

Introduction to Hubble Integrated Ecosystem for Comprehensive Quality Control

Building Better Cities of Tomorrow

About Hubble.Build

Built Environment Management Platform

Vision

Building better cities of tomorrow

Mission

To digitise and automate construction, and build wealth for our customers

Seamlessly connecting stakeholders across the entire value chain to build better, faster, safer, and more cost-effective projects.

>130,000

Workers

>20,000

Users

>3,000

Companies

Today, we are proud to have automated **more than 300 construction sites worth over \$50 billion worldwide**. Our full suite of software solutions include document, workforce, safety, quality, material, payments, and building management, and are used daily by over 100,000 users from 3,700 companies.



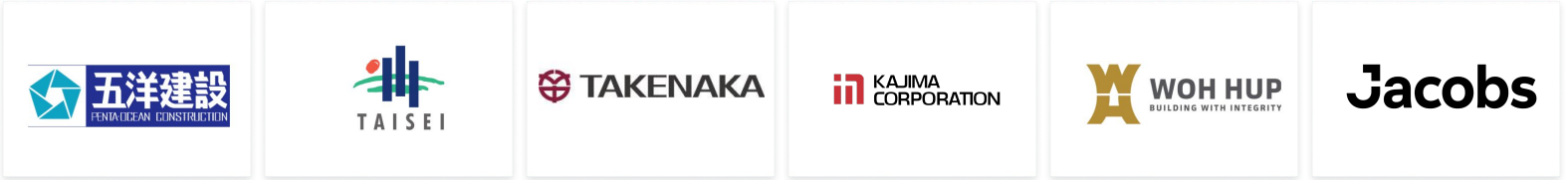
Headquartered in Singapore, we operate from offices in Vietnam, Malaysia, Indonesia, and the Philippines. Our team of passionate and diverse professionals is dedicated to transforming the built environment by building autonomous construction sites through innovative technology and collaborative partnerships.

Trusted by industry leaders

Developers



Main Contractors

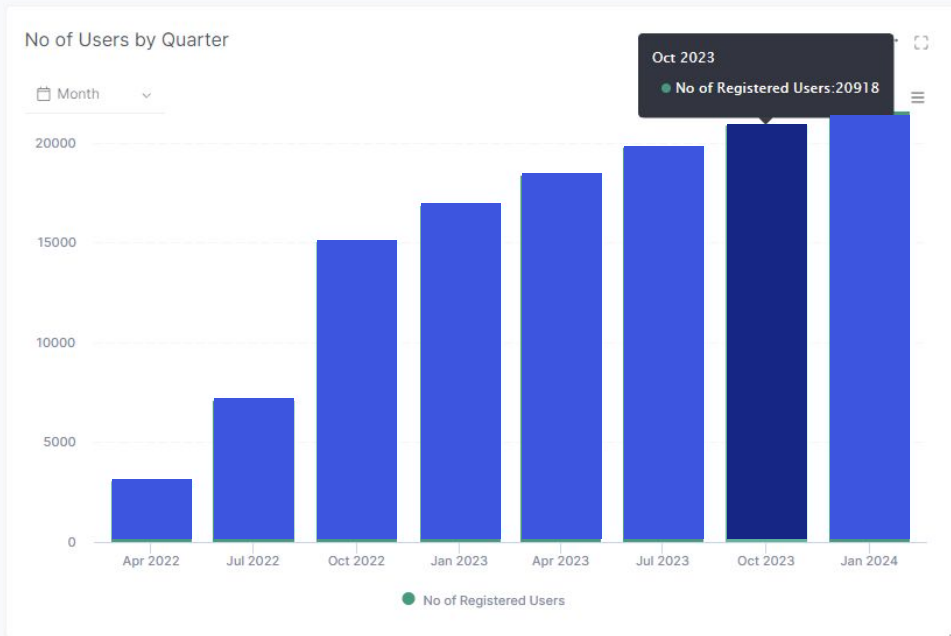


Subcontractors



Business Overview

User Metrics caa 31 December 2023



139,905

Users + Manpower

*Overlap: Some users are also registered under manpower

20,780

Users

+4.8% QoQ

132,782

Manpower

+8.6% QoQ

Project References

Deep Expertise in Local & International Projects

Selected Project References

Singapore

- HDB Handover Project

Malaysia

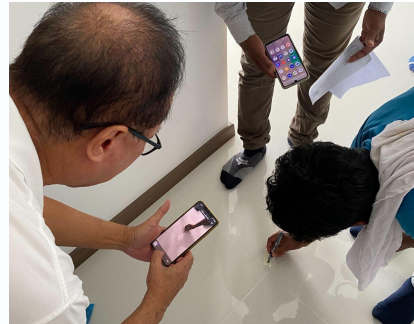
- Shorea Park Mira
- Shorea Park Anya

Thailand

- So Origin Kaset Interchange
- So Origin Phahol 69 Station
- SOHO Bangkok Ratchada

