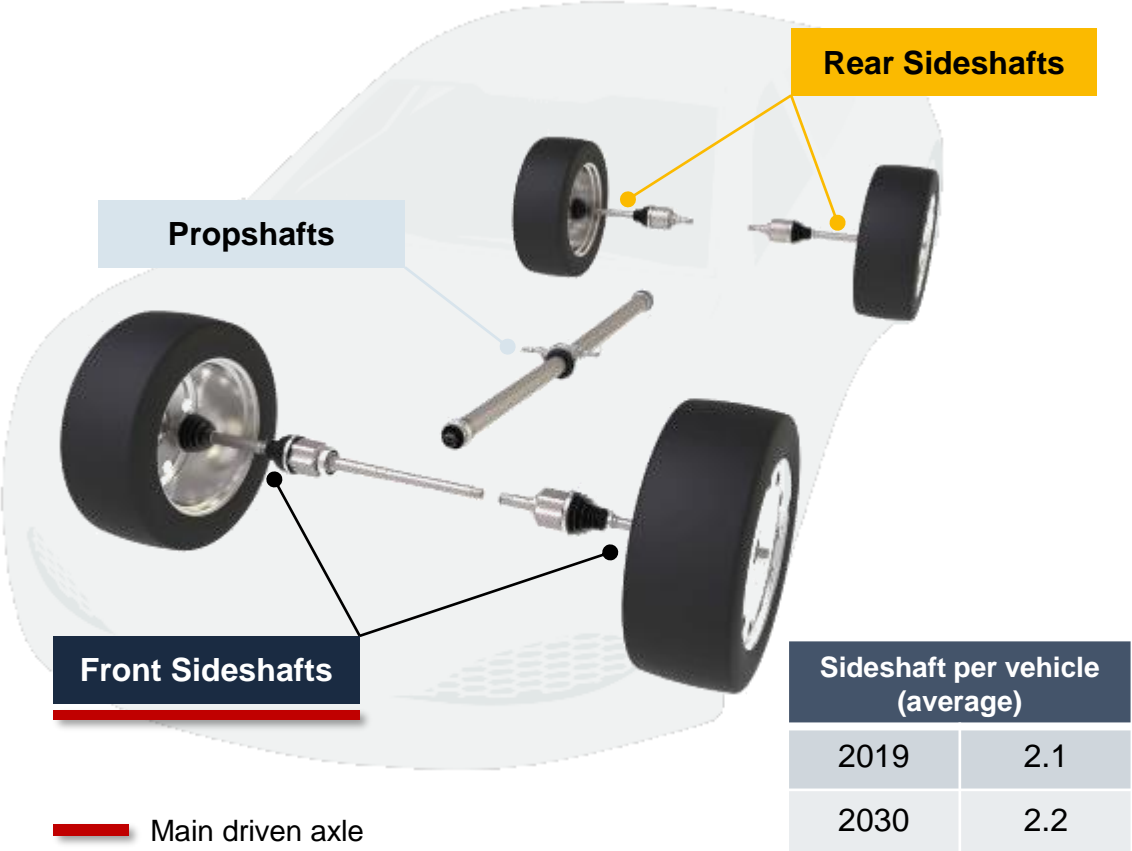
Driveline Technology Roadmap

Market & Commercial - Driveline Products Allocation



ICE based propulsion (incl. mild & full hybrid)

