

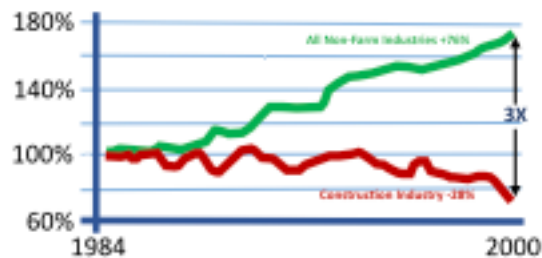
# Opportunities for Productivity Improvement

Improving Quality, without compromising Costs

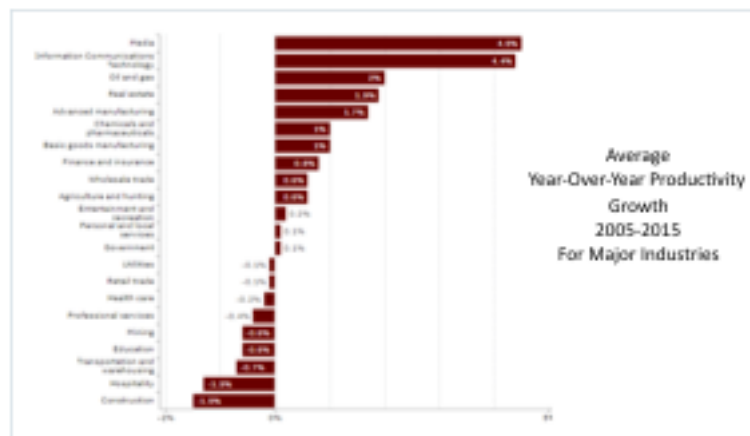
## Construction Instruction's Commitment for Continual Improvement



## Labor Productivity Index



Source: U.S. Bureau of Labor Statistics, U.S. Dept. of Commerce



Average  
Year-Over-Year Productivity  
Growth  
2005-2015  
For Major Industries

" We Cannot Solve a Problem By Using  
the Same Kind of Thinking we Used  
When we Created Them."

Albert Einstein



1877: Wood frame house in Omaha, NE



2017: Typical Wood Frame Structure

We have room to  
move forward in  
our strive for  
increased  
productivity



Hey...your new car  
was just delivered!



### Frank Gilbreth

- ▶ Brick layer
- ▶ Industrial Engineer

"Cheaper by the Dozen"

Tripled the labor productivity of the brick  
laying industry



## Industrial Engineering Principles

There is:  
Get Ready Work  
Real Work  
Re-work



*The goal is to get rid of  
two of those three*



Can we use building science to increase productivity



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