



## 2018 Emerson Investor Conference New York City, NY

### Thursday, February 15, 2018

8:30 – 9:45	Business Overview / Strategic Update	David Farr
9:45 – 10:45	Automation Solutions	Mike Train
10:45 – 11:00	Break	
11:00 – 11:20	Final Control Update, V&C Integration	Ed Monser
11:20 – 12:20	Commercial & Residential Solutions	Bob Sharp
12:20 – 1:00	Questions & Answers	
1:00 – 2:00	Lunch	

### **Emerson Attendees**

David Farr Chairman and Chief Executive Officer

Ed Monser President

Frank Dellaquila Senior Executive Vice President and Chief Financial Officer

Steve Pelch Chief Operating Officer and Executive Vice President - Organization

Planning and Development

Bob Sharp Executive President, Emerson Commercial & Residential Solutions

Mike Train Executive President, Emerson Automation Solutions

Sara Bosco Senior Vice President, Secretary and General Counsel

Mark Bulanda Senior Vice President, Planning and Development

Kathy Button Bell Senior Vice President and Chief Marketing Officer

Tim Reeves Director, Investor Relations

Judson Duncan Vice President, Planning

# **2018 Investor Conference Business Update**

David N. Farr Chairman and Chief Executive Officer February 15, 2018



## Agenda

2017 Review

Market Outlook

The One Emerson Strategy Continues To Move Forward

Financial Outlook

#### Safe Harbor Statement

Given the complexities associated with the Tax Cuts and Jobs Act (the "Tax Act"), the ultimate effects on repatriation cost and other tax items may differ materially from the provisional amounts presented herein due to additional regulatory guidance that may be issued and further evaluation of the Company's actions, assumptions and interpretations.

Our commentary and responses to your questions may contain forward-looking statements, including our outlook for the remainder of the year, and Emerson undertakes no obligation to update any such statement to reflect later developments. Factors that could cause actual results to vary materially from those discussed today are provided in our most recent Annual Report on Form 10-K and subsequent reports as filed with the SEC, as well as the impact of the Tax Act described above.

#### Non-GAAP Measures

In this presentation we will discuss some non-GAAP measures (denoted with an \*) in talking about our company's performance, and the reconciliation of those measures to the most comparable GAAP measures is contained within this presentation or is available at our website www.emerson.com under the investors tab.

#### Trademark Ownership Statement

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## 2017 February Investor Conference --

#### Versus 2017 Actual Performance

# Perform as "New Emerson"

- Finish executing on restructuring plans to right-size cost structure given global macroeconomic trends and smaller two platform business footprint
- Use cash proceeds and strong cash flow / balance sheet to aggressively acquire complementary businesses and enable organic growth
- Position company to fully capitalize on pending global energy market recovery

# 1. Fully Integrate Acquisitions

- ✓ Aggressively execute on initial cost and revenue synergy plans
- ✓ Explore additional synergy opportunities as they emerge
- ✓ Pentair V&C Integration is ahead of plan



# 2. Continue Rationalizing Base

- ✓ Continue rationalization and restructuring of our 2 core platforms -- Perfect Execution
- ✓ Boost profitability, creating a leaner organization positioned for premium growth and premium valuation -- Key to Controlling Our Own Destiny

Note: We have one last piece, optimizing touch points among Corporate and our two Platforms

# 3. Position and Execute for Growth

- ✓ Pursue both organic growth opportunities and acquisitions, especially in Process / Hybrid / Discrete Automation and Commercial & Residential areas
  - Execute deals worth ~\$3B, adding ~\$2B to total sales by 2021, in addition to the acquisition of Pentair V&C
  - Potential for additional \$1-2B of strategic acquisitions for another ~\$1B of sales
- ✓ Regrow Emerson to \$20+B in annual revenues by 2021, recover lost earnings and cash flow

We Successfully Built the Foundation for the New Emerson

### **Emerson's 2017 Financial Performance --**

Compared to Guidance at Last Year's Investor Conference

	2017 Guidance Feb. 2017 Investor Conference <sup>1</sup>	2017 Actual* Excl. V&C	2017 Actual as Reported
Sales	\$14.1 - \$14.4B	\$14.7B	\$15.3B
Underlying Sales Growth*	(2%) - 0%	1%	1%
Gross Margin	~43.4%	43.2%	42.0%
EBIT Margin*	~17.9%	17.9%	16.4%
Operating Cash Flow Continuing Ops	~\$2.5B		\$2.7B
EPS Continuing Ops	\$2.47 - \$2.62	\$2.69	\$2.54
Dividends per share	\$1.92		\$1.92
Dividend to FCF Continuing Ops Ratio*	62%		56%
Cash Returned to Shareholders	~1.5B		\$1.6B

<sup>&</sup>lt;sup>1</sup> At the February 2017 Investor Conference, guidance did not account for results of the V&C acquisition which was completed April 29, 2017

The Emerson Global Team Exceeded February 2017 Forecast in Sales, Profits and Cash Flow. Also, Successfully Closed the Pentair Valves & Controls Acquisition.

Performance in 2017 Led to Strong Orders Momentum Going Into 2018

# **2018 Investor Conference --** Fiscal 2018 Key Focus Areas

# **Key 2018 Take Aways**

- Achieve premium underlying sales\* growth for all of Emerson: 5% 7%
- Drive strong earnings momentum within GAAP EPS by reaching \$3.05 \$3.15 EPS in 2018 -- ~20% GAAP EPS growth
- Deliver another strong year of operating cash flow -- \$2.9+B -- 17% of sales
- Expected dividend per share increase of 2¢
- 1. Grow Underlying Sales\* in Both Platforms: 5% 7%
- Deliver positive underlying sales\* growth within both platforms -- 5 7% EMR growth
- Return Automation Solutions to above market underlying\* growth: 6% 8% in 2018
- Continue strong, above market underlying\* growth within Commercial & Residential Solutions -- 3<sup>rd</sup> year. Targeting another premium underlying \*sales growth year: 4% -6% in 2018
- 2. Continue Margin
  Expansion and Drive
  V&C Operating
  Margins\* to 10%+ by
  2nd half of 2018
- Strong profit margin performance within both platforms is important to return to Emerson consolidated margin improvement -- Especially within Automation Solutions --Must leverage profitability at ~ 35% as sales growth returns and absorbs V&C lower margins
- Successfully integrate V&C acquisition and expand margins to deliver Automation Solutions leverage goals – fiscal 2018 earnings / cash flow accretive
- 3. Grow Operating and Free Cash Flow to Fund Growth and Shareholder Returns
- Continued focus on cash flow management as Emerson returns to growth by generating \$2.9+B in operating cash flow
- Invest \$575M of capital, enhanced by new Tax Reform
- Maintain FCF / Net Income Conversion\* ~120%

2018 Will Be an Exciting Year -- It Is an Opportunity for Both Focused Platforms Within Our Organization to Grow While Maintaining a Strong Focus on Margins and Cash Conversion -- A Strong Demonstration of Emerson's New Focused 2 Platform Strategy

## Emerson's 2018 Forecast --Stronger Sales, Earnings, and Cash Flow Growth

			% Change
	<u>2017</u>	2018E Forecast	<u> 2017 - 18E</u>
Sales (GAAP)	\$15.3B	\$17.0 <b>–</b> \$17.3B	11% - 13%
Underlying Growth*	1%	5% - 7%	
Gross Margin	42.0%	~43.1%	~110 bps
EBIT Margin*	16.4%	~16.7%	~30 bps
GAAP EPS Continuing Ops	\$2.54	\$3.05 - \$3.15	20% - 24%
Dividends Per Share	\$1.92	\$1.94	+1%
Operating Cash Flow Continuing Ops	\$2.7B	~\$2.9B	+8%
Cash Returned to Shareholders	\$1.6B	~\$2.0B	

Global GFI: FY 2018	2017-18E
<u>Assumptions</u>	% Change
U.S.	3.5% - 4.5%
Canada	3.5% - 4.5%
Europe	3.5% - 4.5%
Middle East & Africa	3.5% - 4.5%
China	4.5% - 5.5%
Asia Pacific Excl. China	2.5% - 3.5%
Latin America	1.5% - 2.5%

#### Other 2018 key assumptions:

- Currency Tailwinds ~\$0.3B
- Tax Rate: 25%-27%
- 2018 Share Repurchase: ~\$750M (\$1B by end of calendar year)
- Closed acquisitions: ~\$750M (includes Paradigm & Cooper Atkins)
- Capital Expenditures: ~\$575M, ~3.4% of sales
- Oil prices: \$50-\$70
- First year pre-tax acquisition acctg. charges: 2017 (\$93M), 2018E ~(\$45M)
- Intangibles amortization: 2017 (\$117M), 2018E ~(\$180M)

## Mature Markets: Gross Fixed Investment (GFI) Trends 2018 and 2019 Look Pretty Good -- GFI Not GDP!

#### Canada

- Nonresidential investment continues to trend higher as business confidence remains high
- Energy investments accelerating in 2018
- NAFTA concerns, but should be resolved by 2019

2017: 0.6%

2018E: 4.0%

2018E - 2021F: 3.0%

#### Europe

- Western Europe expected to continue to grow ~4%
- Eastern Europe should improve growth to 4+%
- Russian GFI growth should rebound as interest rates come down, and Oil & Gas prices stay firm, and investments start happening

2017: 3.9%

2018E: 4.0%

2018E - 2021F: 2.5%

#### **United States**

Reflective of tax reform

- Baseline GFI growth better than expected -- driven by improved business spending
- Good GDP growth -- driven by business spending/investments and the new tax plan
- Stronger growth results in a lower unemployment rate, higher wages and improved consumer spending

2017: 2.3%

2018E: 4.0%

2018E - 2021F: 3.5%

World 2017: 2.8% 2018E: 3.8%

2018E - 2021F: 3.7%

Source: IHS Economics and Emerson Management Assessment; Europe ignores impact of Ireland ~\$50B Intellectual Property investment

## **Emerging Markets: Gross Fixed Investment (GFI) Trends** 2018 and 2019 Will Accelerate Due to Strong Growth in USA and Europe

#### Middle East & Africa

- Saudi Arabia's economy expected to emerge from recession in 2018
- Capital expenditures expected to improve, especially around energy and downstream investments
- New power investments are happening

2017: 1.2%

2018E: 3.7%

2018E - 2021F: 4.5%

#### China

- Steady capital investments continue around export expansion, environmental improvements and new technology industries
- Exports will add to China's economic growth and new investments

2017: 2.9%

2018E: 5.0%

2018E - 2021F: 5.0%

#### Latin America

- Mexico's economy finally improving and now expects solid fixed investment growth in 2018 and 2019
- Brazil's economy is still weak and we don't see much improvement in our end markets in 2018
- NAFTA concerns, but should be resolved by 2019

2017: (2.0%)

2018E: 2.0%

2018E - 2021F: 3.0%

#### **Asia Pacific (Excluding China)**

- India's GFI growth will improve to ~5% with solid industrial / environmental investments
- Southeast Asia's GFI growth of ~4.5% will be driven by all industrial sectors

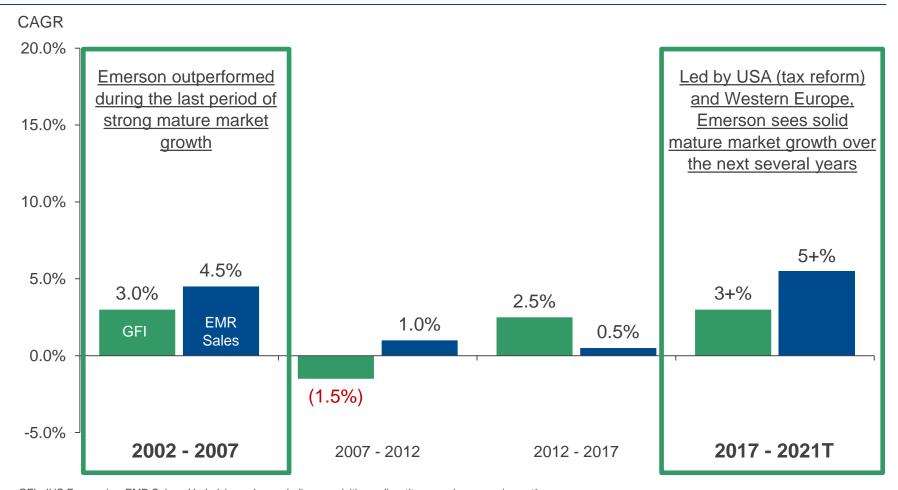
2017: 3.5%

2018E: 2.9%

2018E - 2021F: 3.7%

Source: IHS Economics and Emerson Management Assessment

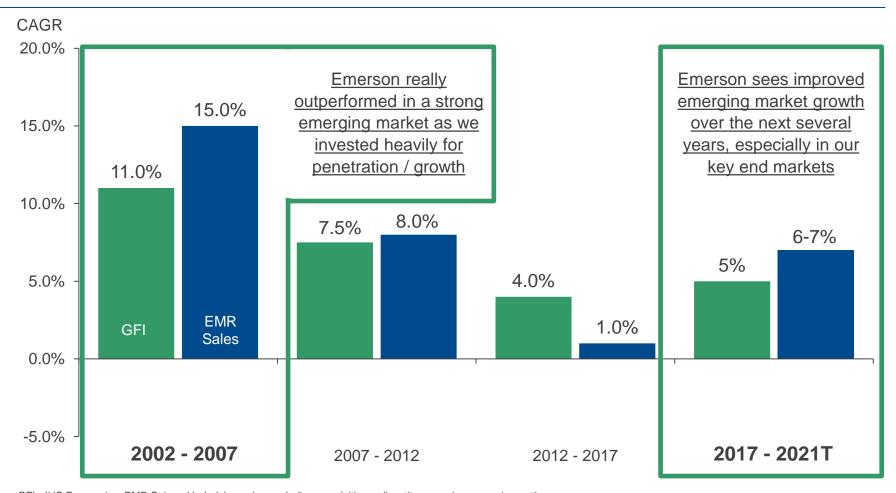
# Mature Markets: GFI and Emerson Sales Growth Rates



Source: GFI - IHS Economics; EMR Sales - Underlying sales excluding acquisitions, divestitures and currency impact\*

Mature Market Growth Should Increase to ~3% -- With a Stronger North America and Western Europe, Emerson Should Drive Premium Growth With This Economic Scenario -- Similar to 2002 - 2007

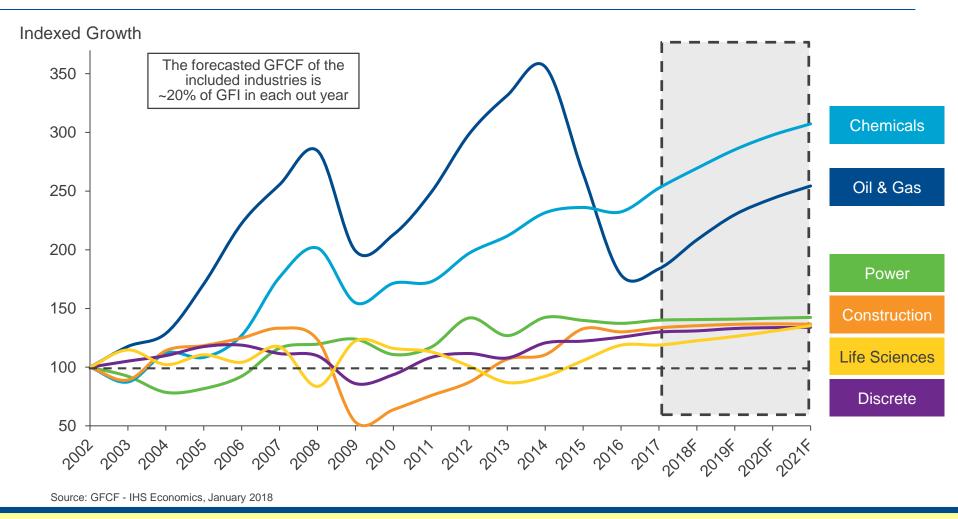
## **Emerging Markets:** GFI and Emerson Sales Growth Rates



Source: GFI - IHS Economics; EMR Sales - Underlying sales excluding acquisitions, divestitures and currency impact\*

Expected to Outpace Mature Market GFI Over the Next 3 Years, We Will Leverage Our Strong Position in Emerging Markets to See Solid 6% - 7% Underlying Sales Growth\* --Like We Did in 2002 - 2007 Time Period -- Lower Growth, but Larger Stronger Base

# U.S. Gross Fixed Capital Formation (GFCF), a Subset of GFI, Forecasts --- Post U.S. Tax Reform Enactment



Gross Fixed Capital Formation Is Showing Steady or Accelerating Capital Expenditure Forecasts Across Our Core End Markets

# U.S. Tax Reform Positively Impacts Our Core Markets and Incremental Capital Investment

#### Oil & Gas

"At ExxonMobil, we plan to invest more than \$50 billion over the next five years to expand our business in the United States. These investments are underpinned by the unique strengths of our company and enhanced by the historic tax reform recently signed into law.... The recent changes to the U.S. corporate tax rate coupled with smarter regulation create an environment for future capital investments."

Darren Woods, ExxonMobil CEO

#### Chemicals

"We see the comprehensive tax reform in the United States as a catalyst for increased domestic capital investment, which will take advantage of enhanced competitiveness and pro-business investment incentives."

Andrew Liveris,
DowDuPont
Executive Chairman

#### Oil & Gas

"From a business standpoint, tax reform is quite transformational... there will be a lot of capital attracted to the U.S. in my opinion, just speaking from BP's perspective"

Bob Dudley, BP CEO

#### Life Sciences

"Tax reform clearly provides incentives for us to invest heavily in innovation and advanced technologies here in the U.S., and that is exactly what we will do... we expect to invest on the order of \$2.5 billion in capital expenditures in the U.S. over the next 5 years."