Battery electric propulsion

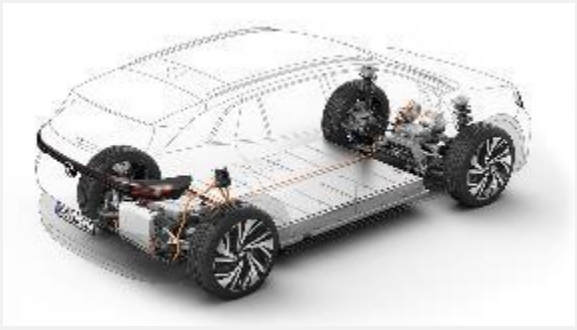


Driveline Technology Roadmap

Market & Commercial - Growing Rear Propulsion through Electrification



Volkswagen



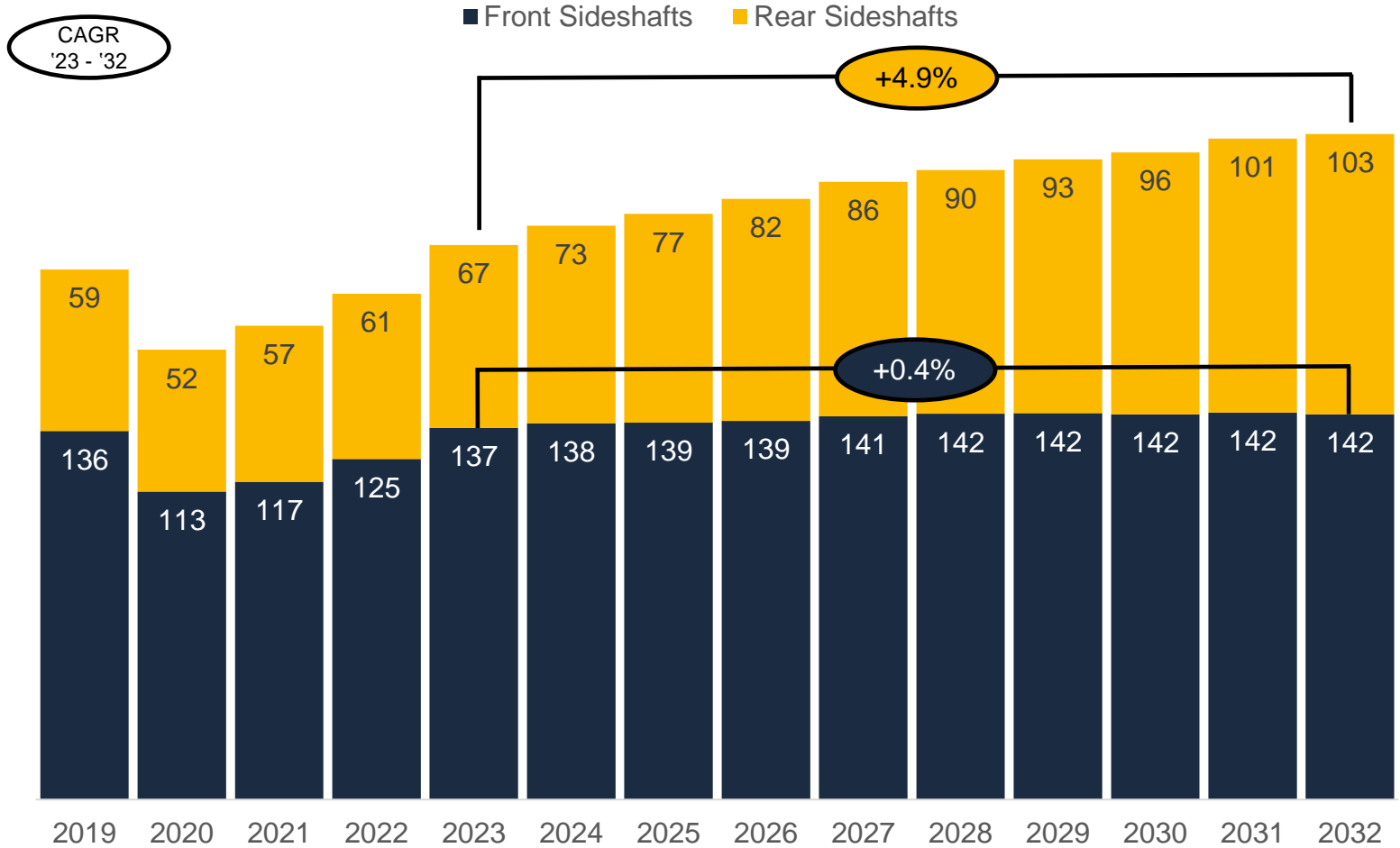
Hyundai



Volvo



Global Addressable LV Sideshaft Production by Drive Type



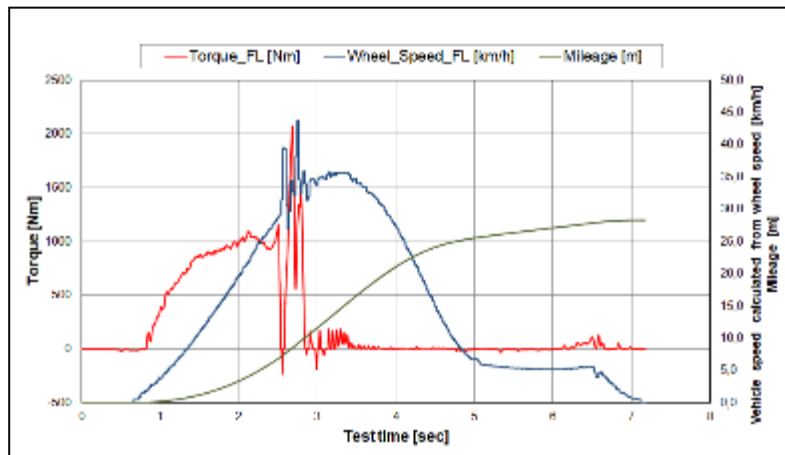
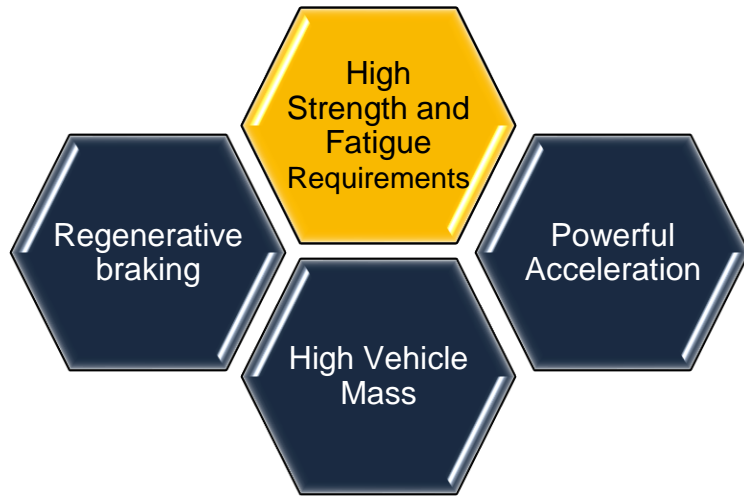
Sources:
 LV Volume: S&P September 2023 LV Production Forecast
 Addressability by Drive Type: 2022 GKN market model

Visualizing the Driveline Market Space

What is required ?

Driveline Technology Roadmap

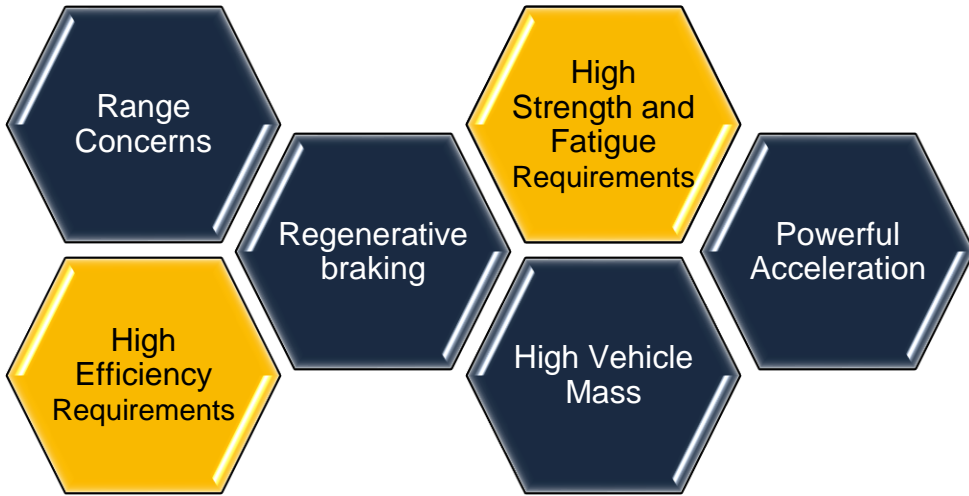
Characteristics of Electric Vehicles - Understanding the market



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Driveline Technology Roadmap

Characteristics of Electric Vehicles - Understanding the market



Case Studies for BEV Range & Cost Impact

A segment BEV 1

Power 120KW
Mass 1944 Kg

→ 0,2% improved

2.6°

Energy saving BEV 1	
Efficiency factor $e_{1\%} = 1.95\%$	
Energy saving $\approx 1,95\% * \frac{0,20\%}{1\%} \approx 0,4\%$	
Customer Value	
Battery capacity:	40 kWh
Estimated cost approx.:	100 €/kWh
Range Benefit	
Range inc. full battery (330km):	1320 m

Customer Value €

BEV 1	15.99 €
BEV 2	33.22 €

Range Benefit
Per Charge 1.32km 2.75km

B Segment BEV 2

Power 120KW
Mass 2055 Kg

→ 0,43% improved

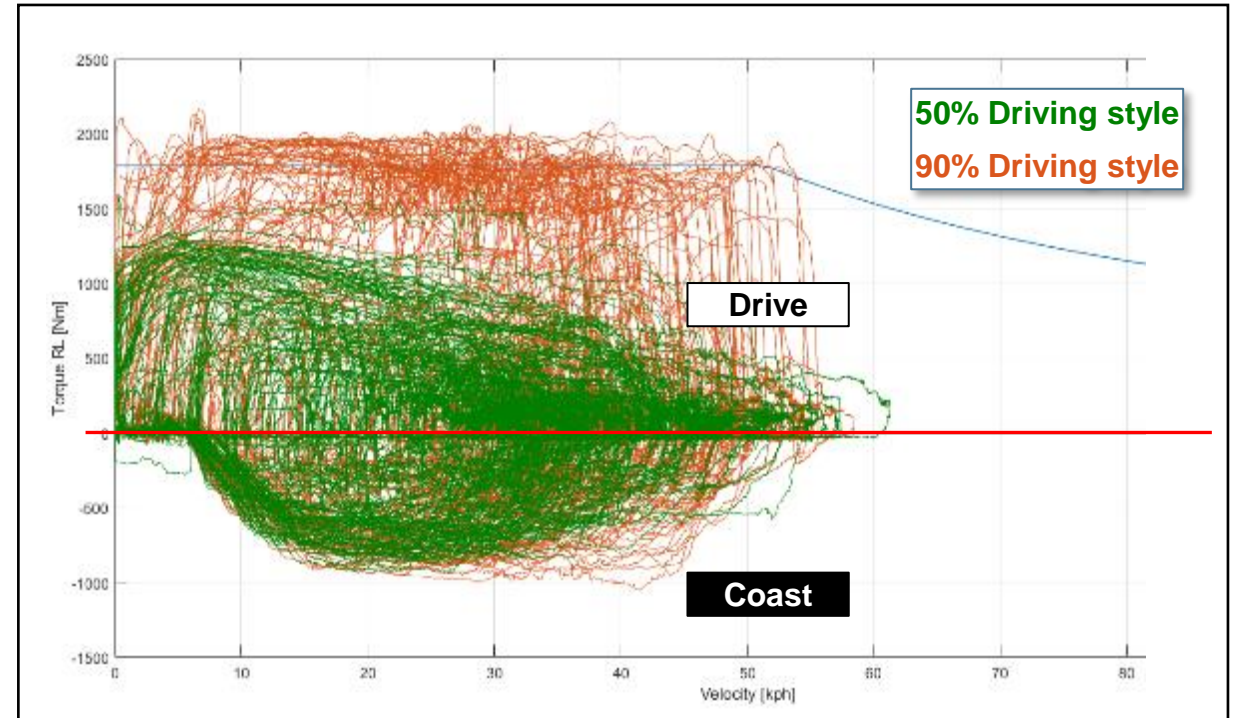
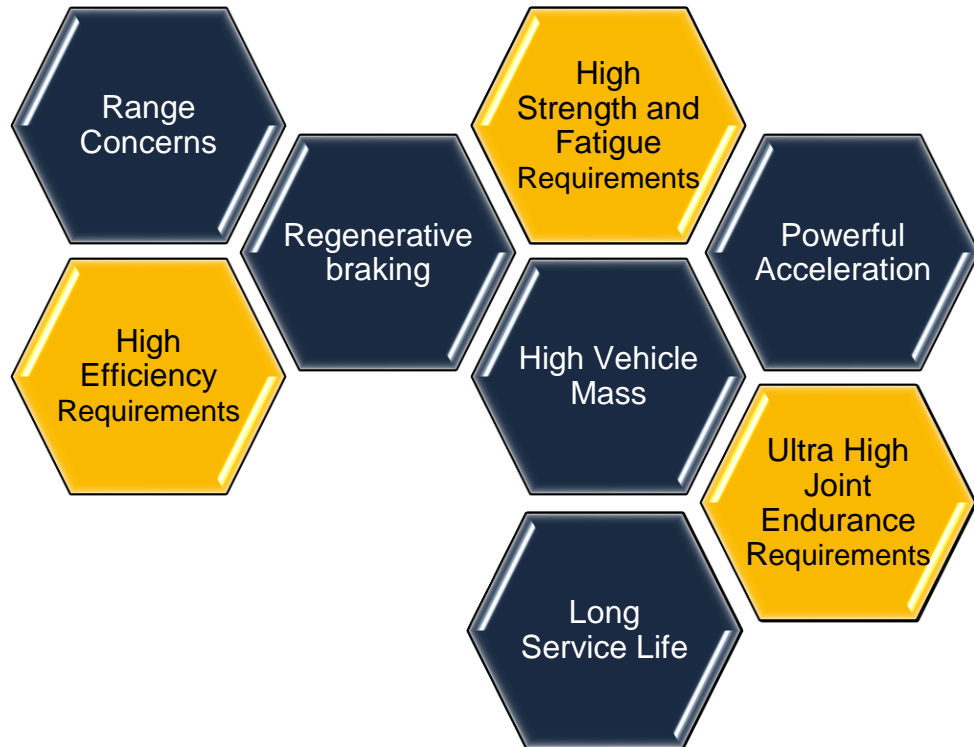
5.9°

