

# Recent Developments in the Manufacturing and Transportation Industries

Presentation to the St. Louis Regional Freightway Industry Forum & Luncheon

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#### Disclaimer

The views I will express today are my own and do not necessarily reflect the positions of the Federal Reserve Bank of St. Louis or the Federal Reserve System.

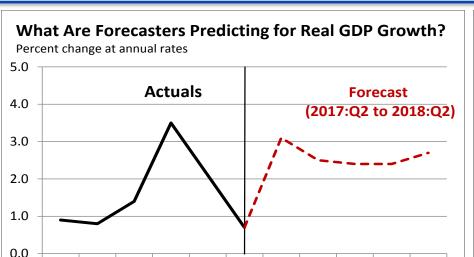
#### The Big Picture (Macro Stuff)

- A weak first quarter, but few economists are sounding the recession alarm.
- Labor market conditions remain solid and manufacturing activity appears to be picking up.
- Inflation remains near the Fed's 2% target.
- Many Fed policymakers see two additional rate hikes in 2017, but markets are less sure.
- The St. Louis economy is strengthening, but at an uneven pace.

#### The Economic Outlook

- We should mostly ignore the weak Q1 signal; U.S. and global growth appears to be strengthening.
- Business surveys indicate an increasing percentage of U.S. firms are planning to boost capital spending. Construction activity still rising; exports solid.
- Oil prices may trend higher with faster global growth, but crude oil output is rising.
- A vibrant start-up environment bodes well for the St. Louis economy longer term.

#### The Consensus Forecast: U.S.



2017:Q2

2017:Q4

2018:Q2

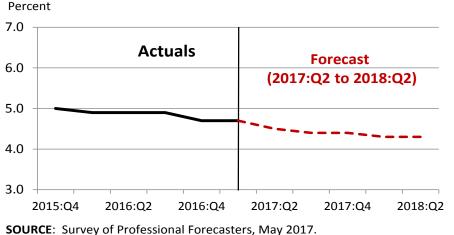
**SOURCE**: Survey of Professional Forecasters, May 2017.

2016:Q4

2016:Q2

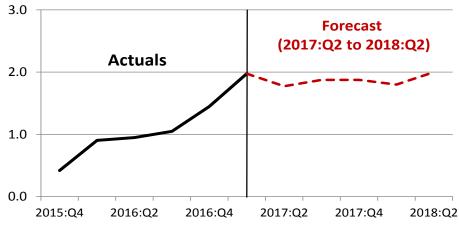
2015:Q4

#### What Are Forecasters Predicting for the Unemployment Rate?





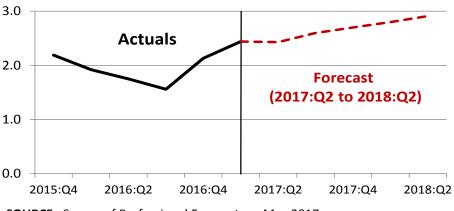




SOURCE: Survey of Professional Forecasters, May 2017.

