UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D. C. 20549

FORM 8-K

CURRENT REPORT Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): March 11, 2019

Dana Incorporated (Exact name of registrant as specified in its charter)

(State or other jurisdiction of incorporation)

1-1063 (Commission File Number) 26-1531856 (IRS Employer Identification Number)

3939 Technology Drive, Maumee, Ohio 43537 (Address of principal executive offices) (Zip Code)

(419) 887-3000 (Registrant's telephone number, including area code)

	ck the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the owing provisions:
	Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
	Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
	Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
	Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))
his	Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§230.405 o chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).
Emerging growth company	
ny	If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. \Box

ITEM 7.01 Regulation FD Disclosure.

Dana Incorporated ("Dana") previously announced it will host an Investor Day in New York on March 11, 2019. The event will feature presentations from Dana's President and Chief Executive Officer James Kamsickas, Executive Vice President and Chief Financial Officer Jonathan Collins, and Senior Vice President and Chief Technology Officer Christophe Dominiak on the business objectives and strategic direction of Dana from 9 a.m. EDT to noon.

Information on accessing a live webcast will be posted to Dana's Investor website (www.dana.com/investors) prior to the event. In addition, the audio replay will be available the next business day via the Dana Investor website. A copy of the presentation, which will be discussed at Dana's Investor Day, is attached hereto as Exhibit 99.1.

The information in this report is being "furnished" and shall not be deemed "filed" for the purposes of Section 18 of the Securities Exchange Act of 1934, as amended, is not subject to the liabilities of that section and is not deemed incorporated by reference in any filing under the Securities Act of 1933, as amended, or the Securities Exchange Act of 1934, as amended, except as shall be expressly set forth by specific reference in such a filing.

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits. The following items are furnished with this report.

Exhibit No. Description

99.1 <u>Investor Day Presentation Slides</u>

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

DANA INCORPORATED

Date: March 11, 2019

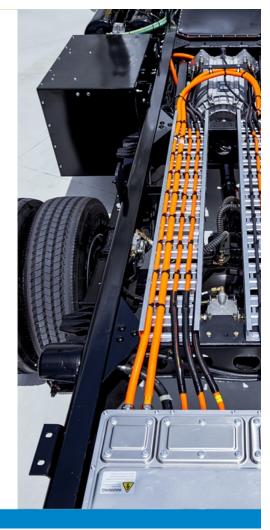
By: /s/ Douglas H. Liedberg
Name: Douglas H. Liedberg
Title: Senior Vice President, General Counsel and Secretary



Investor Day

March 11, 2019





Safe Harbor Statement

Certain statements and projections contained in this presentation are, by their forward-looking within the meaning of the Private Securities Litigation Reform These forward-looking statements are based on our current expectations, estir projections about our industry and business, management's beliefs, and certai assumptions made by us, all of which are subject to change. Forward-looking can often be identified by words such as "anticipates," "expects," "intends," "pla "predicts," "believes," "seeks," "estimates," "may," "will," "should," "would," "cou "potential," "continue," "ongoing," similar expressions, and variations or negative words. These forward-looking statements are not guarantees of future results subject to risks, uncertainties and assumptions that could cause our actual res materially and adversely from those expressed in any forward-looking stateme Annual Report on Form 10-K, subsequent Quarterly Reports on Form 10-Q, re Current Reports on Form 8-K, and other Securities and Exchange Commission discuss important risk factors that could affect our business, results of operatic financial condition. The forward-looking statements in this presentation speak this date. Dana does not undertake any obligation to revise or update publicly forward-looking statement for any reason.

Agenda

9:00 – 9:15 Business Overview

9:15 – 11:00 Enterprise Strategy

Overview

Leverage The Core

9:15 – 10:15 | *Drive* Customer Centricity

Expand Global Markets

Deliver Innovative Solutions

15 Minute Break

10:30 – 11:00 | Electrification: An Expert Perspective Lead Electric Propulsion

11:00 – 11:30 Financial Summary

11:30 - 12:00 Questions & Answers



Business Overview

People Finding A Better Way®



Dana Snapshot

Founded in 1904







~36,000 people



25 technical centers



145 major facilities

33 countries

6 continents

~15,000 customers in

141 countries



Global Footprint



Mission, Vision, Values

Our Mission

Our talented people power a customer-centric organization that is continuously improving the performance and efficiency of vehicles and machines around the globe. We will consistently deliver superior products and services to our customers and will generate exceptional value for our shareholders.

Our Vision

To be the global technology leader in efficient power conveyance and energy-management solutions that enable our customers to achieve their sustainability objectives.

Our Values

- Honesty and Integrity
- Good Corporate Citizenship
- Open Communication
- Continuous Improvement

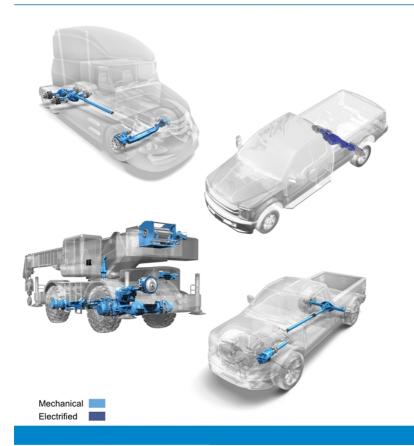


Business Overview

Segments Technologies Markets Regions **Prod** North America **Light Vehicles Light Vehicle Driveline** Axles, driveshafts, trans **Technologies** Drive wheel and track drives, di 45% 40% hybrid vehicles Winches, slew drives, p Motion hydraulic pumps, motor Europe **Commercial Vehicle** electronic controls **Driveline Technologies** 28% Commercial Vehicles 28% Electrodynamic **South America** Off-Highway Drive and Transmission and engin **Motion Technologies** Thermal and electronics cooling. 6% 20% and exhaust-gas and he Off-Highway Gaskets and seals, tran Sealing plates, cam covers and Asia Pacific **Power Technologies** shields, and fuel cell pla 12% 21% Active and passive syst Digital as a Service including d predictive analytics

Sales as of Dec. 31, 2018, including 100% of DDAC.

Product Overview



Axles

- Drive Axles
- Steer Axles
- AWD System
- Disconnect System
- Planetary Hub Drives

Driveshaft

- Aluminum Driveshafts
- Steel Driveshafts
- Industrial Driveshafts
- Universal Joints
- Constant Velocity Joints

Motion

- Hydraulics & Controls
- Industrial Gearboxes
- Winches
- Slew Drives

Transi

- Sealing & Co
- Active Warm
- Transmission
 - Hydrostati
 - Hydrodyna
 - Hydromec
 - High Perfo

Electro

- Electric Moto
- Power Electro
- Controls & Sc
- e-Gearboxes
- Battery Cooli
- Electronics C
- Electric Axles
- Electric Drive

Sustainability Through Electrification

Over 95,000 tonnes of CO₂ saved since 2014 with Dana products

~585

million customer kilometers driven with TM4 motors





~12,000

vehicles on the roads today





645,000+

tonnes of CO₂ diverted from cities









Employee Engagement



Oerlikon Drive Systems Acquisition





Enterprise Strategy

People Finding A Better Way®



Exceeding Original 2019 Targets



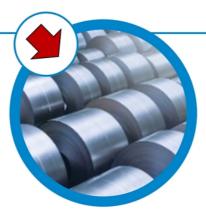
On track to surpass top and bottom line long-term targets by more

See appendix for comments regarding the presentation of non-GAAP measures

Business Dynamics







Commodities Global Trade



Electrification Adoption



B Ac

End Market Demand



Increased demand and acquisitions key to exceeding long-term final

Today's outlook includes Oerlikon Drive Systems sales and adjusted EBITDA

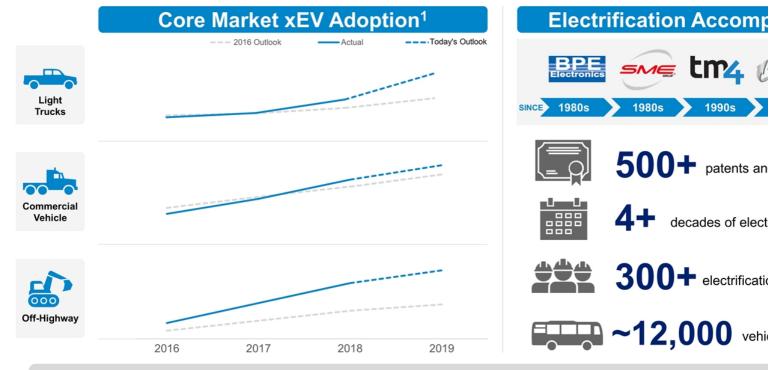
See appendix for comments regarding the presentation of non-GAAP measures

Commodity Costs



Delivering 100 bps profit margin expansion in spite of commodit

Electrification and Acquisitions



Positioned for significant growth as electrification adoption acce

1. Includes BEV, PHEV, and HEV. Off-Highway excludes forklifts and scissor lift

POWERING INTO No e-DRIVE

Strategy Evolution



- Established enterprise strategy
- Reversed years of revenue declines
- Initiated focus on electrification
- Established and exceeded financial targets
- Delivered ~\$2B+ of sales growth
- Expanded profit margin by 100bps
- Added \$100M of adj. FCF

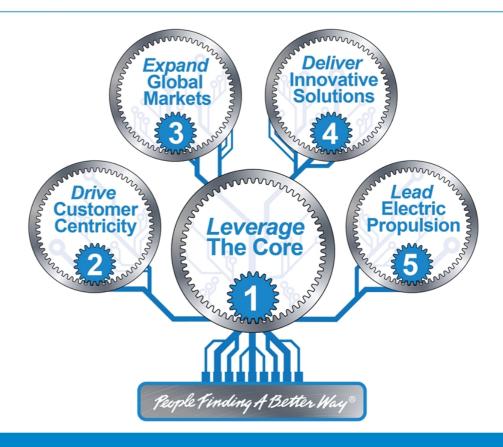


- Refine enterprise strategy
- Sustain profitable growth trajector
- Lead electrification as growth vec
- Establish new financial targets
- Deliver another ~\$2B+ of sales g
- Expand profit margin by another
- Add ~\$200M of adj. FCF and ~\$2

