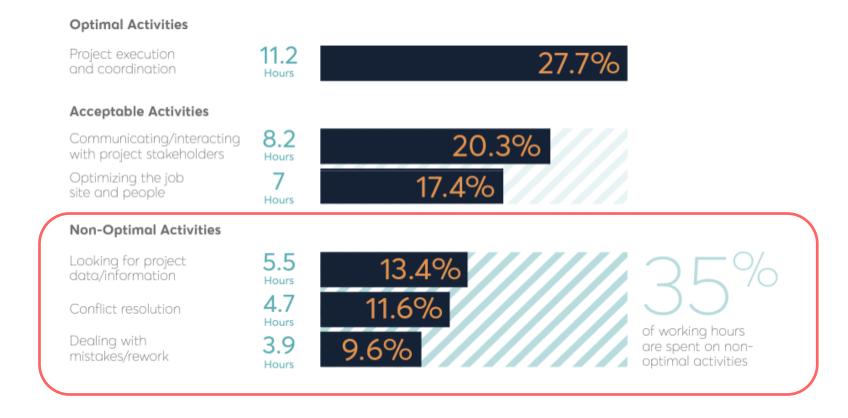
# CONNECTED CONSTRUCTION

IMPROVING VISIBILITY, COLLABORATION, PERFORMANCE, AND SAFETY FOR ALL PROJECT PARTICIPANTS





# Where construction teams spend and lose time

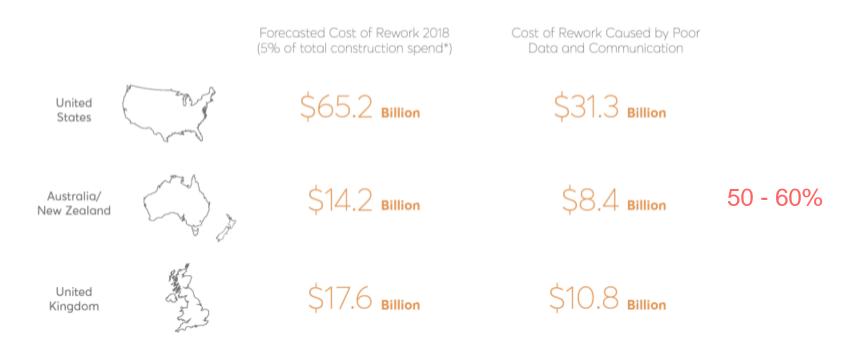


## Costs of non-productive construction labour activities

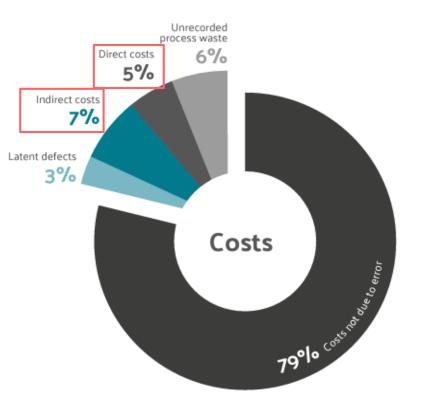




### Rework costs attributed to poor data



# True cost of error







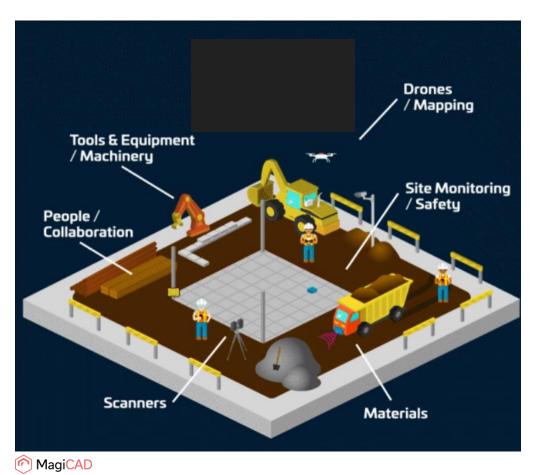


### **Connected Construction**

# An ecosystem of connected job sites, machines, and workers that enhances operational effectiveness and safety



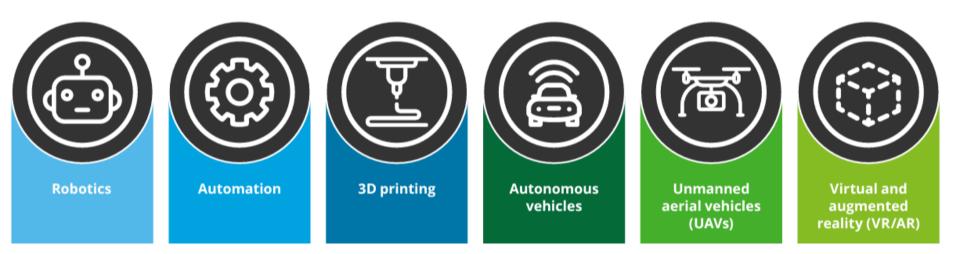
# **Connected Construction**



A dynamic, "always on" network providing a continuous flow of information and analytics

Source: Builtworlds

### Connected Construction – Technologies





# **Connected Construction - components**



### **Connected Construction - benefits**



#### DATA-BASED DECISION MAKING

- Informed decisions
- · Evaluation of methods
- · Accurate estimations and predictability



#### COOPERATION

- Enabling communication between participants
- Revealing and promoting collaboration possibilities



#### VISIBILITY

- · Real-time monitoring of project progress
- Transparency of processes



#### SAFETY

- · Ensuring safety on the construction site
- Addressing issues without delay

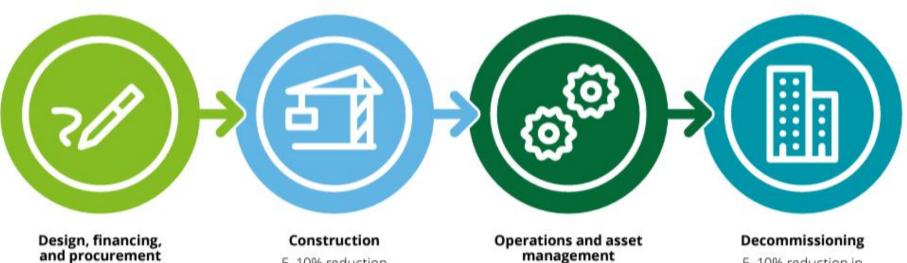


#### SCHEDULING AND PLANNING

- · Tracking materials and equipment
- Scheduling and planning according to performance



Connected Construction – unlock efficiencies throughout the project life cycle



10-30% reduction in engineering hours 5-10% reduction in build costs

# management

10-20% reduction in operating costs

5-10% reduction in decommissioning hours



### Connected Construction – Path to transition



# Think big

Develop vision for the "connected construction journey" of the organization based on long-term strategic priorities

# Start small

Develop solutions and demonstrate value on a smaller set of the overall scope

# Scale fast

Deploy and **scale validated** solutions across overall scope, and monitor closely for benefit reallization



Connected Construction – first steps

- Adopt 3D (BIM) solutions
- Switch from 'pen & paper' to 'digital'
  - Defects management
  - Sign off from clients
  - Checklists
  - Document management (central repository of documents)
    - access settings
    - version control
  - Project progress with evidence (photos) avoid client disputes

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A digital transition is not just a change in technology, it is also a change in mindset.



Thank You!

# **Animesh Sourabh**

MagiCAD

https://www.magicad.com/uk/construction-solutions/