Robert Bradway, Amgen CEO

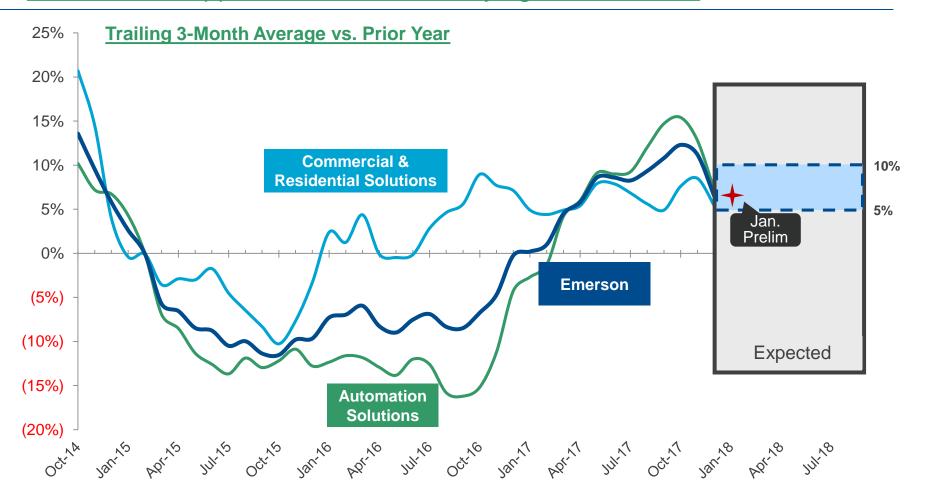
#### Cold Chain

"The benefit that the franchises and the company will receive as a result of U.S. tax reform, we are further accelerating our investment in Experience of the Future in the U.S. ... Between the company and our franchises over the next 2 years, we will invest approximately \$6B to transform the U.S. business."

Steve Easterbrook, McDonald's CEO

Additional Investments Brought on by Tax Reform Are Not 'Shovel Ready' Projects -Companies Are Evaluating Opportunities and We Anticipate Orders and Sales
Will Come Starting in Late 2018 and Going Into 2019 and 2020

# Underlying Order Trends -Continue to Support Solid 2018 Underlying Sales Growth

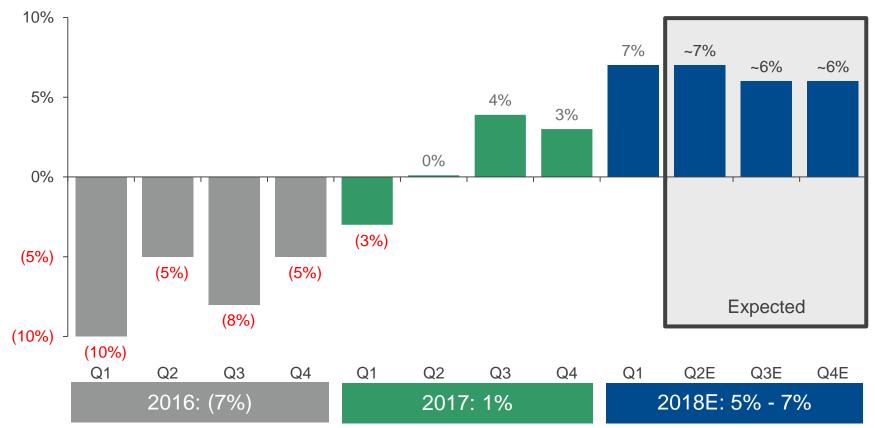


Emerson's Orders Are Expected to Rebound Into the 5 - 10% Range for the Next 10 Months. Comparisons Are Tough, but Underlying Demand Is Still Very Good. We Will Bounce Between the 5 - 10% Range -- + or – Some Months

# Quarterly Underlying Sales Growth\* --

Maintaining Positive Momentum

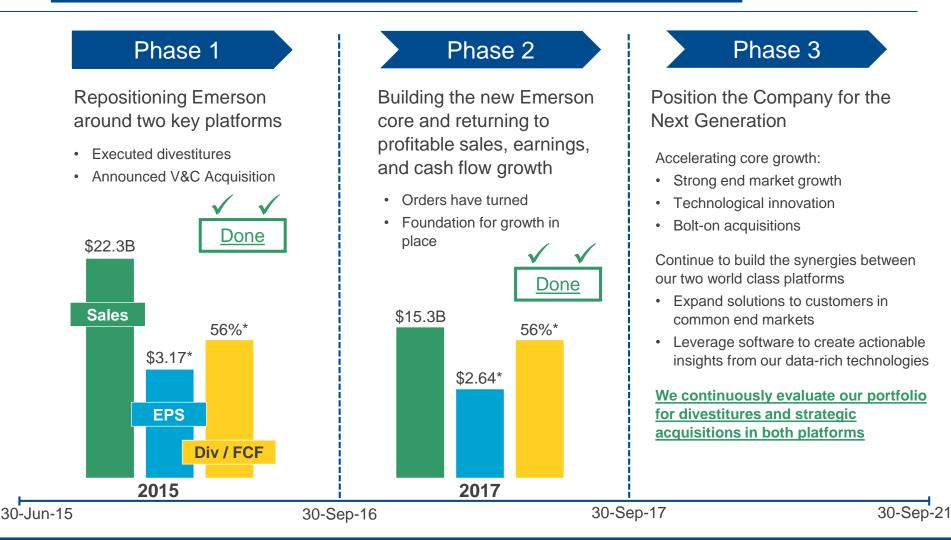
Emerson underlying sales growth\* (year-over-year change by quarter)



Note: All data shows Emerson continuing operations

Throughout 2017 We Saw Global Stabilization, Recovery, and Increased Investments. Now 2018 Is Seeing a Stronger and Improving Business Investment Environment Driving Our 5% - 7% Underlying Growth\* Year for Emerson

# Three Phases of Our June 2015 Transformation Journey Announced After a 12 Month Internal Review



The Path Is Clear and We Are Charging Forward – The Core Company Is Strong and Has Many Value Creation Opportunities Through Organic and Acquisitive Growth

### **Emerson's Two Core Business Platforms**

We concentrate on the most complex and important challenges facing the world in the process, industrial, commercial, and residential markets

#### **AUTOMATION SOLUTIONS**

## \$204B Market ~\$11.1B 2018E Sales ~53,500¹ Employees

- Making the greatest use of the world's valuable resources
- Helping nations move their economies forward in a responsible way
- Enabling the performance and safety of industry when it matters most
- Advancing the industries that are the backbone of daily life

#### **COMMERCIAL & RESIDENTIAL SOLUTIONS**



- Ensuring human comfort and health
- Protecting food quality and sustainability
- Advancing energy efficiency and environmental conservation
- Creating sustainable infrastructure
- Continuing momentum at our Helix Innovation Center

## Emerson's Two Platform Strategy: Continue to Move Up the Technology Pyramid Utilizing Our Strong Position in the Devices / Instruments / Sensors and Control Levels

#### Data

#### Management

Converts rich data to information and develops actionable insights

#### Control

Performs action on rich data collected from the field

Devices / Instruments / Sensors

Generates rich data

**Insights from** information are fundamental to delivering optimization

Customers rely on our control systems, which ensure their processes are optimized, running safely, efficiently, and productively

lays the foundation to optimize our customers' broad needs

Our established credibility with customers through world class devices/instruments/sensors

Emerson Has Tremendous Credibility With Our Customers and We Are Uniquely Positioned to Provide Optimized Solutions for Our Customers Up and Down the Technology Pyramid

## Emerson Offers Intelligent Devices, Instruments, Sensors, Controls, and Software Across the Two Platforms

**Automation** Converts rich data to information High Residential Solutions Solutions **Predictive Diagnostics** Syncade AMS - Data Analytics & Traceability Data ESI Integrate with external information Management **GEOFIELDS** MYNAH - Production functions PARADIGM PROSYS **Enterprise functions** Performs action on rich data Increasing **Synergies** Change status Across **Platforms Controls** - Shutdown Monitoring **OpenEnterprise** SCADA Testing **OVATION** Generates rich data Control signal Devices / Instruments / Safety signal

Status signal

**Product Quality signal** 

Low

**Sensors** 

22

Commercial &

PROACT

Sensi Monitorina

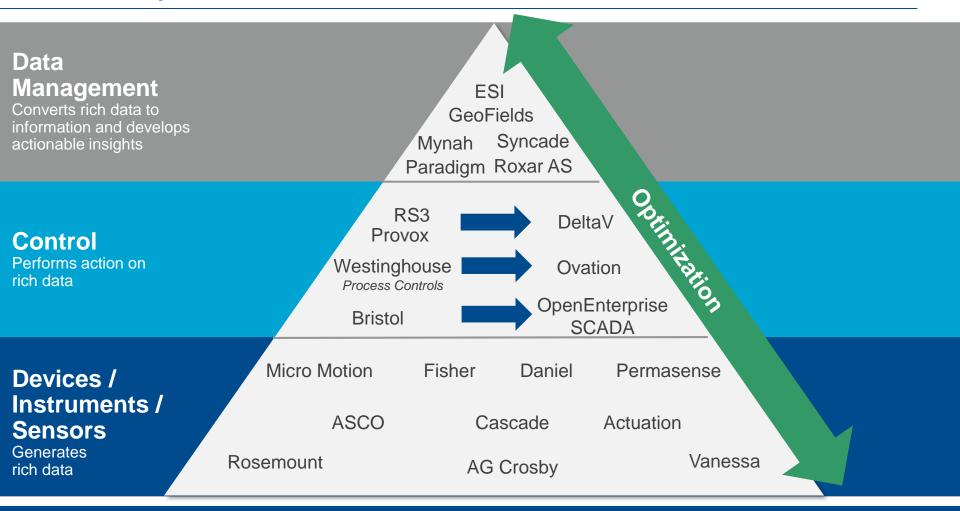
**Cooper Atkins** 

EMERSON

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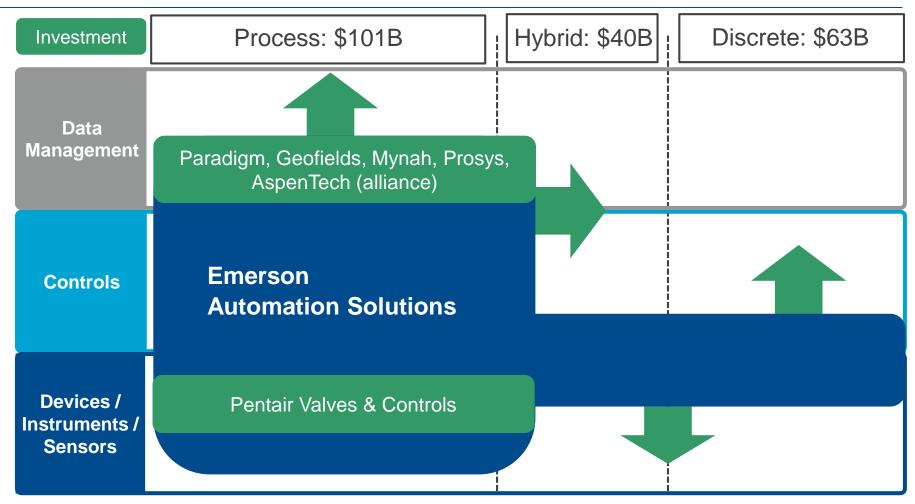
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# Automation Solutions: A Complete Portfolio of Solutions for Our Customers



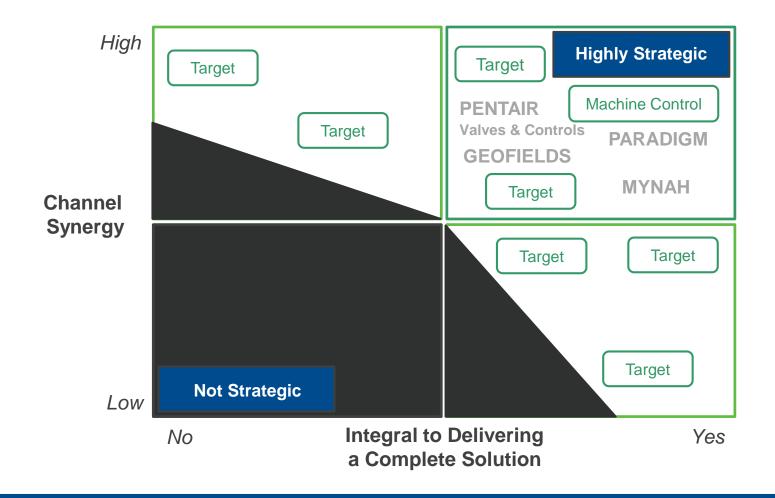
Automation Solutions Has Built a Leading Portfolio Through Organic Technology
Developments and Acquisitions Over the Last 20 Years -In Order to Develop Optimized Solutions for Customers

# Acquisitions and Partnerships Will Play a Key Role in Becoming a Complete Automation Player



Multiple Paths to Expand Offerings -- Significant Progress Since Introducing This Framework in our February 2016 & 2017 Investor Conferences -- Much More To Be Done

# Automation Solutions Has Built Our Global Franchise on Strong Technology Development and Acquisitions, and the Successful Integration of These Acquisitions



Opportunity for Acquisitions Across All Technology Layers and End Markets -A Strong Focus on Discrete and Hybrid Niches for the Next Several Years for
Internal Investments and Acquisitions

# We Are Continuously Investing and Innovating Our Products and Solutions Across All Platforms







Digital Valve Controller



**DELTAV** 



Rosemount 3051 Platform



Lifecycle Services

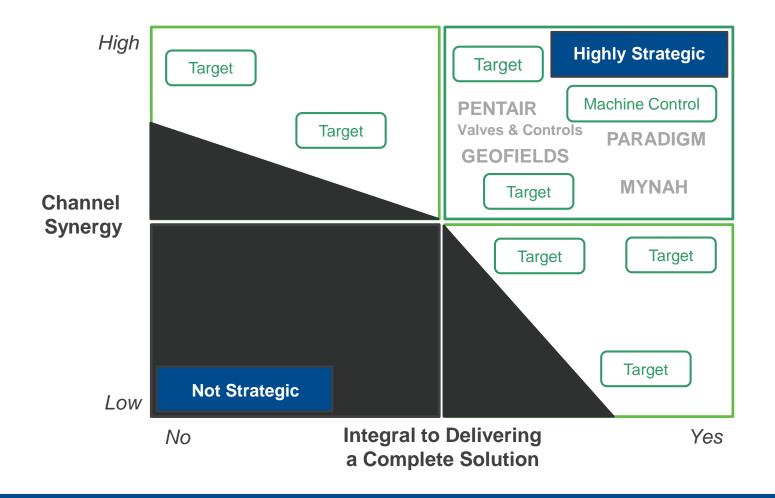
Fisher Controls
Acquired in 1992

Rosemount Acquired in 1976

FMC Blending & Transfer Systems
Acquired in 2016

We Are Providing Our Customers a Solution That Will Improve Decision Making, Avoid Health and Safety Incidents, Extend the Life of Their Critical Assets, and Enhance Operational Excellence

# Automation Solutions Has Built Our Global Franchise on Strong Technology Development and Acquisitions, and the Successful Integration of These Acquisitions



Opportunity for Acquisitions Across All Technology Layers and End Markets -A Strong Focus on Discrete and Hybrid Niches for the Next Several Years for
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# We Are Continuously Investing and Innovating Our Products and Solutions Across All Platforms



We Plan to Acquire, Invest, and Innovate in Order to Build Upon Our History as a Leader in Sensing and Control to Provide the Full Discrete / Hybrid Solution

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## **Automation Solutions Continues to Invest Across** Global Facilities in Order to Drive Innovation

#### **Systems & Solutions**

Austin, TX

Pittsburgh, PA

Manilla.