Strategy to drive sales to ~\$10B+ and cumulative adj. FCF of ~\$2B

See appendix for comments regarding the presentation of non-GAAP measures









Leverage The Core

Utilize capabilities in **power conveyance**, **thermal management**, and **mechatronics** across all three mobili markets to deliver a sustainable competitive advantage





Increase synergies

Position portfolio



Amplify innovation

Create Value with Multi-Market Presence



Cost efficiencies delivered through core technologies

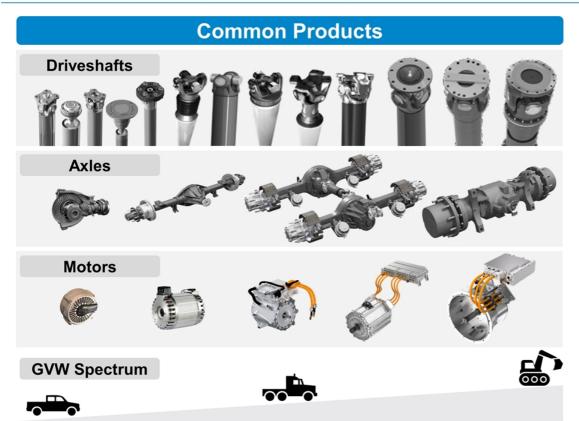


Technology investment magnified by shared R&D



Speed of ir accelerate knowledge

Core Engineering



- Shared expertise is le the enterprise
 - Research and de
 - Product design
 - Application engir
- Core technologies sp markets: light and com off-highway equipment
- Modular designs app end markets
- Supply chain and ma optimized to support a

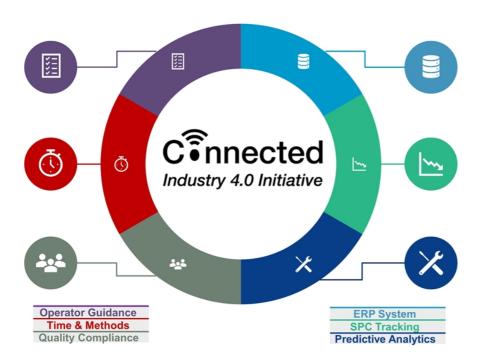
Purchasing and Supply Chain



- Global commodity bu common purchases ac and regions
- Matched pairs: engine purchasing functions for reduce complexity through and use of common parameters
- International purchas support and enable glothe local level
- Cost per weight analy competitive value
- Reduce supply base to economies of scale

Manufacturing

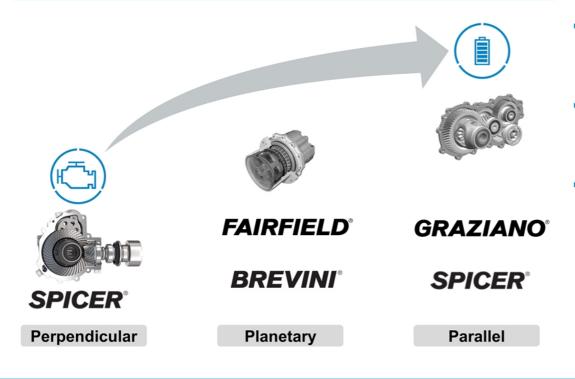
Industry 4.0 Foundation



- Real-time asset perfo management driving (improvements
- Digital scheduling an management enabled manufacturing systems
- Preventative and prediction
- Multiple variant analyti learning reducing ene

Mechanical Technology

Acquired Enhanced Gear Products for Electrification



- Historical competence of perpendicular transfer through hypoid gears
- Brevini and Fairfield acceptanetary gear capabilities for heavy vehicle e-Properties.
- Graziano acquisition als parallel torque transfer highly relevant for light

Electrodynamic Technology

Acquired Electrodynamic Products















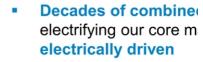
TM4 delivered high-vo

magnet motors and po

SME brings low-volta

technology with power

















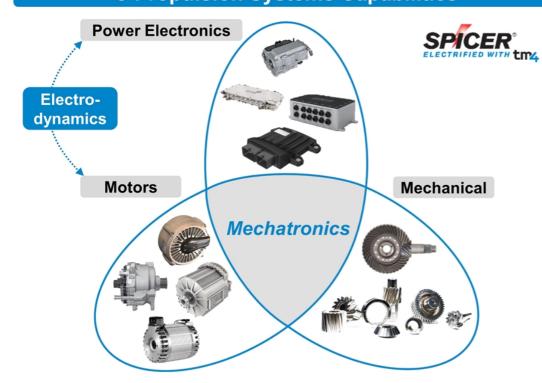






Mechatronics Competence

e-Propulsion Systems Capabilities



- Full suite of power ele
 - Inverters
 - Converters
 - Software
 - Controllers
- Broad range of motor
 - Permanent magr
 - Induction
 - Synchronous rel
- Precision mechanical
 - Perpendicular, h
 - Parallel, helical
 - Planetary



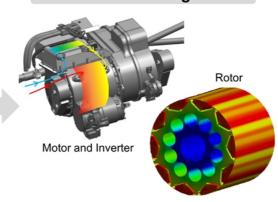
Thermal Technology

Thermal Management for e-Propulsion

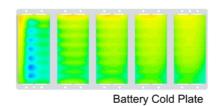
Product



Thermal Image







- Developing e-Propulsior strong thermal manager motor and inverter ten managed for optimum p
- Thermal competency of is leveraged across bu enhance their electrified
- Integrated cooling systemower density, reduced packaging
- Efficient thermal dynal increasingly important w inverter are integrated ir

Integrated e-Propulsion Systems





Digital Technology

Growth Vectors









Digitally Enabled Products

Digital Services

- Physical products and digital solutions such a controls that enable:
 - Remote fleet ma
 - Data- and analyt decision making
 - Advanced diagnostics
- Digital service offerir customer and product value through:
 - Digitizing existing
 - Subscription and revenue models
 - Control of custor



Additive Manufacturing

Axle Arm Application



Traditional





Additive





- Additive manufacturi allows for completely r component design, en manufacturing compar methods
- Applicable for tooling production and servi Benefits include:
 - Reduced weight
 - Faster time to ma
 - Ability to integrat
 - Less scrap / was
- Axle arm example saw reduction and 50% fas

Create Value with Multi-Market Presence



Cost efficiencies delivered through core technologies



Technology investment magnified by shared R&D



Speed of ir accelerate knowledge

Leveraging the core yields \$175M in annual embedded cost syn





Drive Customer Centricity

Positioned to win more than fair share of drive systems bus across all three mobility markets as OEMs deploy capital to megatrends of mobility, autonomous driving, and digitizat







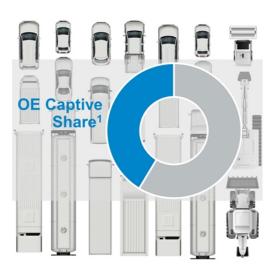


Engineer solutions

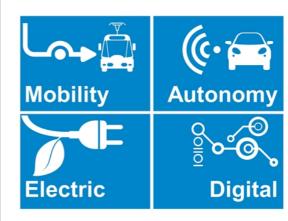


Digitize customer experie

Gain Share Through Customer Centricity



Captive market represents significant opportunity



OEMs faced with **emerging megatrends**...

September 6, 2017

Why John Deere Just Sp Million on a Lettuce-Farr

February 22, 2019

Daimler and E in Urban Mob

August 27, 2018

Toyota Investing \$500 M in Driverless-Car Pact

October 3, 2018

Honda to Inve GM's Self-Driv

and **red...** د **capital** to د comp

Europe & North America



Global Platforms

Key Vehicles



































- Footprint in all four ma light vehicle business the compact truck segi content on 9 of the top
- Leveraging global pres commercial vehicle to relationships in unders open new opportunities
- Off-highway custome looking to source from region capabilities that volume, global prograr



Customer Relationships

Improved Customer Breadth Through Acquisition

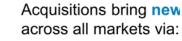












- Existing program
- New electrification
- Complementary



খ্যদ brevini









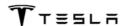
















- Brevini and ODS acquipresence in off-highw
- SME and TM4 have st with key EV integrators commercial vehicle n
- ODS gear and e-Propulight vehicle market



Differentiated Performance

Customer Recognition



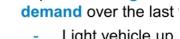








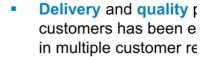


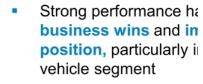


Light vehicle up

Experienced high leve

- Commercial vehi
- Off-highway up 2











× E-Vehicle Level Integration Partner

Full Electrified Powertrain Offering













e-Propulsion System

Battery Management System

- Customers are requirir electric powertrains 1 architectures
- e-Propulsion and bat systems must be integ vehicle controls to deli powertrains
- Dana has partnered w battery suppliers to prosolutions for customers adoption of Spicer® El e-Propulsion systems
- Dana's tier one positi system partnership

Hybrid Electric System Partner

Class 8 Truck Application



- Entered strategic part system integrator Hy
- Hyliion system turns a truck into a hybrid by rear axle, battery, and management system
- Dana develops / supplintegrated e-Axle for hybrid system
- High value proposition lower fuel costs, lower lower maintenance

× Off Road, High Performance, Formula-e

Pushing the Limits to Improve Product Offerings









- Applications that dema performance drive in
- Direct marketing to himarkets highlights brain and stimulates pull-three
- Formula-e racing creations for TM4 high-voltage electronics
- Engineering and suppl performance drivetra level of precision autor edge technology







Aftermarket 'All Makes'

Full Driveline Product Offering

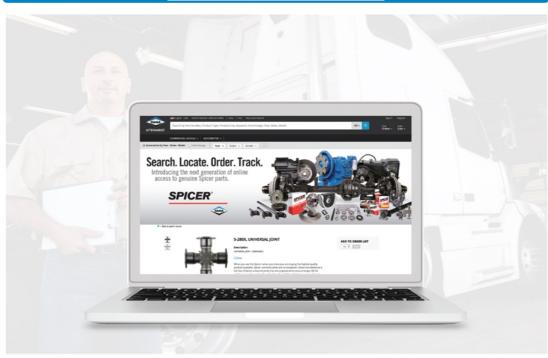


- Extends Spicer afterm include **full range** of d including those of com
 - Axle gear sets
 - Universal joints
 - Driveshaft end y
- Products engineered to dependable performation
- Product lines are purpomaximize life of aging
 - 18-month, 100,0
 - Maximizes aging
 - Engineered to re and noise



Aftermarket e-Commerce Platform

DanaAftermarket.com

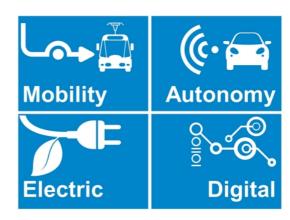


- Web-based, global pla across all mobility ma improve customer satis
- Ease of use helps to redowntime for operator
- Comprehensive and concept experience delivers con advantage:
 - Intuitive user inte search function (satisfaction
 - Recommendatio sales
 - High-resolution i complete dimens

Gain Share Through Customer Centricity



Captive market represents significant opportunity



OEMs faced with **emerging megatrends**...

