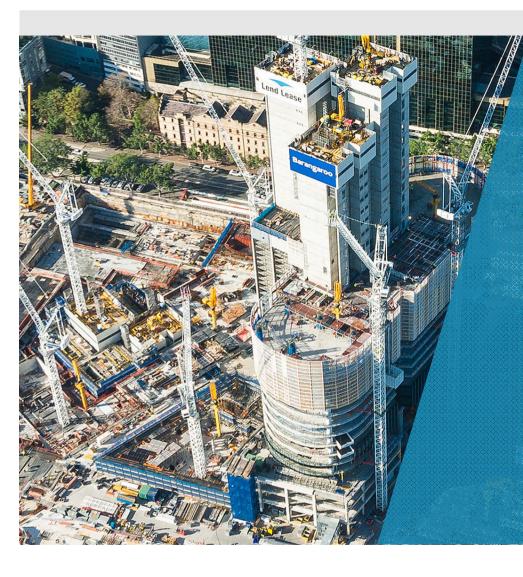
HxGN SMART Build



HxGN SMART Build

is pioneering a simple yet powerful platform that will improve profit margins and drive completion of projects safely, on time and on budget.





Challenges of Building SMART

No go-to solution:

Existing tools are inadequate and complex

Starting off on the wrong foot:

Base planning is model flawed / inaccurate

Missing the big picture:

Limited / no coordination during pre- construction phase

No instruction manual:

Inefficiencies from poor work package / planning

No feedback loop:

Lack of timely feedback from the field

Recipe for finger pointing:

Little or no accountability/responsibility



Isolated Silos of Information





















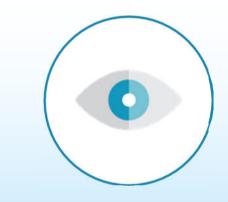








HxGN SMART Build



Clarity

Comprehensive role-based access to the entire project



Connectivity

Centralised information sharing via cloud-enabled private portal



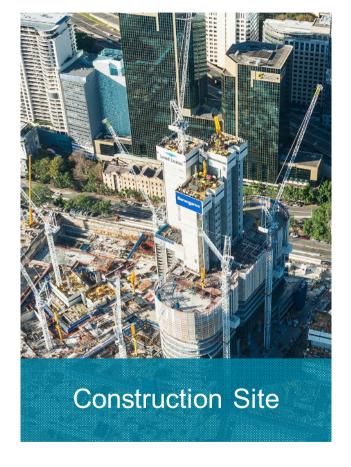
Simplicity

Ease of use and automation replace complexity

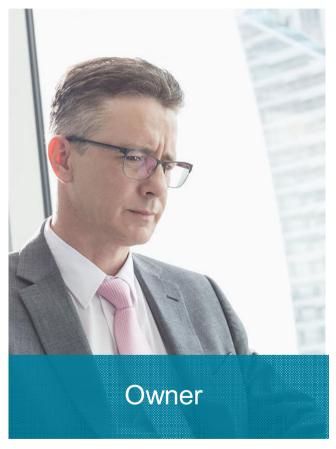
From the ground up



HxGN SMART Build: A Construction Enterprise Solution







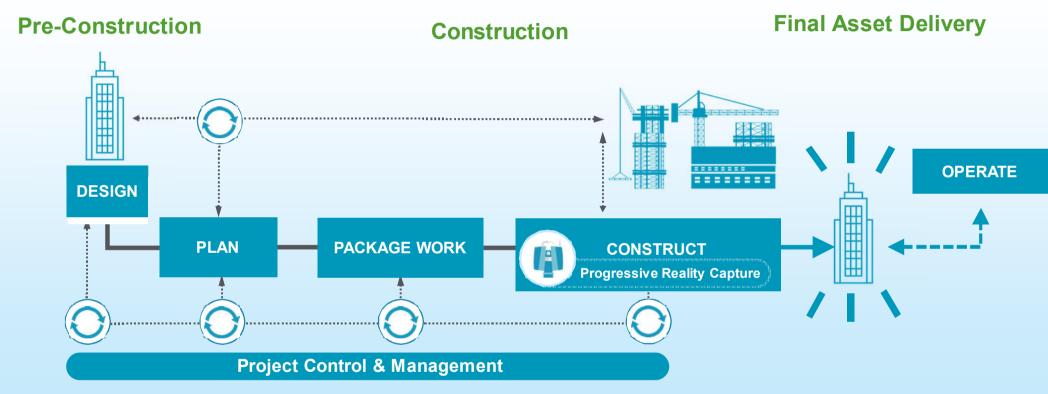


Your project at a glance













HxGN SMART Build Hub: Common Data Environment — the Walls Disappear











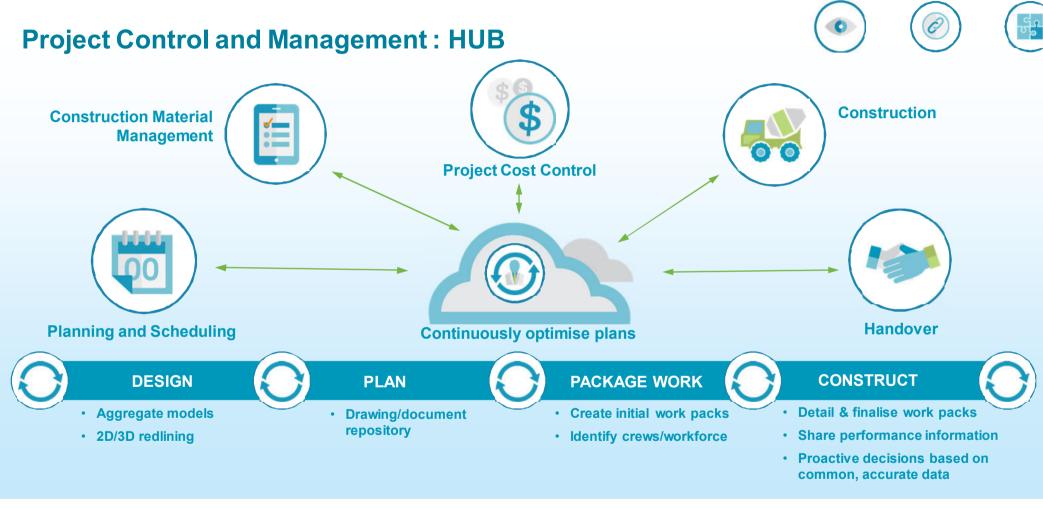














Project Control and Budget Tracking with No Surprises



Dynamically react to issues & deviations and manage change



Understand and manage schedule and cost impacts of deviations



budget, forecast & performance







Phase 1: Pre-Construction







Receive Designs & Detailed Plans Early Estimates and Schedules Better Communication to Site PLAN PACKAGE WORK CONSTRUCT Progressive Reality Capture Project Control & Management



Pre-Construction Planning











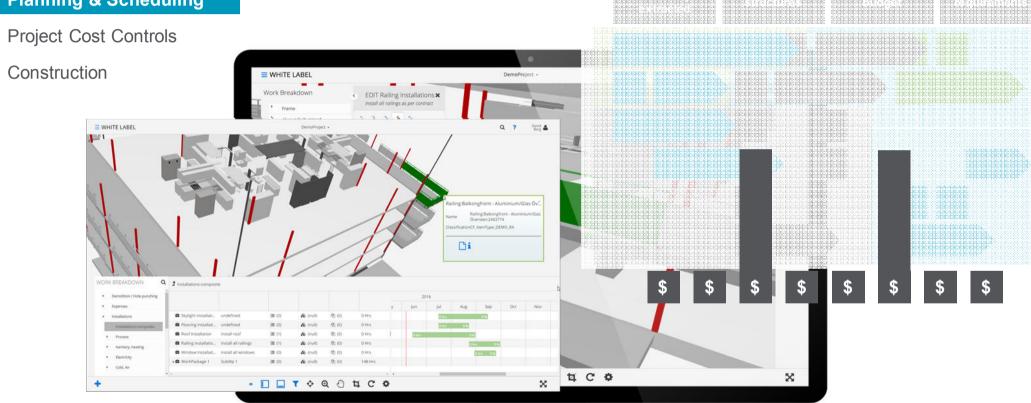
SMART Build: Project & Model Management



SMART Build: Planning & Scheduling

Project & Model Mgmt













Collaboration & Coordination Efficient and Accessible

Remove silos to improve accuracy between field and office

Access all data without expensive software or plug-ins

Improve execution with dynamic flow between people, processes and sensors

Use of existing office and mobile devices reduces overhead

Collaborative ecosystem compresses schedules and reduces delays





Pre-Construction — Planning Dynamic and Proactive

Model integration correlates work breakdown structure across application modules

Data-driven takeoff of construction quantities streamlines estimates

Collaboration capabilities facilitate rapid creation of schedules

Quickly communicate construction sequencing via 4D & 5D animations





Project Control

Increase predictability / lower risk by managing:

- Critical quantities
- Costs
- Performance and forecast

Capture field issues to manage / control scope change

Keep apprised with visual reporting of project status to key stakeholders

Clarify accountability and responsibility with control over costs, progress and earned value metrics