**Philippines** 

Pune, India

- Modular Control (PK)
- Web based HMI
- Simulation
- Microgrid (OCC100)
- Reliability software platform
- Emerson Export Engineering Center

#### **Flow**

Boulder, CO

Stavanger, Norway

Houston, TX

Nanjing, China

- Next generation Coriolis
- IIOT flow apps
- · Pervasive multiphase
- Ultrasonic flow technology
- Flow Technology Center



#### **Measurement & Analytical**

Shakopee, MN

 Pressure, temperature, & new sensing technologies

Next generation LED lighting

Wireless

Singapore

- New analytical instruments
- IIOT apps

#### **Final Control**

Marshalltown, IA

**Singapore** 

Houston, TX

- Additive manufacturing
- Next generation DVC & **RFID**
- Valve actuation technologies

#### **Discrete & Industrial**

Rosemont, IL

Florham Park, NJ

Louisville, KY

Industrial Applications

Fluid control

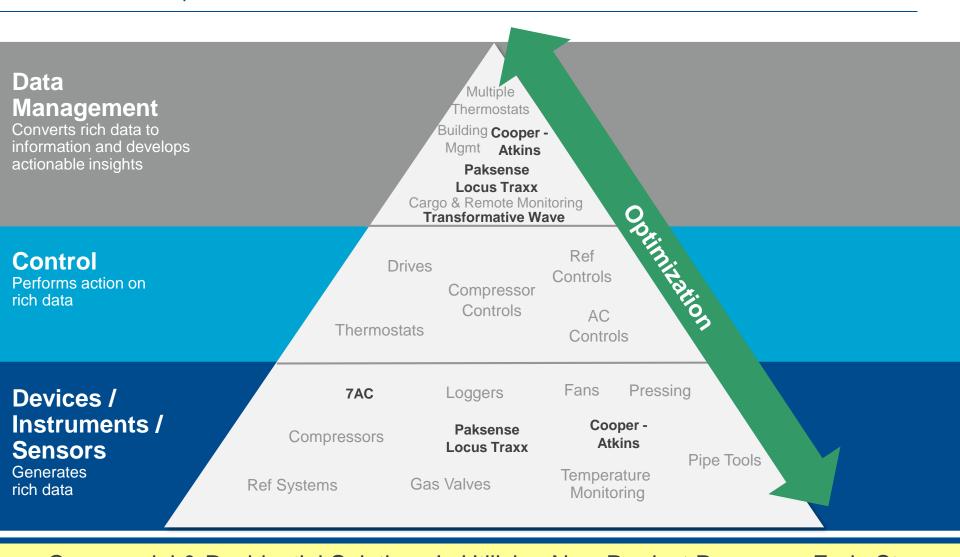
Houston, TX



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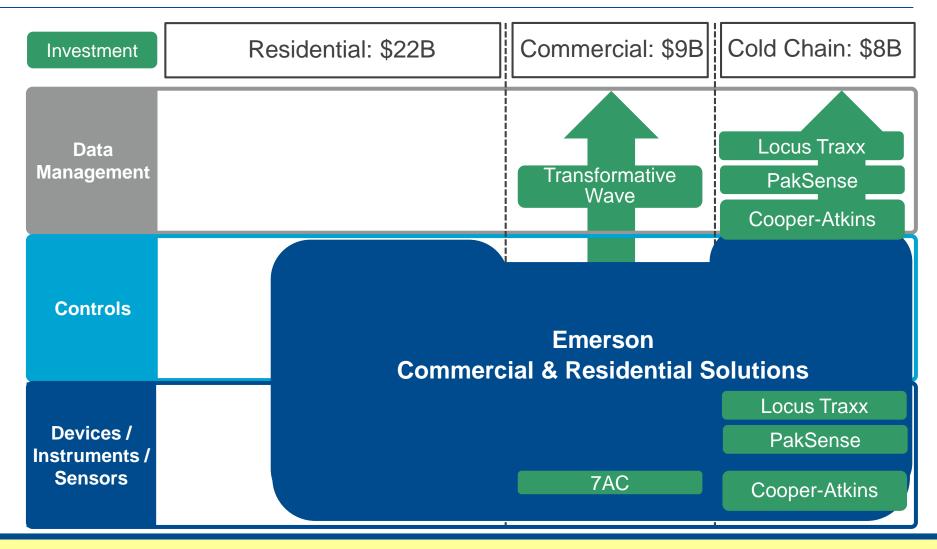
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# Commercial & Residential Solutions Are Moving Up the Technology Pyramid Utilizing Intelligent Devices, Controls, and Software Across the Platform



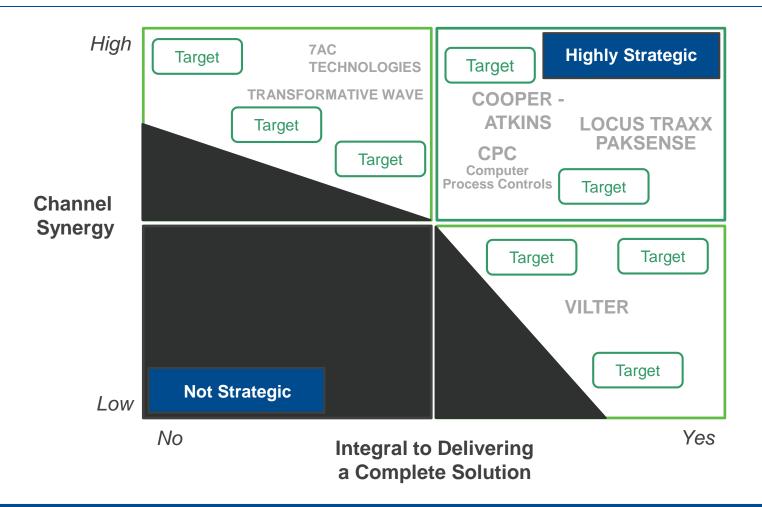
Commercial & Residential Solutions Is Utilizing New Product Programs, Early-Stage Investments, Helix Innovation, and Acquisitions to Fill Out Key Capabilities

# Acquisitions, Partnerships, and New Software Development Will Play a Key Role



Commercial & Residential Solutions Continues to Expand its Solutions Portfolio Through Acquisitions and New Internal Software and Hardware Development

### Robust Acquisition Activity in Commercial & Residential Solutions



Opportunity for Acquisitions Across All Technology Layers and End Markets, the Majority Are Smaller and New Technologies That Connect With Our Core Solution Capabilities and Broaden / Deepen Our Capabilities

### We Are Continuously Investing and Innovating Our Products and Solutions Across All Platforms









**Condensing Unit** 



**ProAct** 



and Medium

Compressor Racks



Temperature Monitoring

Copeland Acquired in 1986 Computer Process Controls (CPC) Acquired in 1996

Dixell Acquired 2009 Cooper - Atkins
Acquired 2018

We Continuously Invest and Innovate Across Our Business in Order to Provide a Solutions Offering to Our Customers

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### Commercial & Residential Solutions Continues to Invest Across Global Facilities in Order to Drive **Innovation**

#### **Cold Chain**

Dayton, OH (Helix)

Sidney, OH

Suzhou, China

Aachen, Germany

- Modular refrigeration systems
- Commercial kitchen energy management
- Integrated thermal storage
- Ammonia scroll technologies

#### **Heating & Air Conditioning**

Dayton, OH (Helix)

Sidney, OH

Suzhou, China

Aachen, Germany

- Residential indoor air quality controls
- Simple building management systems
- Compressor modulation
- Low global warming refrigerants



### **Tools & Home Products**

Racine, WI

Elyria, OH

St. Louis, MO

St. Truiden, Belgium

- · Food-load sensing in waste disposers
- RIDGIDConnect data management
- Hybrid AC/DC vacuum technologies

#### **Sensors & Controls**

St. Louis, MO

Mansfield, OH

- HVAC / IoT monitoring
- WirelessHART power meter
- High temperature smart packaged sensor

#### **Electronics & Solutions**

Atlanta, GA (Helix)

IoT cellular sensors

Belluno, Italy

Temperature sensor system

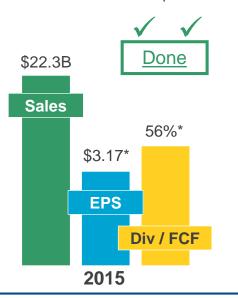
· Machine learning algorithms

# Three Phases of Our June 2015 Transformation Journey Announced After a 12 Month Internal Review



Repositioning Emerson around two key platforms

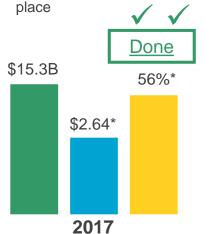
- · Executed divestitures
- Announced V&C Acquisition



#### Phase 2

Building the new Emerson core and returning to profitable sales, earnings, and cash flow growth

- · Orders have turned
- Foundation for growth in



#### Phase 3

Position the Company for the Next Generation

Accelerating core growth:

- · Strong end market growth
- Technological innovation
- · Bolt-on acquisitions

Continue to build the synergies between our two world class platforms

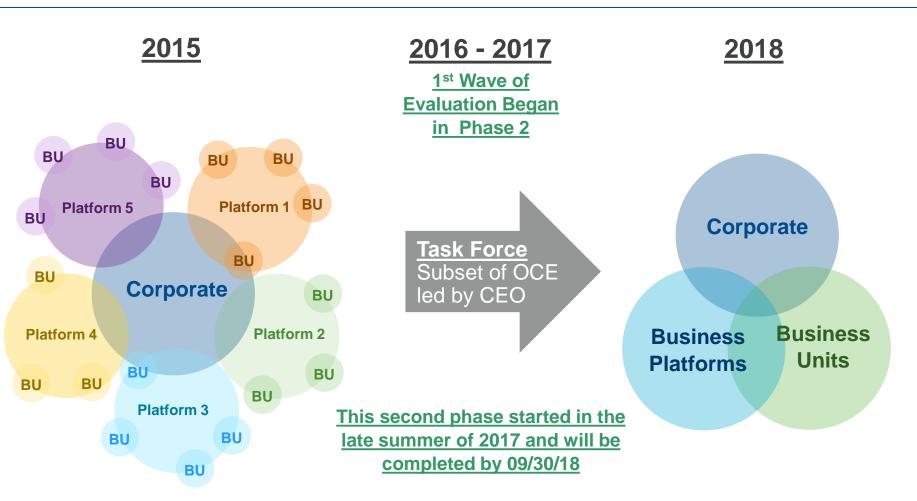
- Expand solutions to customers in common end markets
- Leverage software to create actionable insights from our data-rich technologies

We continuously evaluate our portfolio for divestitures and strategic acquisitions in both platforms

30-Jun-15 30-Sep-16 30-Sep-17 30-Sep-21

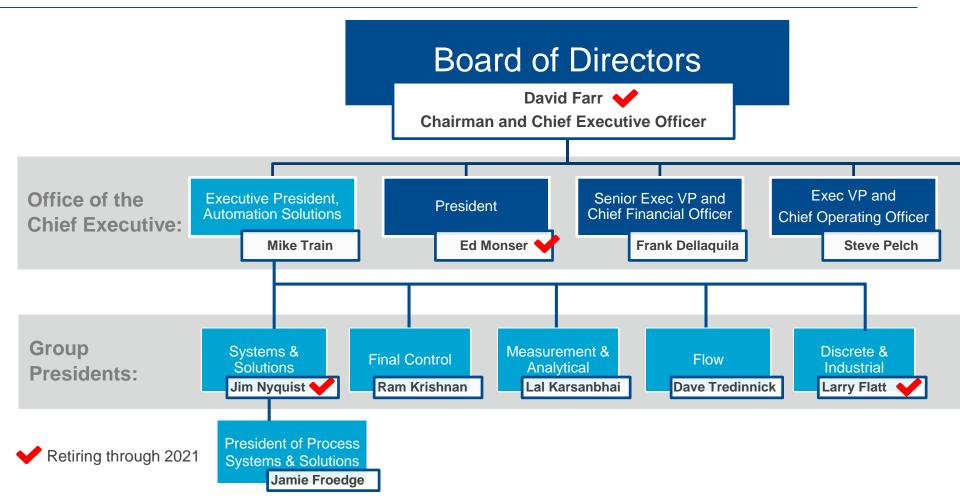
The Path Is Clear and We Are Charging Forward – The Core Company Is Strong and Has Many Value Creation Opportunities Through Organic and Acquisitive Growth

# Corporate Structure and Platform Interface: Re-evaluating the Right Touch Points



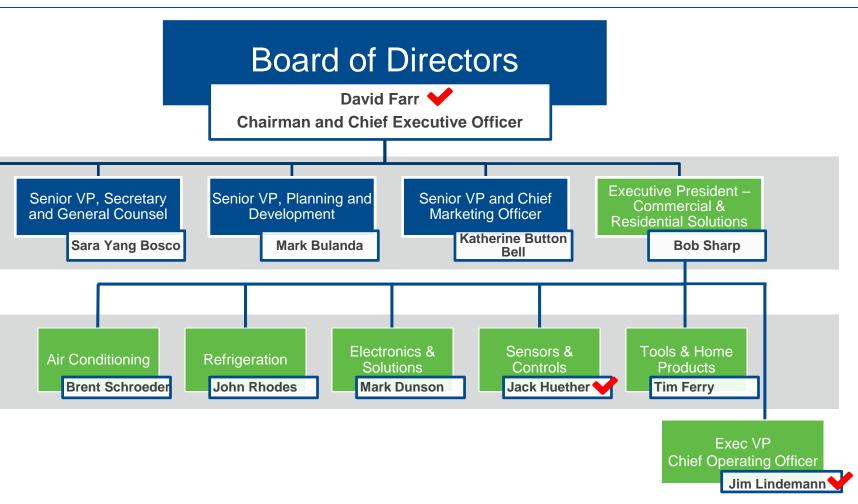
We Must Optimize the Right New Touch Points Relative to Corporate and Platforms / Business Units to Ensure Governance, Compliance, and Oversight --While Reconfirming Accountability in the Most Efficient / Cost Effective Manner,
The Right Balance Between Governance / Cost / Speed / Efficiency

# Organization Update -- Changes Will Continue to Unfold Through 2021



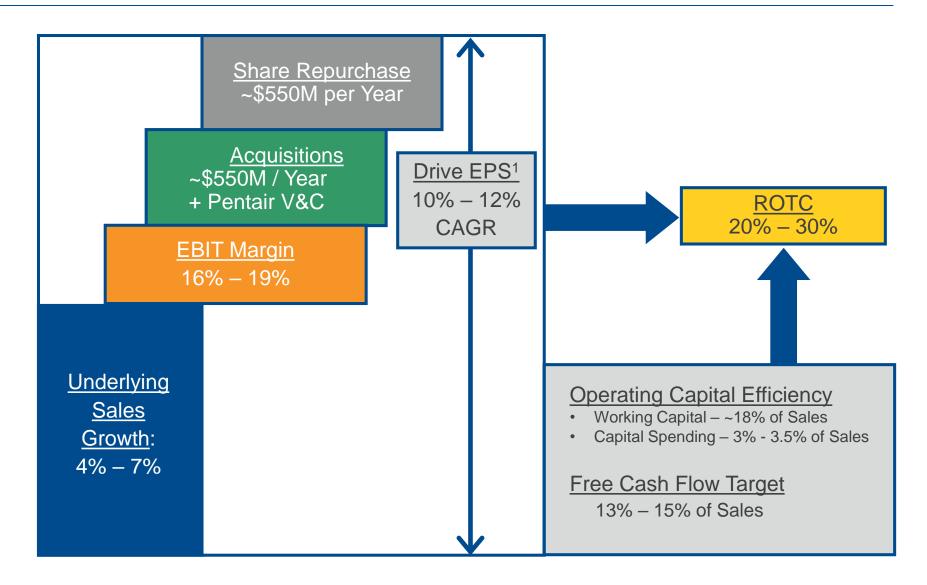
The New Organizational Structure Will Help Drive Our Transformation to a More Focused and Growth-Oriented Company... Then There Will Be an Orderly Transition to the Next Chairman and CEO

# Organization Update -- Changes Will Continue to Unfold Through 2021



The New Organizational Structure Will Help Drive Our Transformation to a More Focused and Growth-Oriented Company... Then There Will Be an Orderly Transition to the Next Chairman and CEO

# Emerson's Shareholder Value Creation Model 2016 - 2021 -- Should be a Solid Growth Period



<sup>&</sup>lt;sup>1</sup> Excludes Tax Reform impact – (with tax reform ~13%)

2016 - 2021

# 2018 Key Messages Highlighting Financial Plan Versus 2017 Investor Conference

### Economic Conditions

### Improving underlying markets -- key / critical global economies aligned for growth

- Automation Solutions is just starting the 2017 2020 growth cycle
- Commercial & Residential Solutions is 7 quarters into their growth cycle

#### Margins

- Platform margin targets unchanged for 2020 / 2021
  - Automation Solutions: ~19%
  - Commercial & Residential Solutions: ~25%

### Earnings per Share

- Impact to 2021:
  - ~\$0.30 increase from operational improvements and share repurchase
  - ~\$0.35 increase from tax reform

### Operating Cash Flow

- Impact to 2021:
  - ~\$0.3B increase from operational improvements
  - ~\$0.2B increase from tax reform

#### Acquisitions

 Plan unchanged, significant capacity for more if strategic assets become available -- <u>Currently evaluating adding \$4B of additional spend for</u> acquisitions and share repurchase

### Capital Expenditures

Average of ~3.3% - 3.5% of sales through 2021 -- slightly increased

### Share Repurchases

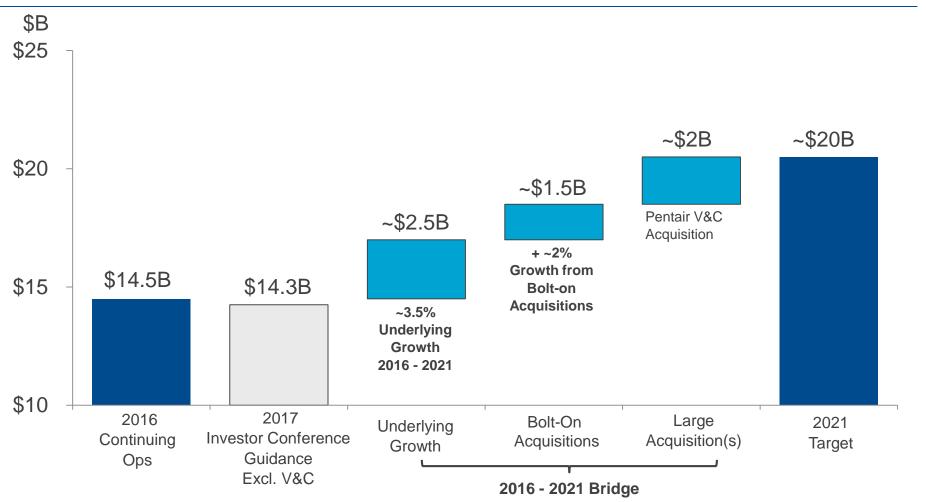
 ~\$600M increase to plan through 2021 and front end loaded --- However, capital allocation plans / strategy will be re-evaluated in 2018 under new tax reform

