

# THE FUTURE OF U.S. SKILLED LABOR

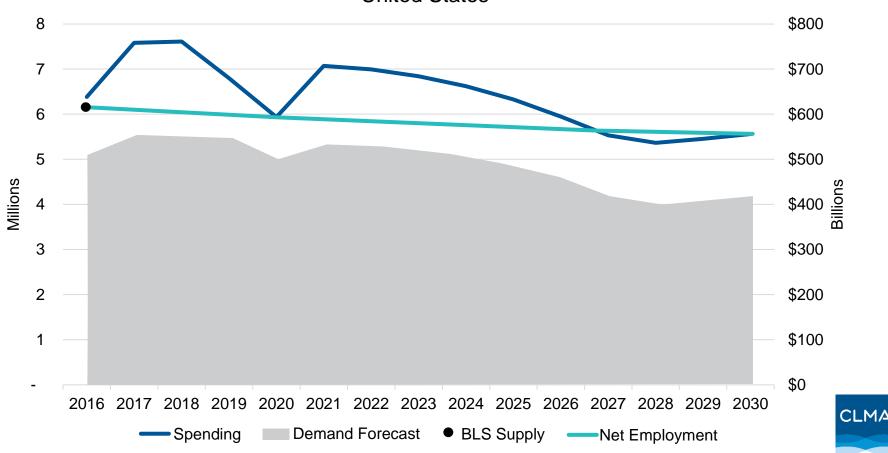
Daniel Groves, CLMA/CURT

### LABOR GAP OUTLOOK



### **Supply & Demand**

**United States** 



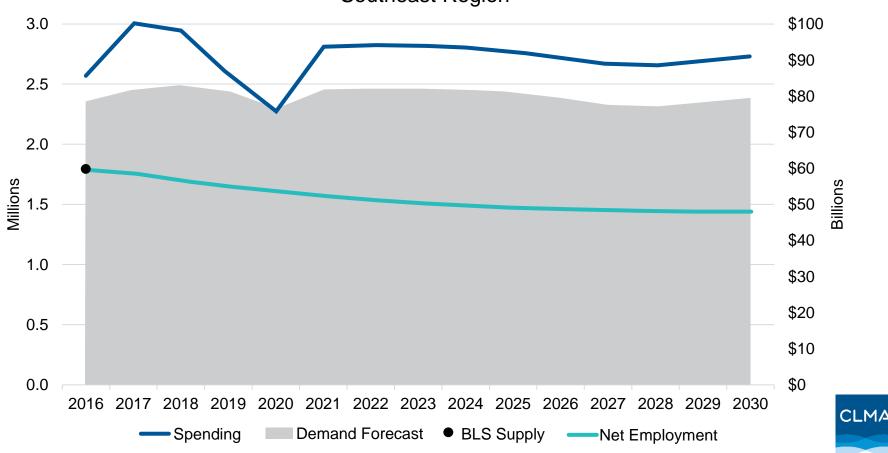
Data represents all non-residential construction