Phase 2: Construction











An Execution Plan that is Clear and Connected



Execute plans and instructions and increase degree of automation



Capture/report progress and deviations

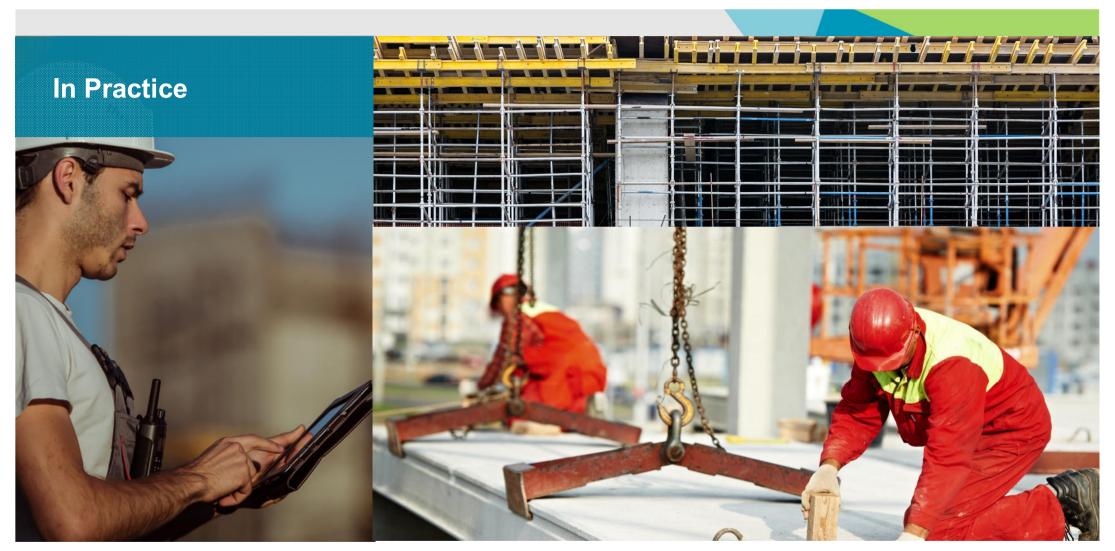


Capture & analyse earned value



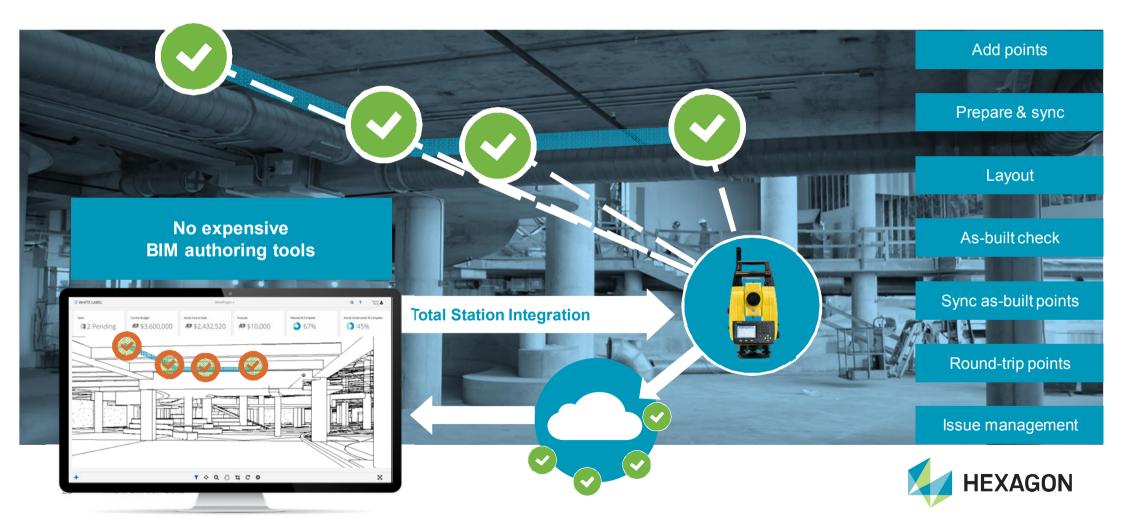
Establish and report accountability







Office to Field – Field to Office: Total Station



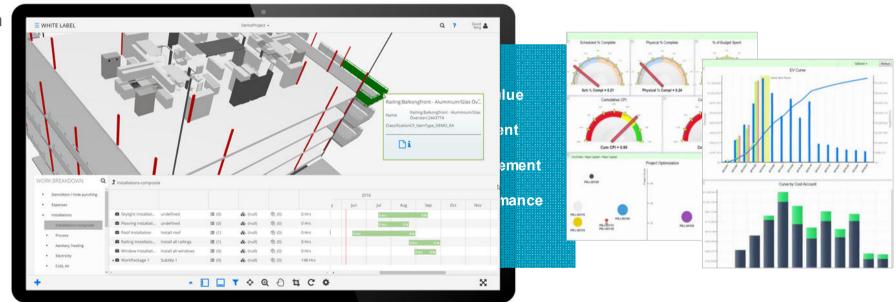
SMART Build: Project Cost Controls

Project & Model Management

Planning & Scheduling

Project Cost Controls

Construction





SMART Build: Construction