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and **red...** د **capital** to د comp

Driving customer centricity yields more OEM outsourcing opport

1. Europe & North America





Expand Global Markets

Disproportionately invest in capabilities to drive growth

Asia-Pacific market with highest growth rates and earl

electrification adoption







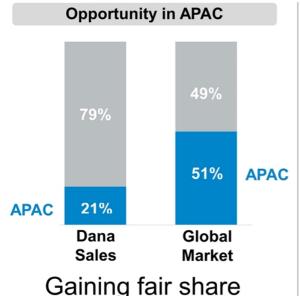




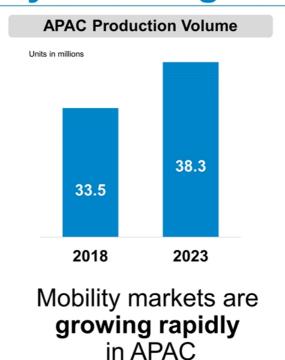
Expand inorganically

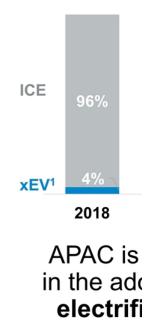
Grow organically

Deliver Growth by Investing in APAC



Gaining fair share represents opportunity in APAC markets





APAC xEV

1. Estimate for China LV and CV ma

Ton I

Joint Venture Partners



- Spicer India Limited: J production and sale of u driveshafts, light axles, t components for the Indi
- Axles India Limited: management in housings and beams for duty commercial vehicle
- DDAC: JV with Dongfer R&D, production, and sa Chinese bus and truck r
- ROC Spicer: JV with Yu Motor Co. for production transmissions, axles, pro universal joints for the C
- Prestolite e-Propulsior JV with Prestolite Electri production and sale of e power electronics for the



Supplier Partners

External Supply Chain





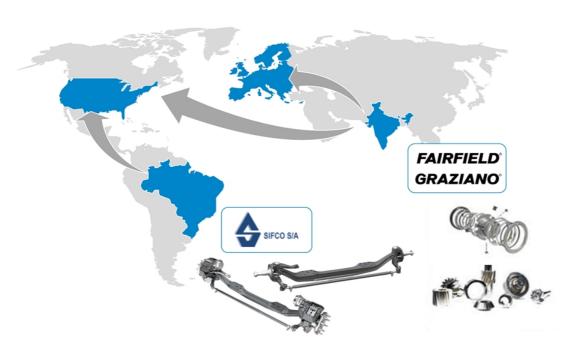


- High level of market of need for improved supple
- Fostering supplier rel and quality locations to for final assembly in en
- Cost, capacity, and do while maintaining the h key to customer satisfa
- Flexible, global supply three end markets allov response to changing



Acquired Internal Supply

Internal Supply Chain



- Manufacture compon regions and ship to end assembly for key high-
- Specialization creates supply chain, allowing secapacity, and delivery maintaining quality
- Indian facilities focus c size component gears applications
- Brazilian facilities acque focus on forged and mocomponents for CV appropriate front steer axles



Acquired Local Market Presence



- ODS acquisition adds r and tech centers in Asi domestic customers
- Acquisitions further diff domestic markets:
 - Significant Asian capacity
 - Local engineerin support
 - Experience hanc complexity
- Opportunity for future two Chinese facilities u and an Indian facility hasignificant expansion

Organic Local Market Presence

Expanding Footprint



- Experience serving an complexity of global multiple regions
- Expanding, sharing, au global footprint to dri
- Recent investments in
 - Chongqing: Nev Dana's most adv
 - Yancheng: Expa drive manufacture existing facility for
 - Rayong: Expand for Asia Pacific

Aftermarket Distribution Network

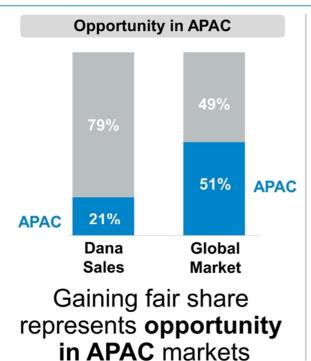
Focus on Underserved Regions



- Opportunity for expand
- Enhancing capabilitie and Assembly Centers Product Distribution Ce adding service, sales, a competencies across the
- Expanding SAC footp customer access
- Asia Expansion
 - Leveraging stron
 - Promoting Dana

Deliver Growth by Investing in APAC

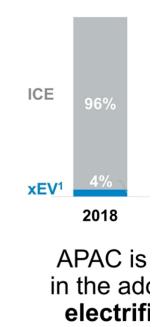
Units in millions





38.3

APAC Production Volume



APAC xEV

1. Estimate for China LV and CV ma

Investment in capabilities yields double-digit organic sales growth

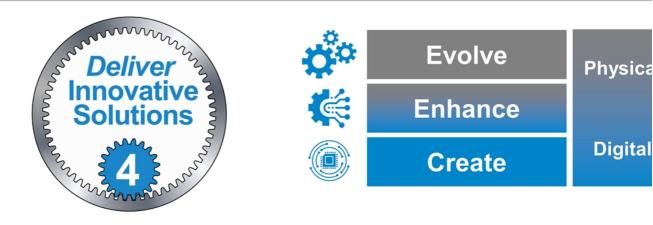
33.5



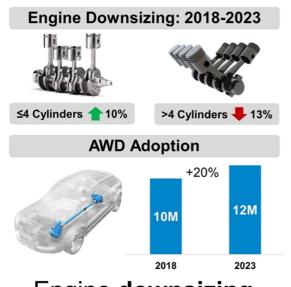


Deliver Innovative Solutions

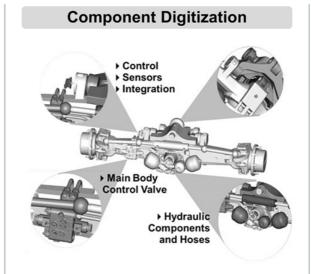
Capitalize on secular growth trends that expand ou addressable market by increasing content per vehicle a physical products evolve toward digital solutions



Increase Content Through Innovation



Engine downsizing, driveline enhancement offer significant opportunity



Digitally enabling our physical products is driving higher CPV



Digital so provide growth

Source: IHS



AdvanTEK[®] Ultra[™]

Advanced Gear Design Application



- Most efficient axle for application – 30% bette best-in-class solution
- Delivers fuel economy to a 200-lb weight red by the EPA
- Cuts noise in half ove
- Launching globally on | AWD vehicle program

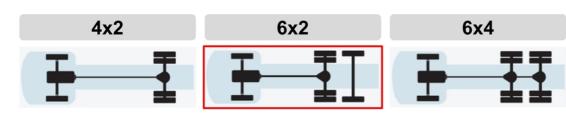




AdvanTEK® Heavy Duty Single Axle

Efficient 6x2 Driveline Application





- Commercial vehicle ax AdvanTEK[®] gearing te
- Opportunity for growth and with a key custor
- Enables hybrid systematics
 6x2 into a 6x4 configuration
 electric rear axle
- Tailored designs to m market in which the vel
- Axle weight reduction
- Lower lubricant require
 - Estimated 7 pints
 - Per unit savings



Wheel and Track Drives

Planetary Hub Drive Application

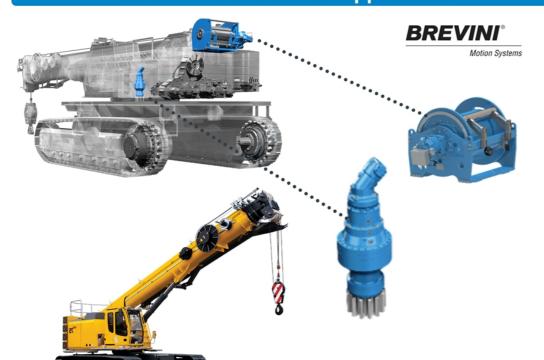


- Expanding full range drives for tracked vehicles
- Leveraging Brevini, C technology and brand
- Expands the address cover a full range of us applications to large he
- Utilize Asian and Euro expand market reach
- Capitalize on ODS str volume small and com wheeled applications
- Small and compact ap suited for electrificat a strong position to cal



Advanced Motion Systems

Slew Drive and Winch Application



- Motion systems allow [integrated solutions t customers
- Systems include control motors, pumps, slew displayed.
- Hydraulically and electechnology
- Deliver greater value 1 selling motion systems allowing performance between the two



Transmission Separator Plates

High-Efficiency Transmission Application



- Allows high-efficiency (clutch transmissions to higher pressure level leaks
- Applicable for electric transmissions that rec solutions for high opera
- Requires fewer bolts to transmission, leading to and lighter weight
- Tighter seal allows use pumps, leading to lowe weight, and smaller p









