



November 2017

# Union Pacific Corporation

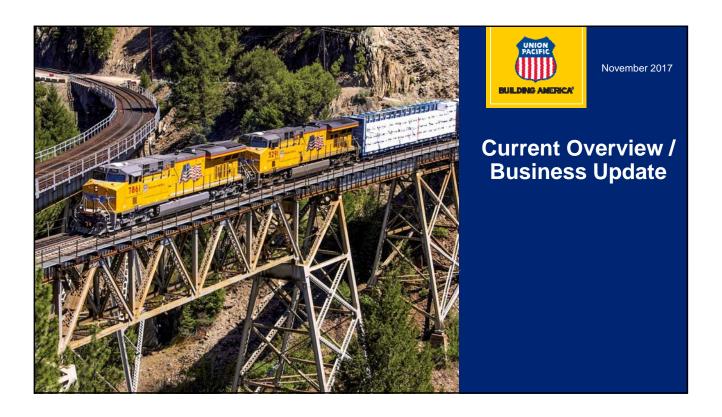
# **Cautionary Information**

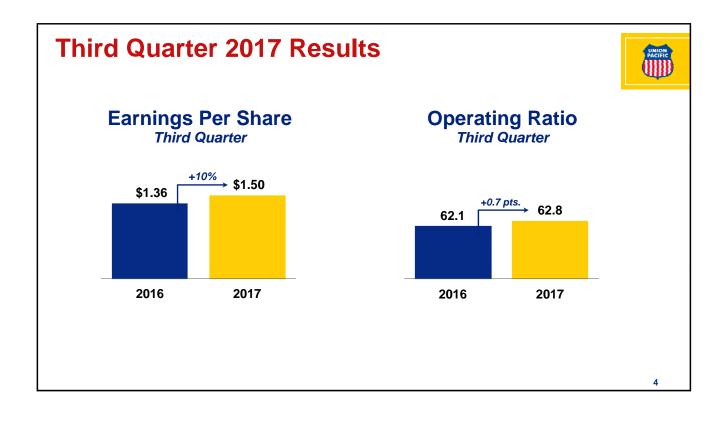


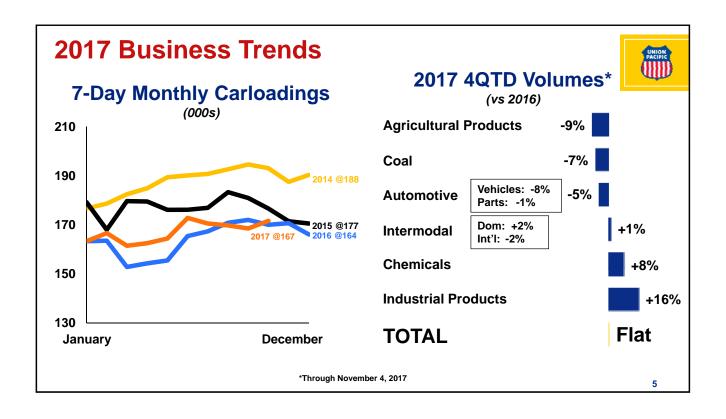
This presentation and related materials contain statements about the Company's future that are not statements of historical fact, including specifically the statements regarding the Company's expectations with respect to economic conditions; its ability to generate financial returns, improve resource productivity and use innovation to enhance customer experience; implementing corporate strategies; and providing excellent service to its customers and returns to its shareholders. These statements are, or will be, forward-looking statements as defined by the Securities Act of 1933 and the Securities Exchange Act of 1934. Forward-looking statements also generally include, without limitation, information or statements regarding: projections, predictions, expectations, estimates or forecasts as to the Company's and its subsidiaries' business, financial, and operational results, and future economic performance; and management's beliefs, expectations, goals, and objectives and other similar expressions concerning matters that are not historical facts.

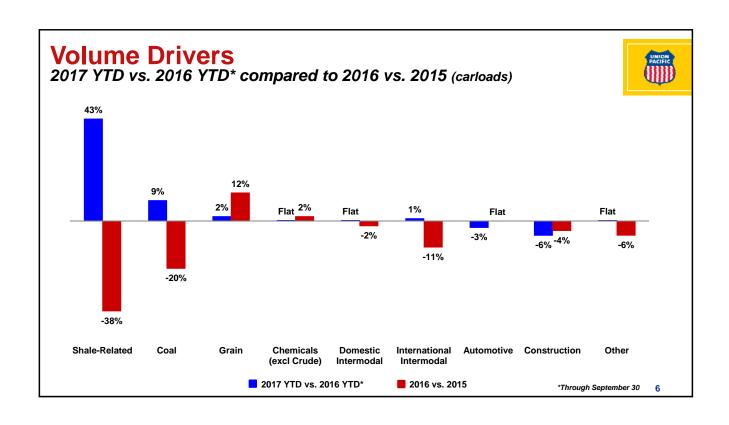
Forward-looking statements should not be read as a guarantee of future performance or results, and will not necessarily be accurate indications of the times that, or by which, such performance or results will be achieved. Forward-looking information, including expectations regarding operational and financial improvements and the Company's future performance or results are subject to risks and uncertainties that could cause actual performance or results to differ materially from those expressed in the statement. Important factors, including risk factors, could affect the Company's and its subsidiaries' future results and could cause those results or other outcomes to differ materially from those expressed or implied in the forward-looking statements. Information regarding risk factors and other cautionary information are available in the Company's Annual Report on Form 10-K for 2016, which was filed with the SEC on February 3, 2017. The Company updates information regarding risk factors if circumstances require such updates in its periodic reports on Form 10-Q and its subsequent Annual Reports on Form 10-K (or such other reports that may be filed with the SEC).

