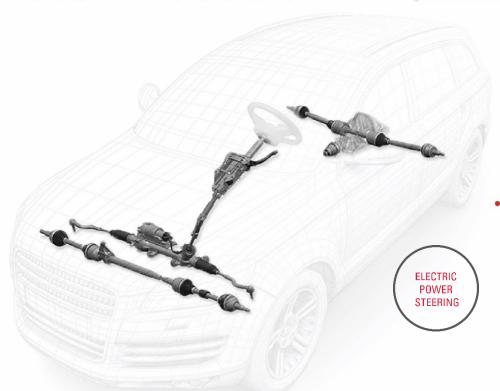


a leader in intuitive motion control



# 2018 Q3

# **Investor Communication**

COLUMNS & INTERMEDIATE SHAFTS

DRIVELINE SYSTEMS

HYDRAULIC POWER STEERING ADAS & AUTOMATED DRIVING

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In this document, all references to "Booked Business Amount" are to our estimation of the value of all booked business under contracts that have been awarded to us. The Booked Business Amount is based on estimated lifetime volume of the programs derived from indicative production arrangements provided by the applicable OEM customers and information provided by third-party industry sources. In calculating the Booked Business Amount, we also assume that the relevant contracts will be performed in accordance with their terms. Any modification or suspension of the contracts related to the booked business by our customers could have a material and adverse effect on the value of the booked business. The value of booked business is not a measure defined by International Financial Reporting Standards ("IFRS"), and our methodology for determining the Booked Business Amount may not be comparable to the methodology used by comparable companies in determining the value of their booked business. While we believe that our current Booked Business Amount is a relevant financial metric, the information in relation to the booked business and the Booked Business Amount included in this document does not constitute a projection, forecast or prediction of our profits, and the actual contract value may be different from the estimated Booked Business Amount due to various factors and uncertainties beyond our control. We cannot assure you that our estimated Booked Business Amount contained in this document will be indicative of our future operating results.

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# **Presenters**



Mike Richardson

Executive Board Director

President



Bill Quigley
Senior Vice President
Chief Financial Officer



# STRATEGY FOR PROFITABLE GROWTH



A Well-Defined Plan to Drive Stakeholder Value







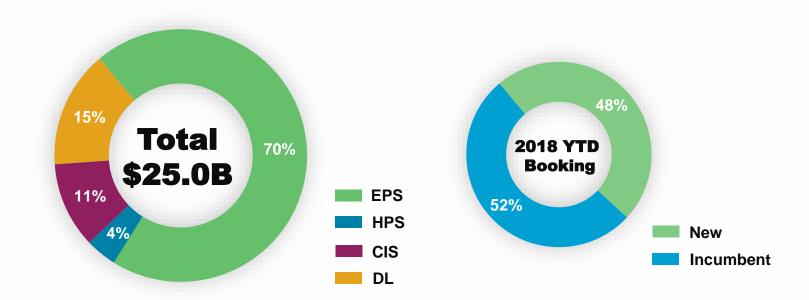






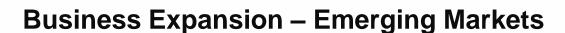


# Order to Delivery Backlog\* as of September 30, 2018



<sup>\*</sup> We compile the booked business information through our internal records, and such information has not been audited or reviewed by our auditors.

















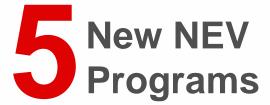




































# 7 New Major Programs Launches in Q3

- GM Holden Acadia (D-segment SUV) REPS and Halfshaft in N.A.
- **GMC Sierra & Chevrolet Silverado (Full-Size Full-Frame Truck)** REPS, I-shaft and Halfshaft in N.A.
- Chang'An\* Yuexiang V3 (B-segment Sedan) CEPS in China
- Chang'An\* CS35 Plus (C-segment SUV) CEPS in China

















