







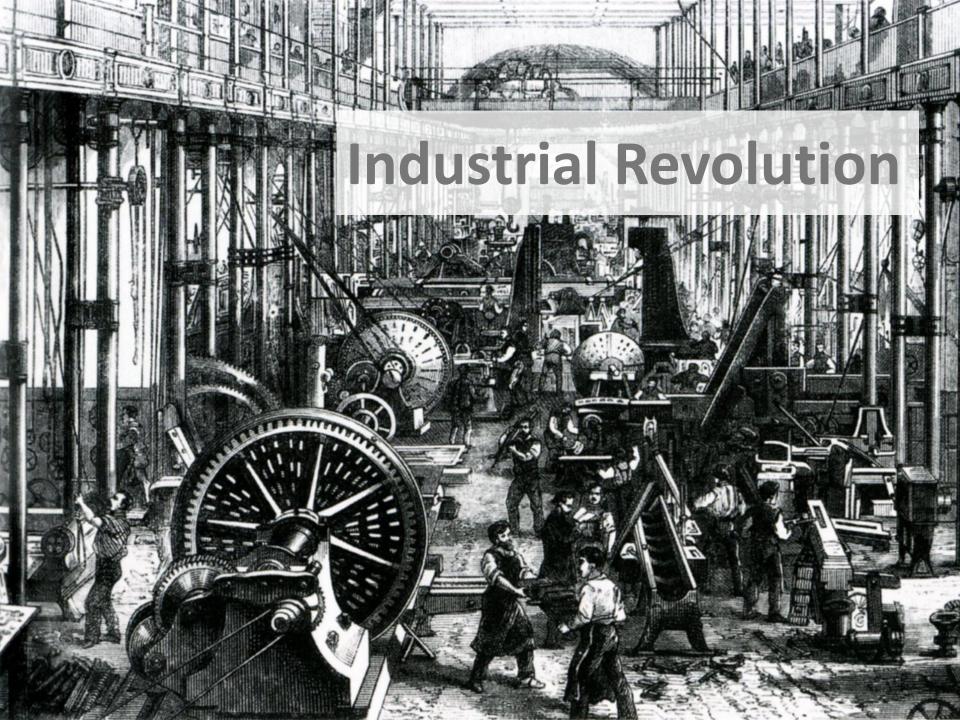


Brock Commons, Vancouver, 17+1, 2016

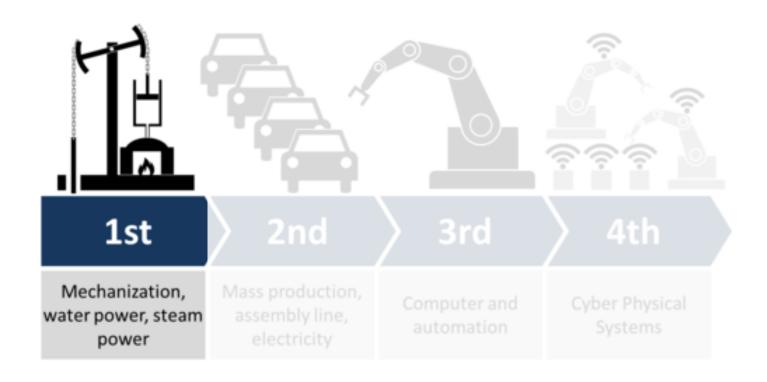


SPEED!

```
Efficiency
Viability
Quality
Sustainability
```

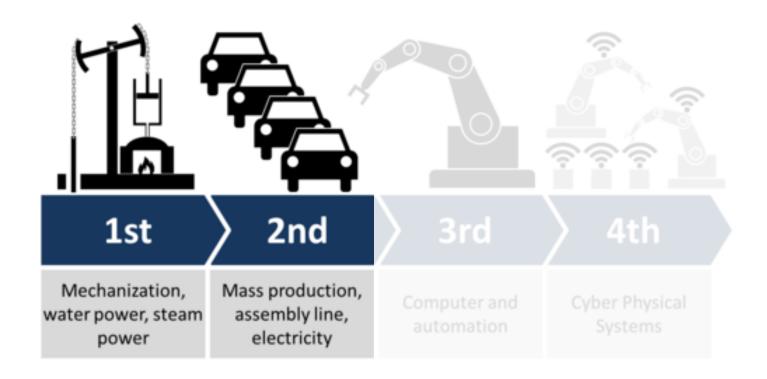


1st Industrial Revolution



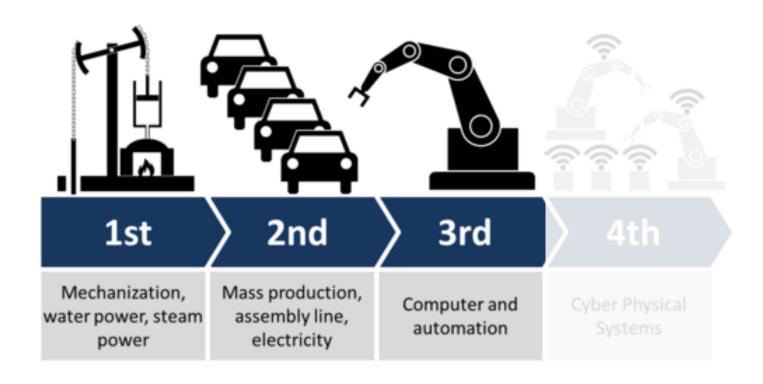
Graphic: Wikipedia

2nd Industrial Revolution





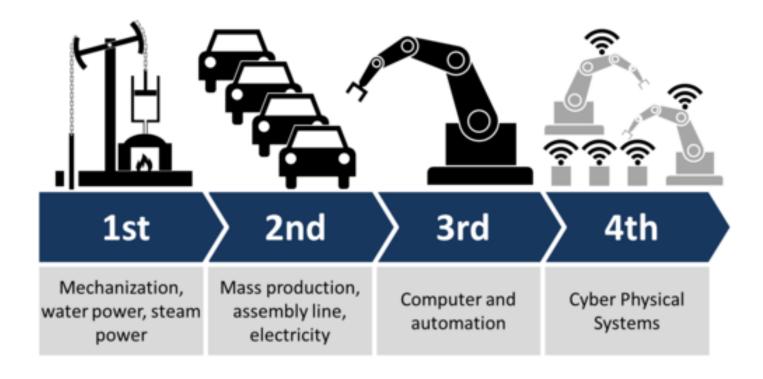
3rd Industrial Revolution