Software-Controlled Driveline

Automatic AWD Disconnecting System Application



- Offers fuel economy and control of AWD th disconnecting drivesha
- Significant content pe increase for sedan, C FWD architecture augi and rear axle
- **Full systems solution** rear disconnect and sc
- **Designed for fuel effi** viscosity lubricant
- In production with Fo and soon to be launch



Enhanced Off-Highway Drivelines

Modular Independent Suspension Application



- Independent suspensic hydraulic actuation the levels of technology by customer
- Allows regional custom quality, reliability, and compete with global co
- Scalable to meet the n of different applications
- Modular to allow for co components across plateverage scale
- Transferable technology off-highway market seg



Advanced Transmissions

Off-Highway Vehicle Applications

SPICER®

Drivetrain Systems











- Transmissions distribu functions and motion s
- Offering multiple techni different performance fuel-efficiency standa
- Dana Rexroth, a JV in Rexroth, produces hyd variable transmissions efficiency and productive customers
- All off-highway transmi specified with Spicer el systems to further enh



Digital Service Offering

Tire Analytics SaaS Application



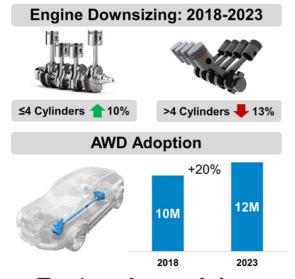




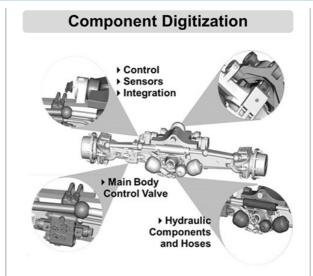


- Cloud-based tire main management software traditional manual proc
- Real-time alerts enable management and improposed ownership
- Utilizes live dashboard management
- Available on multiple t platforms
- More than 10,000 truc currently using applicat
- Descriptive and predic to failure before it hap;

Increase Content Through Innovation



Engine downsizing, driveline enhancement offer significant opportunity



Digitally enabling our physical products is driving higher CPV





Digital so provide growth

Delivering innovative solutions yields market expansion and high

Source: IHS

Electrification – The future of vehicle propulsion

Dana Investor Day



New York, NY - March 11, 2019



Brandon Boyle

Partner
Automotive Competence Center
Detroit, MI

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Electrification – The future of vehicle propulsion

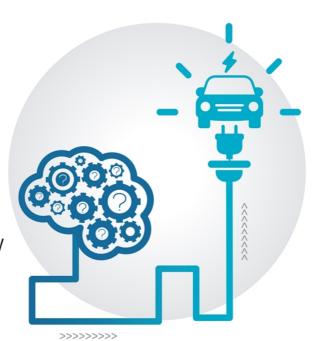
Focus of today's discussion



What are the **drivers** of electrification?



How will the drivers **manifest** regionally and by segments?



What are the ke capabilities a components for e-propulsion syster

How will the **roles**the value chain shover time



The global adoption of electrified propulsion is being driven by a combination of factors

Global drivers of electrification



Regulation



Customer pull / Total Cost of Ownership



Technological advancements



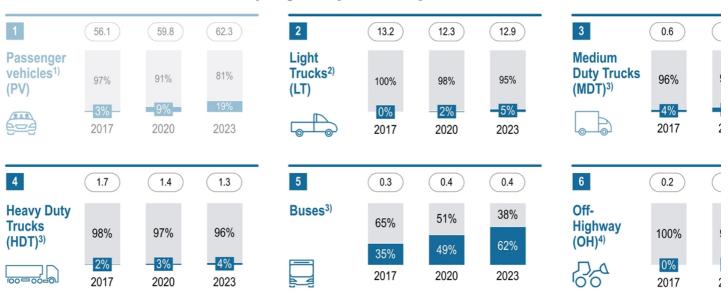
Charging Infrastructure

- > Emission / fuel consumption targets
- > Minimum xEV shares (e.g. CARB ZEV regulation)
- > City access limitations (e.g. London, Paris)
- > Potential fast policy shift in China
- > Subsidies & taxation (fuel and vehicle)
- > Vehicle registration advantages for xEVs (e.g. License plate access in Chinese cities)
- > Special rights (e.g. usage of car sharing lanes in US)
- > TCO advantages for fleets (esp. CV)
- > Ramp-up of battery production induces low battery prices
- > Automated driving enabling new business models (Robocab)
- > Charging infrastructure developments
- > LV is fastest developing with OEM support
- > Promise of faster charging speeds



The percentage of electrified vehicles is growing in all vehicle segr

Total volumes and electrification by segment [m units, %]



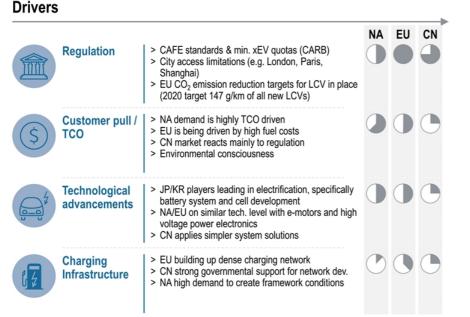
xx Total sales volumes, Units [EU, NA, CN] Electrified vehicles (FH/PHEV/BEV/FCV)

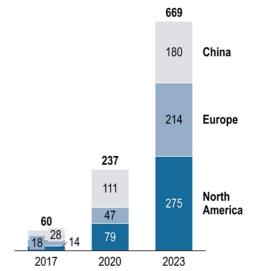
1) Vehicle segments A/B/C/D/E excluding large vans (C/D/E) and large MPVs (D/E); 2) Mini/Compact/Full-Size Full-Frame vehicles and large unibody vehicles – Vans (segments C/D/E) and MPVs (segme included for North America, EU & China; 4) OH figures are global and include construction equipment and mining vehicles with high-voltage propulsion systems

Source: IHS, STM, Roland Berger

The Light Truck segment is expected to develop slower than the blue LV segment – Regulation and customer pull are driving pace of ch

Light trucks





BEV/Hybrid forecast¹⁾ [000 units]

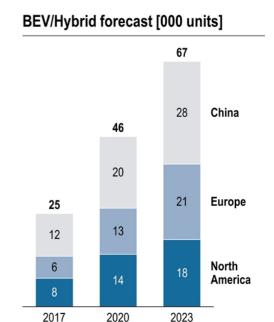
Source: IHS, Roland Berger

¹⁾ Mini/Compact/Full-Size Full-Frame vehicles and large unibody vehicles - Vans (segments C/D/E) and MPVs (segments C/D);

Total Cost of Ownership is the main driver for MDT xEV adoption a regions, supported by incentives – City regulation as additional drivers.

Medium Duty Trucks

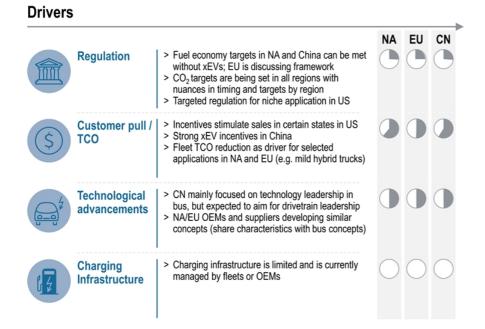
Drivers NA EU CN > Fuel economy targets in NA and China; EU targets Regulation under development > City low/zero-emission driving restrictions expected in EU and China > Some fleets in US and EU have adopted xEV to convey green image > Incentives stimulate sales in certain states and **Customer pull** applications in NA (e.g. vocational and municipal > Fleet TCO reduction as driver for specific applications in NA and EU > CN mainly focused on technology leadership in **Technological** bus, but expected to aim for drivetrain leadership advancements > NA/EU OEMs and suppliers developing similar concepts (share characteristics with bus concepts) > MDT will charge usually at the depot Charging > No need for public charging infrastructure Infrastructure

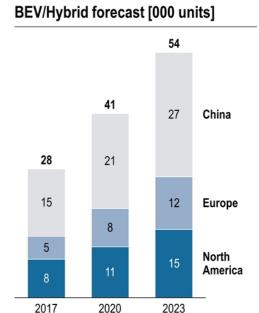


Source: IHS, Roland Berger

Within the HDT segment, Total Cost of Ownership benefits apply o selected niche applications in North America and Europe

Heavy Duty Trucks

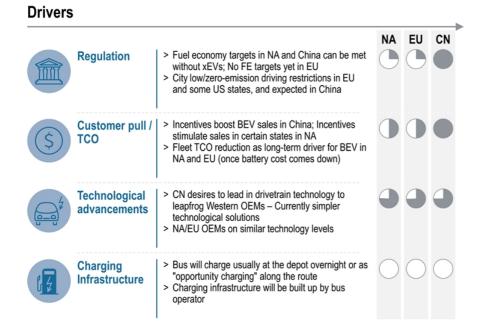


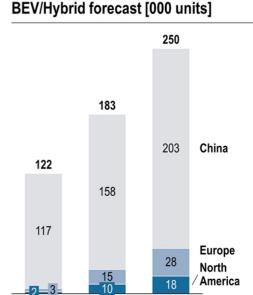


Source: IHS, Roland Berger Analysis

Growth of xEV buses is driven by subsidies in China – Significant potential based on evolving city regulations in EU

Buses





2020

2023

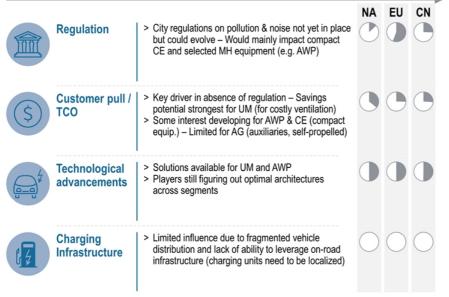
2017

Source: IHS, Roland Berger

Adoption of OH xEV is expected in select applications

Off-Highway

Drivers



Source: Roland Berger

Subsegment trends

Construction Equipment



- Required battery size and cooling need limit application
- Hydraulics remain primary power of auxilia
- > Potential electrification of compact equipme