Energy saving BEV 2	
Efficiency factor $e_{1\%} = 1.95\%$	
Energy saving $\approx 1,95\% * \frac{0,43\%}{1\%} \approx 0,83\%$	
Customer Value	
Battery capacity:	40 kWh
Estimated cost approx.:	100 €/kWh
Reach	
Range inc. full battery (330km):	2750 m

Efficiency benefits of GKNs Countertrack Technology start to materialize already at small CVJ angles and create value to our customers.

Driveline Technology Roadmap

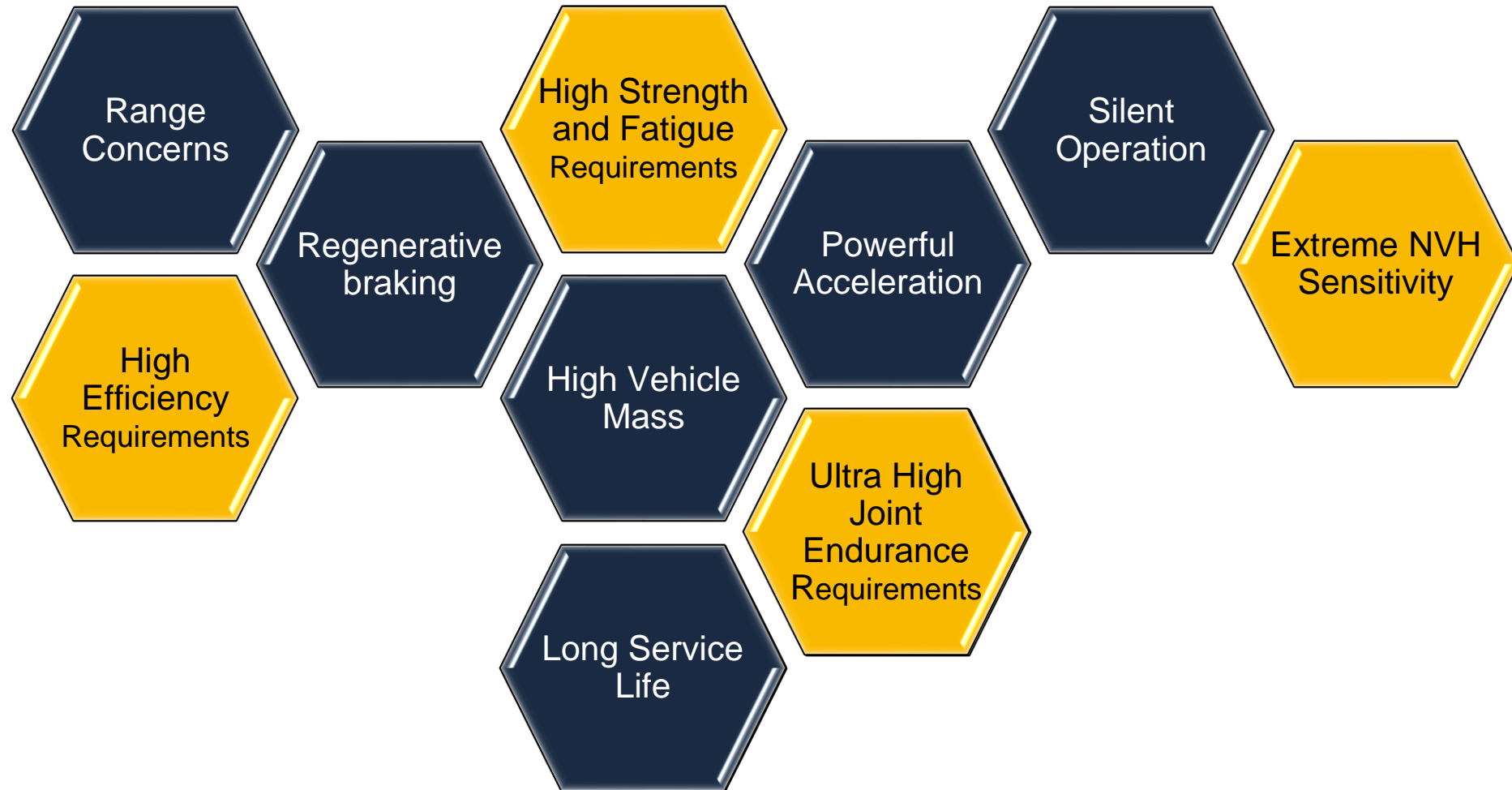
Characteristics of Electric Vehicles - Understanding the market



- Constant high torques during all acceleration events
- Increased negative torques through regenerative braking

Driveline Technology Roadmap

Characteristics of Electric Vehicles - Understanding the market

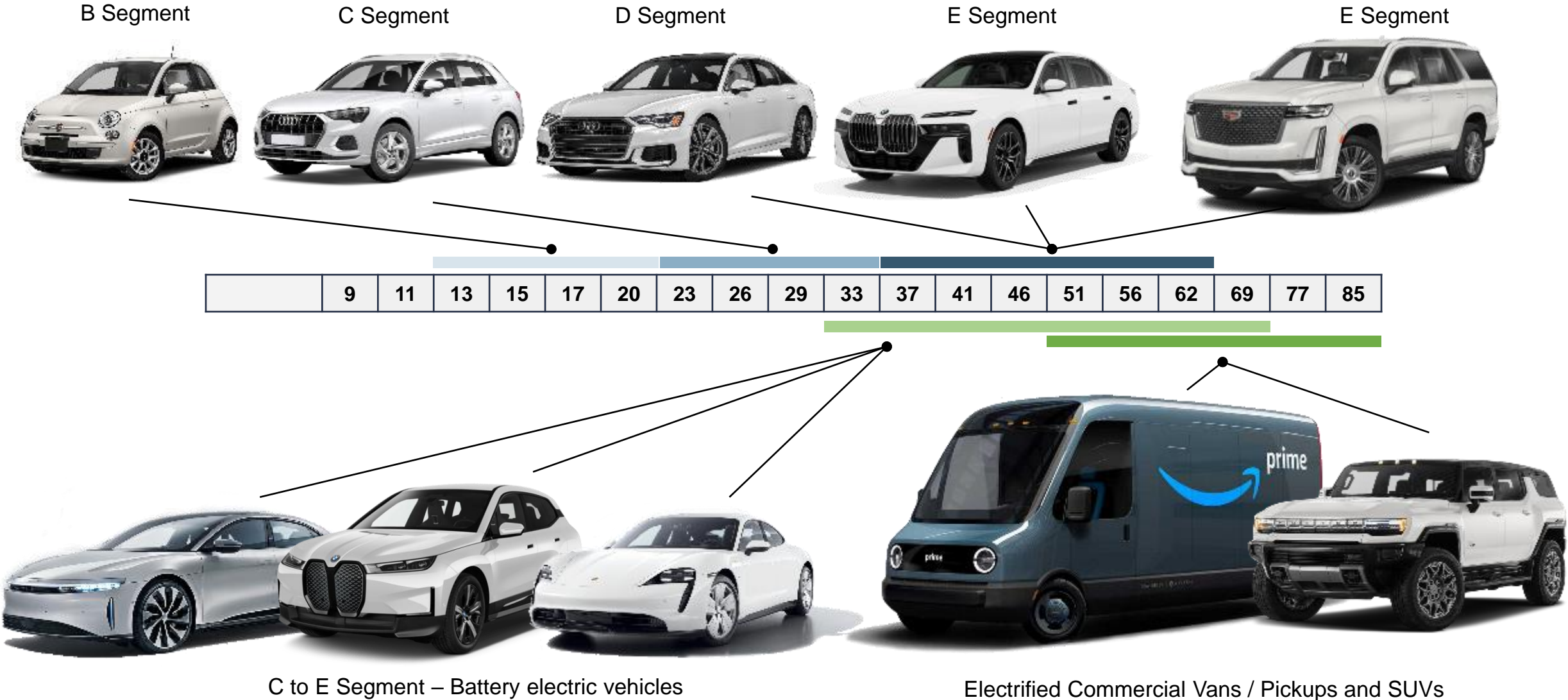


Visualizing the Driveline Market Space

How do we serve the market ?