#### **Dividends**

 Plan to increase dividend versus current pace in 2020, but sooner if we get back to 45% free cash flow coverage by 2019

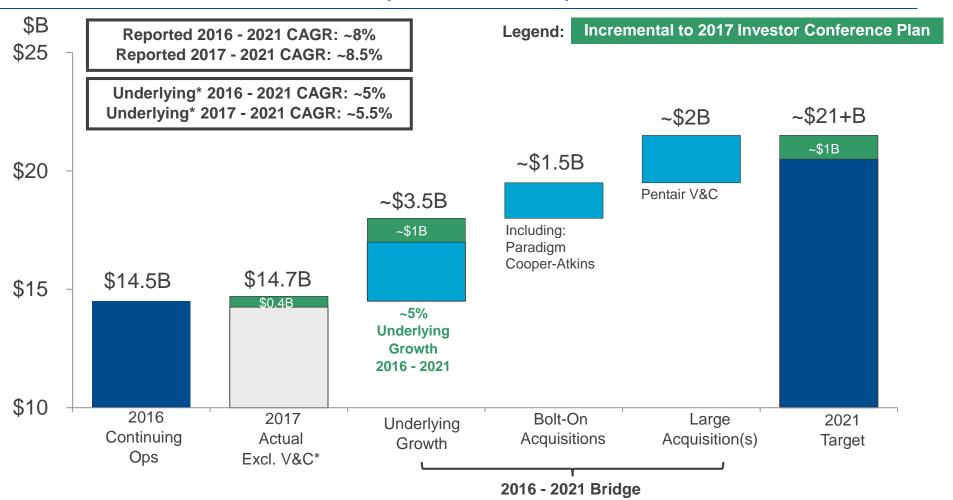
February 16, 2017

### 2016 Bridge to 2021T Sales Guidance from 2017 Investor Conference (New York, NY)



The Repositioned Emerson Has Solid Internal Growth Opportunities Along With Smaller Bolt-On Acquisitions and Potential Larger Strategic Acquisitions (\$3B - \$5B Size)

### 2016 Bridge to 2021T Sales 2018 Investor Conference (New York, NY)

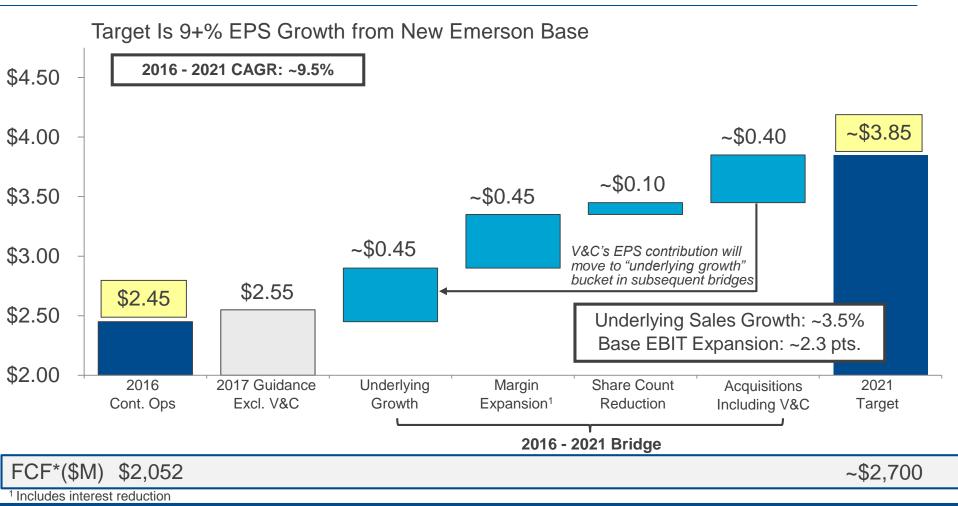


2017 Underlying Sales\* Were Stronger by \$0.4B and Now With Better Global Growth and Both Businesses Growing, We Raised 2016 - 2021 Core Sales Growth by \$1B --- No Changes to Bolt-on Acquisitions or V&C Sales Plans

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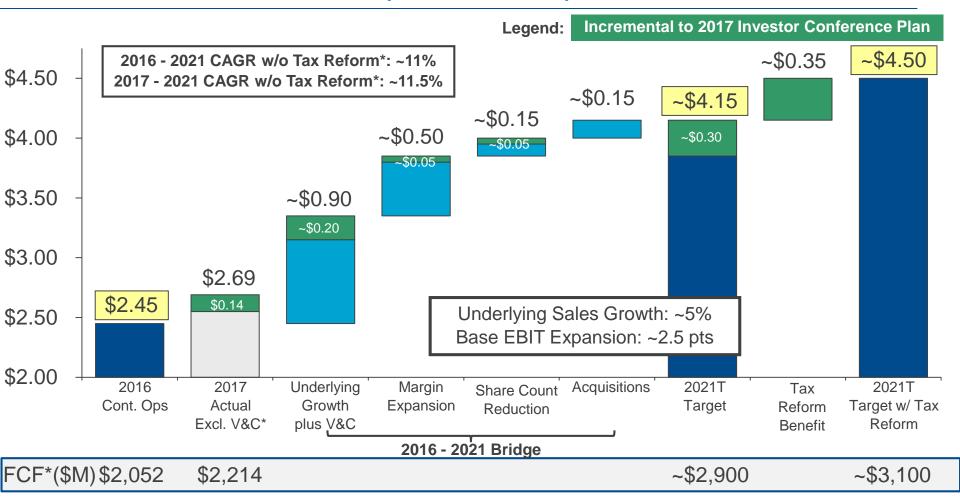
February 16, 2017

### 2016 Bridge to 2021T EPS Guidance from 2017 Investor Conference (New York, NY)



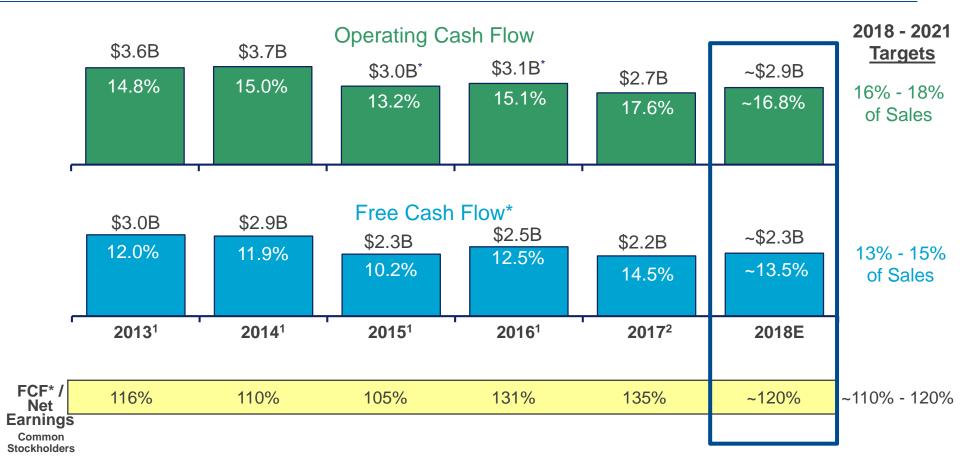
The Goal of the Repositioned / Refocused Emerson Is to Grow Faster, Expand EBIT Margins, and Increase Acquisitions to Drive a Faster EPS Growth Company

### 2016 Bridge to 2021T EPS **2018 Investor Conference (New York, NY)**



The Faster Core Underlying Sales Growth, the Success of the Valves & Controls Integration, the Slightly Higher Share Repurchase, and the Tax Reform Benefit Drives a \$4.50 EPS by 2021 --- 13% EPS CAGR

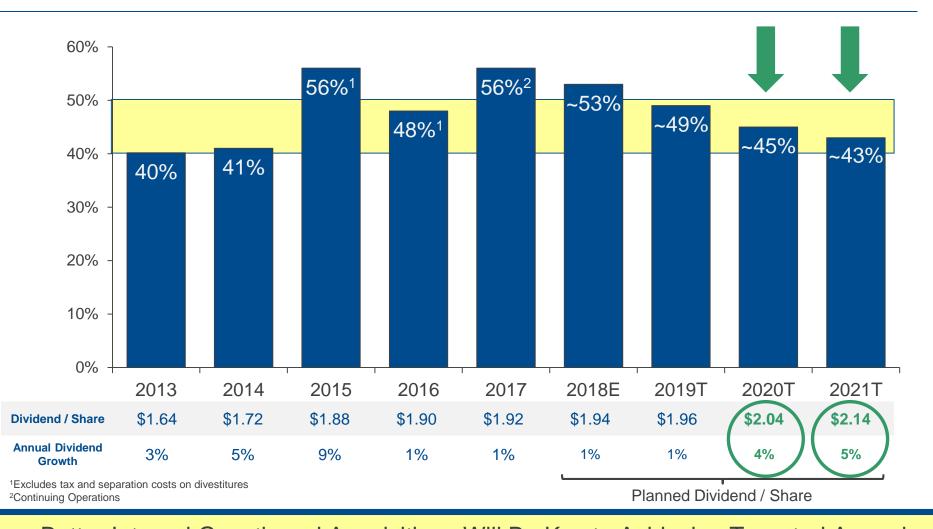
### Operating Capital Efficiency Drives Significantly Higher Cash Flow and Returns for Shareholders



<sup>1</sup>Excludes impact of repositioning items in 2015 and 2016, divestiture gains in 2015, and impairments in 2013 through 2014\* <sup>2</sup>Continuing Ops

A Strong Legacy of Cash Flow Generation Sets the Foundation for Future Operating Cashflow Growth and Continued Strong Pay Out to Shareholders: 50% - 60% of Operating Cash Flow

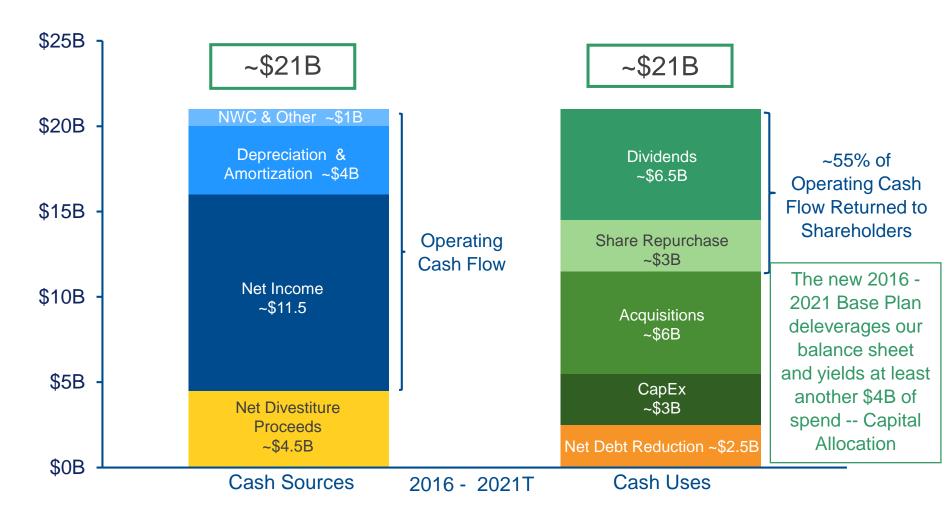
### Emerson Planned 2018 - 2021 Dividend to Free Cash Flow\* Ratio



Better Internal Growth and Acquisitions Will Be Key to Achieving Targeted Annual Dividend to Free Cash Flow of 40% - 50% in 2019 -- Reaching 65 Years of Continuous Dividend / Share Increases for Emerson Shareholders in 2021



# Sources and Uses of Cash: ~\$21B of Capital Being Deployed Through 2021

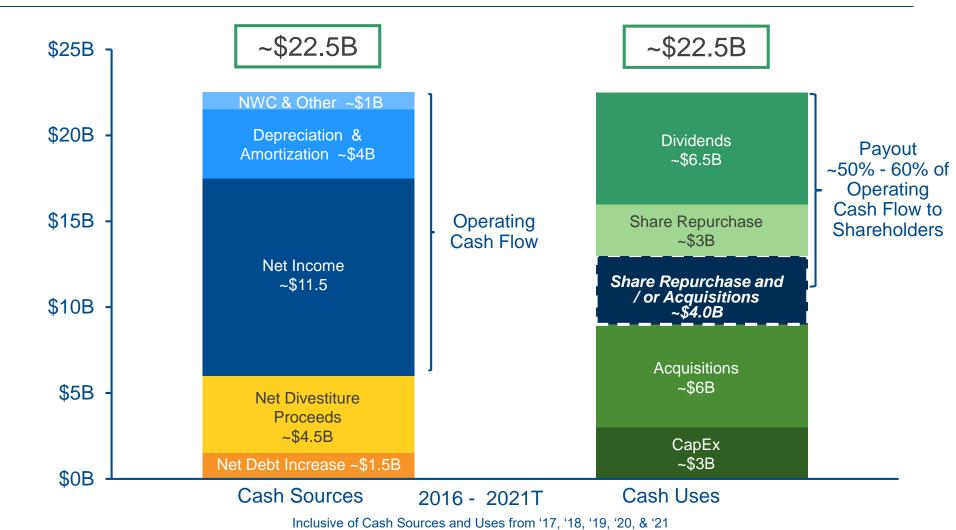


Inclusive of Cash Sources and Uses from '17, '18, '19, '20, & '21

Capital Allocation Decisions Are Critical to Increase Long-Term Shareholder Value -- We Have Continuously Planned to Return ~50% - 60% of Cash Flow to Shareholders<sub>53</sub>



# Emerson Has the Capacity To Add \$4.0B for Acquisitions and Share Repurchase



The Upside Case Leverages Our Strong Balance Sheet by Adding \$4B of Incremental Debt To Be Spent on Acquisitions and Share Repurchases -- We Are Evaluating a New Capital Allocation Plan That Could Begin in 2019

# Fiscal 2018 Key Focus Areas -- 2018 Investor Conference

### **Key 2018 Take Aways**

- Achieve premium underlying sales\* growth for all of Emerson: 5% 7%
- Drive strong earnings momentum within GAAP EPS by reaching \$3.05 \$3.15 EPS in 2018 -- ~20% GAAP EPS growth
- Deliver another strong year of operating cash flow -- \$2.9+B -- 17% of sales
- Expected dividend per share increase of 2¢
- 1. Grow Underlying Sales\* in Both Platforms: 5% 7%
- Deliver positive underlying sales\* growth within both platforms -- 5 7% EMR growth
- Return Automation Solutions to above market underlying\* growth: 6% 8% in 2018
- Continue strong, above market underlying\* growth within Commercial & Residential Solutions -- 3<sup>rd</sup> year. Targeting another premium underlying \*sales growth year: 4% -6% in 2018
- 2. Continue Margin
  Expansion and Drive
  V&C Operating
  Margins\* to 10%+ by
  2nd half of 2018
- Strong profit margin performance within both platforms is important to return to Emerson consolidated margin improvement -- Especially within Automation Solutions --Must leverage profitability at ~ 35% as sales growth returns and absorbs V&C lower margins
- Successfully integrate V&C acquisition and expand margins to deliver Automation Solutions leverage goals fiscal 2018 earnings / cash flow accretive
- 3. Grow Operating and Free Cash Flow to Fund Growth and Shareholder Returns
- Continued focus on cash flow management as Emerson returns to growth by generating \$2.9+B in operating cash flow
- Invest \$575M of capital, enhanced by new Tax Reform
- Maintain FCF / Net Income Conversion\* ~120%

2018 Will Be an Exciting Year -- It Is an Opportunity for Both Focused Platforms Within Our Organization to Grow While Maintaining a Strong Focus on Margins and Cash Conversion -- A Strong Demonstration of Emerson's New Focused 2 Platform Strategy

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### 2017 – 2021 -- Financial Forecast

GAAP	2017	2018E	2021T	2021T Upside Case with additional ~\$4B spend at 50% Share Repurchase, 50% Acquisitions
Sales	\$15.3	\$17.0 - \$17.3	~\$21+B	~\$22+B <b>√</b>
Gross Margin	42.0%	~43.1%	~44%	
EBIT Margin*	16.4%	~16.7%	~19%	~18% 🗸
<b>EPS Reported Continuing Ops</b>	\$2.54	\$3.05 - \$3.15	~\$4.50	~\$4.70 🗸
Operating Cash Flow Continuing Ops	\$2.7B	~\$2.9B	~\$3.8B	~\$3.9B
СарЕх	\$476M	~\$575M	~\$675M	
% of Sales	3.1%	~3.4%	~3.2%	
Balance Sheet Leverage Ratios				
Operating Cash Flow / Total Debt	58%	~65%	~85%	~50%
Total Debt / EBITDA	1.5x	~1.2x	~0.9x	~1.5X

Note: 2018 Includes 10 months Paradigm, 9 months Cooper Atkins

By 2021, We Plan to Reach ~44% GP Margin, ~19% EBIT\* Margin, and ~\$3.8B Operating Cash Flow for Increased Internal / Acquisition Investment to Drive Sales to ~\$21+B and EPS to ~\$4.50