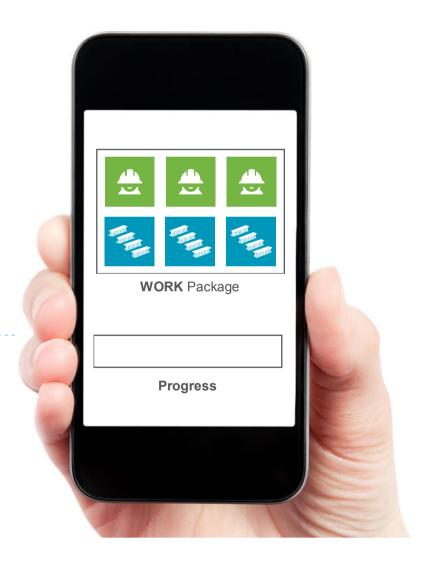
Project & Model Management

Planning & Scheduling

Project Cost Controls

Construction







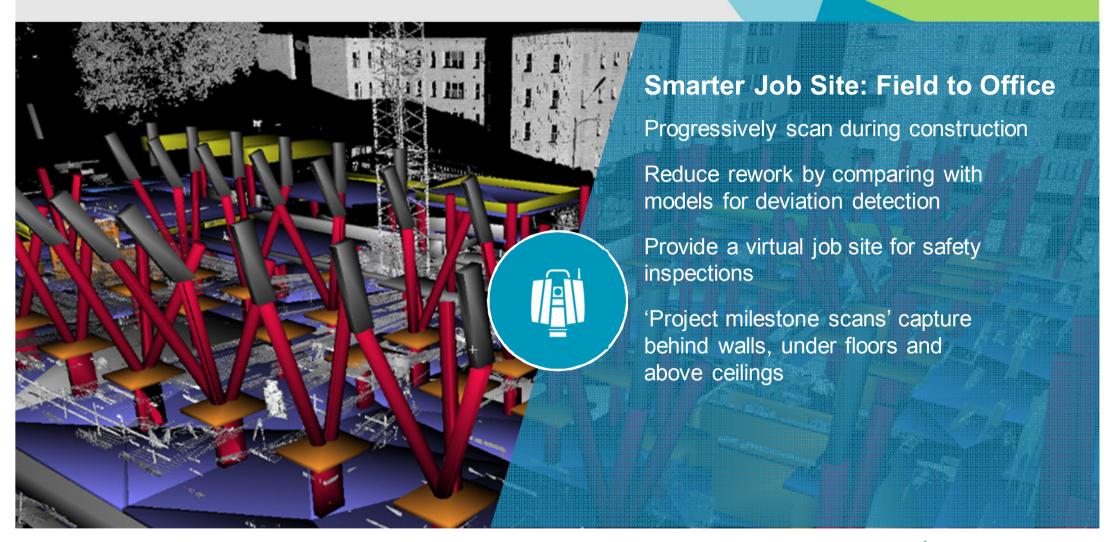


















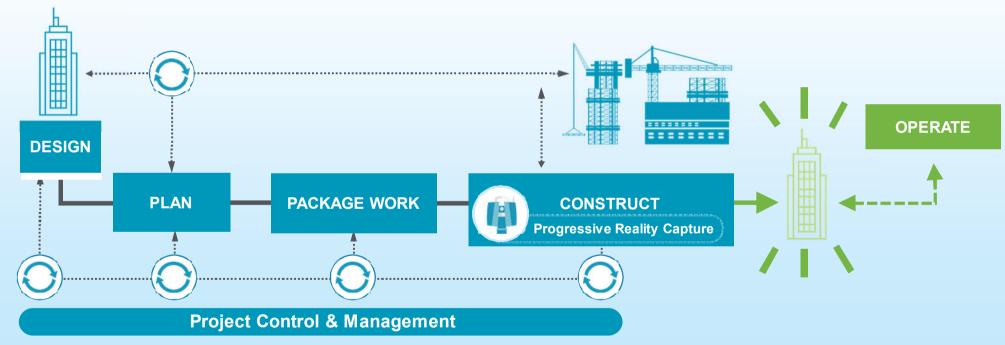
Phase 3: Final Asset Delivery







Pre-Construction Construction Final Asset Delivery Digital as-built asset





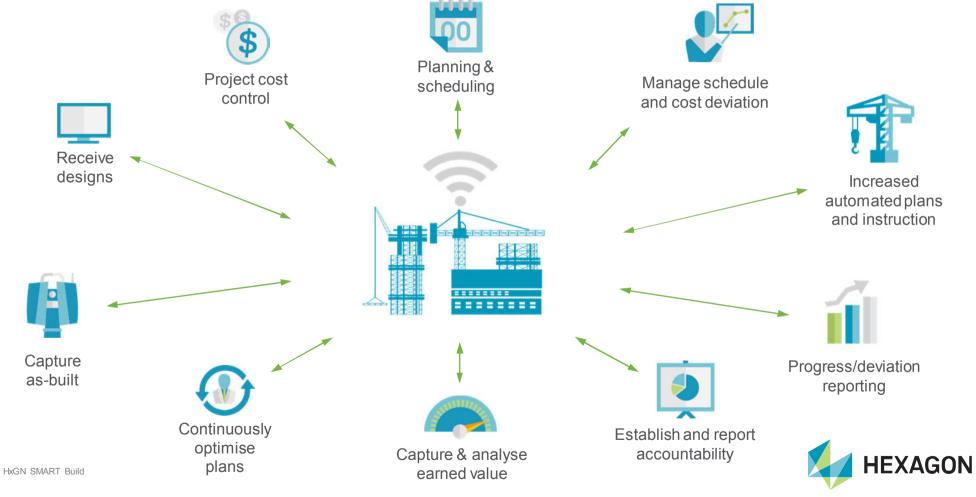


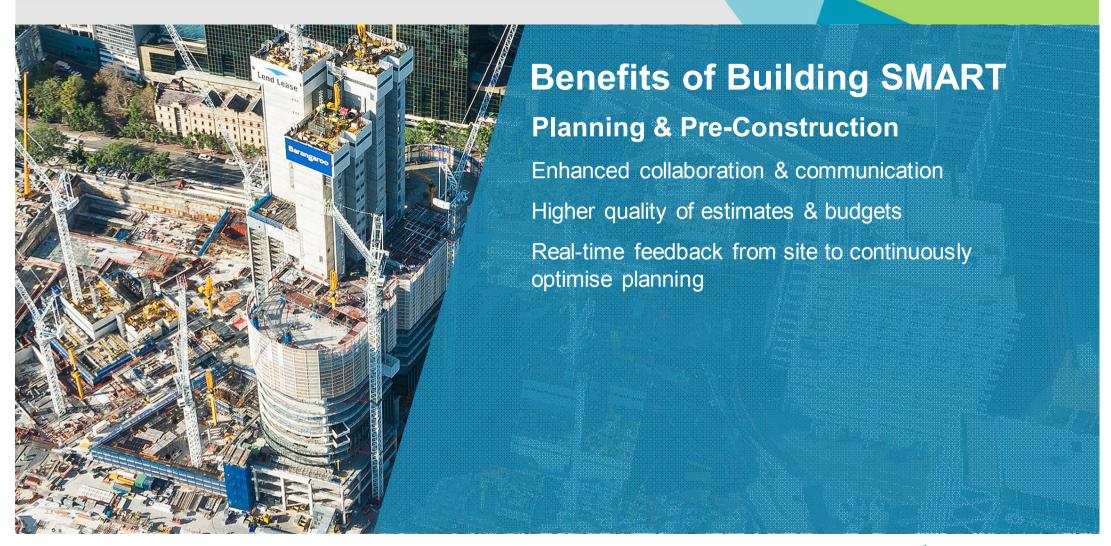






HxGN SMART Build for the Life Cycle of Your Project









Benefits of Building SMART

Project Execution

Automation of manual tasks during project execution

Real-time access to detailed work instructions & packages

Access to up-to-date project information

Real-time deviation reporting back to the office

Measures progress, cost, variances and earned value

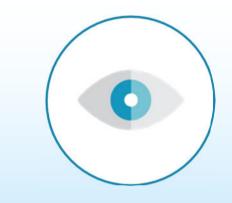
Accountability through improved real-time reporting







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Clarity

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Connectivity

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Simplicity

Ease-of-use and automation replace complexity

From the ground up



Thank You

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