Agriculture



- First electrification expected on hydrostatic vehicles as well as auxiliaries and power be systems
- > Electric powered front axle a potential next
- > Full electric vehicles not expected mid-term

Mining



- Applications such as underground mining e see some level of electrification (eliminates costly ventilation of mines)
- Many companies have full electric offerings underground equipment (Atlas Copco, GE,





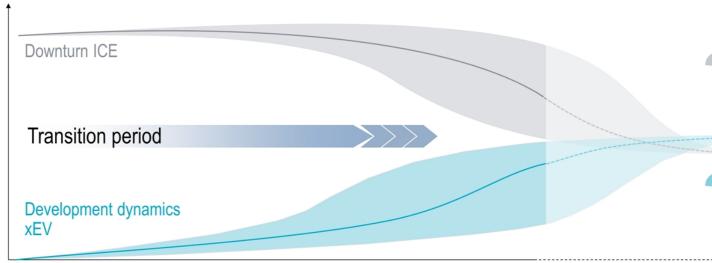
- > High share of indoor forklifts already electri cells are a niche alternative
- Hybrid and full electric boom lifts already of customers



It will be important for OEMs and suppliers to carefully manage the transition period to xEV

Transition development





Today

ICE: Internal Combustion Engine

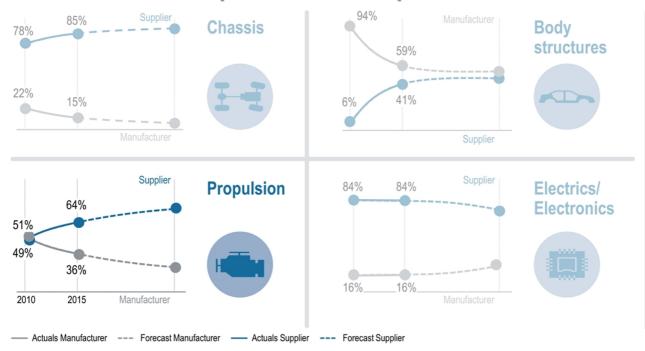
EV: Electric vehicle



Source: Roland Berger

OEM and supplier domain focus will shift over time with suppliers (significant share of value-add in propulsion systems

Shifts within the value chain [share of value add in %]

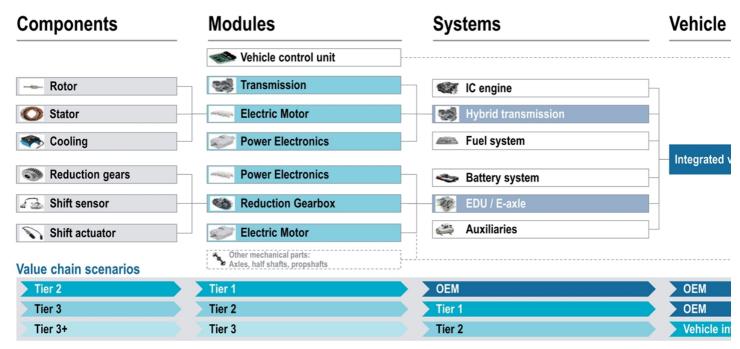


- Most mecha already mar suppliers
- > Investment manufactur continue to the OEMs
- > The added convention will continue
- > E-drives do value added compensate ICE
- > OEM will inc of system in expand its e electronics competence



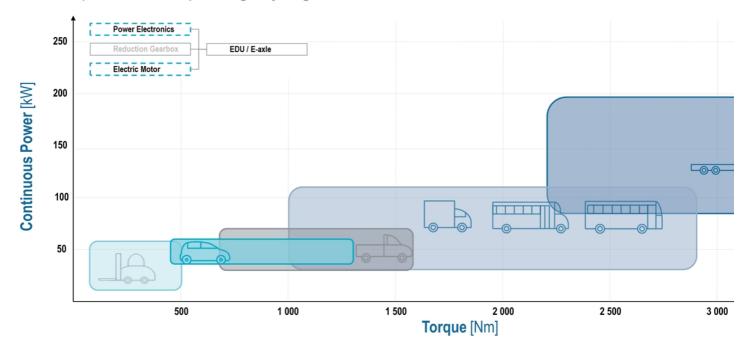
While suppliers will take a more prominent role in the value creatic systems, it will largely depend on OEMs' strategies

Participation construct in electrified propulsion systems

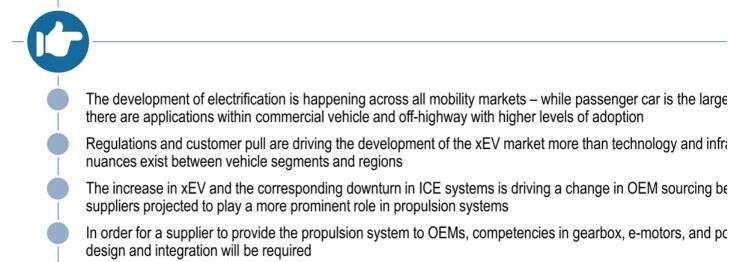


A range of motors (low and high voltage) and power electronics wi required to serve the full range of applications and vehicle architec

E-motor power and torque range by segment – Illustrative



Implications for suppliers



Suppliers that have not yet built or acquired these competencies will find it difficult to build them organically g constraints on resources and the pace of change

Those with system-level integration capabilities will be able to provide more efficient systems and value to OI

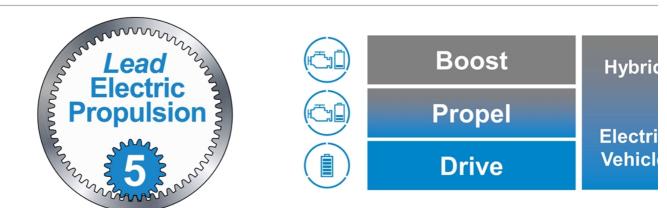






Lead Electric Propulsion

Develop and deliver **fully integrated e-Propulsion syster** capture opportunity to **double CPV** as core markets shift internal combustion engines to electric propulsion



Double Content Through Electrification

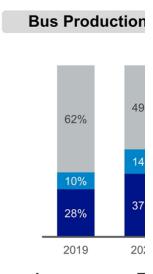


Electrification creates significant opportunity in driveline



300+
electrification-focused engineers

Leverage deep expertise in electrifying our core markets...



..because E is happeni than anti

Wide Range of Vehicle Segments

Target Electrification Segments



- Low-voltage segments smaller packaging, low greater maneuverability
- High-voltage segment higher torque, greater i voltage auxiliary syster
- While some of these se electrification later than positioning itself to be oproviding e-Propulsic

Electrodynamic Technology

Integrated Inverter



Electric Motor Topology

Induction

Synchronous Reluctance

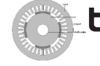
Perman

Copper Wire

Synch. Reluctance

Synch. Reluctance Internal Permanent Magnet

Rare E















Vehicle auxiliaries and traction for low-speed electric vehicles

- 2 40 kW
- Round-wire copper design
- Extremely reliable, low-cost solution

Vehicle auxiliaries

- 15 25 kW
- Brushless, magnet-free design
- Improved cost performance and efficiency over induction motors

Traction for low-speed vehicles

- 20 76 kW
- Brushless, magnet design
- More cost-effective traction solution than permanent magnet motors

Traction for pas off-high

- 4 250 kW
- Round and recta
- Highest power de
- Available in both rotor designs

Cost Effectiveness

Pc

Power Electronics Topology

Low Voltage Inverters

High Voltage Inverte

TAUTRONIC Inverters

SCHWARZMULLER Inverters

















Small OH traction and pump functions

- 1.5 70 kW
- Most advanced control algorithm for high efficiency and high performances Synchronous Reluctance and Permanent Magnets motors
- SME power modules for the best power/volume ratio in the market

PLUS 🛂

Automatic Guided Vehicles and CV auxiliary functions

- 1.5 70 kW
- State of the art control algorithm for induction motors control
- Specific hardware and software for application in autonomous vehicles and Electro-Hydraulic Power Steering

Inverters



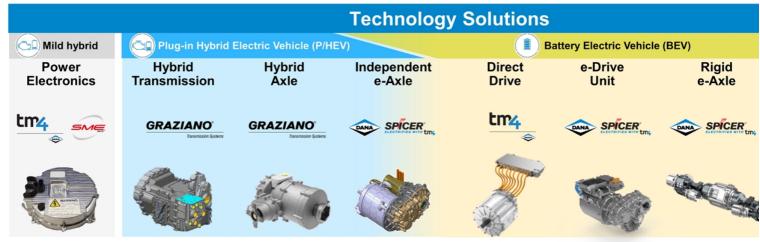
LV, CV, and larger OH machine

- 150 350kW
- TM4 "Reflex" technology optimizes motor control
- Tailored to application based on in-depth market knorenabling optimized performance

Low Voltage

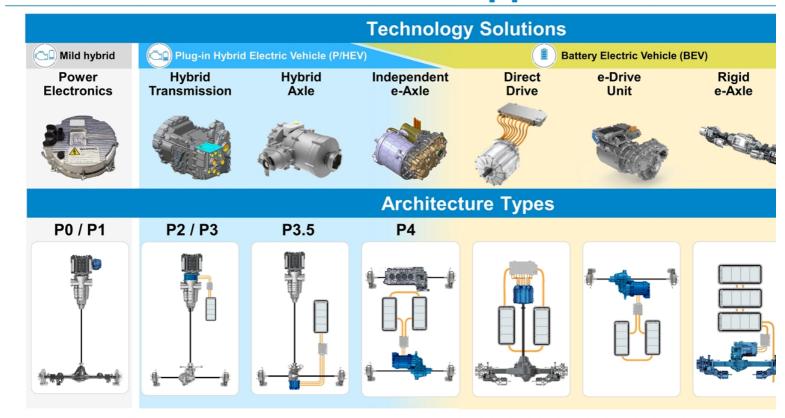
PLUS1 is a registered trademark of Danfoss