### 2018 Investor Conference Automation Solutions Business Overview

Mike Train
Executive President
February 15, 2018



### 2018 Investor Conference Automation Solutions Business Overview

Mike Train
Executive President
February 15, 2018



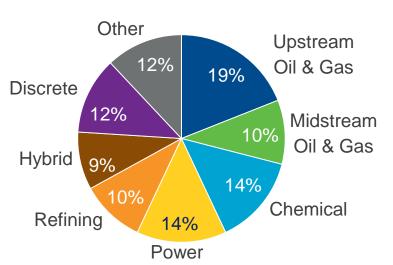
### Automation Solutions Key Messages

- Automation Solutions performed very well in 2017 with strong margin growth in the base business and strategic portfolio expansion with Valves & Controls
- Our \$204B automation market is growing with a rebound in Process and continued investment in Hybrid and Discrete industries
- Automation continues to grow in scope and relevance as customers look to improve performance and overcome strategic challenges
- Emerson is uniquely positioned to lead the growth of automation and IIoT leveraging our complete technology portfolio, industry expertise and customer engagement strategies
- We will continue to focus acquisitions on elevating our position in Process and Hybrid, while diversifying within specific Discrete industries

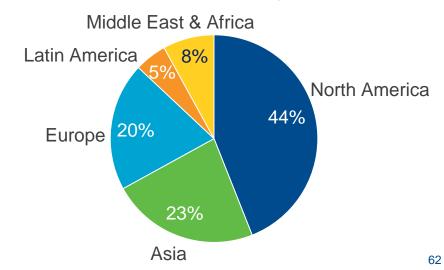
# Automation Solutions 2017 Summary

	<u>2016</u>	<u>2017</u>	2016 – 2017 <u>Change</u>	2016 – 2017 <u>Change</u> Underlying Excl. V&C*
Sales (GAAP)	\$9.0B	\$9.4B	5%	(1%)
EBIT	\$1.5B	\$1.5B	5%	7%
% of Sales	16.2%	16.2%	0 bps	150 bps
ROTC	17%	14%		

### **2017 Major Markets Served**



### **2017 Sales by Geography**



### Emerson's Strength Is Our Technology, People, and Ability to Create Value for Our Customers

Management Data



Reservoir Modeling



**Operations** & Alarm Management



Advanced **Process** Control



Planning & Scheduling



**Plant Asset** Management



Control **Engineering** 



Training & **Simulation** 



Real-time **Optimization** 



**Energy** Management



**Asset Integrity** Management

**ENGINEERING** & DESIGN

**CONTROL SOFTWARE** 

**PRODUCTION MANAGEMENT**  ASSET RELIABILITY & PERFORMANCE



Field Devices









**CONTROL SYSTEMS** 

**WELLHEAD CONTROL** 

**SAFETY SYSTEMS** 

**MACHINERY HEALTH** 









ANALYTICAL



PNEUMATICS & **SOLENOIDS** 







**FINAL** CONTROL

**VALVES & CONTROLS** 

### Emerson's Strength Is Our Technology, People, and Ability to Create Value for Our Customers

### World-class People and Expertise

53,500<sup>1</sup> **Automation Solutions Employees** 3.000+11,000+ Salespeople **Engineering &** Development 5,000+100± **Project Services Industry Consultants** Personnel 200+ 3,700+Lifecycle Services **Service Centers Professionals** 

### **Solutions Enabling Top Quartile Performance**



### **Project Certainty**

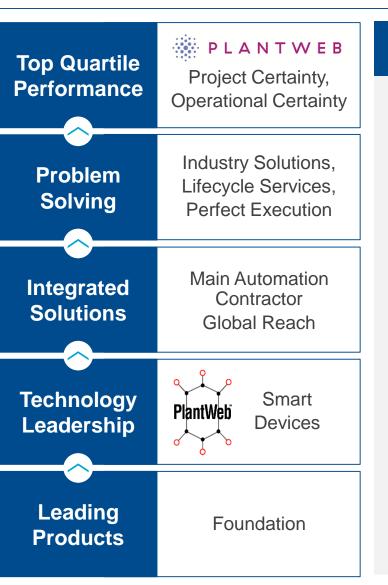
Enable customers to eliminate cost, reduce complexity, and accommodate late changes on capital projects.

### **Operational Certainty**

Help customers optimize production, improve reliability, minimize emissions, and ensure safety.

<sup>1</sup>Headcount at 9/30/17, inclusive of V&C acquisition

# Have Consistently Outperformed Market and Delivered Transformative Solutions and Approaches





### Emerson Is a Recognized Leader Across the Total Automation Spectrum

~\$40B ~\$20B ~\$140B **Devices Control** Data **Participation Mgmt** #2 in #1 in #1 in Integrated #1 in #1 in Flow Measurement Control and **Final Control** Plant Solutions & Analytical Safety Asset **Systems** Mgmt Emerson Participation: 6% 5% 2%



#### **#1 in 28 Field Device Categories**

Pressure
Temperature
Level
Coriolis Flow
Ultrasonic Flow
Magnetic Flow
Vortex Flow

Control Valves
On/Off Valves
Valve Actuators
Liquid Analyzers
Gas Analyzers

# #1 Continuous #1 Chemicals #1 Power #1 Oil & Gas #1 Life Sciences #1 Batch #1 Chemicals #1 Refining

#1 Life Sciences

#### Software

#1 Advanced Process Control

#1 Asset Management Software

#1 Loop-Tuning

#1 Simulation

### Emerson Is the Innovation Leader in Control, and We Continue to Grow Our Presence

### **Process Control Systems Evolution**

	1992- 2000	2001- 2009	2010- 2015	2016
Technology	Provox, RS3, WDPF	DeltaV, Ovation	DeltaV CHARMs, Ovation	
DCS Participation <sup>1</sup>	5%	9%	12%	15%

"Emerson... overturns 35 years of industry thinking of I/O"

Industrial Automation Insider - Oct 2009

### **Control Systems for World's Power**

- 1,300 Gigawatts globally, ~20% of the world
- Over 68% of 600MW and 1,000 MW Ultra-supercritical units in China

70%

of new systems expand our global presence

**45% Greenfield projects** 

25% Displacing competition

30% Modernizing Emerson systems

Since 2000, we have replaced >3,200 competitive systems

# 2018 Will Include Emerson's Biggest Control Platform Technology Launches Ever

#### DeltaV v14

#### **PK Controller**



Powerful Standalone Easily Integrated

#### lloT



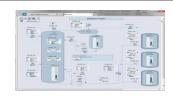
Distributed CHARMs

Communications



Saves Millions on Cabling

#### **DeltaV Live**



First Native HTML5 interface in the World

#### **Cybersecurity**



ISASecure SSA Level 1 Certification

### Smart Commissioning



From 140 min. to 25 min. per device

#### **Mobile**



Know the health of operations anywhere

#### **Simulation**



**Operations Confidence** 

#### DeltaV Discovery



Common platform research to production

#### Ovation 3.7

### New Data Management Capabilities Built-in

- Integrated Machinery Health Monitoring
- Synchronized predictive simulation

### **Extending Industry Leading Controls**

- Ovation Compact Controller
- Integrated
   Generator
   Excitation Control





#### **Flow Computers**



Next Generation Flow Computer, Remote Terminal Unit, and SCADA for Oil & Gas Control and Optimization This Slide Intentionally Omitted

This Slide Intentionally Omitted

# Process Industries Rebounding in 2018 with Strong Growth Dynamics Going Forward

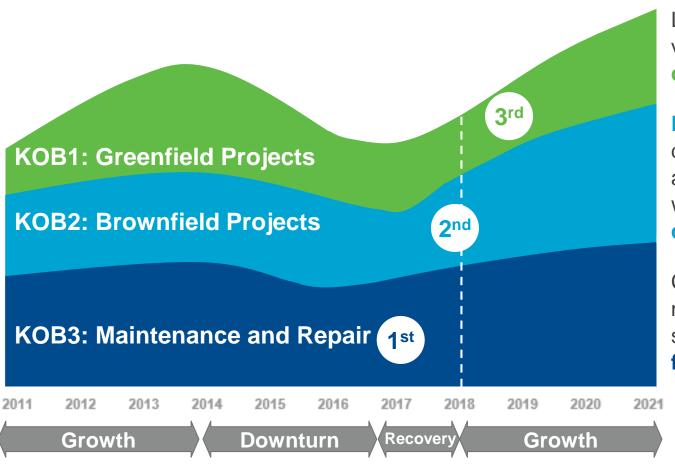
Process Industries	2018 Outlook	2018-21 Outlook	Key Investment Trends:
Oil & Gas – Upstream			NA shale recovery continues; strong project activity in MEA
Oil & Gas – Midstream	1	1	LNG and increasing globalization of natural gas; pipeline buildout in emerging markets
Refining			Global increase in coking units led by China; India to double refining capacity
Chemical & Petrochemical			U.S. investment to continue in 18; China to double ethylene over next 5 years
Power	$\sim$		Coal & renewable investment in China and India; gas conversions and new builds in NA
Process Total	1	1	

### Hybrid and Discrete Industries Continue To Be Attractive for Growth and Diversification

Hybrid Industries	2018 Outlook	2018-21 Outlook	Key Investment Trends:
Life Sciences	1	1	Increased innovation spend in NA and EUR; medicines in emerging markets
Food & Beverage		1	Global increase in operational improvement and food safety spend
Metals & Mining			Gold and copper recovery spurring project spend in LA and AP
Pulp & Paper			Investment to upgrade assets in pulp; strong packaging demand in AP
Hybrid Total			
Discrete Industries	2018 Outlook	2018-21 Outlook	Key Investment Trends:
Industrial Machinery			Industry 4.0 increasing automation spend in manufacturing
Automotive			Electric vehicle manufacturing capacity globally; Emerging Markets
Packaging			Investment in U.S.; automation of manual process in emerging markets
Discrete Total			

# Accelerated Recovery Period Has Emerson Strongly Positioned to Capture Broad Growth Globally

#### **Automation Solutions Market by Type of Business**



Large project funnel visibility has more than doubled since Feb. 2017

First priority spend is driving smaller expansion and optimization projects with faster payback for customers

Customers are looking for new, and more lifecycle services driving **improved foundational growth** 

Note: Chart is illustrative

## Lifecycle Management Initiatives Are Driving Growth in Our KOB3 Business

Executed >5,000 customer site walk downs in 2017 to identify opportunities in our installed base and drive new services

+\$350M, 9% YoY Growth

## Shutdowns, Turnarounds, & Outages

Managing & executing plant turnarounds

\$75M YoY Growth

#### **Connected Services**

IloT-enabled services on connected devices

190+
Active
Contracts



#### **Long-term Service Agreements**

Partnership agreements across all service levels to support customer operations

1800+ Customer Contracts

Product Outcome

Advanced Lifecycle Management programs build greater customer intimacy and drive new demand

Advanced services
will help drive
>\$2B KOB3 total
growth by 2021

## Launched Plantweb and Introduced Operational Certainty Consulting to Drive KOB2 Growth



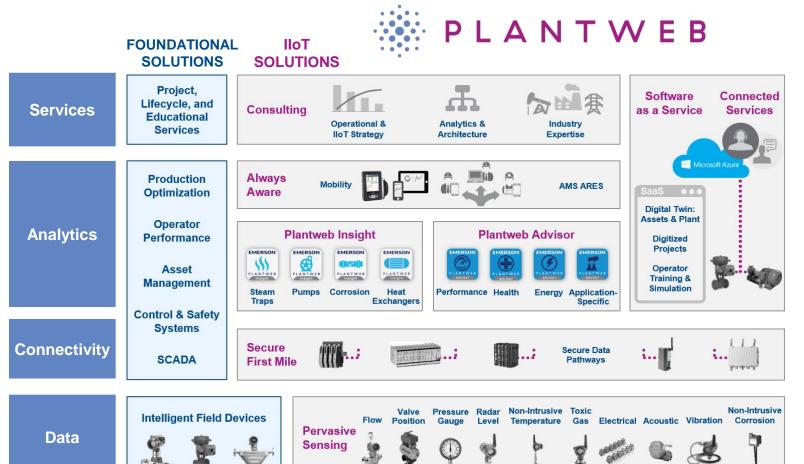


### **Mapped Pains to Solutions**

- Identified high impact applications
- Prioritized solution opportunities

- Plantweb and Top Quartile launch events
  - 8000+ customers reached in 30+ countries
- Top Quartile workshops
  - Link digital strategy to business objectives
  - Incorporate deep domain expertise
  - Identify highest impact opportunities
  - Provide pragmatic business case for investment

## Plantweb Digital Ecosystem: Recognized as Industry's Most Complete and Integrated IIoT Solution



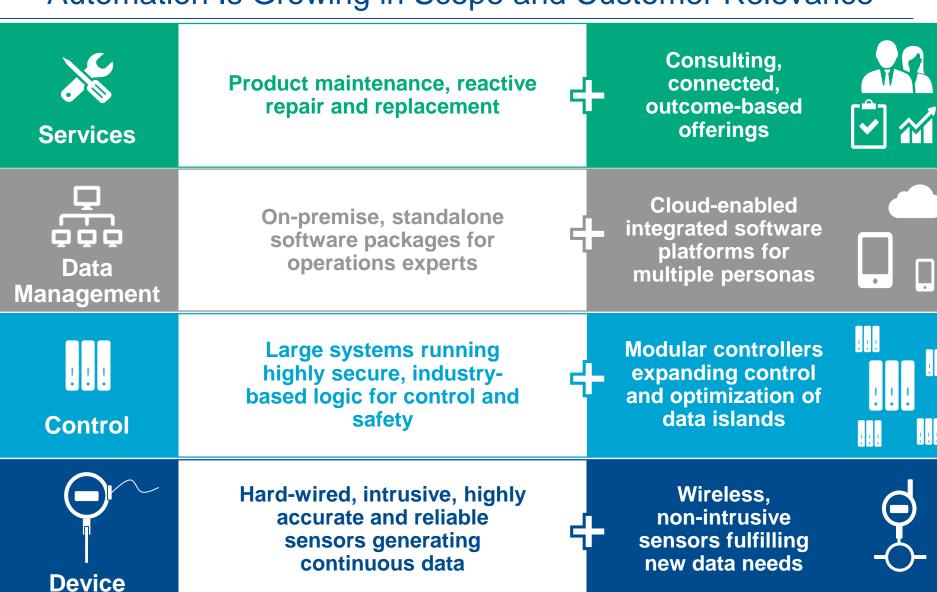








## Automation Is Growing in Scope and Customer Relevance



# Emerson Is Leading the World in New Innovations That Help Customers Transform Their Projects and Operations

Virtual Project & Consulting Services



#### **Connected Services**

for remote asset monitoring

Growing ecosystem of Plantweb applications





Simulation and synchronization: Digital Twins







Modular Controllers





SCADA,
Flow Computers
and RTUs with
Edge Applications
for Oil & Gas

32,000 Networks 146 countries >10B operating hours



**Expanding portfolio of non-intrusive sensors** 



## Emerson's Capabilities Span the Full Oil & Gas Value Chain



### **Upstream**

## Midstream

### **Downstream**

Exploration

Development & Production

Transportation & Trade

Refining, Processing, Blending & Distribution





## Maximize asset utilization due to low oil prices

- Production Optimization
- Structural Cost Reductions



## Aging infrastructure and expertise

- Leak Detection
- Digitization of Operations



## Increased importance of asset integrity

- Corrosion Detection
- Predictive Maintenance

## Transforming Upstream Oil & Gas From Reservoir to Well Pad





Subsurface Modeling & Simulation

**Subsurface Knowledge** 









#### **Production Automation**

Top-side Production & Equipment Data

**Operational Intelligence** 







Enables dynamic optimization of new and existing reservoirs



## Multiphase Flowmeter



### **Well Pad of Today**



### \$9B Midstream Installed Base

## **Digitizing Midstream Operations**

Pipeline Asset Data Scheduling, operations, and commercial management

Pipeline Integrity, risk analysis, and visualization



Real-time pipeline integrity insight and optimization



**Pipeline Automation** 



ESI



GeoFields

SCADA, Flow Computers, and RTUs, enable greater fleet management and optimization for operators in the field -- deliver key requirements for digitizing operations









**Guided Workflows** 







Simple Configuration Verification

## Expanding High Value Solutions Portfolio at **Every Level for Downstream Facilities**

\$25B Downstream **Installed Base** 

Digitally-empowered turnaround services enable shorter shutdowns, faster startup, and improved **confidence** in operations



Mynah & ProSys acquisitions and AspenTech alliance add new integrated software solutions







**Advanced Control** & Optimization

### **DeltaV V14 extends control and IIoT leadership**

- Cybersecurity
   Integration by Design
  - Mobility Modularity

- Virtualization
- Efficiency





#### **Non-Intrusive Wireless Corrosion Monitoring**

Corrosion is the **industry's #1 maintenance problem** 

- Easily deploy corrosion monitoring anywhere
- **Automate manual, intrusive inspections** with real-time data

# M&A Valves SYSS Industrial

# Leveraging Our Leadership in Power Generation to Help Customers Evolve in This New Market

### Traditional Generation Microgrids Distributed Generation





Renewable Generation adds new demand for control and challenges traditional generators



Reliability, Flexibility, and Performance



Focus on Security due to increased prevalence of malware and hacker attacks

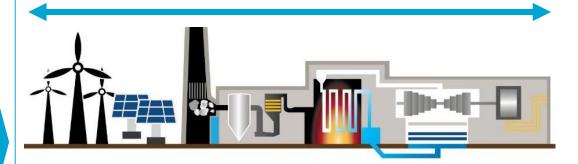
- Compliance and incident response services
- Certified technologies

# Extending Reach of Control and Digital Services for the Power Industry



Emerson offers complete **Cybersecurity services** supported by **Qualified Anti-Terrorism Technology** (QATT) designated by US Department of Homeland Security

New Ovation Compact Controller **extends control** to new applications in plant and beyond



High fidelity embedded simulation for complete plant optimization



New Final Control capabilities extend connected services and predictive maintenance strategies to every valve in a plant