#### What Are Forecasters Predicting for 10-Year Interest Rates?

Percent, at annual rates

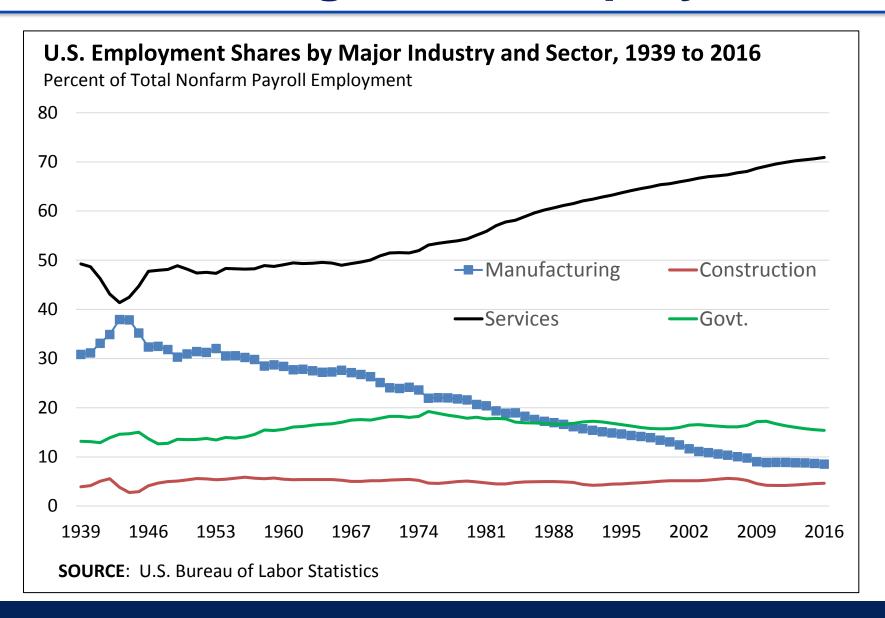


**SOURCE**: Survey of Professional Forecasters, May 2017.

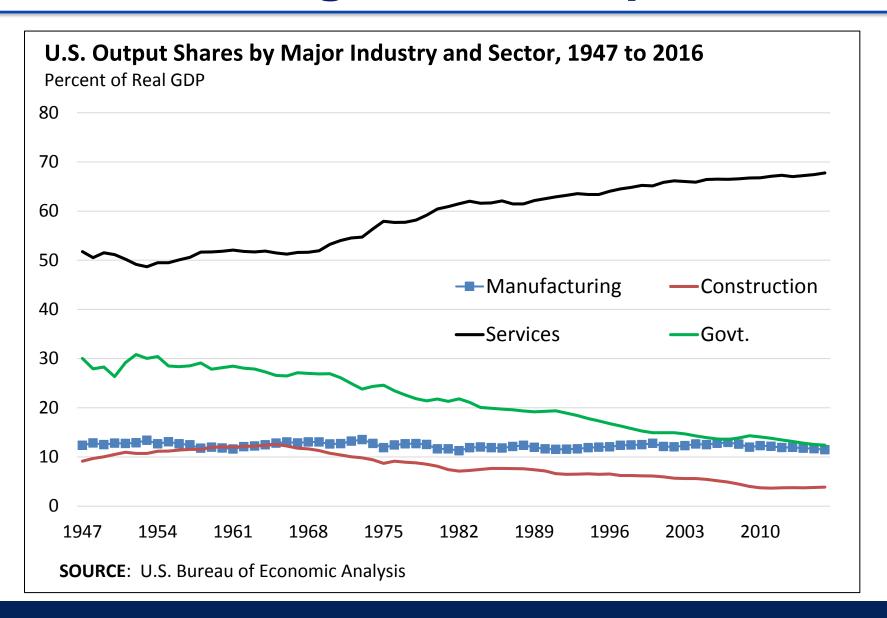
#### **Manufacturing Facts**

- Manufacturing output is volatile—sensitive to changes in U.S. and world economic conditions.
- But U.S. manufacturing benefits more from stronger U.S. real GDP growth than foreign growth.
- Changes in the value of the dollar have modest effects on exports of manufactured goods.
- Manufacturers benefit from imports of intermediate materials that reduce their costs, which raises productivity and profits and wages.

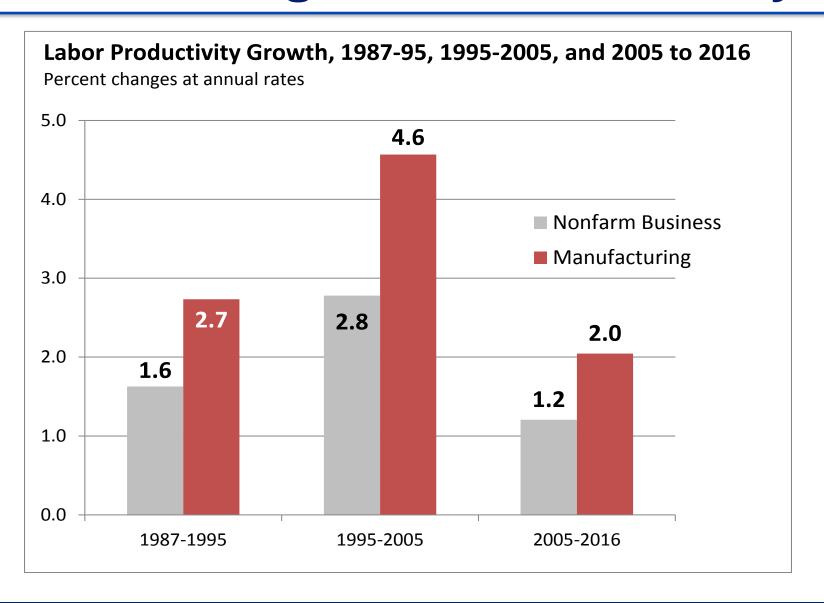
#### **Manufacturing Facts: Employment**



