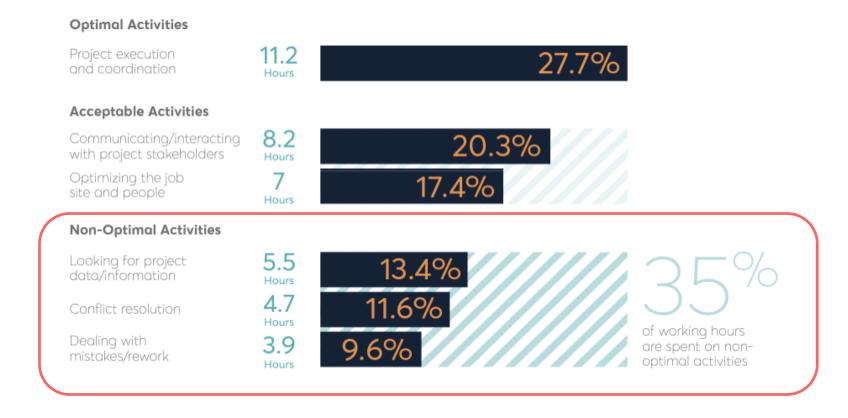
CONNECTED CONSTRUCTION

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





Where construction teams spend and lose time

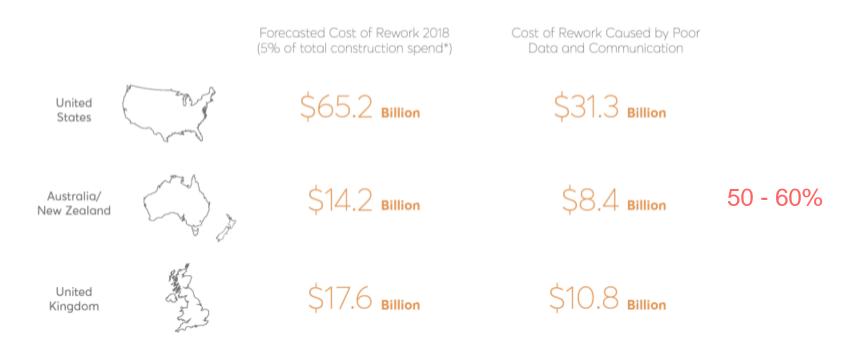


Costs of non-productive construction labour activities

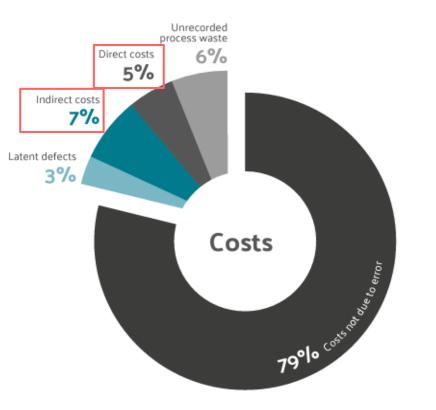




Rework costs attributed to poor data



True cost of error







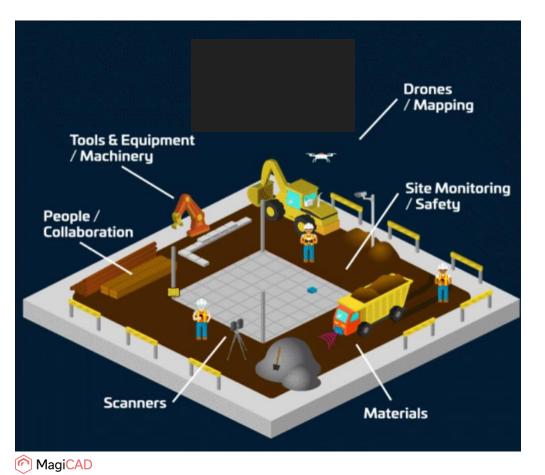


Connected Construction

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



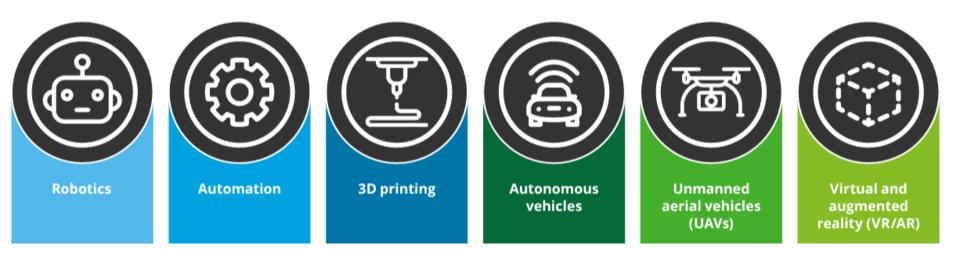
Connected Construction



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

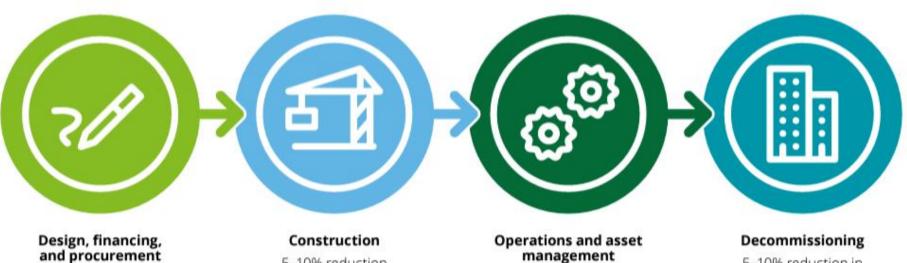


SCHEDULING AND PLANNING

- · 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/