Driveline Technology Roadmap

Sideshaft Solutions - Products Allocation by Sizes



Visualizing the Driveline Market Space

Where do we focus our efforts ?

Product Strategy

A standardized range of sideshaft systems fully adaptable to the changing needs of the market as vehicle electrification continues

Our Development

- Priority on streamlining and standardization, eliminate old technology
- Strengthen our customer intimacy through partnering and collaboration on new powertrain standards
- Continuous cost improvements through VA/VE

Focus

Primary Focus

- New global rear sideshaft outboard joint range
- New global rear sideshaft inboard joint range
- DO3 product range for BEV front sideshafts
- Expansion of established portfolio towards larger sizes

Secondary Focus

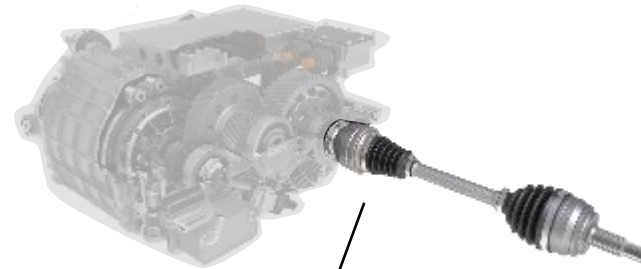
- Implementation of 1st electrification wave learnings into established product range – Drive evolution
- Next generation of shudderless tripod joints

Driveline Technology Roadmap

New rear sideshaft strategy for electrified vehicles



- > High torque transfer
- > Large articulation angles
- > Low friction
- > Silent operation



Inboard Joints



DO Family

Tripod Family

VL3 Family

Outboard Joints



Countertrack Family

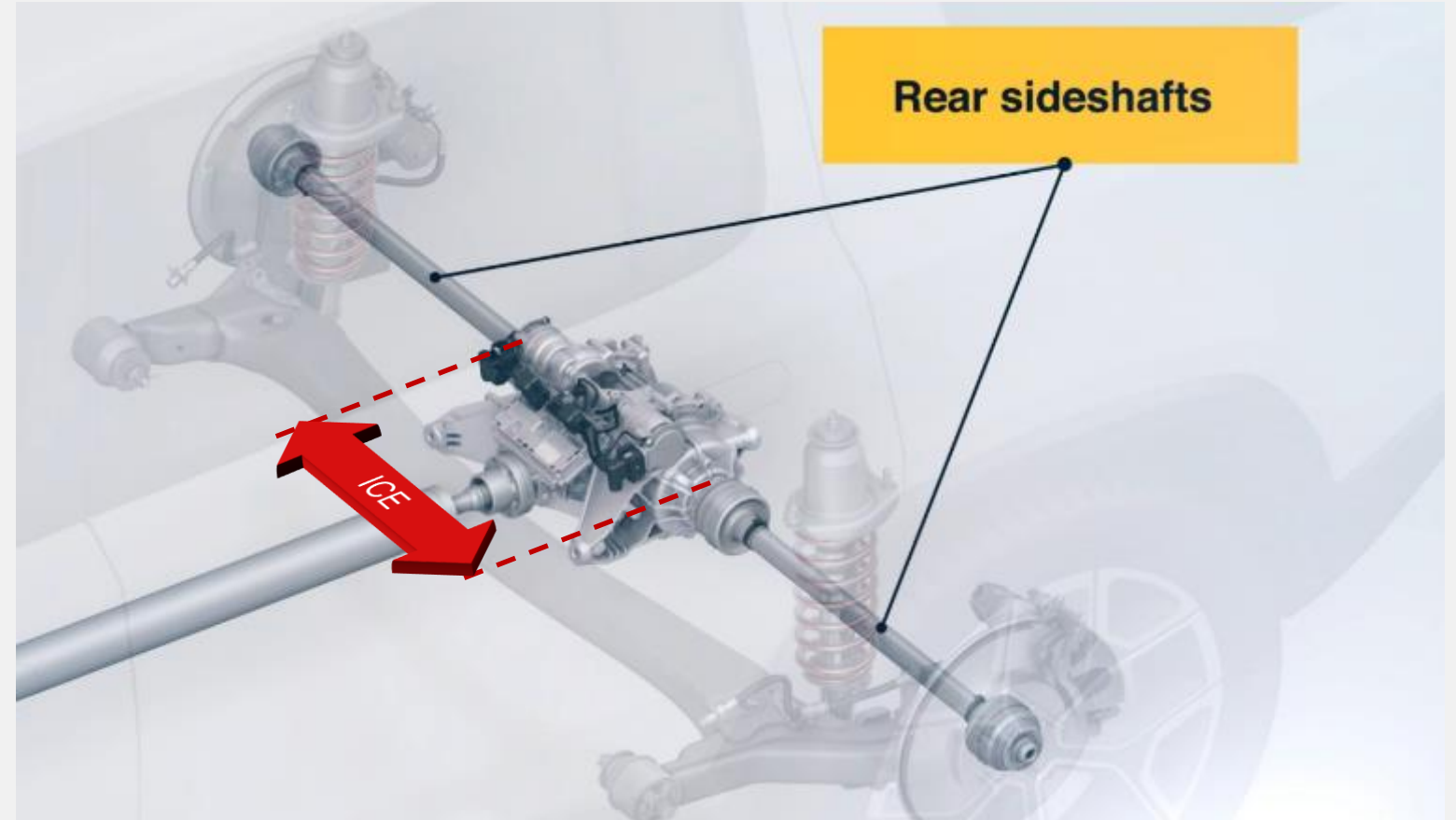
VL3 Family

Driveline Technology Roadmap

New rear sideshaft strategy - the past

- > Traditional **rear** wheel drive solutions require small angles and limited plunge capacity