Electric Propulsion Product Portfolio





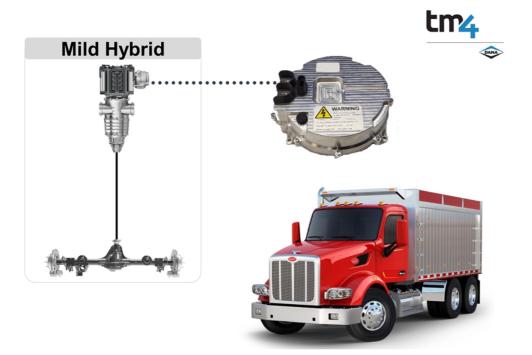
Electrification Product Applications





Power Electronics

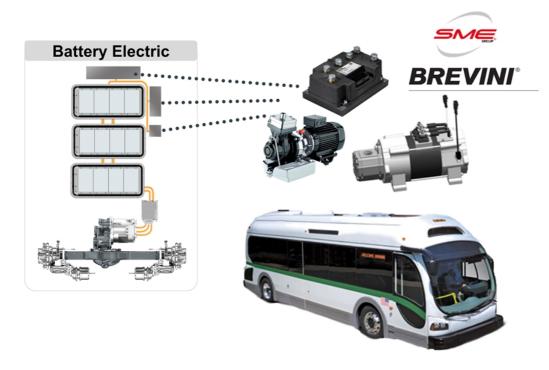
Heavy-Vehicle Application



- start/stop functionality starter generator for n hybrid vehicles
- Targeted toward comm segment, including bus
- Product is compatible v hybrid architectures, al integration
- Enables OEMs to bette environmental regula

Power Electronics

Transportation Application



- SME acquisition position low-voltage auxiliary expanding content in keeps
- Includes motors and in electronic hydraulic por pumps, and e-Compress and climate systems
- Focused on commerci smaller off-highway a aerial work platforms, r
- Opportunity to target mobility segments, su electric vehicles
- Allows Dana to sell a function and auxiliary product optimized for performant



Hybrid Transmission

High-Performance Application

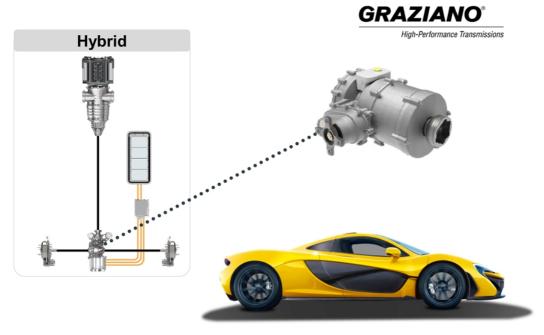


- Automated high-efficier integrated hybrid more motor in P2 or P2.5 lay
- Targets front or mid-enrange hybrid passenç
- Developed with a mod reduce one-off designs
- Full hybrid functions in:
 - Engine cranking
 - Kinetic engine re
 - Electric boost
 - Full electric drive
 - Hybrid drive
 - Charging from st



Hybrid Axles

High-Performance Application

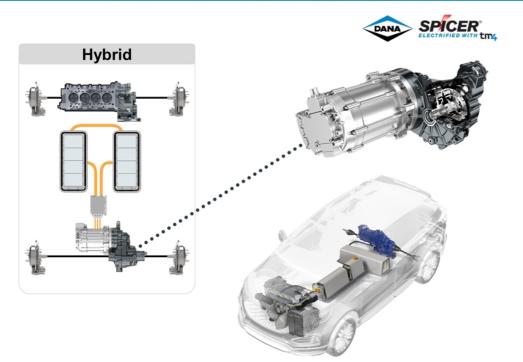


- Unique solution for re high-performance vehice
- Efficient torque manage varying driver require
- Provides 150kW of ins reduces fuel consum
- Functionalities include energy recovery mode
- Capitalizes on emergin offering acquired elect for existing Dana custo



Independent Electric Axle

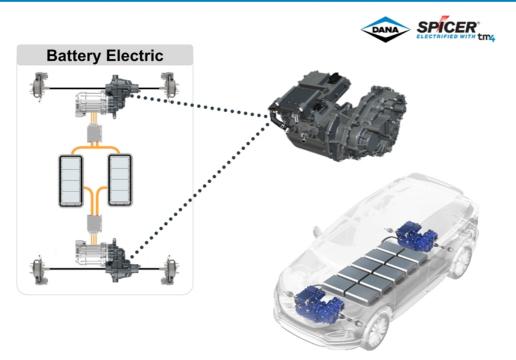
CUV and SUV e-AWD Application



- Adds secondary elect wheel-drive hybrid vehicapability without addir connections
- Option for torque vect scales from traditional;
- Target applications incl market to achieve on-c drive functionality with solution
- E-Axles allow for impro integration, optimized κ weight reduction
- Provides OEMs with th integrate into hybrid c architectures

Independent Electric Axles

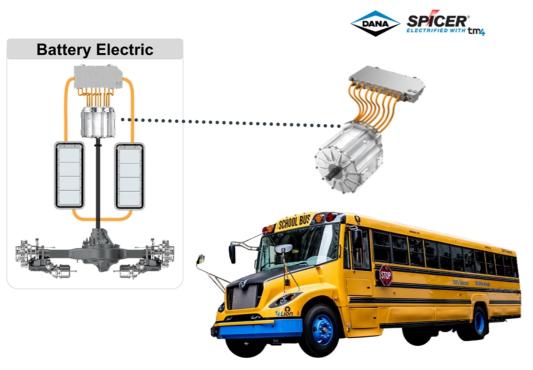
CUV and SUV e-AWD Application



- Dual torque vectoring i e-Axles provide full ele
- Additional content in A
- Offers Dana opportunit commercial-vehicle ma expansion into electrif passenger car market
- Fewer mechanical correduced maintenance
- Positions Dana to win of who are attracted to high attributes

Electric Direct Drive

Urban Transport Application

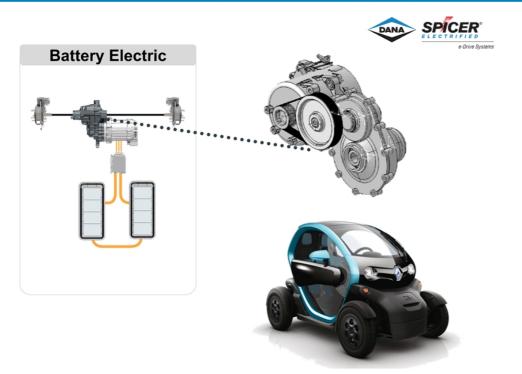


- Direct drive motors w motor directly interface axle and driveshaft to p
- Allows OEMs to immed existing chassis
- Maximizes Dana conte components to mechar
- Targets commercial-ve such as **medium-duty**
- Lowers maintenance internal combustion en



Electric Drive Unit

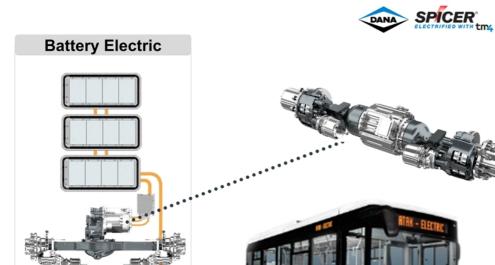
Low Speed Electric Vehicle Application



- Electric-drive systems speed electric-vehicle i
- Targets fully battery-ele passenger and utility
- Enables access to hig new mobility for city tra utility-vehicle market
- Emerging Indian marke supply small commerce segment and low-spe through existing joint ver
- Offering variety of solut controlled torque vect differentials

Rigid Electric Axles

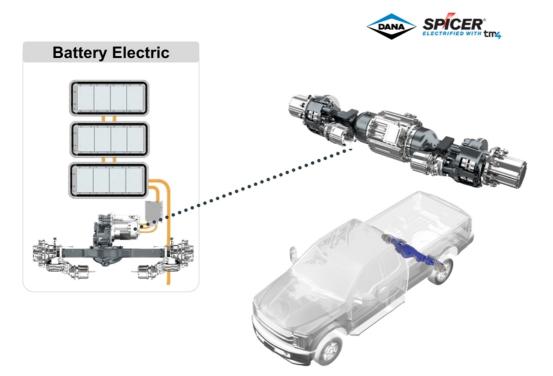
Urban Transportation Application



- Electric motor is fully in axle; combines all functions and transmission into the
- Applications in all mobils currently targeting combus, medium-duty truckend markets
- Compact design saves efficient operation
- Opportunity to take advantaging and gain floor other aspects of the

Rigid Electric Axles

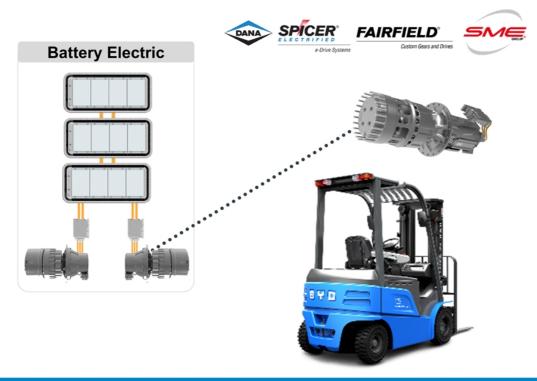
Full-Frame Truck Application



- Electric motor is fully in axle; combines all function and transmission into the state of the st
- Applications in the fullmarket, including picku commercial vehicles
- Compact design saves efficient operation
- Opportunity to take advantaging and gain floor other aspects of the

Wheel-End Electric Drives

Material-Handling Application



- Electric motor connecte wheel drives
- Integrate ODS and Bre portfolio into Dana's s to penetrate new marke
 - Allows Dana to c rapidly growing segments: cons material handling
 - Leverage acquir technology for e small excavators
 - High-efficiency n drives allow for r packaging and
- Can offer both front dr steer axles electrified