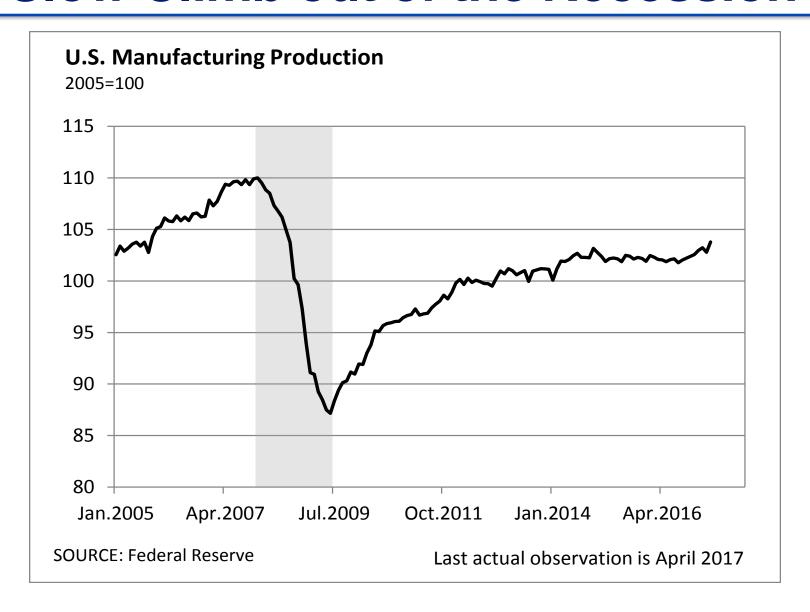
#### **Manufacturing Facts: Output**



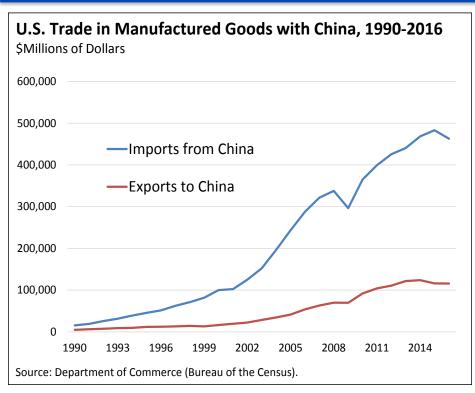
#### **Manufacturing Facts: Productivity**