Mechanical Rear Axle

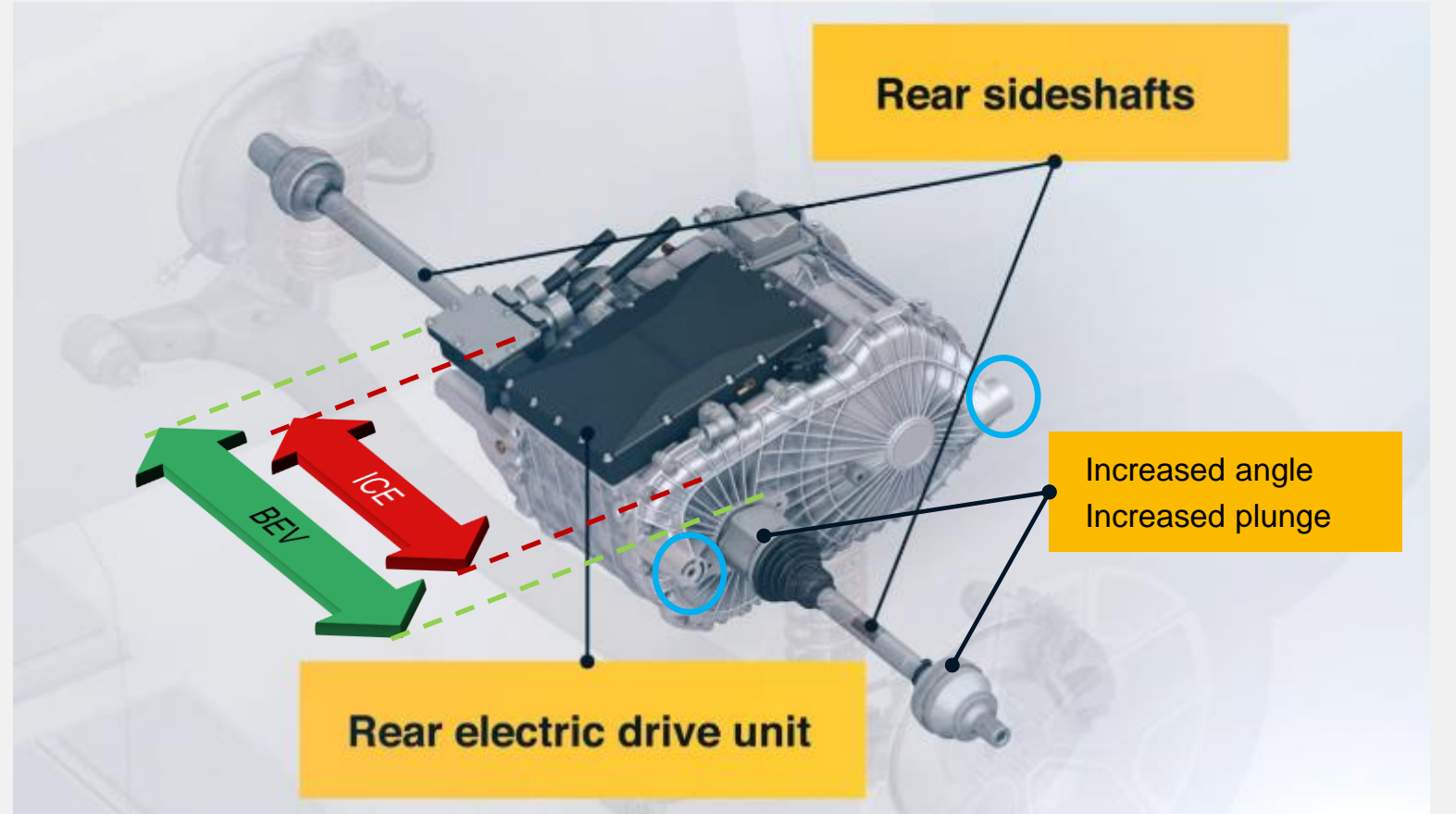


Driveline Technology Roadmap

New rear sideshaft strategy - the change

- > Electrical **rear** axle solutions are considerably wider, thus lead to shorter shaft length with overall increased installation angles
- > Softer **mountings** elements, lead to larger aggregate movements, which requires larger plunge capacity

Electrical Rear Axle

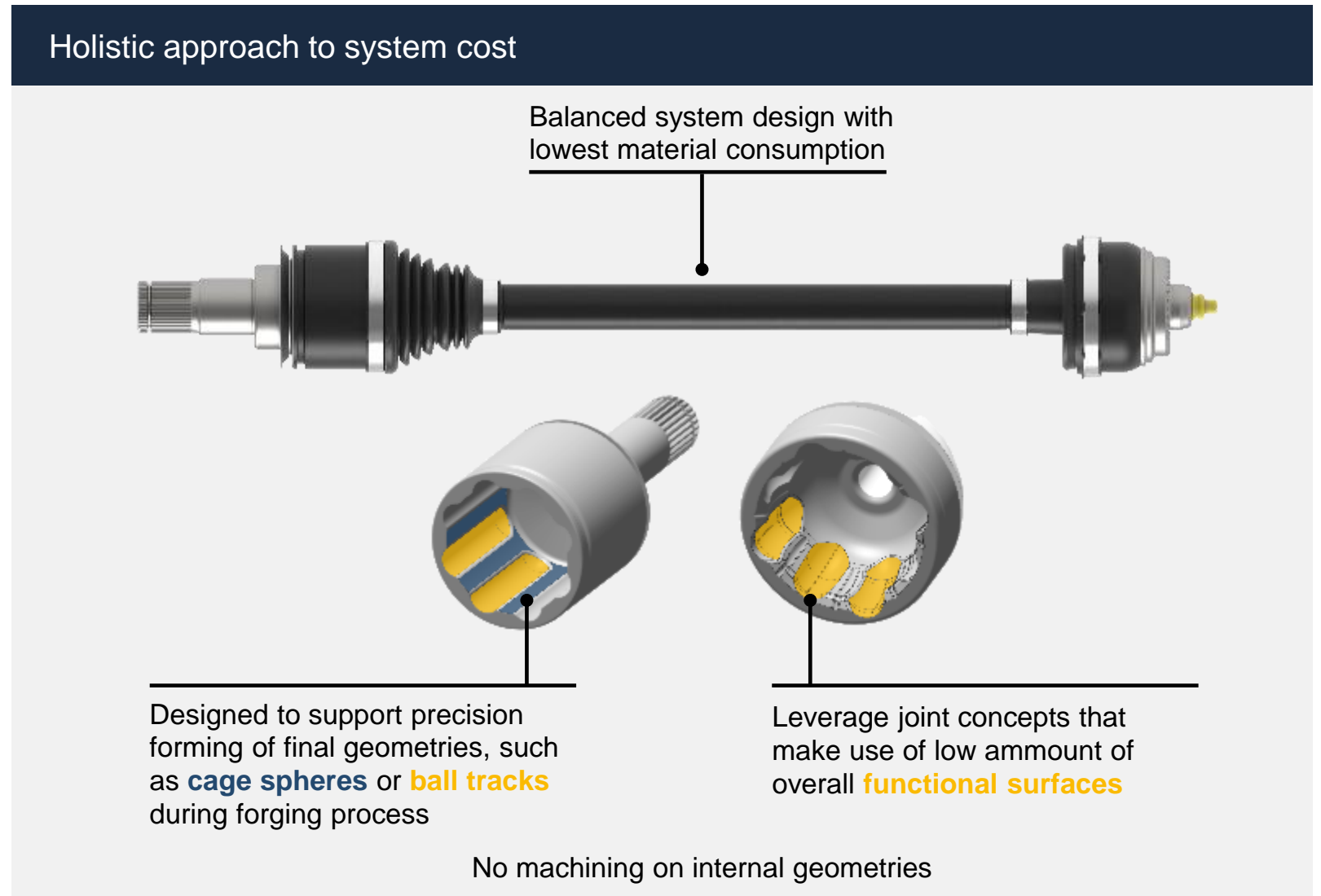


Driveline Technology Roadmap

New rear sideshaft strategy - drive for the best cost

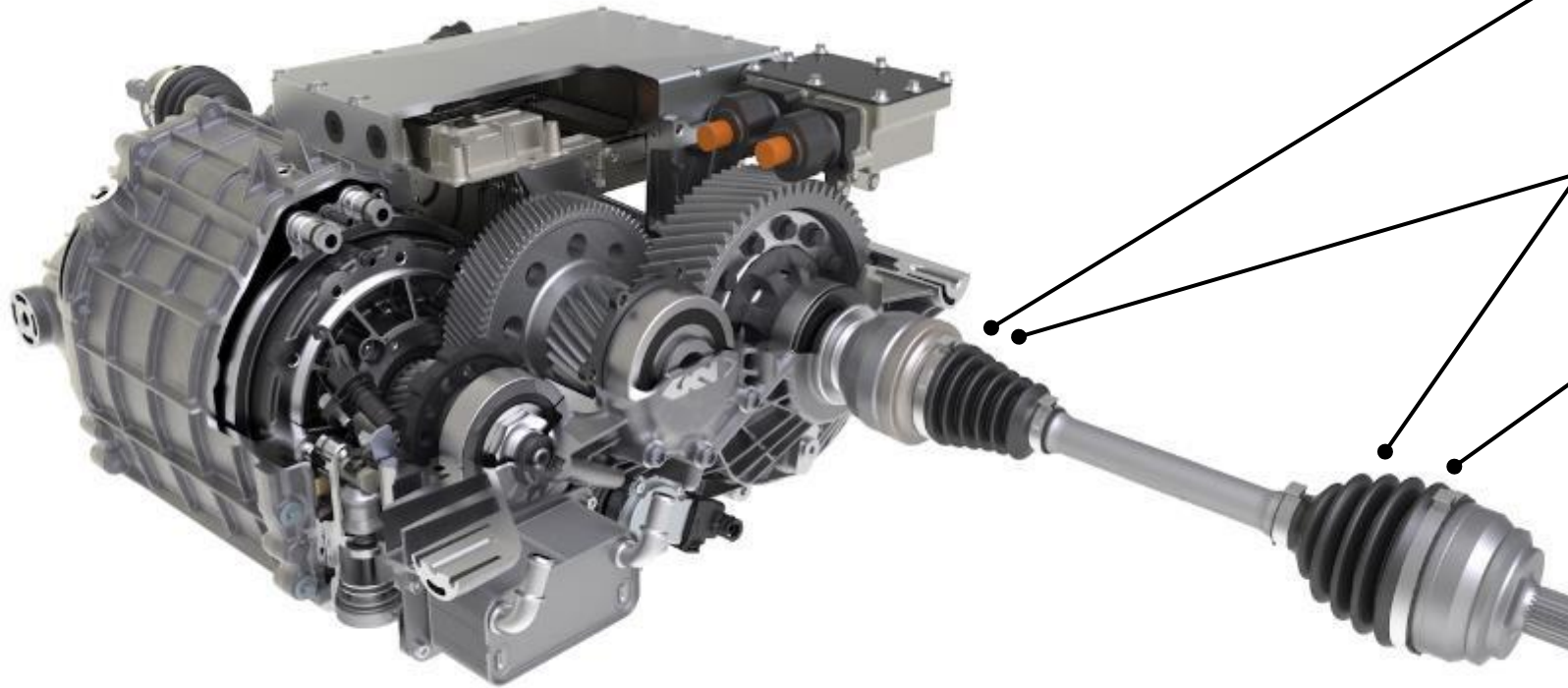


- > Provide most **cost competitive** solutions
- > Contributes to GKN ESG targets during processing