Graphic: Wikipedia



Industry 4.0



Graphic: Wikipedia











Shaping the Future of Construction A Breakthrough in Mindset and Technology

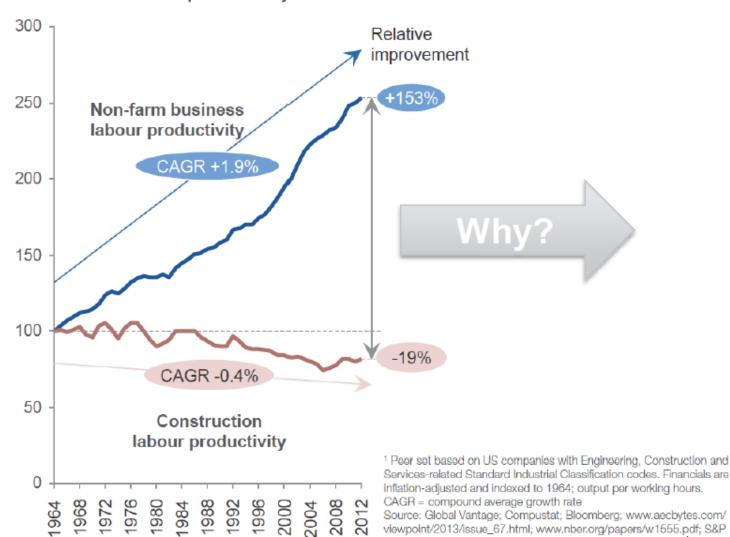
Prepared in collaboration with The Boston Consulting Group



Why is the construction industry performing so poorly? (in US)

Capital IQ; BCG ValueScience Center; World Economic Forum







Why is the construction industry performing so poorly?