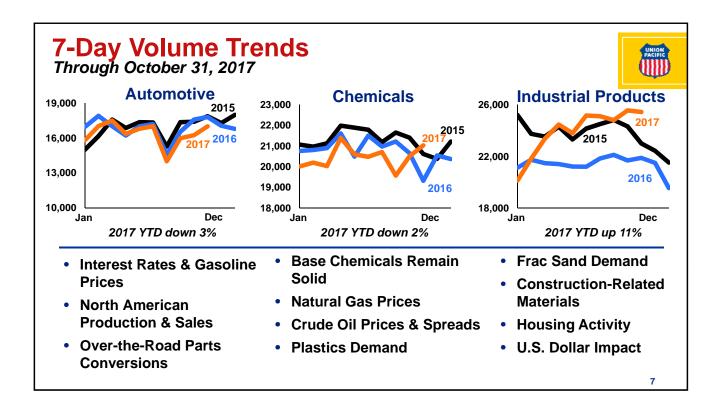
Forward-looking statements speak only as of, and are based only upon information available on, the date the statements were made. The Company assumes no obligation to update forward-looking information to reflect actual results, changes in assumptions or changes in other factors affecting forward-looking information. If the Company does update one or more forward-looking statements, no inference should be drawn that the Company will make additional updates with respect thereto or with respect to other forward-looking statements. References to our website are provided for convenience and, therefore, information on or available through the website is not, and should not be deemed to be, incorporated by reference herein.

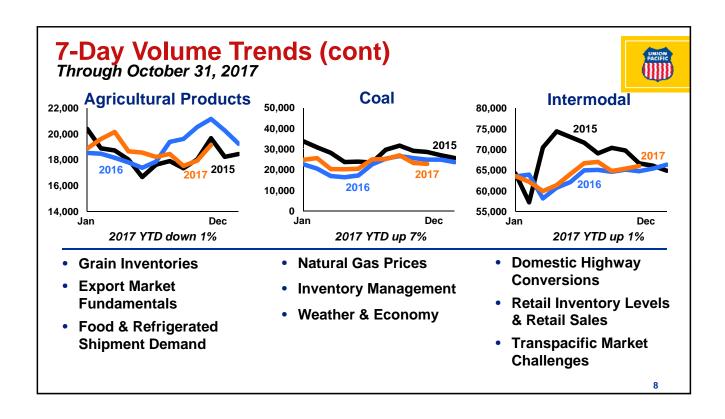


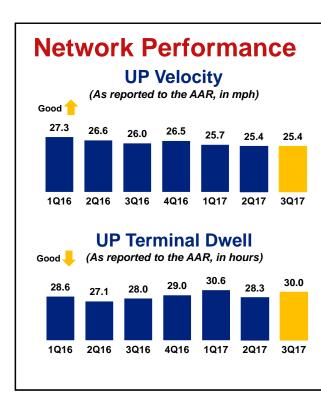














- Hurricane Harvey
- PTC Implementation & Testing
- Transportation Plan Opportunities

q

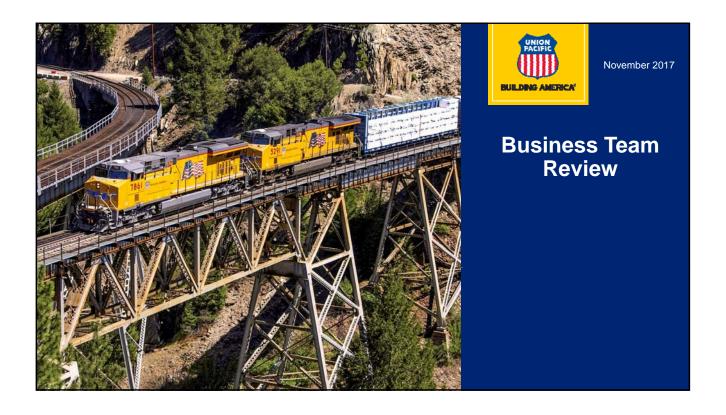
# **Volume and Performance Drive Resources**

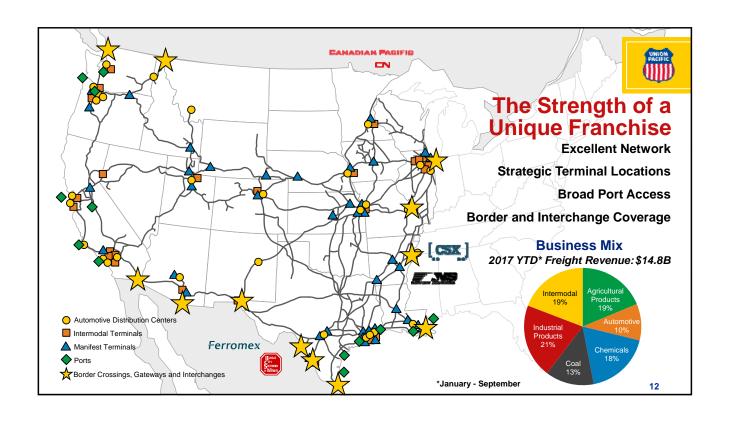
Remaining Agile in a Dynamic Environment