Driveline Technology Roadmap

New rear sideshaft strategy - Summary



Increased **plunge** distances due to softer mountings

Increased installation **angles** through shorter shaft length

Increased wheel **angles** due to rear steering systems

Efficient joint technologies required to improve range

Increased **strength and durability** needs due to insane vehicle mass and power

All based on competitive overall **cost and quality**

Clear technology leadership in sideshafts



GKN Automotive advantage



Long history of innovation

Leading efficiency, superior NVH¹, low weight and a broad product portfolio developed over decades of product technology leadership



Intimacy with the OEM engineering community

Close relationships at all OEMs and reputation for tailored advanced solutions and high flexibility as well as complete vehicle systems expertise



Global cost competitiveness

Industry leading scale and recent footprint adjustments provide customers with premium quality products at a competitive cost level

xEV drive optimisation

GKN has developed a suite of technologies tailored to the unique needs of xEV, focusing on efficiency & silent operation

An updated, agile commercial approach fits the needs of both xEV units of established players and new pure play customers



Long history of Innovation providing solid foundation for electrification journey

GKN Automotive is optimising its industry leading sideshafts for xEVs

¹ Noise, vibration & harshness

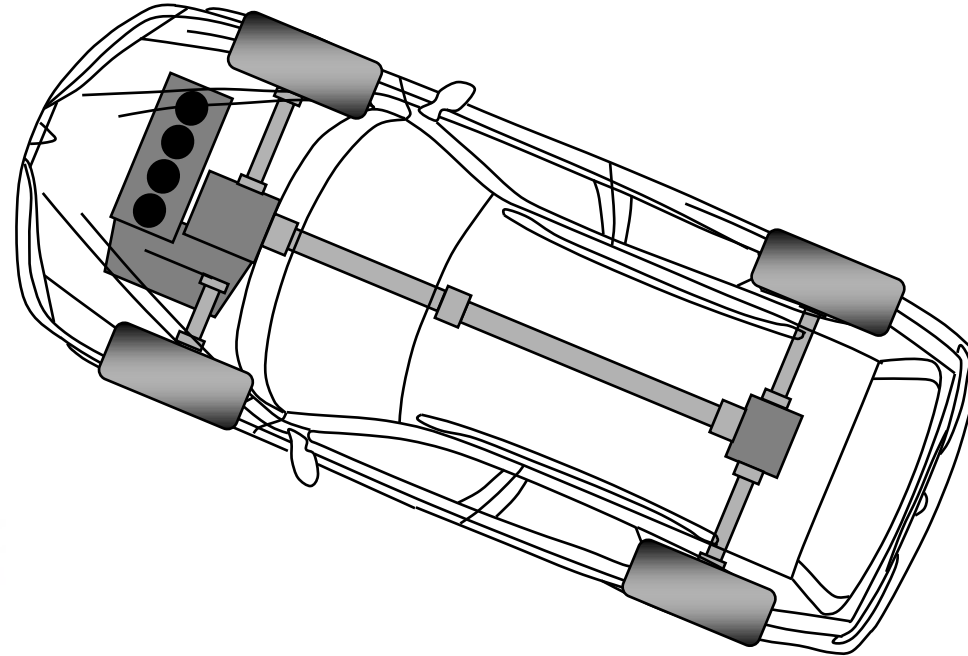
Torque Management – AWD and ePowertrain Components

Product overview AWD Portfolio

East-West Configuration



Power Take-off Unit and Disconnect



Rear Drive Unit Booster



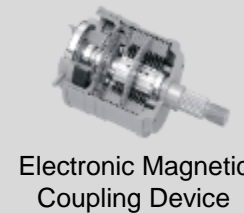
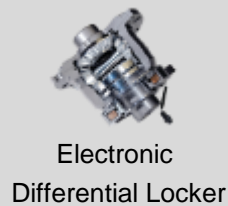
Rear Drive Unit Twinstar



Rear Drive Unit EMCD

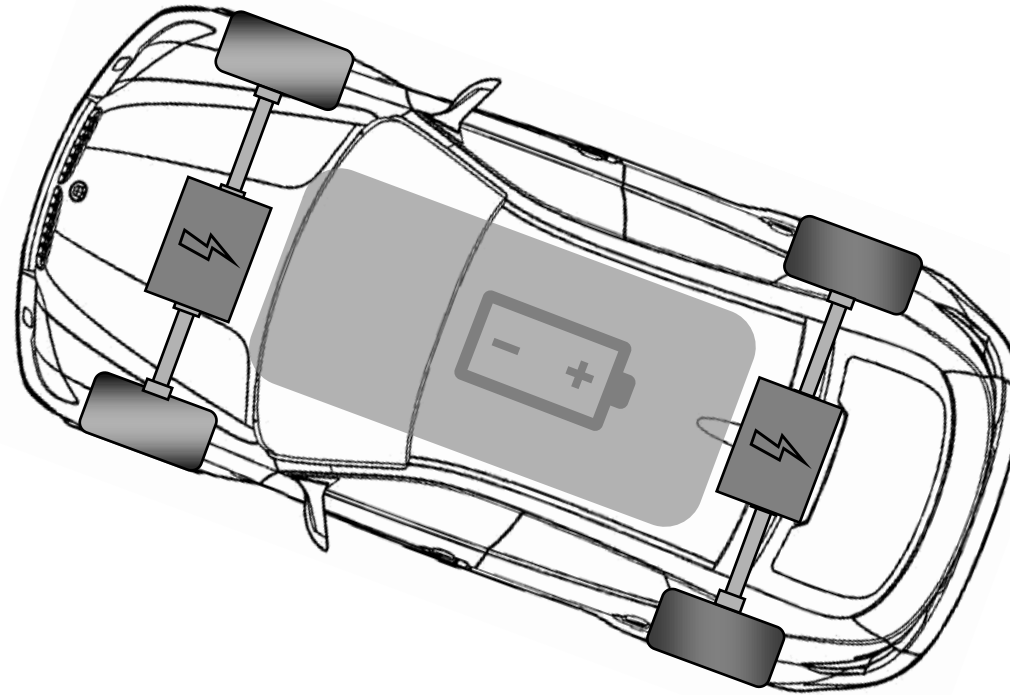


Components In AWD System for E-W configuration, detailed in Components Product Plan