## LABOR GAP OUTLOOK



### **Supply & Demand**

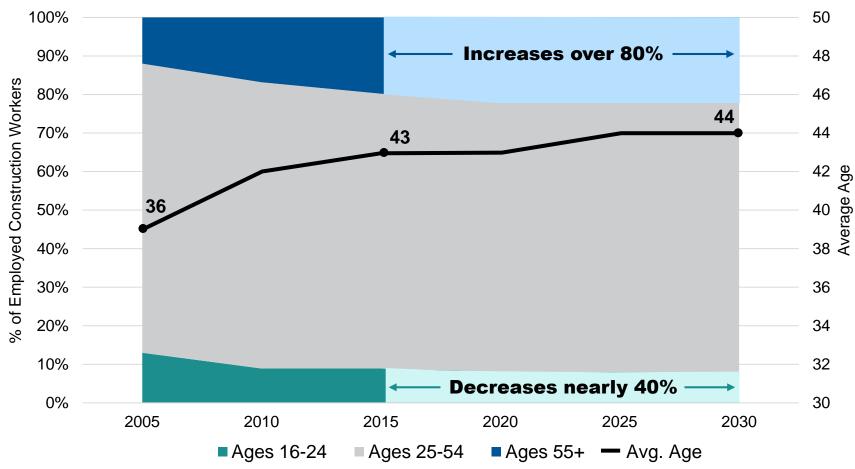
Southeast Region



Data represents all non-residential construction

### **CRAFT WORKER DEMOGRAPHICS**

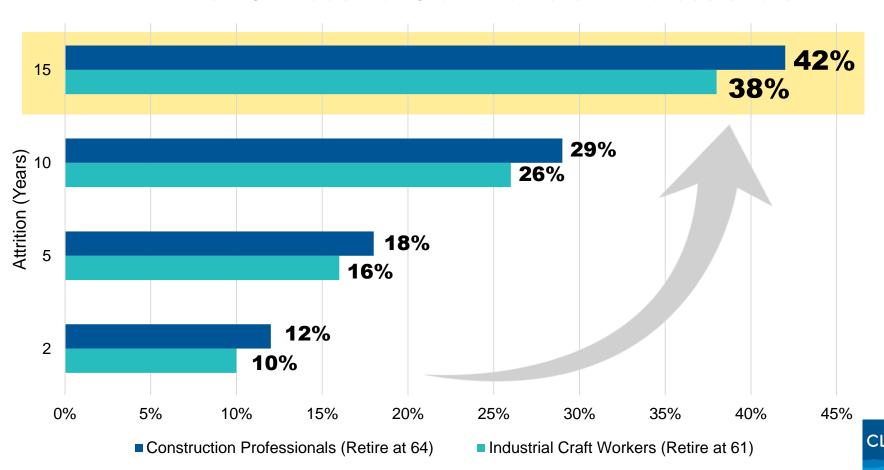
#### **Age Distribution of Employed Construction Workers**





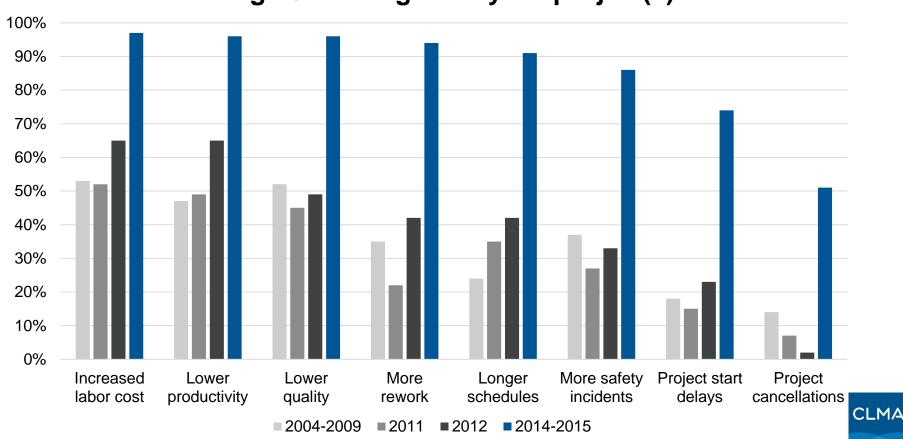
### **PROJECTED ATTRITION**

#### **Attrition Of Industrial Craft Workers & Professionals**



### LABOR SHORTAGE CHALLENGES

What was the impact of the skilled labor shortages/challenges on your project(s)?