UNION PACIFIC

- TE&Y Workforce
  - 3Q17 Up 3% vs 3Q16
- Mechanical & Engineering Workforce
  - 3Q17 Down 4% vs 3Q16
- Locomotives
  - 3Q17 Up 5% vs 3Q16







# **Economic Outlook**



Metric	2013	2014	2015	2016	2017-2020 Forecast	
Gross Domestic Product (%)	1.7	2.4	2.6	1.5	2.3 (avg)	
Industrial Production (%)	2.0	3.1	-0.7	-1.2	2.4 (avg)	
Light Vehicle Sales (Millions)	15.5	16.5	17.4	17.5	17.0 (avg)	
Housing Starts (Millions)	0.93	1.00	1.11	1.18	1.33 (avg)	
Imports (%) incl Petroleum	1.1	4.4	4.6	1.3	4.1 (avg)	
Exports (%)	3.5	4.3	0.4	-0.3	3.9 (avg)	
Unemployment (%)	7.4	6.2	5.3	4.9	4.3 (avg)	
Source: October 2017 IHS Global Insight forecast						

**2017 Volume Outlook** 



13



#### **Agricultural Products**

- + Food and Refrigerated
- Grain



#### Coal

- + Exports
- ? Natural Gas Prices



#### **Automotive**

- + Over-the-Road Conversions
- ? Consumer Demand



## **Industrial Products**

- + Frac Sand
- Construction Products



#### **Chemicals**

- + Plastics
- + Fertilizer

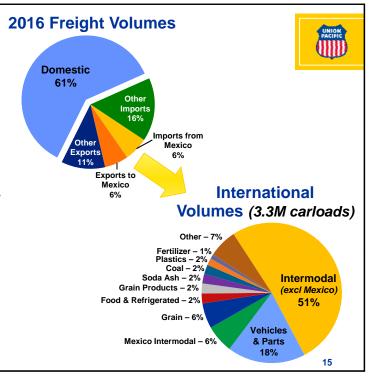


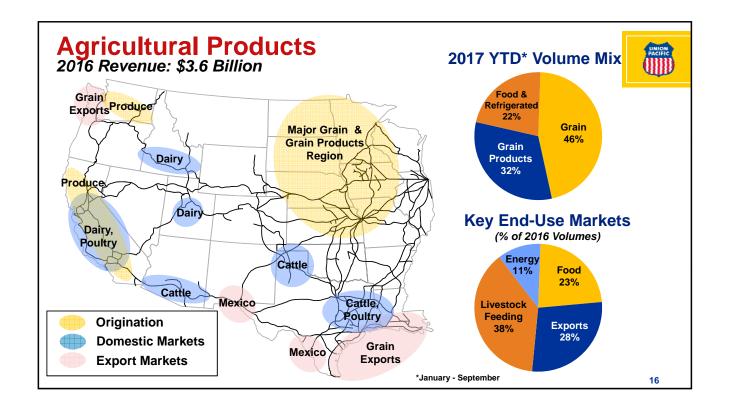
#### **Intermodal**

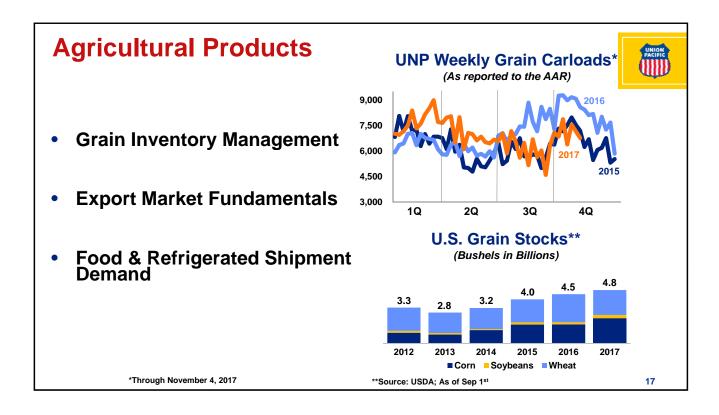
- + Over-the-Road Conversions
- ? International Intermodal

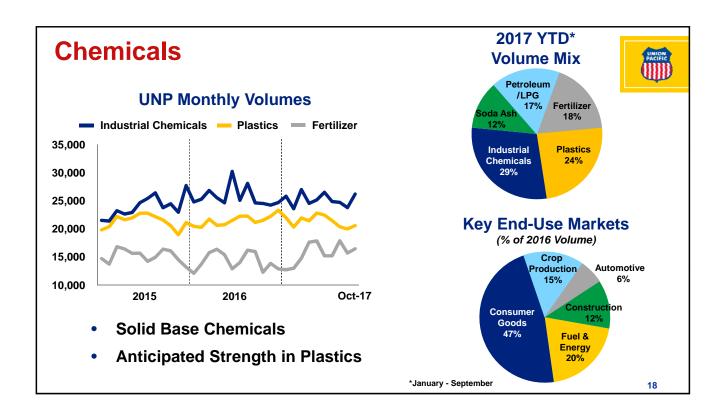
# **International Trade**

- Diverse Franchise Creates Opportunity
- Off-shoring/Near-shoring of U.S. Manufacturing
- Demand for Grain and Food
- Low Natural Gas Prices Favor U.S. Plastics Production
- Impacts from a Strong U.S. Dollar
  - Negative: Steel, Grain, Coal
  - Positive: International Intermodal