Product overview eDrive Portfolio

Front Electric Drive Unit



Rear Electric Drive Unit



Components in eDrive Systems



Open Differential



Electronic Differential Locker



Mechanical LSDs



Electronic Torque Manager



Disconnect Unit



Twinstar*

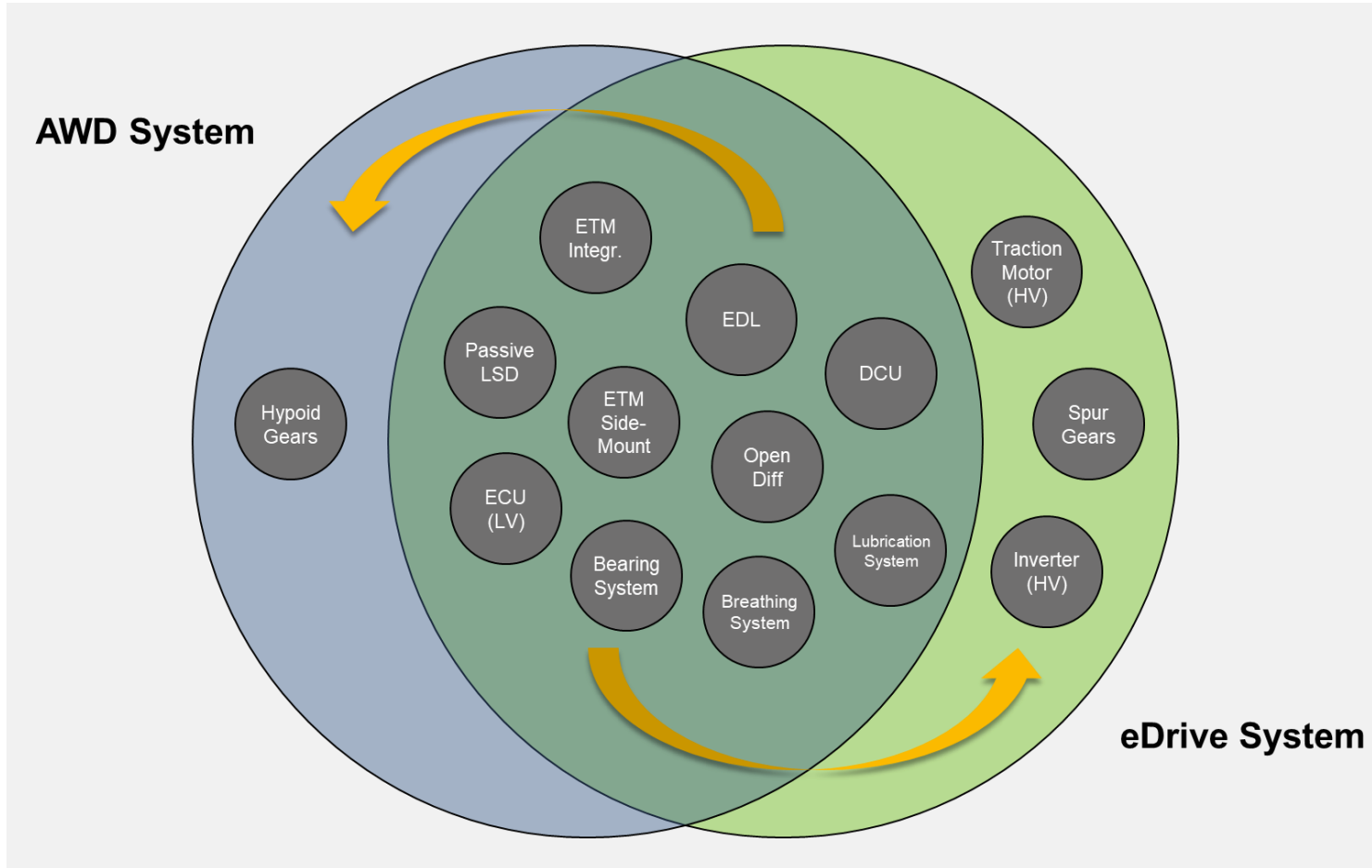


Park Lock System



Electronic Control Unit

ePT components continue to be commercially highly relevant for last ICE platforms as well as for electrified powertrains



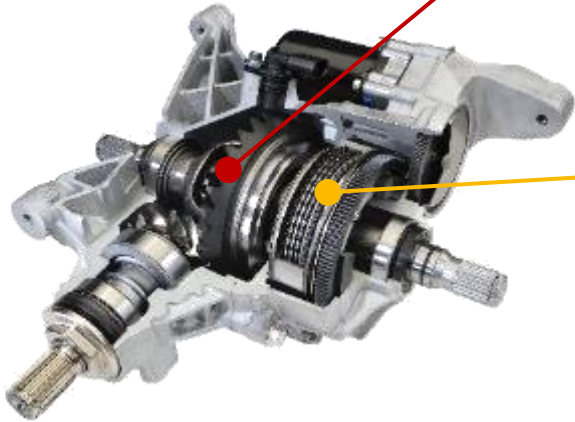
Shared technology between AWD and eDrive Applications

- > AWD heritage is the enabler of our eDrive growth, traditional AWD technologies are critical to eDrive success
- > Most components still requested for BEV platforms and continued to be required for current business and last ICE platforms
- > **Increased number of AWD architectures and the efficiency focus in BEVs will lead to a growing ePT component market and a progression of the technology**

Most components within an AWD system transition to eDrive components portfolio

AWD System

- > Power Take-off units
- > Rear Drive Units



Hypoid gears & shafts

Open differential



Disconnect units



Limited Slip Differential (LSD)



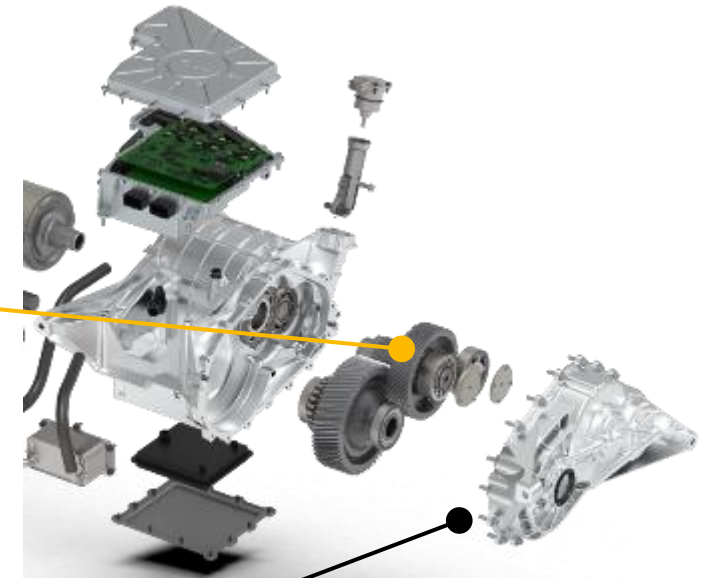
Electronic Torque Manager (ETM)



Helical gears & eDrive gearbox

eDrive System

- > Electric Drive Units



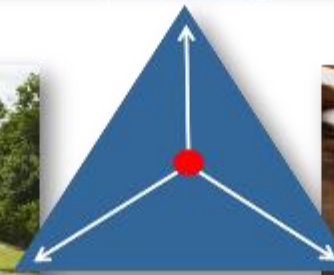
- No re-use
- Transition to eDrive component portfolio
- Incremental eDrive component content

GKN ePowertrain components

Summary

Independent of its propulsion system, every vehicle...

- > with one motor driving more than one wheel needs a **differential**
- > with focus on vehicle dynamics & traction benefits from a **limited slip differential**
- > with offroad capabilities typically features a **differential locking option**
- > with two driven axles can improve efficiency by using a **disconnect system**



Product Strategy

A streamlined range of components to support eDrive systems and AWD mechatronic/mechanical systems composed of a set of standardized building blocks

Our Development

- Priority on streamlining, standardizing, optimizing and reviving our component portfolio
- A-Spice Level compliant with system-level requirements
- Continuous cost improvements through VA/VE
- Baseline ECU development and application
- Focus on electro-mechanical actuation, specifically in BEV environments
- Monitor smart actuator market

Focus

Primary Focus

- Open Differentials
- Electronic Differential Lockers (EDL)
- Electronically-controlled LSDs (ETM)
- Mechanical (passive) LSDs
- Disconnect Units (DCU)
- Park Lock systems
- Electronic Control Units (ECU)

Secondary Focus

- Electronic Magnetic Coupling Devices (EMCD)

Torque generation: eDrive Systems

Our eDrive technologies have powered >2 million vehicles to date



Selected vehicles equipped with GKN Automotive eDrive systems



2002

2012

2020+



Vehicle still in production or launch phase

13 eDrive vehicles over 10 brands with combined peak volume of 300k/yr



Since 2019



Coaxial eDrive System

KEY TECHNICAL DATA

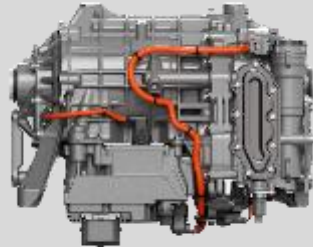
System Power 60kW
 eMotor Torque 240Nm
 Output Torque 2400Nm
 Weight 16kg (*)
 2-1 system
 (directed source eMotor)



Semi-Integrated Offset eDrive System

KEY TECHNICAL DATA

System Power 80kW
 eMotor Torque 160Nm
 Output Torque 2000Nm
 Weight 54kg
 3-1 system
 (full system responsibility)



Coaxial eDrive System with integrated active motor components

KEY TECHNICAL DATA

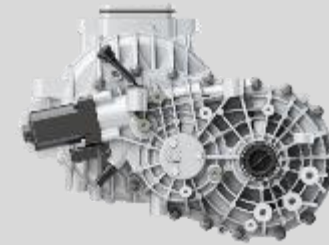
System Power 90kW
 eMotor Torque 250Nm
 Output Torque 2900Nm
 Weight 76kg
 3-1 system
 (full system responsibility)



Coaxial eDrive Semi-Integrated System with planetary gear set

KEY TECHNICAL DATA

System Power 75kW
 eMotor Torque 265Nm
 Output Torque 2650Nm
 Weight 79kg
 2-1 system
 (1st planetary Gearbox)



Semi-Integrated Offset eDrive System

KEY TECHNICAL DATA

System Power 94kW
 eMotor Torque 220Nm
 Output Torque 2100Nm
 Weight 65kg
 2-1 system
 (1st launch of GKN eMotor)