Motion Electric Systems

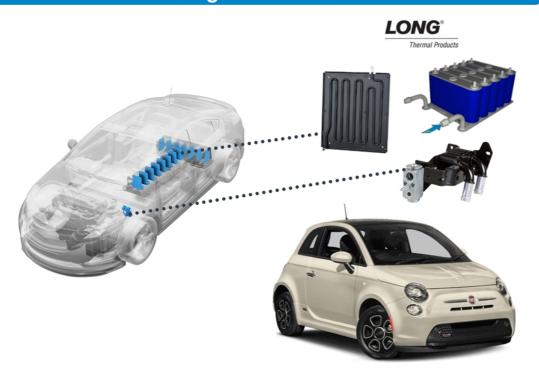
Slew Drive, Power Pack, and Controls Application



- Deliver greater value 1 selling electrified motio systems, as performal optimized between systems.
- Integrate ODS' produc Dana's system appromarkets
 - Leverage acquire for electric mini ε
- Motion systems can als with Brevini power pa electric power into hydi

Battery Cooling

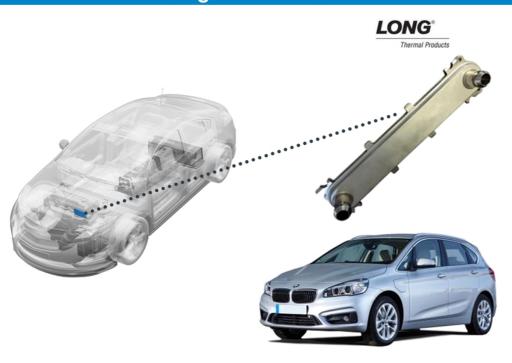
Long® ThermaTEK™



- Thermal management function in all hybrid a
- Battery solution provide and heating functions
- Numerous patented do optimize the temperature across the cold plate
- Utilizes a proprietary as aluminum brazing tec

Electronics Cooling

Long[®] ThermaTEK[™]



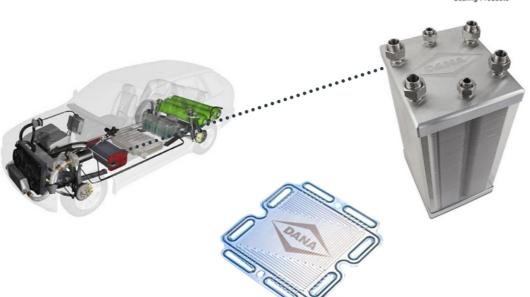
- Electronics thermal ma increasingly critical a performance requireme multiply due to electrif autonomous driving
- Dana developed a unic provides two-sided ch optimizes heat transfer
- Unique production production weight and cost redu
- Solution is an industry and a PACE Award fin

Hydrogen Fuel Cells

Victor Reinz[®] Hydroseal[™]

VICTOR REINZ®

Sealing Products



- Fuel cells expected to l relevant as adoption in 15+ years, specifically segment
- Fuel-cell capabilities pr to address core mark of energy source
- Co-developing future OEMs
- Currently a market lea plates, having supplied composite plates
- Experience in both met solutions gives Dana fl both solutions as OEI offering

Double Content Through Electrification

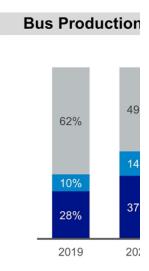


Electrification creates significant opportunity in driveline



Leverage deep expertise in electrifying our core markets...

engineers



because E.. is happeni **than ant**i

Electrification yields more than \$100 million of sales today





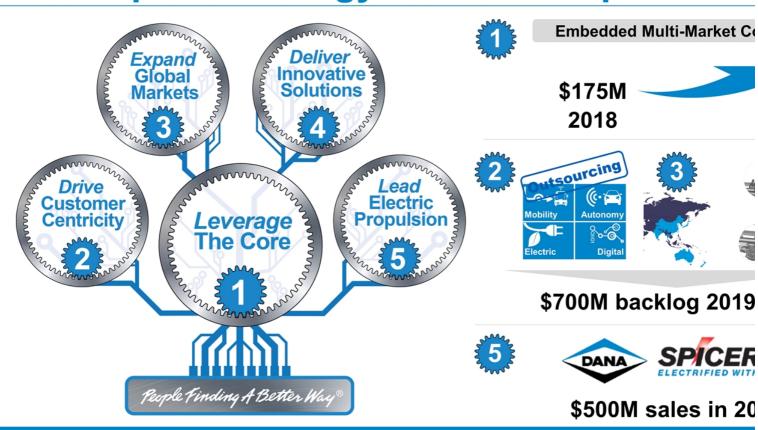


Financial Summary

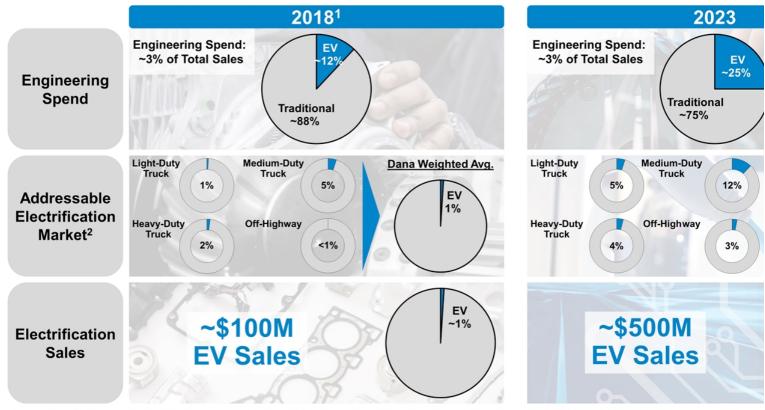
People Finding A Better Way®



Enterprise Strategy Financial Impact



Electrification Leadership Evolution



1. Dana metrics pro forma for acquisitions. 2. Light-duty truck based on mini/compact/full-size full-frame vehicles and unibody vehicles; CV volumes based on North America, EU, and China; OH volumes global and include construction equipment and mining vehicles.

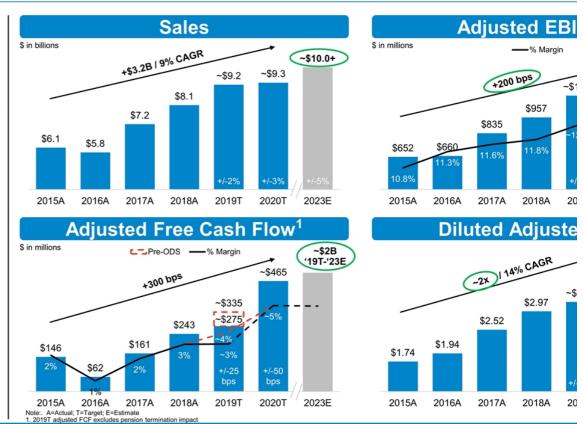
2019 Guidance vs. 2016 Original Targets

- Delivering dramatically improved financial results compared to targets provided at 2016 Investor Day
- Augmented by strategic M&A investments
- Expecting to meet 2019 adjusted free cash flow target from 2016 Investor Day before impact of ODS integration
- Improved EPS outlook largely driven by profitability expansion



Key Financial Metrics Trends

- 2019 includes 10 months of ODS, with synergies actions completed through 2020
- Forecasted market growth and new business attainment expected to drive sales exceeding \$10B by 2023
- 200 bps of EBITDA margin expansion from 2015 to 2020T
- 2019T adj. free cash flow projected at ~4% of sales prior to ODS impact of (\$60M)
- Expecting to reach 5% adj. free cash flow goal by 2020 and drive ~\$2B of FCF generation through 2023
- EPS growth continues to outpace profit growth due to prudent balance sheet management

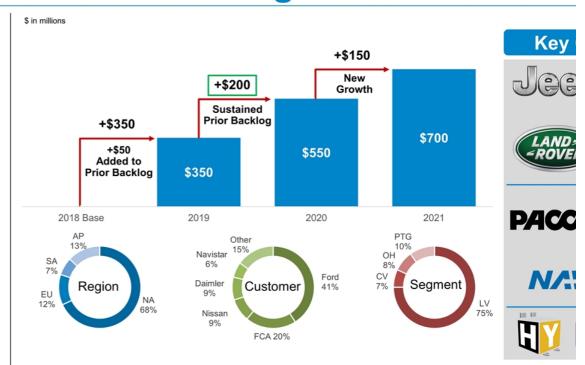


2020 Growth Drivers



2019-2021 Sales Backlog: \$700 Million

- Backlog includes booked incremental new business net of any lost replacement business
- Backlog is incremental to 2018 sales, holding both foreign currency exchange rates and vehicle production volumes constant
- Delivering positive backlog in all business units across all major customers and regions



Backlog positions us to outperform market through

2020 Mobility Market Demand Outlook















Heavy Duty







































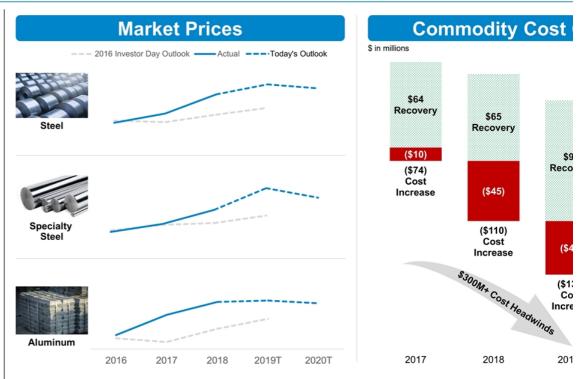






Commodity Costs Outlook

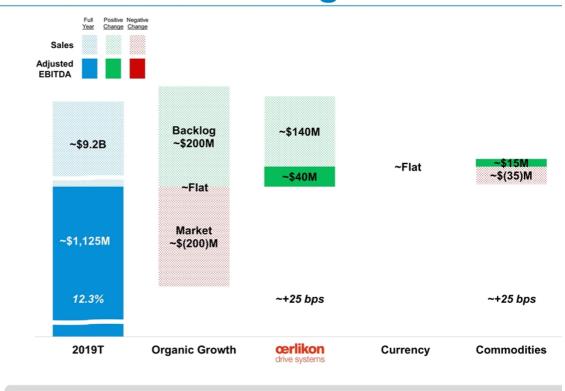
- Prices in all key commodities have increased faster than projected at previous Investor Day
- Driving \$300M+ cost headwinds expected through 2019, with nearly \$100M impacting profitability
- Forecasting modest cost reductions in 2020 – price give-backs provide ~25 bps of Adjusted EBITDA margin improvement