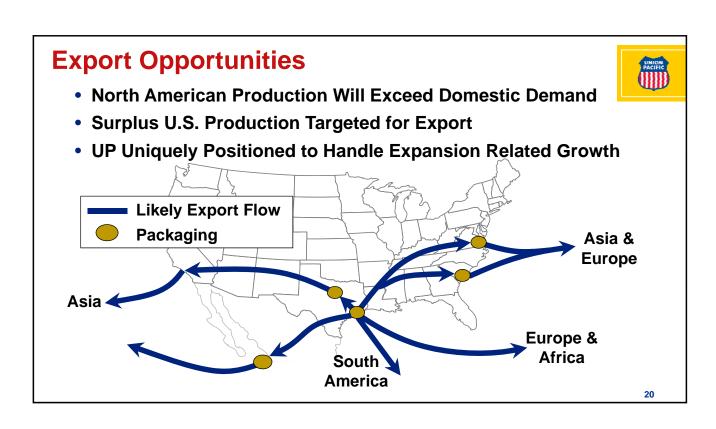












# **Shale-Related Volumes**

3.0% of 2017 YTD\* Total Volume

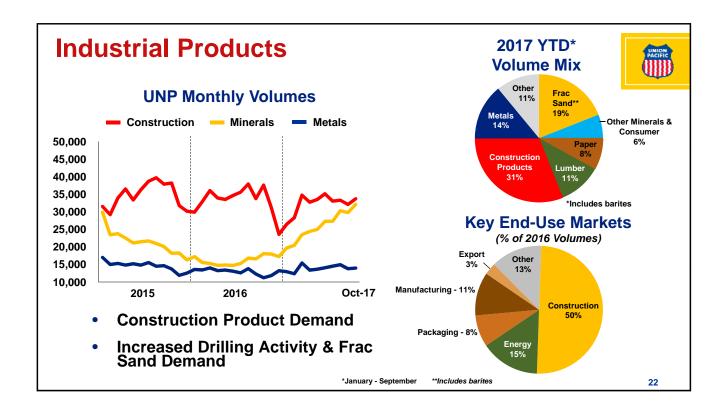
2017 YTD*	Volume (000s)	% Incr (vs '16)	% of Total UP Volume
Frac Sand**	174	102%	2.7%
Pipe	13	56%	0.2%
Crude	6	-84%	0.1%
Total Shale	193	43%	3.0%



- Energy Prices
- Rig Counts
- Enhanced Fracking Technology
- White / Brown Sand Mix

Frac Sand Volume\*\* (By Shale, 000s) 253 194 177 154 121 120 76 2010 2011 2012 2013 2014 2016 17YTD\* 2015 ■Eagle Ford ■ Permian ■Niobrara ■ Marcellus/Utica Bakken ■ Havnesville Other Frac Sand Volume\*\* Volume YTD\* (000s) **1Q** 2Q **3Q Total** 2017 46 59 70 174 2014 (Peak) 184 55 62 67 '17 vs '14 -16% -5% +4% -5%

21



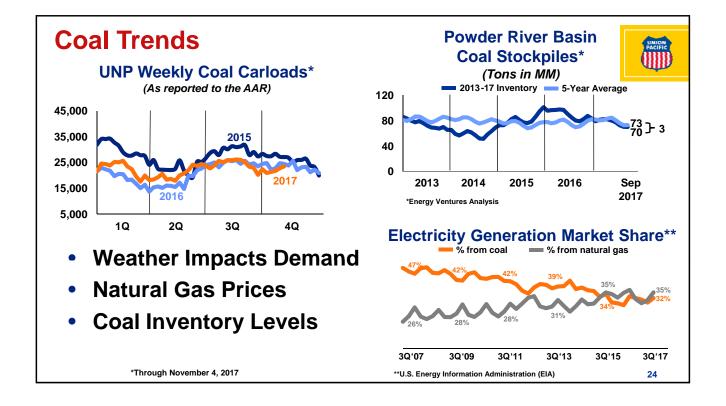
\*January - September \*\*Includes Barites