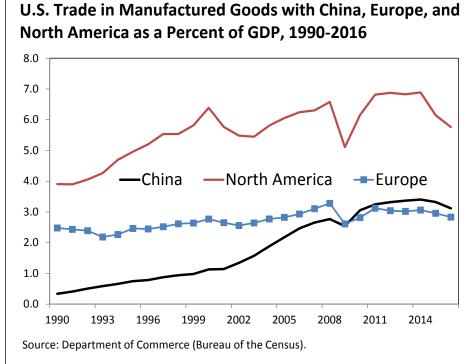


#### A Slow Climb out of the Recession



#### **World Trade has Slowed**

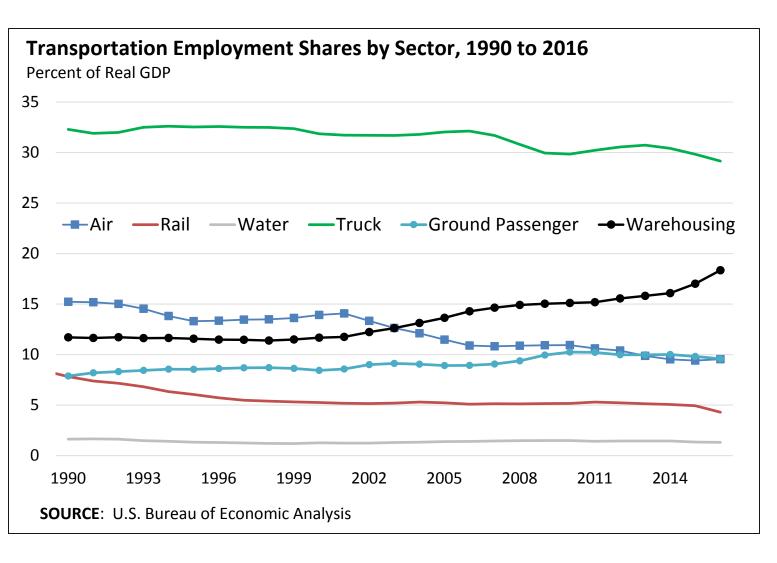




#### **Transportation Facts**

- Transportation is the movement of people and goods from one place to another. Mostly domestic.
- Tends to be an energy-intensive enterprise, so changes in energy prices matter.
- Also sensitive to U.S. manufacturing—moving goods from factory to distributor to retailer.
- Sensitive to consumer demand as well.
- Technology is re-shaping the industry.

#### **Transportation Facts: Employment**

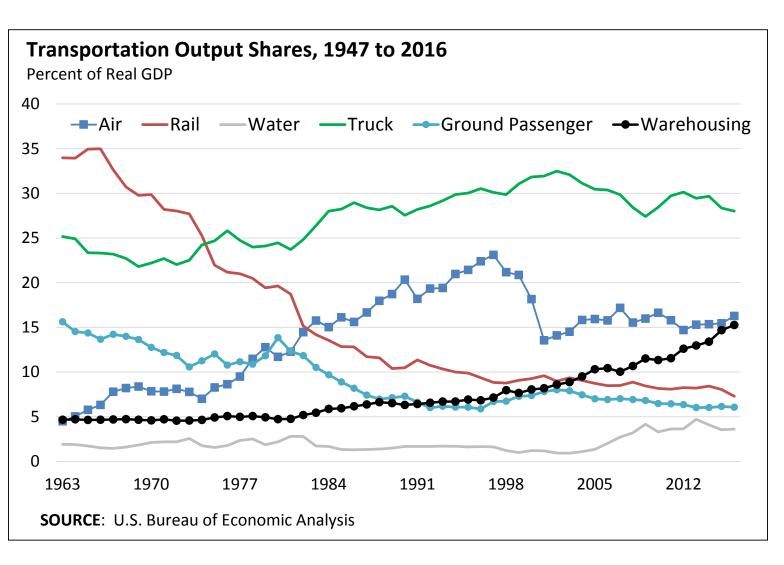


Total Transp.
Employment
as a Percent
of Total
Employment:

1990: 3.6%

2017: 3.5%

#### **Transportation Facts: Output**

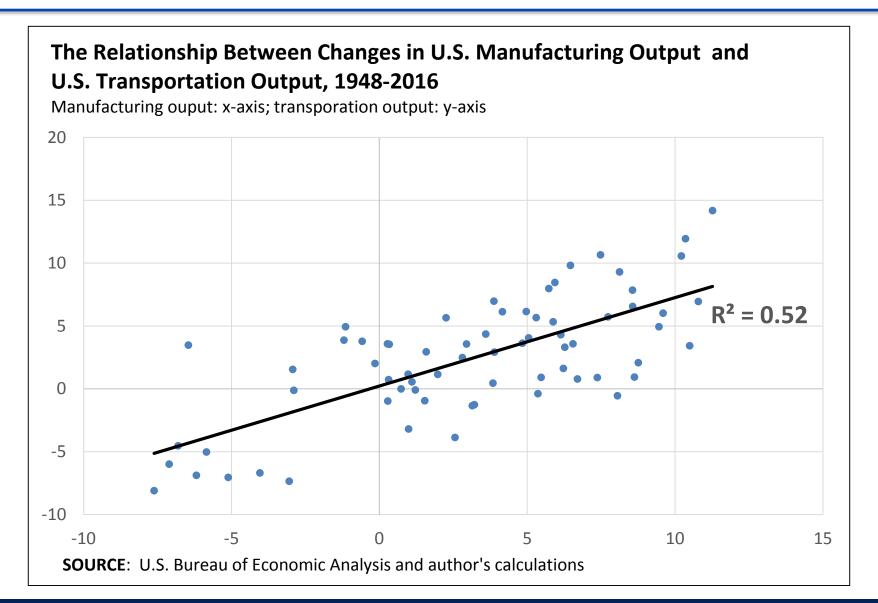


Total Transp.
Output as a
Percent of
GDP:

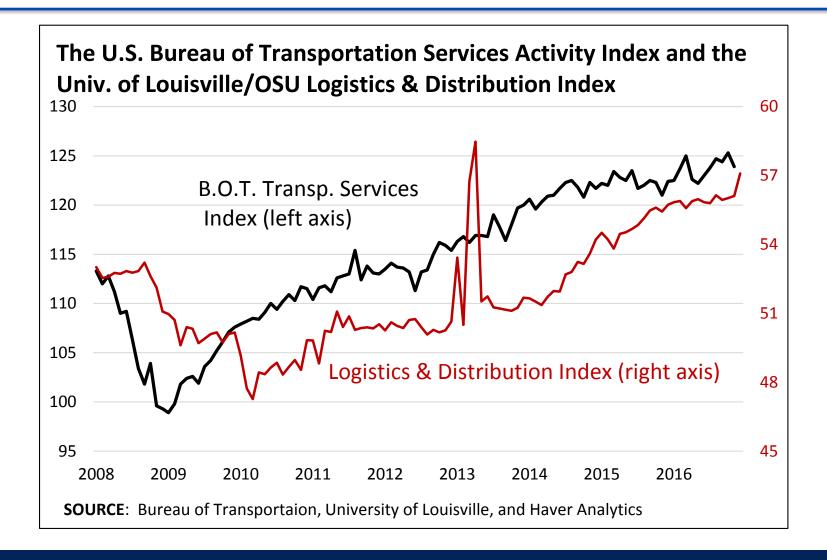
1947: 4.7%

2017: 2.7%

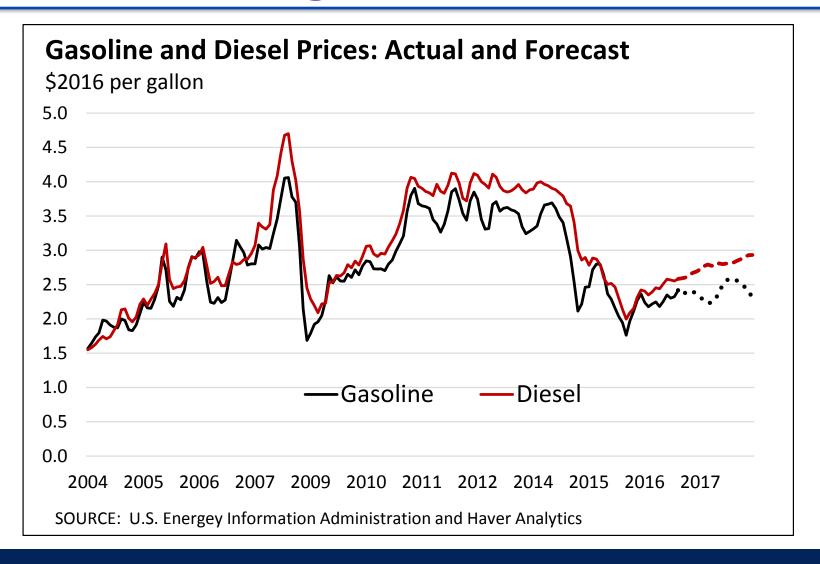
#### **Transportation Facts: Linkages**



### Transportation Services Activity Continues to Increase



### **Energy Prices Expected to Remain Low According to Govt. Forecasts**



#### St. Louis and the Global Economy

- St. Louis is insulated from U.S. and global developments to some extent.
- The demand for services and housing are heavily influenced by the strength of the local economy.
- But even here, interest rates and energy prices are determined in national and global markets.
- Many St. Louis companies compete in global markets for goods and labor.
- Big events like recessions affect local economies.

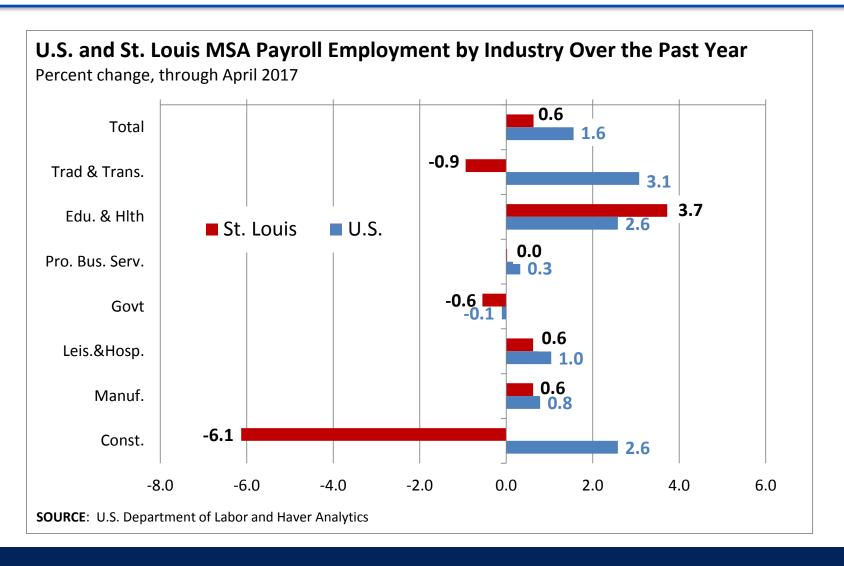
#### St. Louis Facts

- "St. Louis" refers to the Metropolitan Statistical Area (MSA), a 14-county area of Illinois and Missouri surrounding the city of St. Louis.
- The St. Louis MSA's labor force is currently about 1.5 million; population is about 2.8 million.
- In 2015, household median income in the St. Louis MSA was about \$56,500; it was \$55,800 for the United States.

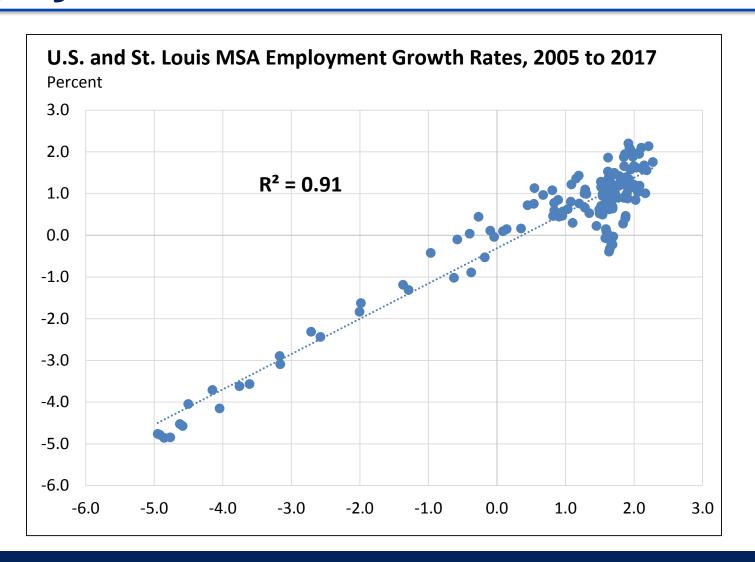
#### St. Louis Facts (Continued)

- St. Louis' largest three industries in terms of <u>total</u> employment in 2016:
  - 1. Trade, transportation, and utilities (18.7%)
  - 2. Education and health (18.1%)
  - 3. Professional business services (15.5%)
- Manufacturing comprised 8.4% of employment.
- Employment shares since 1990:
  - Less trade and transportation and manufacturing;
  - More PBS and education & health.