Digital Walk Down



Connected Services



Mobile Service Center



## Helping Life Sciences Customers Stay Ahead of New Market Trends



#### **Development Drug Substance Drug Product Process Development** Secondary **Primary Packaging** & Clinical **BIOREACTOR** QUALITY **PURIFICATION** CONTROL **SAMPLING** QUALITY CONTROL **TRANSFERS BUFFER MEDIA FILLING ENCAPSULATION PROCESS** DISPENSING **PACKAGING DEVELOPMENT**



Time to market pressure in biosimilars and generics

► Technology Transfer



Demand for smaller batches and modular production

Single-Use Processing & Instrumentation



Growing number and complexity of regulations

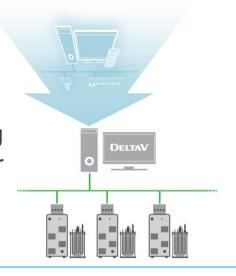
Regulatory Approval & Traceability

# Delivering Innovative Sensors, Connected Controllers, and Consulting Services

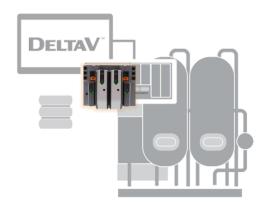


Full Life Science operations consulting services to ensure Operational Excellence and expedite FDA validation

DeltaV Discovery
connects R&D to
production, speeding
up technology transfer
and manufacturing
scale up



PK Controller connects modular operations for advanced control



### **Growing World-Class Hygienic Portfolio**

Expanding hygienic instrument portfolio and launching new line of **single-use sensors for next-gen biologics** manufacturing

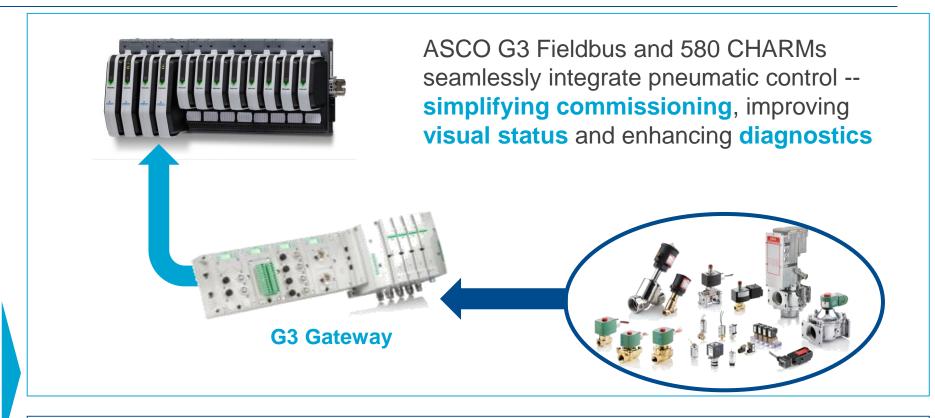


# Helping Packaging Customers Increase Speed and Systems Integration

Logistics **Processing Packaging** Increased risk due to **Excess waste impacting** speed of operations production costs Real-Time Insights Precise filling Faster restarts Effective sealing

### \$17B Discrete Installed Base

## Discrete Innovations Extend Our Portfolio of Intelligent Devices and Controls



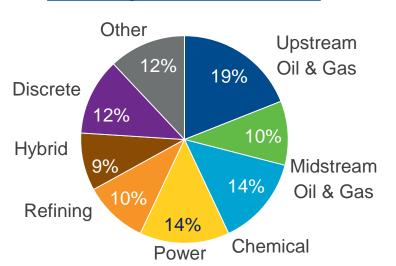


Quantum Cascade Laser quickly detects leaks and rejects products with 100% accuracy at 600 packages per minute, 3x faster than previous solutions

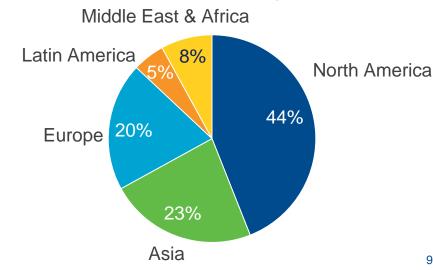
## Automation Solutions 2017 Summary & 2018 Guidance

	<u>2016</u>	<u>2017</u>	<u>2018E</u>
Sales (GAAP) Underlying*	\$9.0B	\$9.4B	18 – 20% 6 – 8%
EBIT	\$1.5B	\$1.5B	
% of Sales	16.2%	16.2%	16-17%
ROTC	17%	14%	

#### **2017 Major Markets Served**



#### **2017 Sales by Geography**







## 2018 Investor Conference Final Control and V&C Integration Update

**Ed Monser** 

**President** 

February 15, 2018



## 2018 Investor Conference Final Control and V&C Integration Update

**Ed Monser** 

**President** 

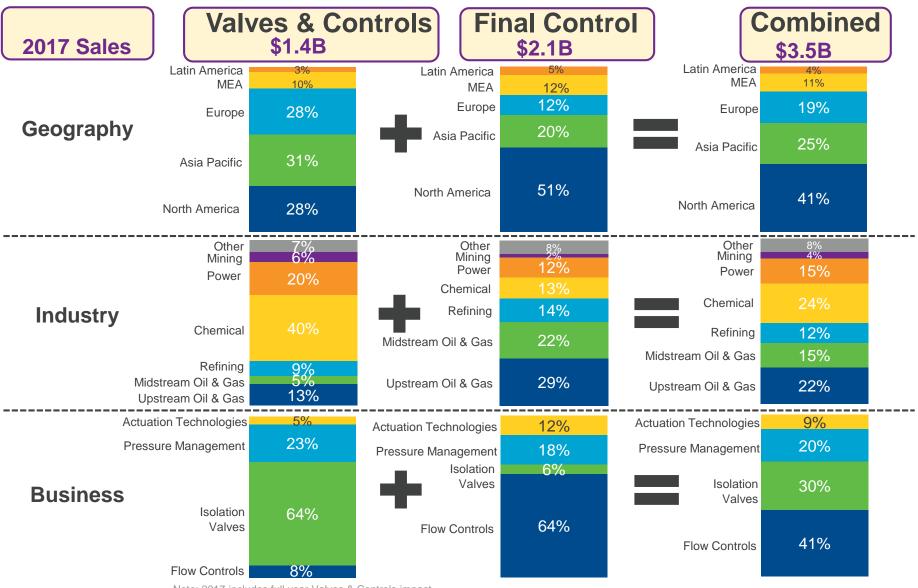
February 15, 2018



## Final Control -- Key Messages

- Acquisition of Valves & Controls <u>transforms Final Control</u> into the biggest / broadest solutions provider and <u>strengthens Automation Solutions</u>
- Integration activities progressing to plan and building <u>strong momentum</u>
- Focused, early concentration on <u>customer engagement</u> resulting in accelerating order activity with many 'combined portfolio' wins
- Transitions to the <u>Single Integrated Channel</u> have been timely and seamless
- Manufacturing facility consolidation and restructuring programs underway, targeting 10 plant closures by the end of 2018
- \$17+M of negotiated supply chain savings finalized in the first 180 days
- <u>Product rationalization</u> and positioning direction has been set; execution of the plan is underway -- excellent progress
- Operating Model Transformation (OMT) realignment completed in February 2018 -- 2<sup>nd</sup> quarter will be key

# Portfolio and Market Diversification With Valves & Controls Strengthens our Global Presence



# The New Final Control Business Has a Significant Global Footprint --- Best in the Industry...

#### **North America**

\$1.4B 2017 Sales

66 Service Locations

5,300 Employees

**11** Manufacturing Locations

#### Europe

**\$0.7B** 2017 Sales

23 Service Locations

5,000 Employees

**18** Manufacturing Locations

#### **Asia Pacific**

**\$0.9B** 2017 Sales

**40** Service Locations

5,500 Employees

**24** Manufacturing Locations

#### **Latin America**

**\$0.2B** 2017 Sales

6 Service Locations

**400** Employees

4 Manufacturing Locations

#### Middle East & Africa

**\$0.3B** 2017 Sales

14 Service Locations

1,100 Employees

**4** Manufacturing Locations

### Global

**\$3.5B**\* 2017 Sales

~150 Service Locations

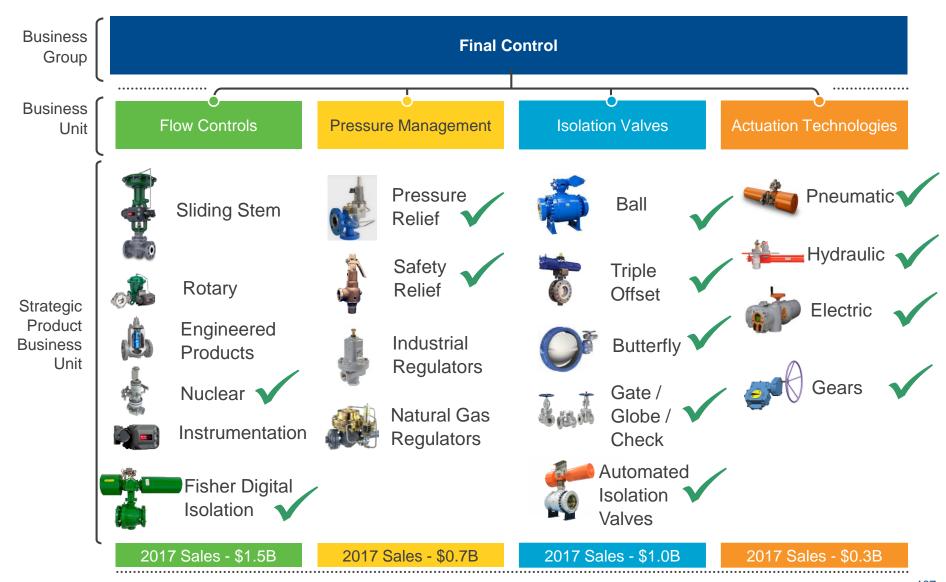
~17,300 *Employees* 

**61** *Manufacturing Locations* 

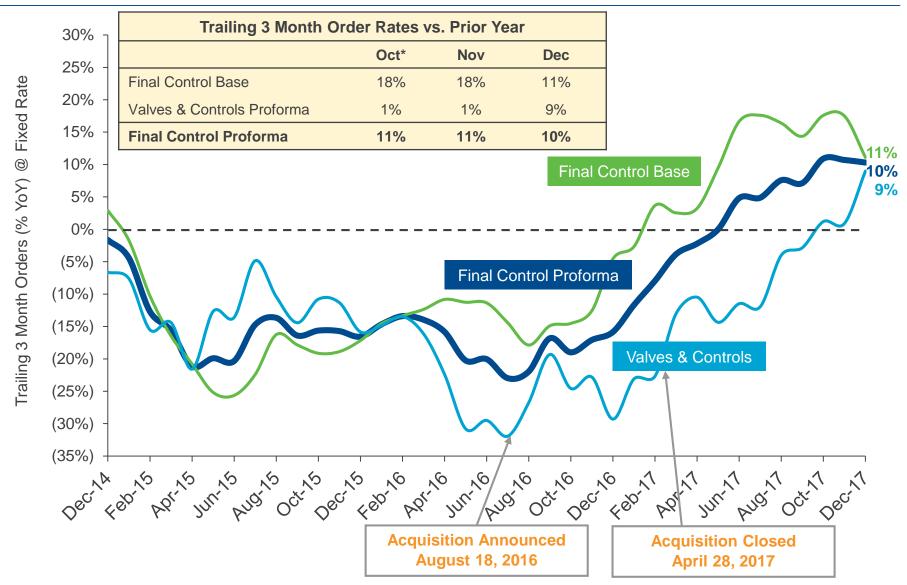
\*2017 V&C sales included on a pro forma basis

# New Final Control Business Group Management Structure





# Focused and Early Concentration on Customer Engagement Resulting in Accelerating Order Activity



# Key Growth Programs Will Drive \$200M in Incremental Growth by 2020; \$70M+ Will Be Realized in 2018









# Early Project Engagement as Main Valve Partner Is **Delivering Schedule & Cost Improvements** for Customers



# **PEMEX**Abkatun-A2 Offshore Platform



\$9M

**Emerson Value** 



Mexico

#### Challenge

Complex project with expedited delivery schedule

#### **Solution**

- Engaged at Front-End Engineering & Design as Main Instrument Vendor
- Applied unrivalled application expertise for critical valve specification and design

#### **Final Control Portfolio Participation**



# Hengli Group

Hengli Refinery and Ethylene Project



\$18M





China

**Emerson Value** 

Refining Petrochemica

#### Challenge

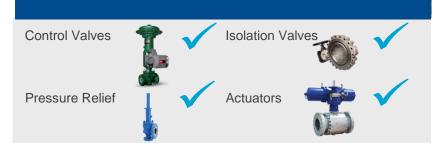
 Customer needed strong technical and engineering support for large, complex project

#### **Solution**

- Cross-functional teams utilized to closely engage with customer
- Full Final Control engagement to shorten decision process



#### **Final Control Portfolio Participation**



# Final Control Expertise as an Operational Partner Is Delivering Lower Total Cost of Ownership & Improved Productivity



## **Combined Cycle Power Plant** Asheville Project





**Emerson Value** 

#### Challenge

 Extreme conditions and specialized applications for a plant expansion

#### Solution

- Offered unparalleled portfolio
- Applied unrivalled application expertise for critical valve specification and design



#### **Final Control Portfolio Participation**



## **Petrochemical Customer Jubail Chemical Plant**





Saudi Arabia

**Emerson Value** 

#### Challenge

 Reduce costs and procurement complexity, and simplify maintenance for improved operating performance

#### Solution

· Broad portfolio of service offerings with embedded service personnel and local presence

#### **Final Control Portfolio Participation**



Agreement





# Supply Chain Programs Will Deliver \$30M in Cost Savings by 2020

## **Before Deal Closure...**

420 Projects Identified

**60** Global Leaders Trained

\$12M-\$20M

**Savings Potential Identified** 

400+

Supplier Negotiations in First 180 Days

\$17+M
Savings Realized

95+%

Supply Chain Regionalization by 2020

4,600+ (25%)

Suppliers Reduced by 2020

## \$30M

in Net Material Inflation by 2020

# **Castings**

Regional foundry development and 3D printed sand molds for D-part castings

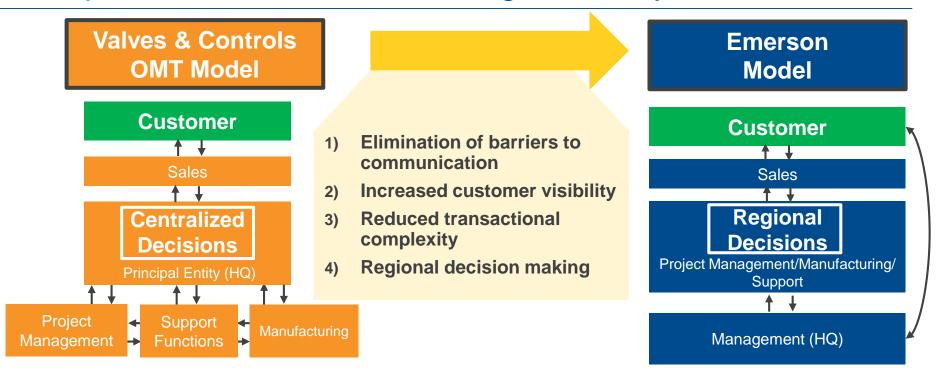
## **Machined Parts**

Expanding capacity in Toluca, Mexico to support North America plants on machined parts

## **Indirect**

Implementing spend visibility tools to accelerate cross-BU tensioning

# OMT<sup>1</sup> Realignment Will Drive Service Level Improvements While Reducing Inventory



OMT Performance Metrics		
RDSL <sup>2</sup>	~65%	
Inventory Turnover	~1.9	
Past-Due Receivables	~38%	

Emerson Target Metrics		
RDSL <sup>2</sup>	>95%	
Inventory Turnover	>5.0	
Past-Due Receivables	<15%	

<sup>&</sup>lt;sup>1</sup> Operating Model Transformation

<sup>&</sup>lt;sup>2</sup> On-Time to Request Date Service Levels

# Final Control -- Summary

- Acquisition of Valves & Controls <u>transforms Final Control</u> and <u>broadens Automation</u>
   <u>Solutions</u>
  - One global manufacturer supplying and servicing all valves everywhere;
  - Global #1 player, with 16%+ served market participation and \$5B in sales by 2022
- Rapid organic growth driven by enhancing our relevance <u>Connecting To Customers</u> to capture investment waves
  - Strategic direction focused on Problem Solving enabling customers to achieve Top Quartile Performance in both operational and project environments
  - Simplifying and elevating customer interactions through a Single Integrated Channel
- Technology Leadership position to separate from the competition
  - Electric actuation remains a priority for accelerated investment
- <u>Lifecycle Management</u> of the \$40B global installed base to <u>build loyalty and drive</u> <u>sustained growth</u> through traditional and outcome-based service models
- <u>Perfect Execution</u> focus to drive <u>regionalization</u> and <u>supply chain speed</u> resulting in superior <u>operating margin</u> and <u>cash flow generation</u>

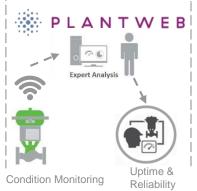
# We Are the Main Valve Partner Helping Customers Achieve Top Quartile Performance

## **Category Leading Products**

Brand, Breadth, and Service



## **Technology** Leadership



## Trusted **Advisor** Main Valve Partner

- Build in Optimized Solutions at Front-End Engineering & Design
- Project Execution Expertise
- Single Partner Accountability