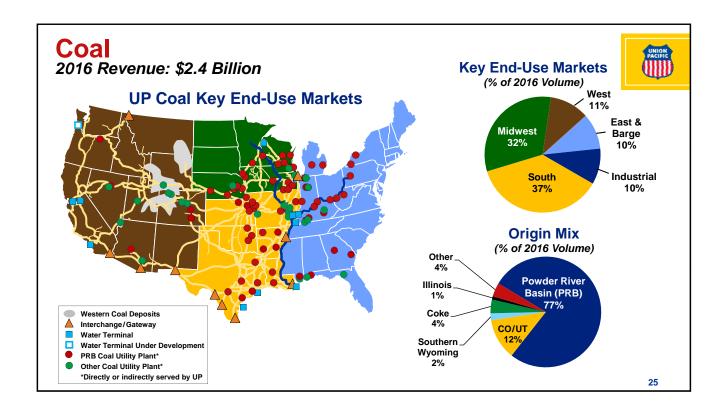
# **Housing Trends**

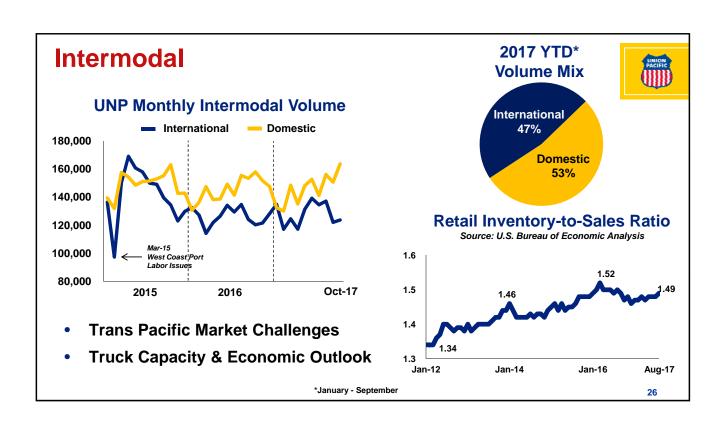
- Housing Market still well Below Historical Averages
- UP Lumber, Stone & Glass Business Correlates with Housing Starts
- Housing also Drives
   Appliances, Roofing, Rebar,
   Aggregates, and Cement
   Demand

Housing related Shipments
Represent ~ 5-10% of Current
UP Volumes









## **Domestic Intermodal Growth**

## **Comprehensive Network**

- **Significant Domestic Truck-Load Conversion Opportunity**
- Truckload Opportunity Originating from Mexico

## **Strong Value Proposition**

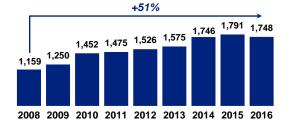
- Competitive Service at an **Affordable Price**
- Environmental Friendliness

## **Truck's Traditional Advantage is Eroding**

- Regulations & Rising Costs
- **Highway Congestion &** Infrastrúcture

## **Domestic Volumes** (Units in 000's)







27

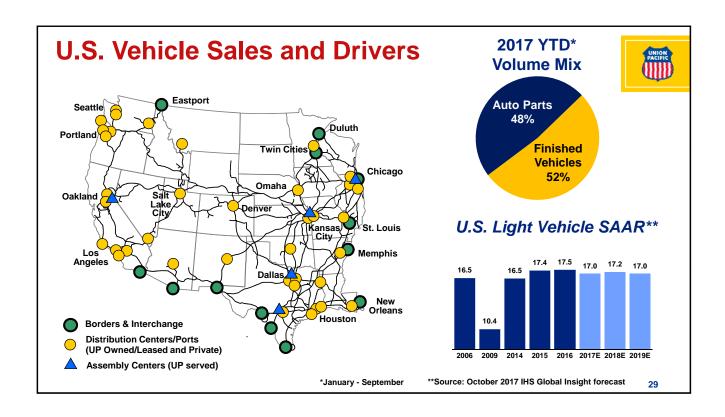
## International Intermodal

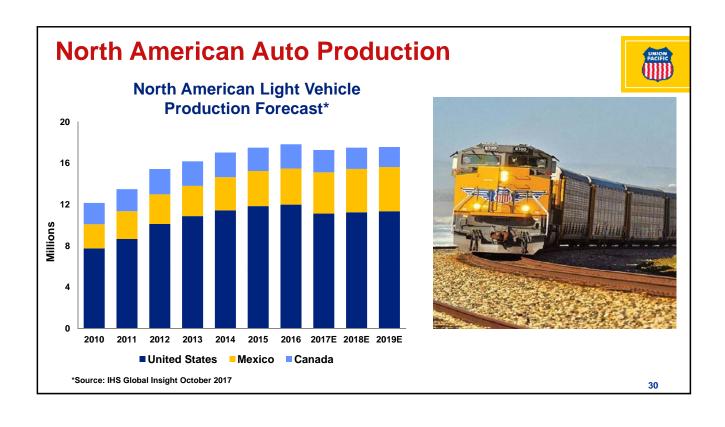
- Transpacific Market Challenges
- Retail Inventories
- West Coast Port **Advantages**