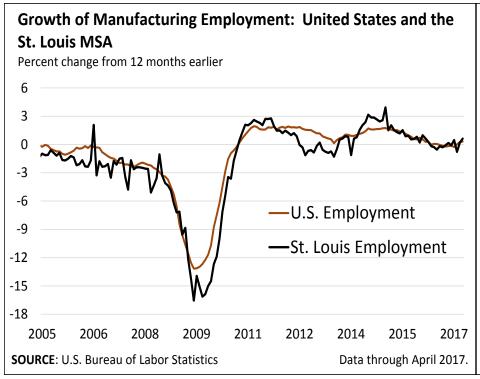
### St. Louis' Employment Growth has slowed relative to the Nation.

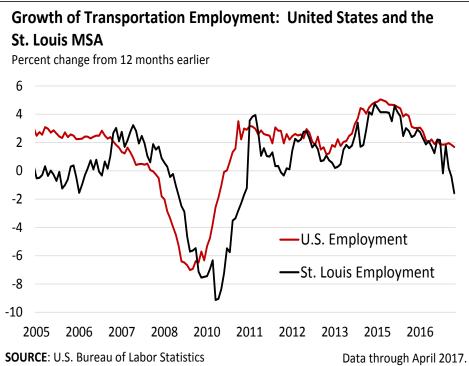


### But St. Louis' Employment Growth is Highly Correlated with the Nation.



### Manufacturing and Transportation Services Employment: US vs. StL

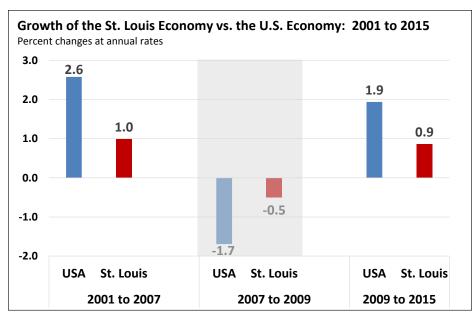


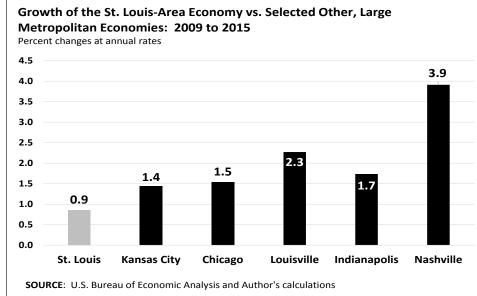


Manufacturing

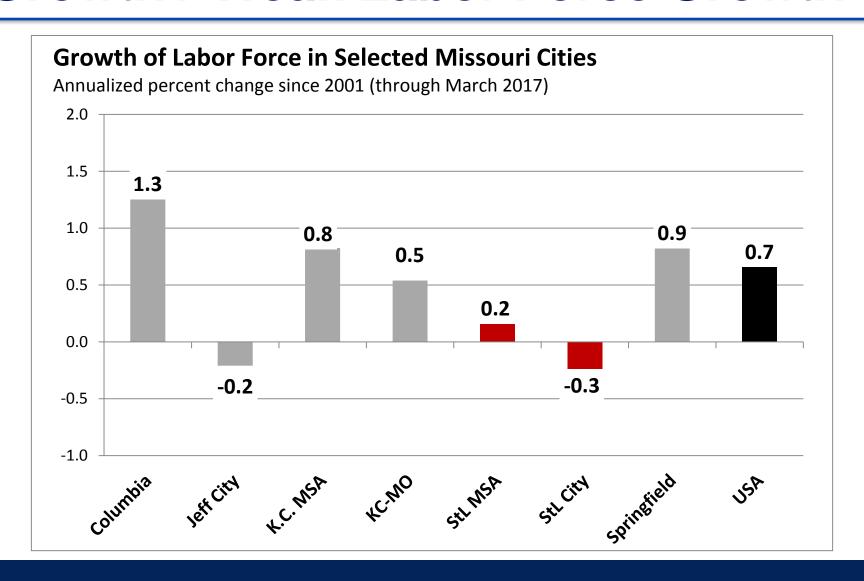
**Transportation** 

### St. Louis' Economic Growth: Trailing the Nation and Other Large MSAs.

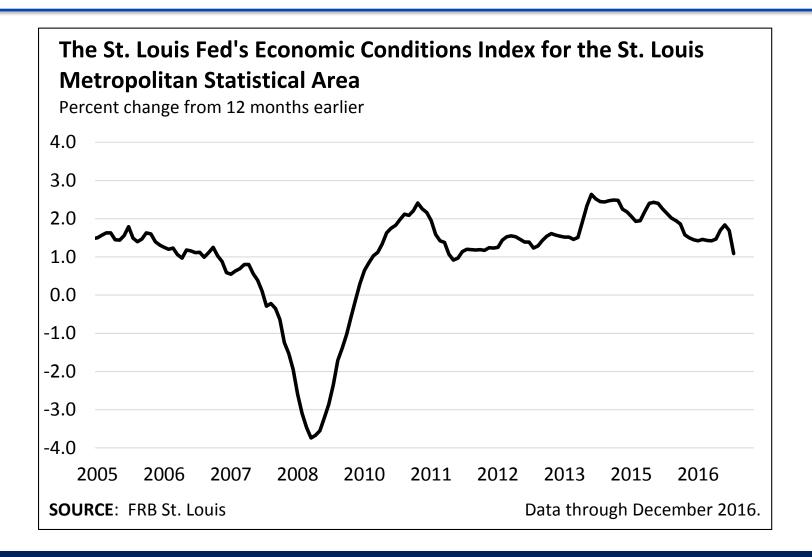




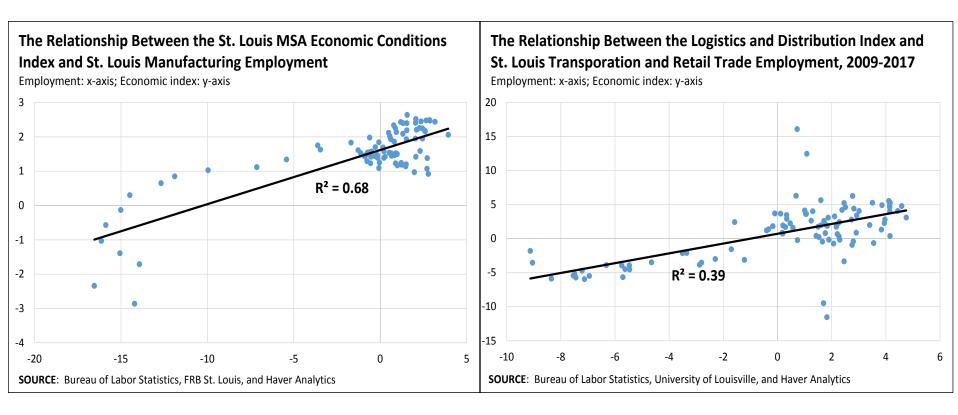
### A Key Reason for Weak Economic Growth? Weak Labor Force Growth.



### The St. Louis Fed's Economic Conditions Index



## Manufacturing and Transportation Services Employment: US vs. StL



Manufacturing

**Transportation** 

#### St. Louis: Green Shoots

- St. Louis economy has been growing slower than the nation's economy for quite some time. A key reason has been weak labor force growth.
- Housing and commercial construction have been a source of strength for the U.S. economy, but this is a relatively small part of the St. Louis economy.
- A "booming" entrepreneurial sector could portend stronger <u>future</u> growth.

### **QUESTIONS**



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