## Top Quartile **Performance**

**Problem Solving** 

- Project Certainty
- Operational Certainty

### **New Final Control**





**Flow Controls** 

**Pressure Management** 

CROSBY FISHER\*

**Isolation Valves** 

KEYSTONE" VANESSA

**Actuation Technologies** 

BETTIS

120





# 2018 Investor Conference Commercial & Residential Solutions Business Overview

Bob Sharp Executive President February 15, 2018



# 2018 Investor Conference Commercial & Residential Solutions Business Overview

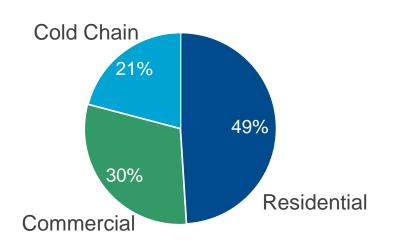
Bob Sharp Executive President February 15, 2018



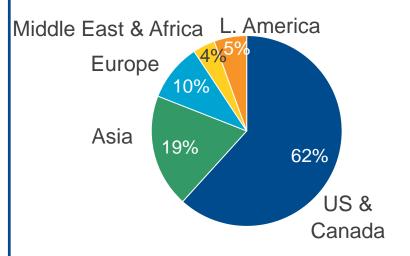
# Commercial & Residential Solutions 2017 Summary

	<u>2016</u>	<u>2017</u>	2016 – 2017 <u>Change</u>
Sales	\$5.2B	\$5.6B	6%
EBIT	\$1.3B	\$1.3B	7%
% of Sales	24.0%	24.2%	+20 bps
ROTC	48%	52%	

## 2017 Sales by Market



## 2017 Sales by Geography



# Commercial & Residential Solutions Key Messages

- Commercial & Residential Solutions is uniquely positioned in an attractive market that consistently delivers ~3% underlying through-the-cycle growth
- Our platform is built upon franchise businesses that serve as industry stewards,
   essential attributes that have enabled a long-term proven record of value creation
- Our significant market positions get challenged, but we have managed these challenges for decades. In addition, several major new programs provide the foundation for incremental above-market growth and value creation.
- New areas of focus have expanded our addressable market by \$8B, to \$39B. And we
  are working additional internal and acquisition opportunities in Electronics and
  Professional Tools areas to further increase our served space.
- With our broad product portfolio, we have a differentiated position from which to deliver solutions and act as a technology partner to our customers
- Traction over the past ~18 months has been very solid: We achieved 6.1% underlying sales\* growth in 2017, and expect 4-6% growth in 2018

# Served Market Showing Steady Growth, With Attractive Market Drivers to Leverage

Cold Chain			Market Drivers	
2018	2018-2021	Commercial Refrigeration	DOE & EPA regulations drive redesigns & food monitoring, Cold Chain expansion	
		Food Retail	Energy reduction, food quality, new formats	
		Transport	Asia rail, truck & trailer, container recover	
Residential		Residential AC	Solid fundamentals; summer weather key	
2018 2018-2021	Home Improvements	Consumer confidence, equipment investment, improvement & repair projects		
		Residential Construction	New construction & private spending	
Commercial		Commercial AC	New efficiency standards	
2018	2018-2021	Global Heating	China coal to heat pump conversion	
		Non-Residential Construction	Non residential fixed investment & growth in strategic building segments	

Expect 2018 Total Commercial & Residential Global Market up 3% to 5% -- Commercial & Residential Solutions Underlying Sales\* Expected To Be up 4% to 6%

# Several Key Programs to Address Our Core Opportunities

# Protecting Food Quality & Sustainability

Keeping food fresh across the cold chain while lowering cost and improving customer experience

## **Key Programs**

- Temperature Management
- **✓** Facility/Asset Monitoring
- ✓ Integrated Solutions

# Ensuring Human Comfort & Health

Transforming homes with comfort, efficiency and connectivity solutions

- **✓** Heat Pumps Solutions
- ✓ Sensi Thermostats
- ✓ Sensi Monitoring

# Advancing Energy Efficiency

Enabling high-performance, comfortable and controllable workplace environments

- Modulation & Control
- ✓ Dehumidification
- ✓ Building Management

# Creating Sustainable Infrastructure

Food waste management solutions for home, businesses and communities

- **✓** Disposer Adoption
- ✓ Grind2Energy

**COPELAND** 

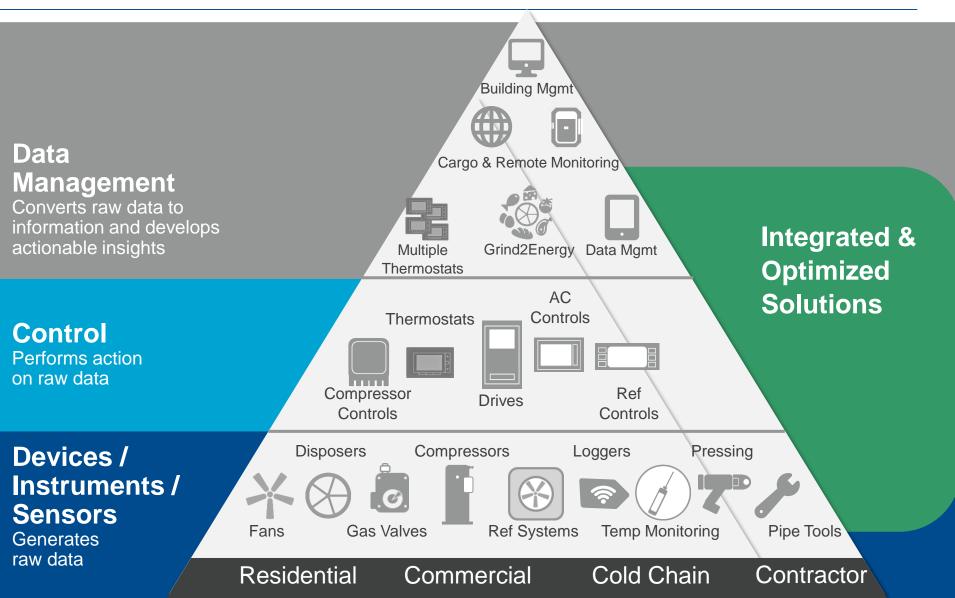
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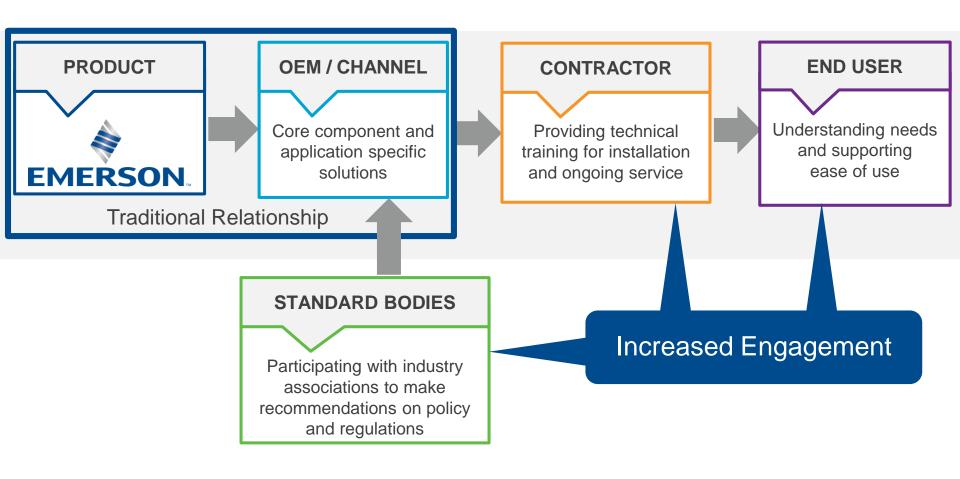




# Moving Up the Technology Pyramid Utilizing Intelligent Devices, Controls and Software Across the Platform



# Our Domain Knowledge, Product Strength and Solutions Capability Enable Us to Serve as an <u>Industry Steward</u>



#### COMPREHENSIVE RANGE OF TECHNOLOGIES AND SOLUTIONS



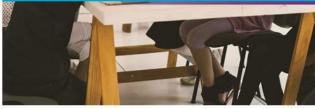








ENABLING HIGH PERFORMANCE BUILDINGS





# Keeping Food Fresh Throughout the Cold Chain

Food Quality and Safety
Solutions Across the Cold Chain











CONVENIENCE STORES



DRUG STORES



RESTAURANTS





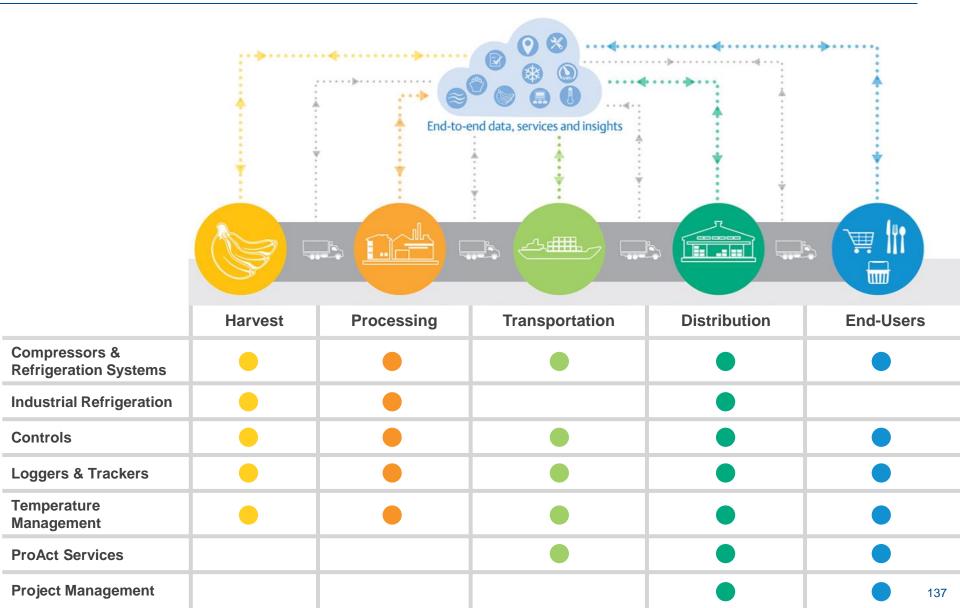








# End-to-End Cold Chain Solutions Offer a Significant Opportunity to Protect Food Quality & Safety



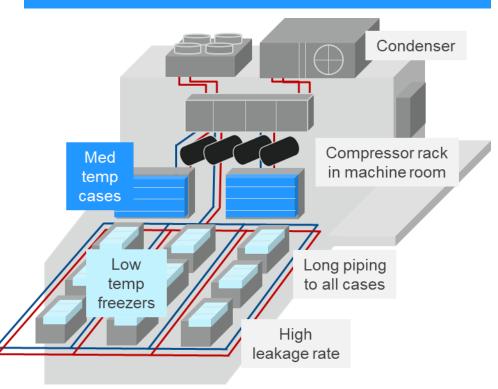
# We Are Focused on Integrated Solutions at Each Node and Across the Cold Chain

Harvest	Processing	Transportation	Distribution	End-Users
Pre-cool products prior to shipment	Production of food products	Reduce product loss & monitor food safety	Ensure food quality & maintain freshness	Deliver fresh products & energy savings
Refrigeration for storage facilities & warehouses	Refrigeration for food process cooling & cold storage	Refrigeration & monitoring for containers & trailers	Refrigeration for cold rooms & warehouses	Refrigeration for point of sale providers
Fixed monitoring on-site  Mobile monitoring for cargo from field forward	Fixed monitoring with data analytics & recording keeping  HVAC solutions	Container fleet asset management & maintenance  Mobile monitoring for cargo through the supply chain	Fixed monitoring with data analytics HVAC solutions	Fixed & remote monitoring with data analytics & record keeping, predictive maintenance

Cold Chain Teams Organized Around Food Retail, Food Service, Industrial, Transportation and Distribution. 2x Larger Than Next Participant in an \$8B Served Portion of Global Market With Several Opportunities to Expand.

# The Food Retail Market Is Going Through a Major Upheaval With Shifting Architecture & Market Trends

## **Traditional Supermarket Architecture**



## Shift to small footprint stores

- Need for flexibility
- Optimize space
- Reduce operating expense

# Increasing home delivery growth by e-tailers & traditional supermarkets

- Shifting to large scale perishable food delivery
- New architectures shift away from retail food display
- Cold storage distribution centers growing to support trend

# We Have Solutions to Support New Food Retail Architectures and Business Models

#### **Small-Format Architecture**

# Integrated compressors External unit heat removal Plug-in cases

**Integrated Solutions for Refrigeration Case Manufacturers** 

#### **E-Commerce Models**





New Staging Infrastructure for Click & Collect

# Convenience Stores & Restaurants Continue to Expand Fresh Food Offering, Requiring New Solutions





Sensi



Transformative Wave



Packaged Temperature Controls Monitoring



Building Controls

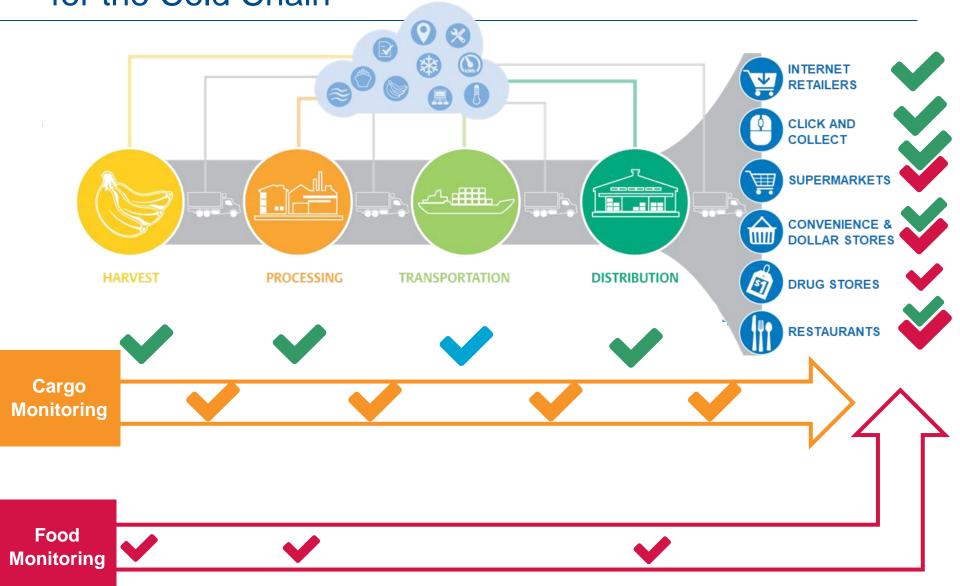
## **PROACT**

ProAct Software Services, Solutions



Cargo Solutions

Cooper-Atkins Further Expands Our Connected Solutions for the Cold Chain



#### COMPREHENSIVE RANGE OF TECHNOLOGIES AND SOLUTIONS







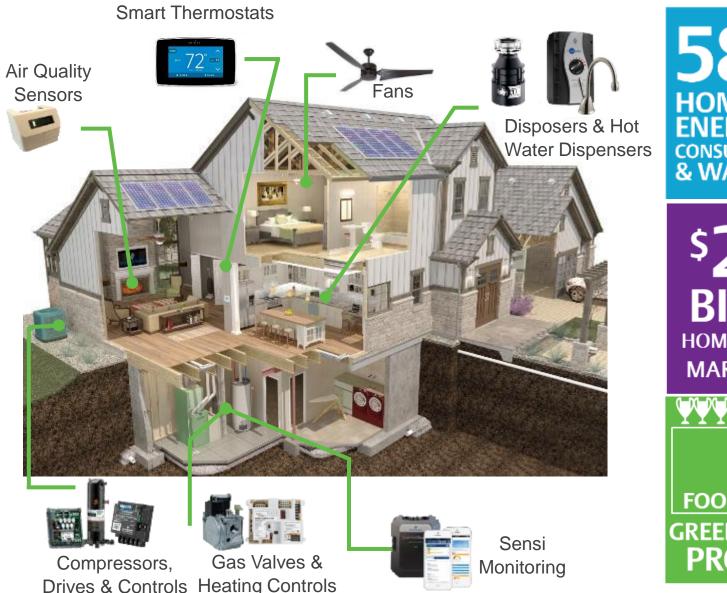


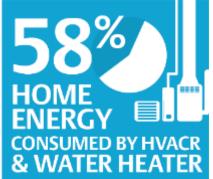






## Bringing Comfort And Convenience to Homes as Part of The Critical Infrastructure









## Variable Speed Market Dynamics Vary by Region, and We Address With Local Presence



#### Asia

Delivering integrated variable speed solutions to strategic and small OEMs Differentiation for specialty applications

### **Europe**

Variable speed key for penetrating the heat pump space due to efficiency requirements