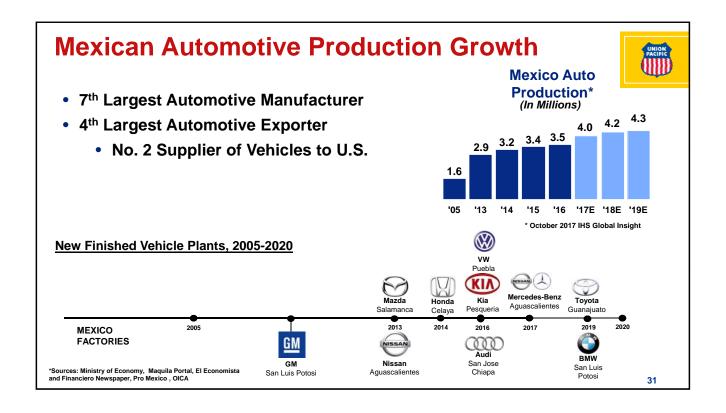


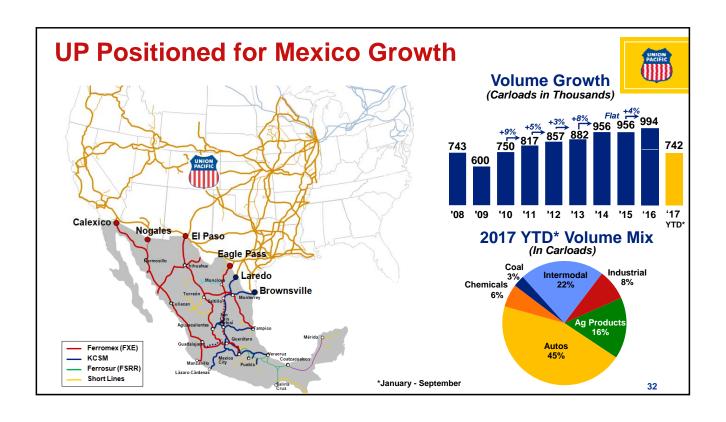


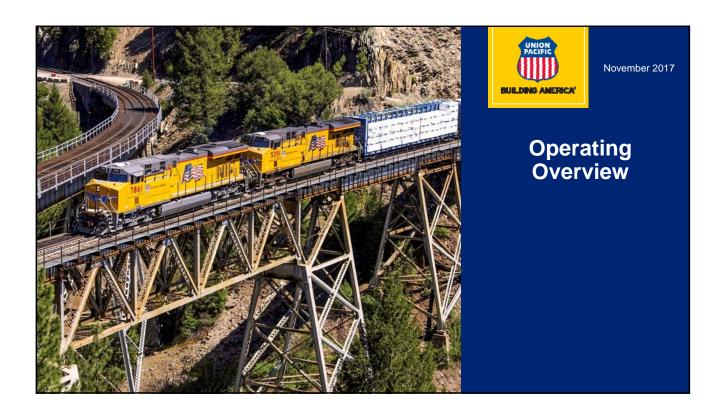


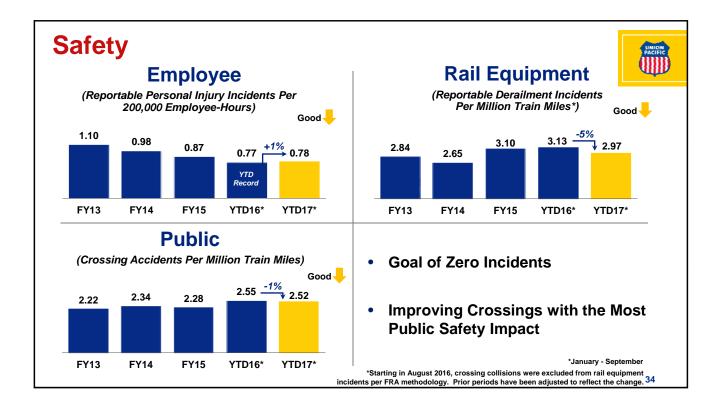


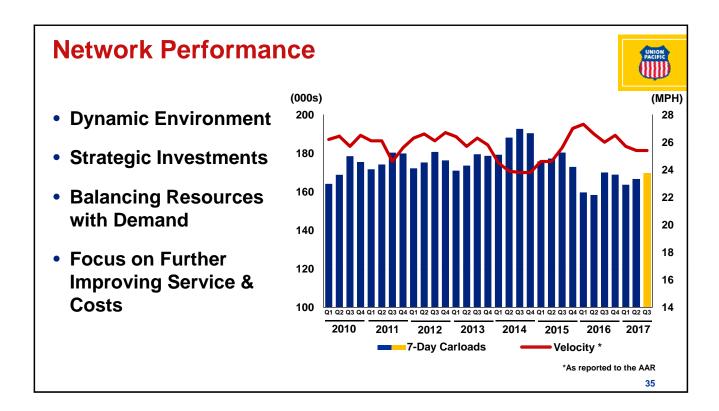






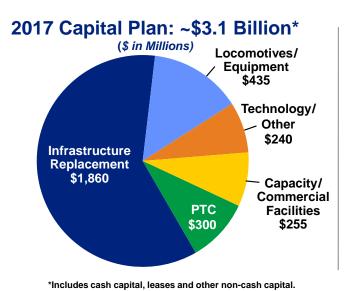








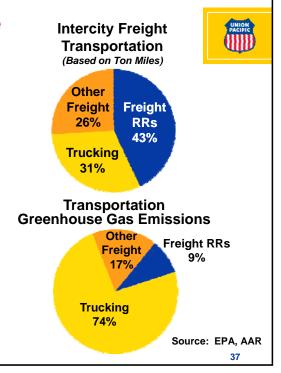




- Safe & Resilient Infrastructure
- Capacity Investments
  - Southern Region
  - Network Strategies
- Equipment Acquisitions
  - ~60 New Locomotives
  - 430 Freight Cars
- Positive Train Control

## Rail – The "Green" Alternative

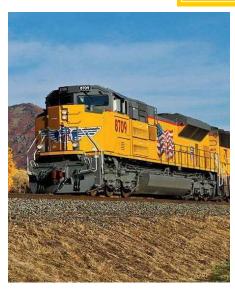
- Each train can take up to 300 trucks off highways
- Three times cleaner than trucks on a ton-mile basis
  - Conversion of 10% long-haul truck freight would eliminate more than 10 million tons of greenhouse gas emissions annually
- Energy Consumption
  - Four times more fuel efficient than trucks
  - Can haul one ton of freight 456 miles on one gallon of fuel