# LABOR SHORTAGE IMPACT ON PROJECTS

# Is there a demographic craft labor cliff that will affect project performance?

CII RT 318, Aug 2015

CRAFT LABOR STAFFING DIFFICULTY	AVERAGE COST CHANGE	AVERAGE SCHEDULE CHANGE	OSHA RECORDABLE INCIDENT CASES (PER 200,000 HOURS)
Moderate - Severe	<b>17.3 %</b> (8.4%, 26.2%)	<b>22.5%</b> (11.5%, 33.4%)	<b>0.94</b> (0, 2.84)
Slight	<b>3.2 %</b> (-0.9%, 7.3%)	<b>12.8 %</b> (7.7%, 17.9%)	<b>0.43</b> (0, 1.72)
No Difficulty	<b>-6.2 %</b> (-10.7%, -1.8%)	<b>6.4 %</b> (1%, 11.8%)	<b>0.26</b> (0, 1.25)



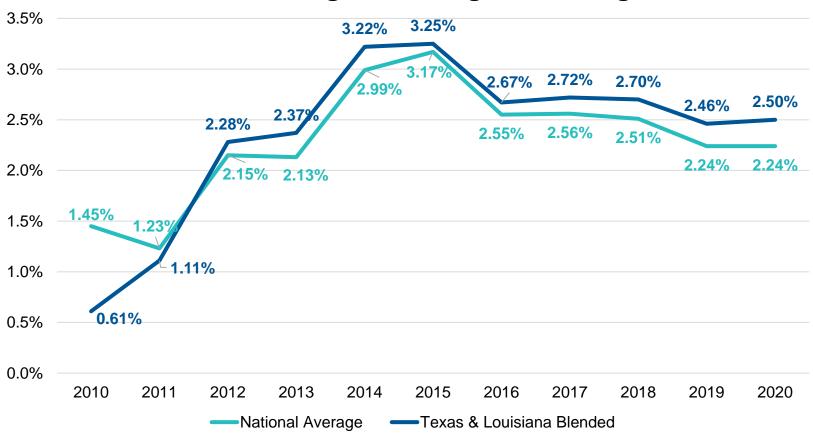






# **CRAFT WAGES & OPPORTUNITIES**

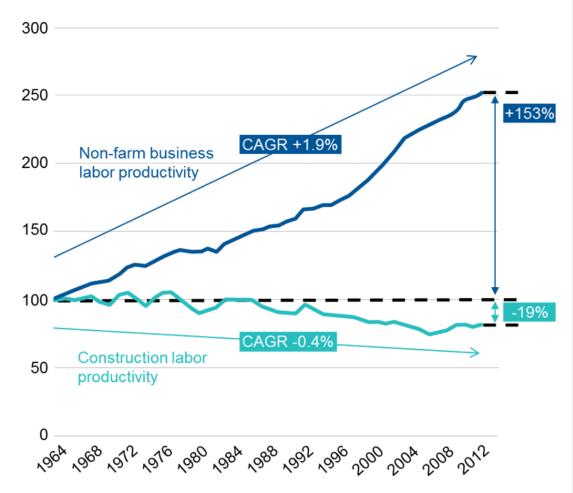
#### **Annual Change in Average Base Wages**





Disclaimer: The wage rates shown on this slide are blended forecasts based on multiple job skills and should not be used by individual facilities to predict future wages for a specific job category.

# PRODUCTIVITY PERFORMANCE



Source: Global Vantage, Compustat, Bloomberg, National Bureau of Economic Research, BCG analysis

1% increase
in productivity
(construction cost reduction)
saves an estimated

\$100B Globally \$7B U.S.

## PRODUCTIVITY IMPROVEMENT

- 1 Attract & retain skilled talent
  - 2 Embrace "lean" construction principles
    - 3 Early project planning
  - 4 Optimized design & construction process
- 5 Increase pace of innovation adoption