- Lack of innovation and delayed adoption
- Informal processes or insufficient rigor and consistency in process execution
- Insufficient knowledge transfer from project to project
- Weak project monitoring
- Little cross functional cooperation
- Little collaboration with suppliers
- Conservative company culture
- Shortage of young talent and people development

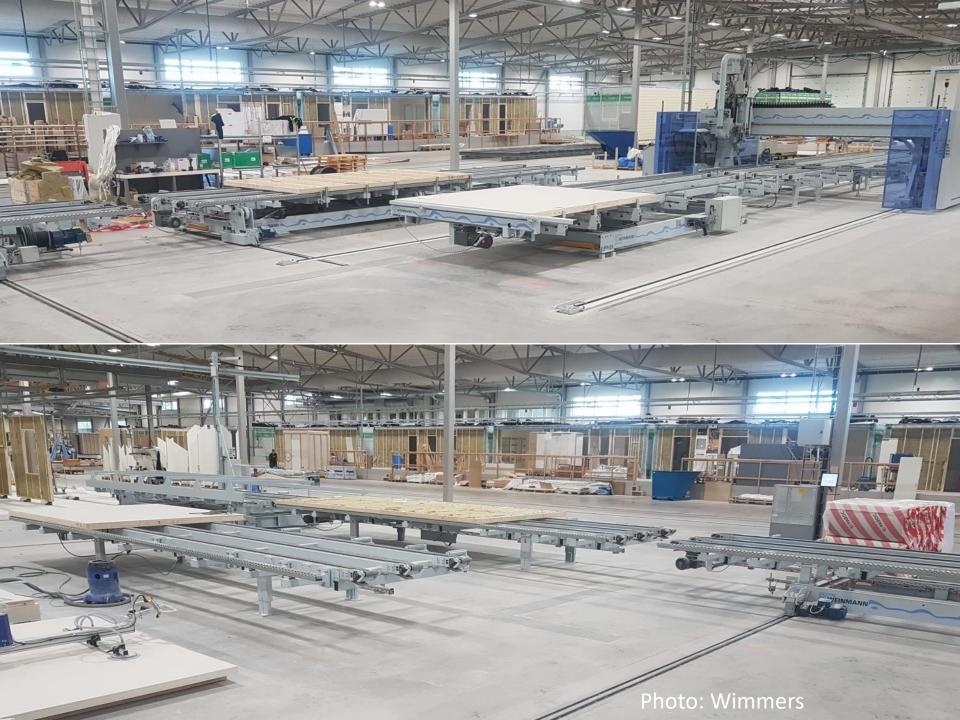




Photo: Wimmers



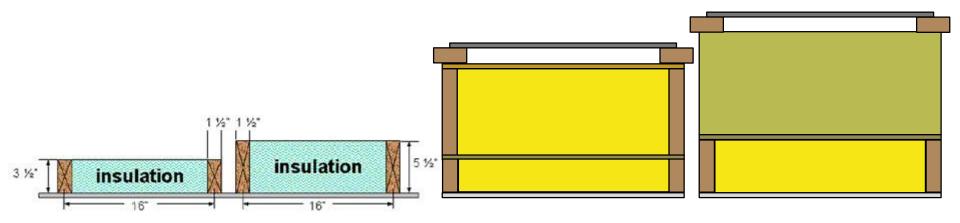








Energy Efficient = Thicker Walls



 Energy efficient does not equal sustainable but without energy efficiency no sustainability!

PATHWAY TO 2032: PART 9 (HOMES)



Dramatic shift in 5-10 years!