# **Positive Train Control (PTC) Status Overview**



- Approximately \$2.3 Billion Invested through December 2016
- Total Estimated Investment ~ \$2.9 Billion
- Field Testing since October 2013
- New Deadline: December 31, 2018
  - DOT Secretary has Option to Further Extend Deadline an Additional 2 Years
- Anticipate PTC Depreciation Expense to Increase from \$130 Million in 2017, to \$150 Million in Out Years, Post Implementation
- Remaining OE Line Items Expected to Increase
   \$150 \$200 Million Once Fully Implemented



# **Pioneering Innovation**Big "I", Little "i", The Internet of Things





#### **Mobile Work Order**

- **Real-Time Work Event Reporting**
- **Provides More Shipment Visibility** and Improves Local Service



## **UP GO**

- **Mobile Technology to Pre-**Validate Gate Information
- **Reduces Driver Gate Time**
- **Improves Ramp Inventory** Location Accuracy



#### **Hand Held Ultrasound**

**Detects Subsurface Cracks in Wheel Tread Using Ultrasound** 



## **Machine Vision**

- High Resolution Images and Alert Generation
- 50,000 Images per Second vs 4 Hour Manual **Inspection Process**

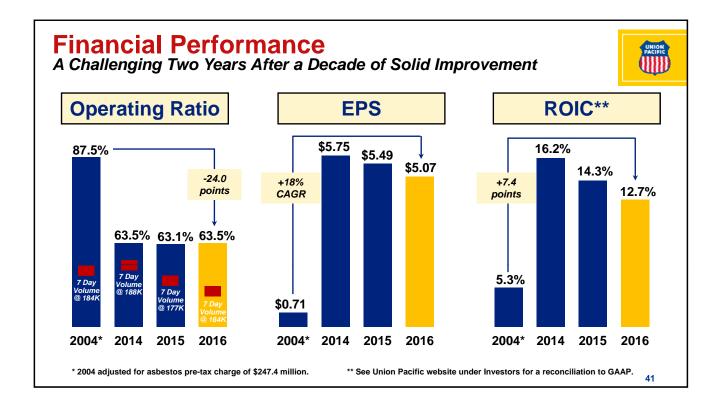
39

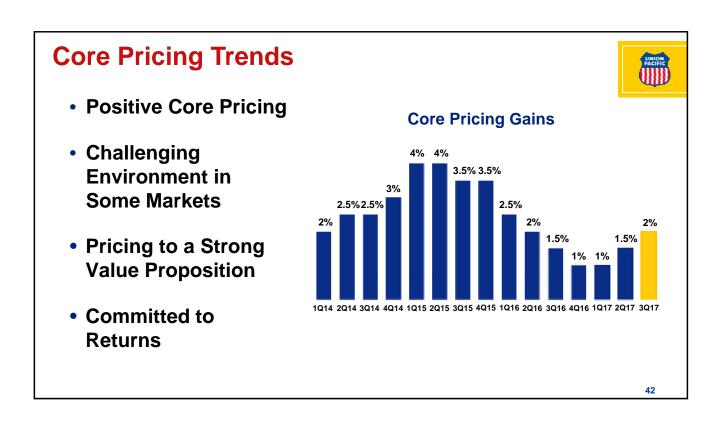




November 2017

**Financial Review** 

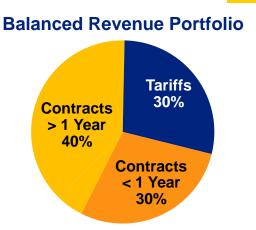




# **Pricing Fundamentals**

UNION

- Value is the Key to Future Price Improvement
- Balanced Portfolio Provides Flexibility for Repricing as Value Grows
- Solid Core Pricing