# WORKFORCE INVESTMENT ROI



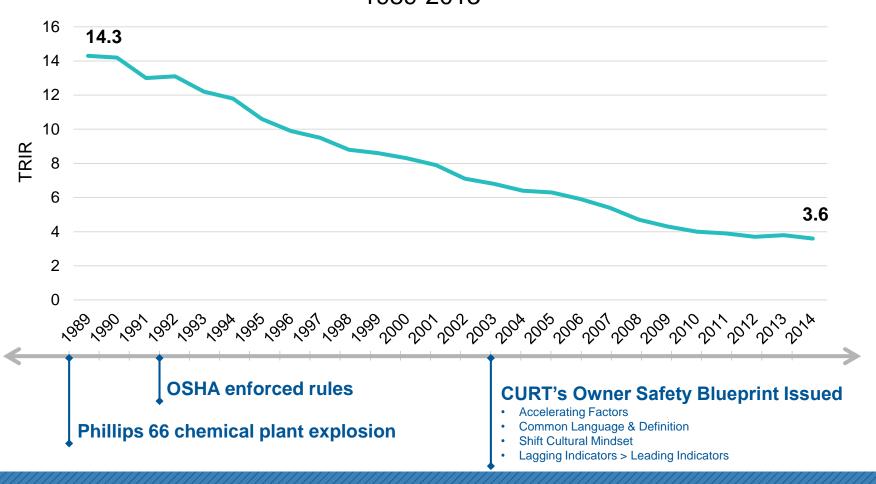
Research demonstrated high value by investing 1.0% of the total project labor budget in workforce development

CII RT 231 SUMMARY	AVERAGE IMPROVEMENT		
OII IXI 231 SOWIMAIXI	Capital Projects	Maintenance Projects	
Productivity	11 %	10 %	
Turnover Cost	14 %	14 %	
Absenteeism	15 %	15 %	
Injury	26 %	27 %	
Rework	23 %	26 %	

\$1.00 invested ≈ \$3.00 ROI

# **OWNERS' SAFETY TRAJECTORY IMPACT**

# Industry Average Total Recordable Incidence Rate 1989-2013



### **OWNERS' WORKFORCE RECOMMENDATION**



Construction Cost Effectiveness Task Force

Confronting the Skilled Construction Work Force Shortage

A Blueprint for the Future

October 1997

The Business Roundtable
An Association of Chief Executive Officers Committed to Improving Public Policy

"Owners should only do business with contractors who invest in training and maintain the skills of their workforce."

# WHY SHOULD YOU CARE?

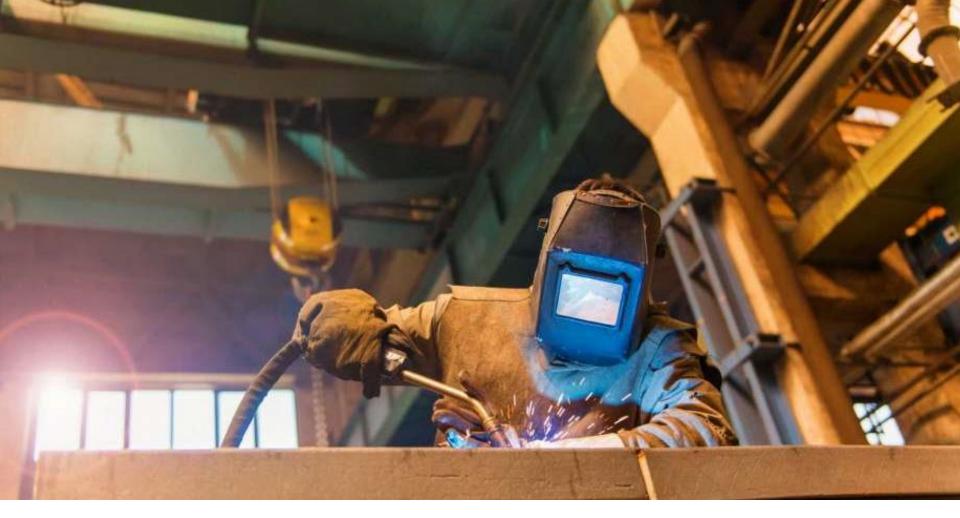






# SUMMARY

- Robust construction activity expected even with economic turbulence
- Labor shortages will impact projects
- Industry solutions available, but owners must lead
- How & why should you respond?





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