Emerson heating & electronic solutions differentiate

#### **North America**

Delivering variable speed solutions to multiple OEMs

Continues to be a niche market due to contractor reluctance & price level

#### COMPREHENSIVE RANGE OF TECHNOLOGIES AND SOLUTIONS







**BRINGING COMFORT AND** 



ENABLING HIGH PERFORMANCE BUILDINGS



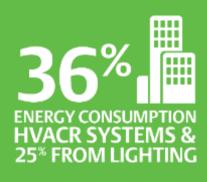


## Enabling High Performance Commercial Buildings as Part of the Critical Infrastructure









## Integrated HVAC Solutions Deliver Additional Value & Efficiency to Commercial Buildings



## Multiple Thermostat Manager Software Aggregates Sensi Thermostats for Easy Commercial Application

## Sensi Multiple Thermostat Manager Portal









# Centralized Monitoring & Control multi thermostat dashboard



## Smart Schedule scheduling special events



## Multi User Controls with administrator functionality



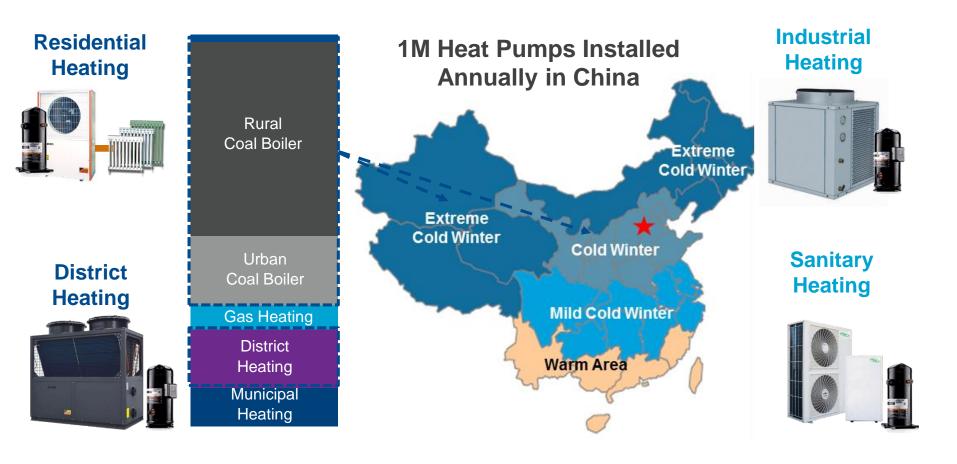
## Solution Cost Sensi Thermostat + \$1/month/thermostat

**Launched in November** 

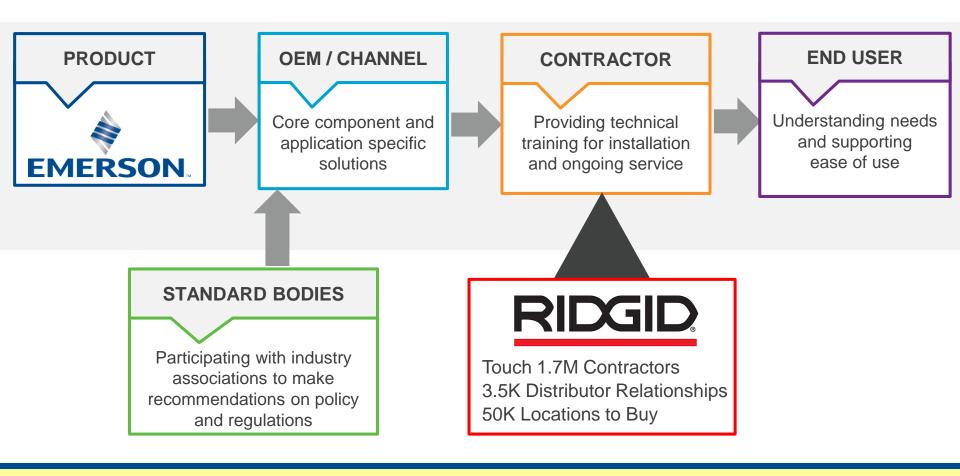
## China Heat Pump Offering Now Includes Commercial Applications, a Significant Market Expansion

### **Residential & District Heating**

### **Additional Heating Applications**



## Our Connection With Contractors Extends Into Professional Tools



Professional Contractor Relationships Are a Key Driver of Brand Strength, Helping Balance Relationships With OEMs and Retail Channel Partners

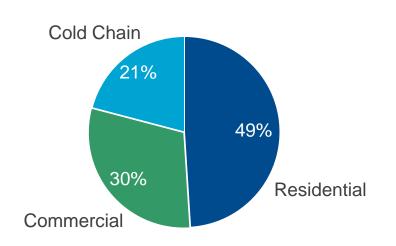
## Business Development Focus Areas Across Our End Markets



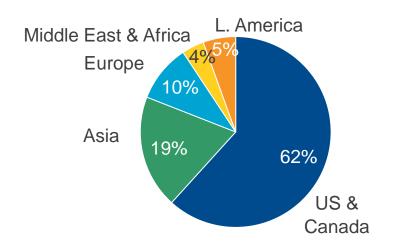
## Commercial & Residential Solutions 2017 Summary & 2018 Guidance

	<u>2016</u>	<u>2017</u>	<u>2018E</u>
Sales	\$5.2B	\$5.6B	4% - 6%
EBIT	\$1.3B	\$1.3B	
% of Sales	24.0%	24.2%	~24%
ROTC	48%	52%	

### 2017 Sales by Market



### 2017 Sales by Geography



165





In this presentation non-GAAP measures (denoted with an \*) are used when talking about the Company's performance, and a reconciliation of those measures to the most comparable GAAP measures is contained below.

(\$ in billions, except per share amounts or where noted)

#### Sales % chq. vs. PY

Sales change (GAAP) Acq/Div/FX Underlying\*

#### Sales % chg. vs. PY

Sales change (GAAP) Acq/Div/FX Underlying\*

#### Sales % chq. vs. PY

Sales change (GAAP) Acq/Div/FX Underlying\*

#### Sales % chq. vs. PY

Sales change (GAAP) FX Acq/Div Underlying\*

2016				
Q1	Q2	Q3	Q4	FY
(17)%	(9)%	(10)%	(6)%	(11)%
7%	4%	2%	1%	4%
(10)%	(5)%	(8)%	(5)%	(7)%

2017				
Q1	Q2	Q3	Q4	FY
(4)%	0%	10%	13%	5%
1%	-	(6)%	(10)%	(4)%
(3)%	0%	4%	3%	1%

Γ	2017E
	Guidance
_	(3)-(1)%
	~1%
	(2)-0%

2018	2018E			
Q1	Q2	Q3	Q4	FY
19%	~18%	~10%	~6%	11 - 13%
(3)%	~(3)%	~(3)%	~(1)%	~(2)%
(9)%	~(8)%	~(1)%	~1%	~(4)%
7%	~7%	~6%	~6%	5 - 7%

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(\$ in billions, except per share amounts or where noted)

#### Sales % chg. vs. PY

Mature market sales change (GAAP) Acq/Div/FX Mature market underlying\*

#### Sales % chq. vs. PY

Emerging market sales change (GAAP) Acq/Div/FX Emerging market underlying\*

#### Sales % chq. vs. PY

Sales change (GAAP) FX Acq/Div Underlying\*

2018E	
FY	
~9+%	
~(4)%	
~5+%	

2018E	
FY	
14 - 15%	
~(8)%	
6 - 7%	

Auto	Comm & Res
Sols	Sols
2018E	2018E
FY	FY
18 - 20%	1-3%
~(3)%	~(2)%
~(9)%	~5%
6 - 8%	4 - 6%

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(\$ in billions, except per share amounts or where noted)

#### Sales CAGR

Sales CAGR (GAAP) Acq/Div/FX Sales underlying CAGR\*

#### Mature Market Sales CAGR

Sales CAGR (GAAP) Acq/Div/FX Sales underlying CAGR\*

#### **Emerging Market Sales CAGR**

Sales CAGR (GAAP) Acq/Div/FX Sales underlying CAGR\*

#### <u>Automation Solutions Sales CAGRs</u>

Sales CAGR (GAAP) Acq/Div/FX Underlying sales CAGR\*

#### Comm & Res Sols Excluding ClosetMaid Sales CAGRs

Sales CAGR (GAAP)
Acq/Div/FX
Underlying sales excluding ClosetMaid CAGR\*

2016-2021T	2017-2021T
~8%	~8.5%
~(3)%	~(3)%
~5%	~5.5%

2002-2007	2007-2012	2012-2017	2017-2021T
4.0%	-	(2.0)%	~6+%
0.5%	1.0%	2.5%	~(1)%
4.5%	1.0%	0.5%	~5+%

2002-2007	2007-2012	2012-2017	2017-2021T
20.5%	8.0%	(4.0)%	8 - 9%
(5.5)%	-	5.0%	~(2)%
15.0%	8.0%	1.0%	6 - 7%

2005-2016	2016-2021T	2017-2021T
~5.0%	9 - 10%	9.5 - 10.5%
~(1.0)%	~(4)%	~(2.5)%
~4.0%	5 - 6%	7.0 - 8.0%

2005-2016	2016-2021T	2017-2021T
~2.0%	3 - 4%	2.5 - 3.5%
~.5%	~1%	~1.0%
~2.5%	4 - 5%	3.5 - 4.5%

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(\$ in billions, except per share amounts or where noted)

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Pretax margin (GAAP) Interest expense, net EBIT margin\* Additional \$4B spend EBIT with additional spend\*

2017	2018E	2021T	2017 vs 2018E
15.3%	~15.8%	~18%	~50 bps
1.1%	~0.9%	~1%	~(20) bps
16.4%	~16.7%	~19%	~30 bps
		~(1)%	
		~18%	

#### Earnings Per Share

Diluted earnings per share (GAAP) Repositioning items and divestiture gains Adjusted diluted earnings per share\*

2015				
\$	3.99			
	(0.82)			
\$	3.17			

#### Earnings Per Share

Earnings per share from continuing operations (GAAP)
Valves & Controls first year acquisition accounting charges
Earnings per share from continuing operations, excluding
Valves & Controls first year acquisition accounting
charges\*
Valves & Controls operations

Earnings per share excluding Valves & Controls\*

2017		
\$ 2.54		
 0.10		
2.64		

0.05
\$ 2.69

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(\$ in billions, except per share amounts or where noted)

#### Free Cash Flow

Operating cash flow (GAAP)
Impact of taxes on divestiture gains and repositioning items
Operating cash flow adjusted\*
Capital expenditures
Free cash flow\*
Impact of tax reform
Free cash flow excluding tax reform\*

#### Free Cash Flow % of Sales

Operating cash flow as a % of sales (GAAP)
Taxes paid on divestiture gains and repositioning items
Operating cash flow as a % of sales adjusted\*
Capital expenditures
Free cash flow as a % of sales\*

#### Free Cash Flow to Net Earnings Common Stockholders

Operating cash flow to net earnings (GAAP)
Capital expenditures & impact of divestiture gains (& taxes paid), repositioning items & impairments
Free cash flow to net earnings adjusted\*

#### Dividend To Free Cash Flow

Dividends to operating cash flow (GAAP)

Capital expenditures & impact of taxes on divestiture gains & repositioning

Dividends to free cash flow\*

2013	2014	2015	2016	2017	2018E	2021T	2021T Prior Year Guidan ce
\$ 3.6	3.7	2.5	2.9	2.7	~2.9	~3.8	~3.3
-	-	0.5	0.2	-	-	-	-
3.6	3.7	3.0	3.1	2.7	~2.9	~3.8	~3.3
(0.6)	(0.8)	(0.7)	(0.6)	(0.5)	~(0.6)	~(0.7)	~(0.6)
\$ 3.0	2.9	2.3	2.5	2.2	~2.3	~3.1	~2.7
						~(0.2) ~2.9	

	2013	2014	2015	2016	2017	2018E
	14.8%	15.0%	11.3%	14.2%	17.6%	~16.8%
	-	-	1.9%	0.9%	-	-
	14.8%	15.0%	13.2%	15.1%	17.6%	~16.8%
	(2.8)%	(3.1)%	(3.0)%	(2.6%)	(3.1)%	~(3.3)%
_	12.0%	11.9%	10.2%	12.5%	14.5%	~13.5%

2013	2014	2015	2016	2017	2018E
182%	172%	93%	176%	164%	~150%
(66)%	(62)%	12%	(45)%	(29)%	~(30)%
116%	1/		( - /	135%	~120%

						2017E Prior Year				
	2013	2014	2015	2016	2017	Guidance	2018E	2019T	2020T	2021T
Π	32%	33%	50%	43%	46%	~49%	~42%	~39%	~36%	~35%
	8%	8%	6%	5%	10%	~13%	~11%	~10%	~9%	~8%
	40%	41%	56%	48%	56%	~62%	~53%	~49%	~45%	~43%

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(\$ in billions, except per share amounts or where noted)

Sales (GAAP)
Valves & Controls impact
Sales excluding Valves & Controls\*

#### **Gross Profit Margin**

Gross profit margin (GAAP)
Valves & Controls impact
Gross profit margin excluding Valves & Controls\*

#### **EBIT Margin**

Pretax margin (GAAP)
Interest expense, net
EBIT margin\*
Valves & Controls impact
EBIT margin excluding Valves & Controls\*

#### Total Debt / EBITDA

Total debt / pretax earnings (GAAP)
Interest, taxes, depreciation, amortization
Total debt / EBITDA\*
Additional \$4B spend
Total debt / EBITDA with additional spend\*

2017			
\$	15.3		
	(0.6)		
\$	14.7		

2017
42.0%
1.2%
43.2%

	2017
	15.3%
_	1.1%
	16.4%
	1.5%
	17.9%

2017	2018E	2021T
2.0x	~1.6x	~1.1x
(.5)	~(.4)	~(.2)
1.5x	~1.2x	~0.9x
		~.6
		~1.5x

In this presentation non-GAAP measures (denoted with an \*) are used when talking about the Company's performance, and a reconciliation of those measures to the most comparable GAAP measures is contained below.

(\$ in billions, except per share amounts or where noted)

#### Free Cash Flow (\$ in millions)

Operating cash flow (GAAP)
Impact of repositioning items
Operating cash flow adjusted\*
Capital expenditures including discontinued operations
Free cash flow\*
Impact of discontinued operations
Free cash flow continuing operations\*

#### EPS Growth

EPS growth with tax reform (GAAP) Tax reform impact EPS growth without tax reform\*

#### Automation Solutions Underlying Sales Growth

Automation Solutions Sales Growth Reported (GAAP) Acquisitions/FX Automation Solutions underlying sales growth\*

2	2016		
\$	2,881		
	179		
	3,060		
	(523)		
	2,537		
	(485)		
\$	2,052		

2016-2021T	2017-2021T
~13%	~15.5%
~(2)%	~(4.0)%
~11%	~11.5%

2017	
	5%
	(6)%
	(1)%

In this presentation non-GAAP measures (denoted with an \*) are used when talking about the Company's performance, and a reconciliation of those measures to the most comparable GAAP measures is contained below.

(\$ in billions, except per share amounts or where noted)

#### <u>Automation Solutions EBIT Excluding Valves & Controls</u>

Automation Solutions EBIT (GAAP)
Valves & Controls
Automation Solutions EBIT excluding Valves & Controls\*

#### Automation Solutions EBIT Margin Excluding Valves & Controls

Automation Solutions EBIT Margin (GAAP)
Valves & Controls
Automation Solutions EBIT Margin excluding Valves &
Controls\*

#### **Automation Solutions Pro Forma Sales**

Automation Solutions Reported (GAAP) Valves & Controls Automation Solutions pro forma sales\*

#### Valves & Controls EBIT Margin

EBIT (GAAP) Other income (deductions) Operating margin\*

#### Final Control Pro Forma Sales

Final Control (GAAP) Valves & Controls impact Final Control pro forma\*

2016		2017		2016 vs 2017
\$	1.5	\$	1.5	5%
	-		0.1	2%
\$	1.5	\$	1.6	7%

2016	2017	2016 vs 2017
16,2%	16.2%	-
0%	1.5%	150 bps
16.2%	17.7%	150 bps

2017 PF	
\$	9.4
	0.9
\$	10.3

	Q4
2018E	2018E
~(1)%	~3%
~8%	~7%
~7%	~10%

2017PF	
\$	2.7
	8.0
S	3.5

In this presentation non-GAAP measures (denoted with an \*) are used when talking about the Company's performance, and a reconciliation of those measures to the most comparable GAAP measures is contained below.

(\$ in billions, except per share amounts or where noted)

#### Commercial & Residential Sales

Sales (GAAP)
ClosetMaid impact
Sales excluding ClosetMaid\*

#### Commercial & Residential EBIT

Commercial & Residential EBIT (GAAP)
ClosetMaid impact
Commercial & Residential EBIT excluding ClosetMaid\*

#### Commercial & Residential EBIT Margin

Commercial & Residential EBIT margin (GAAP)
ClosetMaid impact
Commercial & Residential EBIT margin excluding ClosetMaid\*

#### Commercial & Residential Return on Total Capital (ROTC)

Commercial & Residential ROTC (GAAP)
ClosetMaid impact
Commercial & Residential ROTC excluding ClosetMaid\*

#### FY17 Comm & Residential Sales by Geography

Sales by Geography (GAAP)
ClosetMaid impact
Commercial & Residential Sales by Geography excluding ClosetMaid\*

2016		2017		2016 vs 2017
\$	5.6	\$	5.9	5%
	(0.4)		(0.3)	1%
\$	5.2	\$	5.6	6%

2016		2017		2016 vs 2017	
\$	1.3	\$	1.4	6%	
	-		(0.1)	1%	
\$	1.3	\$	1.3	7%	

2016	2017	2016 vs 2017	
23.2%	23.2%	0 bps	
0.8%	1.0%	20 bps	
24.0%	24.2%	20 bps	

2016	2017
45.0%	48.0%
3.0%	4.0%
48.0%	52.0%

US & CAD	ASIA	EUR	MEA	LAM
64%	18%	9%	4%	5%
(2)%	1%	1%	-	-
62%	19%	10%	4%	5%

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