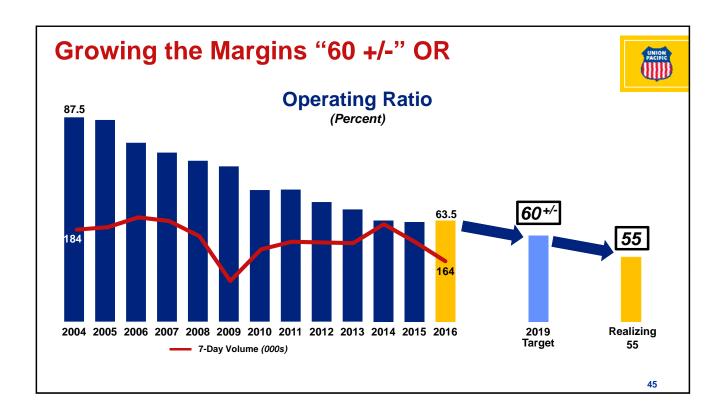


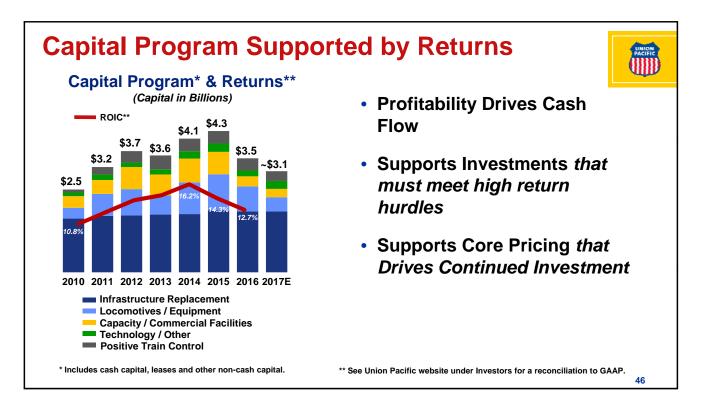
43

44

#### **Productivity Initiatives:** 2017 YTD Results (\$ in millions) TE&Y / Train length / Network and Intermodal & Premium Ops / Train Ops \$110 Joint facility \$90 \$70 Equipment Active fleet / Car repair / \$36 Equip rental costs (Loco and Car) \$15 \$53 \$47 Other Ops, Engineering / Fuel conservation / \$32 Admin / Supply Chain / Sourcing / Support, Safety performance Sourcing and 1Q17 2Q17 3Q17 Safety

2017 Full Year Productivity Target: \$350 - \$400 M





# **Optimizing the Balance Sheet**



## **Adjusted Debt / EBITDA\***

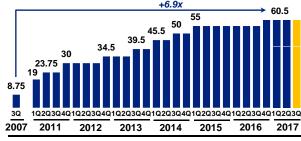


- Investment Grade Credit Rating
- Increased Adj. Debt ~\$6.7 Billion since 2013

# **Delivering Value to Shareholders**







- Dividend Payout Target of 40% to 45%
- 10% Dividend Increase Announced in November 2016

#### Cash Returned to Shareholders\* (Share Repurchases & Dividends, \$ In Billions)



- Returned ~\$23.6 Billion of Cash to Shareholders since 2013
  - Averaged 68% of Total Cash **From Operations**

\*As of September 30, 2017

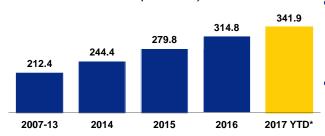
48

<sup>\*</sup>See Union Pacific website under Investors for a reconciliation to GAAP. \*\* Prior periods have been adjusted for the retrospective adoption of Accounting Standard Update 2015-03.





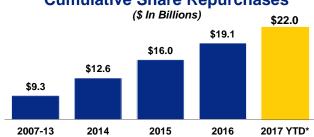




 Repurchased ~32% of Shares since 2007

Continue Opportunistic Approach

## **Cumulative Share Repurchases**



- Share Repurchase Program
  - Four Years Beginning January 1, 2017
  - 120 Million Shares
  - Prior Program Expired December 31, 2016

\*As of September 30, 2017

49

# **Closing Out 2017**



- 4Q Volume Slightly Positive
- Full Year Volume Up Low Single Digits
- Continued Focus on "G55 + 0" Initiatives



**Improved OR in 2017** 

50

## **Growing Shareholder Value KEY DRIVERS** $2017 \rightarrow 2019$ **Moderate Economy** ★ Positive Volume Growth **Diverse Franchise Opportunities** Strong Value Proposition - Reinvestability ★ Real Core Price Gains ★ Operating Ratio 60%+/-Volume + Pricing + Productivity **Replacement & Productivity** CapEx likely closer to 15% of **Growth with High Returns** revenue **Increasing Cash Generation** ★ Dividend Payout Target of 40% - 45% Adjusted Debt / EBITDA < 2X **★** Opportunistic Share Repurchases **Strong Investment Grade** 51

# **Cautionary Information**



This presentation and related materials contain statements about the Company's future that are not statements of historical fact, including specifically the statements regarding the Company's expectations with respect to economic conditions; its ability to generate financial returns, improve resource productivity and use innovation to enhance customer experience; implementing corporate strategies; and providing excellent service to its customers and returns to its shareholders. These statements are, or will be, forward-looking statements as defined by the Securities Act of 1933 and the Securities Exchange Act of 1934. Forward-looking statements also generally include, without limitation, information or statements regarding: projections, predictions, expectations, estimates or forecasts as to the Company's and its subsidiaries' business, financial, and operational results, and future economic performance; and management's beliefs, expectations, goals, and objectives and other similar expressions concerning matters that are not historical facts.

Forward-looking statements should not be read as a guarantee of future performance or results, and will not necessarily be accurate indications of the times that, or by which, such performance or results will be achieved. Forward-looking information, including expectations regarding operational and financial improvements and the Company's future performance or results are subject to risks and uncertainties that could cause actual performance or results to differ materially from those expressed in the statement. Important factors, including risk factors, could affect the Company's and its subsidiaries' future results and could cause those results or other outcomes to differ materially from those expressed or implied in the forward-looking statements. Information regarding risk factors and other cautionary information are available in the Company's Annual Report on Form 10-K for 2016, which was filed with the SEC on February 3, 2017. The Company updates information regarding risk factors if circumstances require such updates in its periodic reports on Form 10-Q and its subsequent Annual Reports on Form 10-K (or such other reports that may be filed with the SEC).

Forward-looking statements speak only as of, and are based only upon information available on, the date the statements were made. The Company assumes no obligation to update forward-looking information to reflect actual results, changes in assumptions or changes in other factors affecting forward-looking information. If the Company does update one or more forward-looking statements, no inference should be drawn that the Company will make additional updates with respect thereto or with respect to other forward-looking statements. References to our website are provided for convenience and, therefore, information on or available through the website is not, and should not be deemed to be, incorporated by reference herein.