Delivered 100 bps profit margin expansion in spite of comi

2020 Sales and Profit Changes

- Organic sales likely to remain flat as softening of market demand will be offset by conversion of sales backlog
- ODS is expected to accrete ~\$140M of sales and ~\$40M of profit, mainly due to a full year of results plus cost synergies, and will deliver half of the margin expansion required to achieve the longterm profit margin target
- Commodity costs need to only decline by \$50M in order to provide the other half of the margin expansion



ODS cost synergies and commodity cost reduction =

2020 Adjusted FCF Growth Drivers

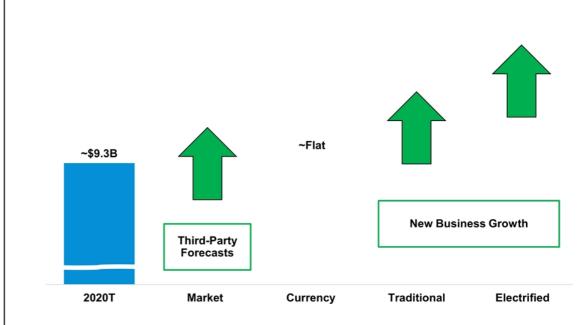
- Expecting 200 bps of adjusted FCF margin expansion at midpoint of range, from profit growth, reduction in one-time costs, and working capital investment versus 2019T
- 2020T includes full year of ODS versus 10 months in 2019, as well as realization of the majority of synergies actions
- ODS capex expected to normalize in 2020

	Changes Versus 2019T		
\$ in millions			2
	2019T	2020T	_
Adjusted EBITDA	~\$1,125	~\$1,180	
One-Time Costs	~(95)	~(40)	
Interest, net	~(105)	~(110)	
Taxes	~(185)	~(185)	
Working Capital / Other	~(50)	~0	
Capital Spending	~(415)	~(380)	
Adjusted Free Cash Flow	~\$275	~\$465	_
% Margin	~3.0%	~5.0%	

Adj. FCF margin up significantly with normalized ODS & wo

2023 Sales Potential

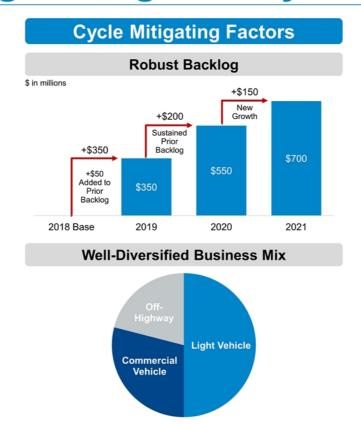
- Third-party sources forecasting overall growth in addressable markets
- Current secured backlog balance scheduled online in 2021 – assumes future 2022-2023 backlog will be in line with 2021
- Anticipating electrification sales growth to ~\$500M by 2023 through legacy Dana, as well as acquired solutions: ODS, TM4, SME



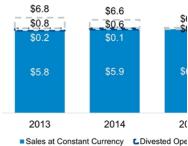
Market and new business growth to propel sales to

Managing Through the Cycle

- Proven and consistent track record of generating new backlog growth
- Strong backlog already established three years forward
- Diversification across end markets and regions lessens impact of softness in any one sector
- Embedded cost synergies and flexibility to abate capital spending provide additional cash flow management
- Long-term adj. free cash flow goal still largely achievable even if a downcycle is endured



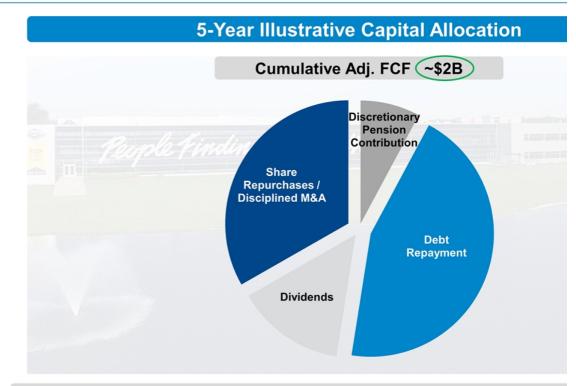




- Class 8 markets declined ~10% in :
- 👢 OH markets declined mid-single-di्
- Significant growth in LV markets
- LV backlog growth offset majority o
- Power Technologies market volume achieved strong growth
- Maintained overall organic sales constant currency basis

Capital Allocation

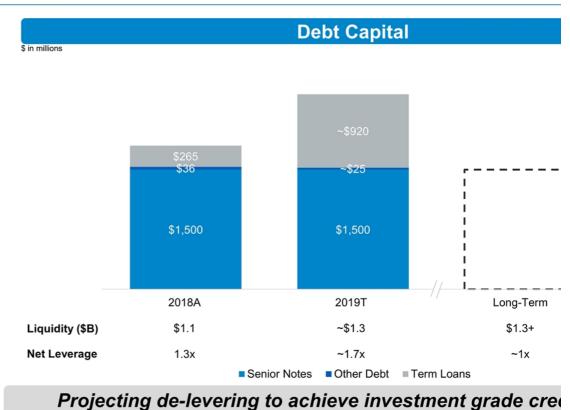
- Anticipating cumulative adj.
 FCF of ~\$2B for 2019T-23E
- Includes capex at normalized levels of ~4% of sales, as largest programs have refreshed
- Pragmatically reducing debt and pension liabilities
- Shareholder return will be combination of dividend payments, and share repurchases or more attractive M&A opportunities
- Well-positioned to deliver long-term growth from recent EV acquisitions
- Attractive adj. FCF profile and consistent de-levering will generate investment grade credit metrics



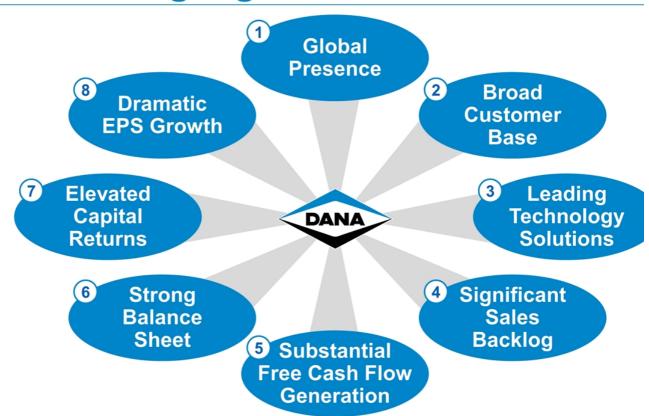
Further strengthening balance sheet and enhancing share

Capital Structure

- 2019T debt includes acquisition financing for ODS
- Planning to designate majority of 2019 free cash flow for discretionary pension termination
- Forecasting substantial paydown of term debt related to ODS in 2020
- Expect robust long-term free cash flow profile to allow for further paydown of debt



Investment Highlights





People Finding A Better Way®

Non-GAAP Financial Information

The preceding slides refer to adjusted EBITDA, a non-GAAP financial measure which we have defined as net income before interest, ta amortization, equity grant expense, restructuring expense and, non-service cost components of pension and other postretirement benef other adjustments not related to our core operations (gain/loss on debt extinguishment, pension settlements, divestitures, impairment, e EBITDA is a measure of our ability to maintain and continue to invest in our operations and provide shareholder returns. We use adjuste assessing the effectiveness of our business strategies, evaluating and pricing potential acquisitions and as a factor in making incentive decisions. In addition to its use by management, we also believe adjusted EBITDA is a measure widely used by securities analysts, inveevaluate financial performance of our company relative to other Tier 1 automotive suppliers, adjusted EBITDA should not be considered income before income taxes, net income or other results reported in accordance with GAAP. Adjusted EBITDA may not be comparable to measures reported by other companies.

Diluted adjusted EPS is a non-GAAP financial measure which we have defined as adjusted net income divided by adjusted diluted share adjusted net income as net income attributable to the parent company, excluding any nonrecurring income tax items, restructuring charge expense and other adjustments not related to our core operations (as used in adjusted EBITDA), net of any associated income tax effect adjusted diluted shares as diluted shares as determined in accordance with GAAP based on adjusted net income. This measure is conspurposes of providing investors, analysts and other interested parties with an indicator of ongoing financial performance that provides encomparability to EPS reported by other companies. Diluted adjusted EPS is neither intended to represent nor be an alternative measure reported under GAAP.

Adjusted free cash flow is a non-GAAP financial measure which we have defined as net cash provided by (used in) operating activities ϵ pension contributions, less purchases of property, plant and equipment. We believe this measure is useful to investors in evaluating the flow of the company inclusive of the spending required to maintain the operations. Adjusted free cash flow is neither intended to represe alternative to the measure of net cash provided by (used in) operating activities reported under GAAP. Adjusted Free cash flow may not similarly titled measures reported by other companies.

Please reference the "Non-GAAP Financial Information" accompanying our quarterly earnings conference call presentations on our web www.dana.com/investors for reconciliations of adjusted EBITDA, diluted adjusted EPS and free cash flow to the most directly comparable calculated and presented in accordance with GAAP. We have not provided a reconciliation of our adjusted EBITDA and diluted adjusted most comparable GAAP measures of net income and diluted EPS. Providing net income and diluted EPS guidance is potentially mislear practical given the difficulty of projecting event driven transactional and other non-core operating items that are included in net income a including restructuring actions, asset impairments and income tax valuation adjustments. The reconciliations of these non-GAAP measure comparable GAAP measures for the historical periods presented on our website are indicative of the reconciliations that will be prepared the periods covered by the non-GAAP guidance.