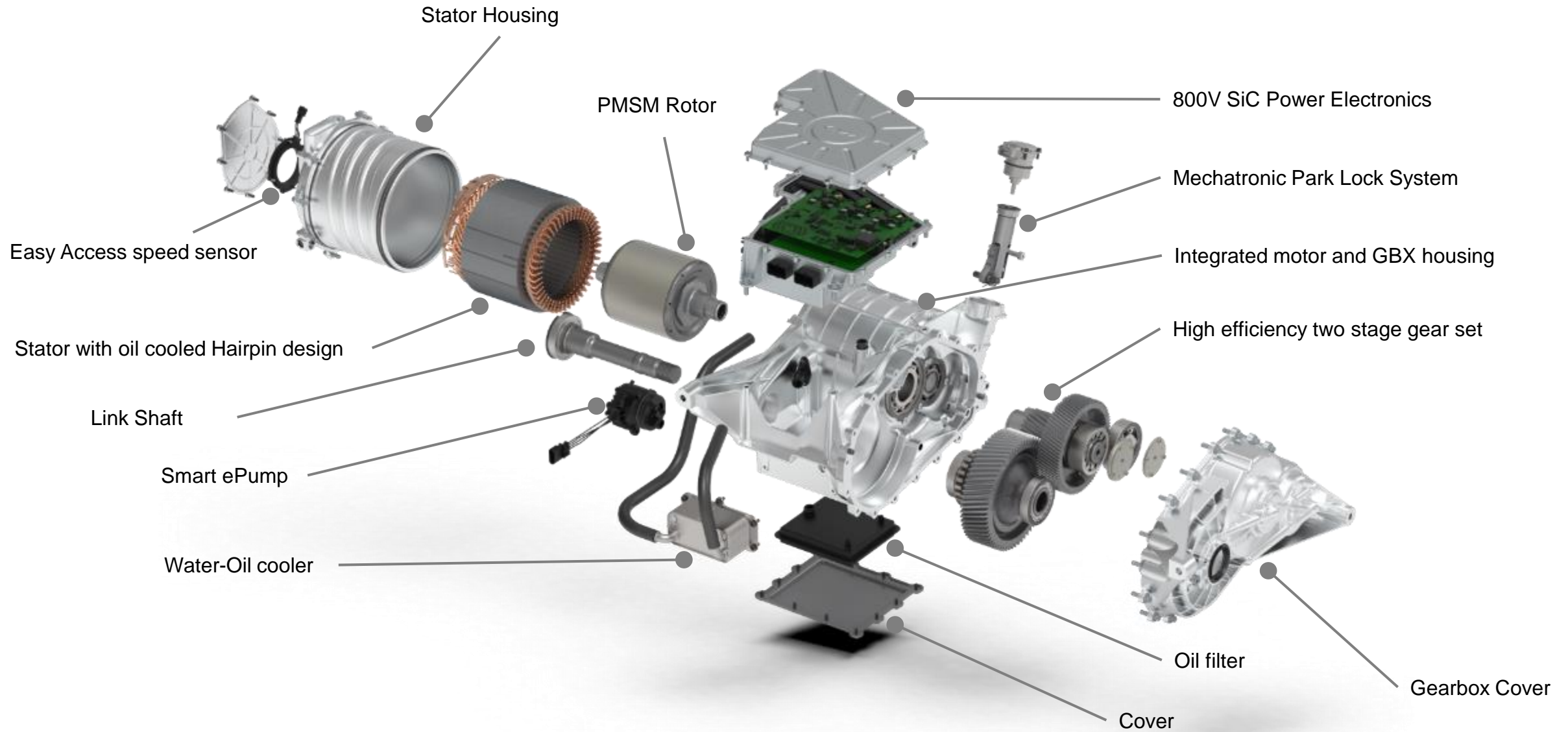


Coaxial eDrive System

KEY TECHNICAL DATA

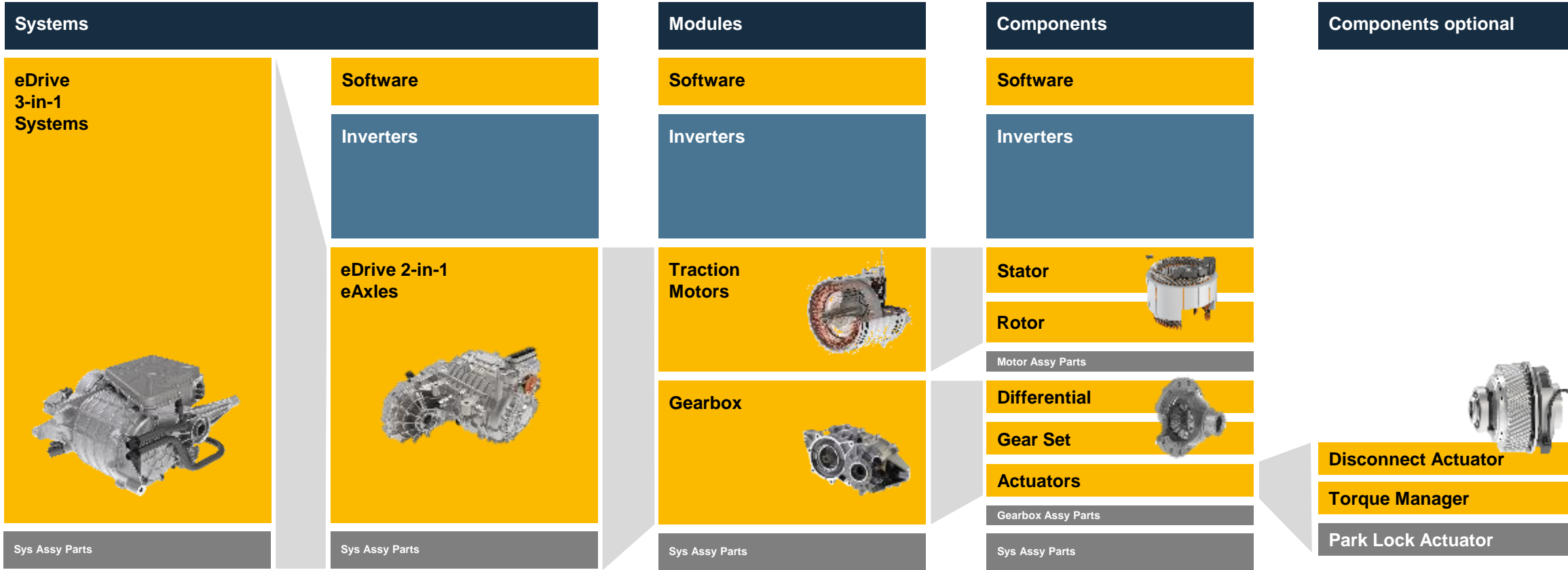
System Power 68kW
 eMotor Torque 144Nm
 Output Torque 1410Nm
 Weight 16kg (*)
 2-1 system
 (directed source eMotor)

GKN Gen 2 eDrive – Example Configuration



eDrive Product Offerings

Inhouse capabilities (Make vs buy Strategy)



Engineering Systems Services around eDrive Offerings

System design support, simulation support, problem resolution support, validation support

Inhouse capability

External partner
(eg EMS)

Bought out
components

Launching next Generation GKN Automotive eDrive System



40kW 60kW 80kW 100kW 120kW 140kW 160kW 180kW 200kW 220kW 240kW 260kW



Gen 2 eDrive Platform
 ASPICE compliant 3-in-1 system platform
 Focus Peak Power Range: 60kW – 210kW
 First launch in 2024 (European Major OEM)

Inverter & Software



Inverter Platform

400V Si IGBT Technology

800V SiC MOSFET Technology

Software Platform

eMotor



eMotor Family

PMSM / Hairpin Winding / 3 Rotor Diameters / Scalable Length

ASM / Round Wire Winding / 1 Rotor Diameter / Scalable Length

Transmissions & Actuators



Transmission Technology

Offset / Coaxial / Coaxial Planetary Layouts

Active & Passive Components: Open & Limited Slip Differentials, Disconnect Systems, Park Lock Systems, Torque Vectoring

Summary

Summary



- **Vehicle electrification is progressing and GKN Automotive are adapting its portfolio to align to this transition**
- **GKN over the years has evolved its portfolio from “Torque Transfer” via “Torque Management” to “Torque Generation”**
 - **Torque transfer** products (sideshafts) are growing on electric vehicles. We are seeing increased content value and fit rate on BEVs and GKN are winning a strong market share
 - **Torque management** portfolio is evolving as most of the components within an AWD system transition to eDrive. Incremental content is available from eDrive gear sets and gearboxes
 - GKN Automotive’s **torque generation** (eDrive) capabilities are comprehensive across each element of the system. The market is being approached very cautiously, with selective, profitable, niche programs being undertaken
- **This comprehensive approach enables GKN to serve its customers with drivetrain components and full electric powertrain systems for current and future vehicle architectures**

Q & A

CLOSING REMARKS

- **Dowlais is a world-class Automotive Group, consisting of two market leading businesses**
- **We have had a very successful start as a newly listed PLC**
- **GKN Auto is a technology leader, with an increasingly powertrain agnostic portfolio**
- **They have well invested, high quality network of plants – Vigo is a good example**
- **Powder Metallurgy is a high-margin business with revenue and margin growth potential**
- **They have already secured business on a number of incremental EV products**