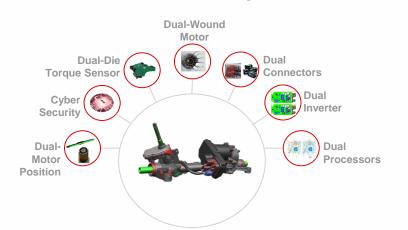


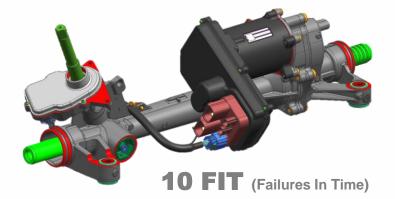






# **Business Expansion – High Availability EPS ADAS Level 4 Fully-redundant Readiness**





# 2019 Launch

### LEVEL 1

#### **Driver Assistance**

Driver controls vehicle.

Vehicle assist features may be included in the design.

## LEVEL 2

#### **Partial Automation**

Driver must stay engaged at all times.

Vehicle has combined automated features.

#### LEVEL 3

#### **Conditional Automation**

Driver is a necessity, but not required to monitor & must be ready to take control at all times with notice.

#### LEVEL 4

## **High Automation**

Driver has the option to control the vehicle.

Vehicle is capable of performing all driving functions under <u>certain</u> conditions.

## LEVEL 5

#### **Full Automation**

Driver has the option to control the vehicle.

Vehicle is capable of performing all driving functions under all conditions.



<sup>\*</sup> Assuming typical vehicle use = 400 hours/year

<sup>- 12,000</sup> miles/year at 30 mph average













# **Business Expansion – Technology Leadership Predicting Motion Control Evolutions**

Through Studying Human Factors & Preferences in Safety & Performance at Different Levels of Automation

# **University Partners**





UNIVERSITY OF LEEDS Institute for Transport Studies (ITS)



# **Industry Partnerships & CNXMotion**



# **Clinics & Surveys**



- OFM's Consulting partner in **Evolving Role** of Intuitive **Motion Control**
- Enhancing **Product Development**















# **Business Expansion – Technology Leadership**

# **Patent-based Competitiveness**

## Patents enable L3-5 ADAS/AD function

as of September 2018

19% of pending patent applications

**3%** of granted patents

# **Nexteer ADAS/AD Safety & Performance** enabling technology, including:

- High Availability Electric Power Steering
- Steer-by-Wire
- Stowable Column
- Quiet Wheel™ Steering
- Steering on Demand™ System

## LEVEL 1 Driver Assistance Driver controls vehicle Vehicle assist features may be included in the design.

## LEVEL 2

#### **Partial Automation**

Driver must stay engaged at all times.

Vehicle has combined automated features.

## LEVEL 3 **Conditional Automation**

Driver is a necessity, but not required to monitor & must be ready to take control at all times with

notice.

### LEVEL 4

## **High Automation**

Driver has the option to control the vehicle. Vehicle is capable of performing all driving functions under certain

conditions.

## LEVEL 5

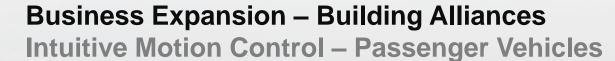
## **Full Automation** Driver has the option to

Vehicle is capable of performing all driving functions under all

control the vehicle.

conditions.





- **Expanded Customer Market Channel** 
  - Collaborative product development & IP Generation
  - Ride and drive with more than 150 evaluators from 21 OEMs
- Summer performance demonstration with improvements based on winter testing and customer feedback
- Nexteer Steer by Wire enabling **Quiet Wheel™ Steering**





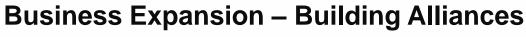








TION CONTROL VENTURE



Intuitive Motion Control – LCV Market

- **Expanded Customer Market Channel** 
  - Light Duty Truck Technology scaled to serve Class 8 Commercial Vehicles
  - Expanded Market Channel Global
- Increased Earnings on Legacy **Applications**
- Launch Ready CY 2019



















# WABCO



Exclusivity With Leading Global Supplier Of CV Technologies





IAA Show 2018 Hanover, Germany



# STRATEGY FOR PROFITABLE GROWTH



A Well-Defined Plan to Drive Stakeholder Value