Government Project

HDB BTO Handover Project



Client

Housing Development Board (HDB)



Type of Project

Partnership between Hubble.Build and HDB

Project Highlights

Developing a handover management system solutions for HDB BTO handover process for 30 upcoming BTO housing precincts with the option of 20 more for next 3-5 years.

Hubble Solutions

Lock Up Inspection Module: Streamlines defect assessment and resolution, promoting a smooth handover by ensuring units are defect-free and securely locked.

Residential Appointment Booking Module: Enables efficient scheduling of joint inspections between homeowners and contractors, ensuring compliance with property standards.

Defect Liability Period (DLP) Management Module: Enhances defect reporting and resolution during DLP, optimising communication, accountability, and cost-efficiency.

Feedback Module: Empowers seamless resident feedback and efficient follow-ups, promoting collaboration and a responsive relationship with HDB.

Residential Project

Shorea Park



Client

OSK Construction Sdn Bhd



Type of Project

Service Apartments

Mira - 2 residential blocks with 950 units

Anya - 2 residential blocks with 750 units

Project Highlights

Facilitate OSK in achieving a streamlined quality management process involving 24 subcontractors, ensuring the prompt resolution of issues identified in 5,414 quality inspections and leaving no outstanding matters unattended.

Hubble Solutions

Hubble Quality Management System

Residential Project

So Origin Kaset Interchange, So Origin Phahol 69 Station, SOHO Bangkok Ratchada



Client

Nomura Real Estate Development



Type of Project

3 condominium projects in Thailand

23 floors with 300 units

14 floors with 250 units

24 floors with 341 units

Project Highlights

Nomura experienced a substantial improvement in productivity and operational efficiency through the streamlined process of inspection report creation and defect status updates with photos. This notable enhancement garnered a high satisfaction score of 8 out of 10 from the Nomura team.

Hubble Solutions

Hubble Quality Management System

Hubble Handover Management System

Overview

Hubble Platform

Comprehensive software suite that digitises and automates processes throughout every stage of construction.

Our Products - 7 Systems on 1 Platform

Design & Fabricate

Construct

Handover

Document Management System

Document Library

Upload & store project documents

RFI / RFA Process

Get Approvals from all stakeholders

Approved Documents

Checklist of documents

Workforce & Resource Management

Manpower Directory

Certification - Integrated with PTW

Attendance Tracking

Integrated with TBM

Manpower Utilization Tracking

Timesheet Reports, EPSS Reports

Equipment Directory

Integrated with PTW & Equipment Inspections

Fabrication Management System

Component Directory Track real-time updates of pre-fabricated components

Production/Installation Management Production Progress, Delivery Tracking, Installation Monitoring

Safety Management System

- Permit to Work** Automate the PTW Flow
- Safety & Equipment Inspections** Inspect, Identify, Rectify, Track Progress
- Incident Management** Record incidents & deploy action plans
- Dashboard** Track progress at one glance

Hubble Aura

- Real-Time Personnel Tracking** Real-Time Personnel Tracking through Geofencing, Wearables, GPS. - Prevent Unauthorised access
- AI Video Analytics** Use AI Video Analytics to identify safety non-compliances and send alerts.

Quality Management System

- Quality Inspection** Coordinate with multiple stakeholders, easily record comments List
- Defect Management** Identify defects, assign personnels for rectification

Handover Management System

- Lock up inspection Wall Chart** Easily keep track of inspections
- Defect Management** Track & rectify defects as identified by developers

Challenges Faced by Property Developers

Managing inspections and approvals across project stages poses challenges, causing delays and cost escalations

7 out of 10 developers struggle with productivity due to inefficient data management and reliance on static spreadsheets and disjointed systems

52% of rework is caused by poor project data and miscommunication with cost of rework estimated up to 20% of the total project cost

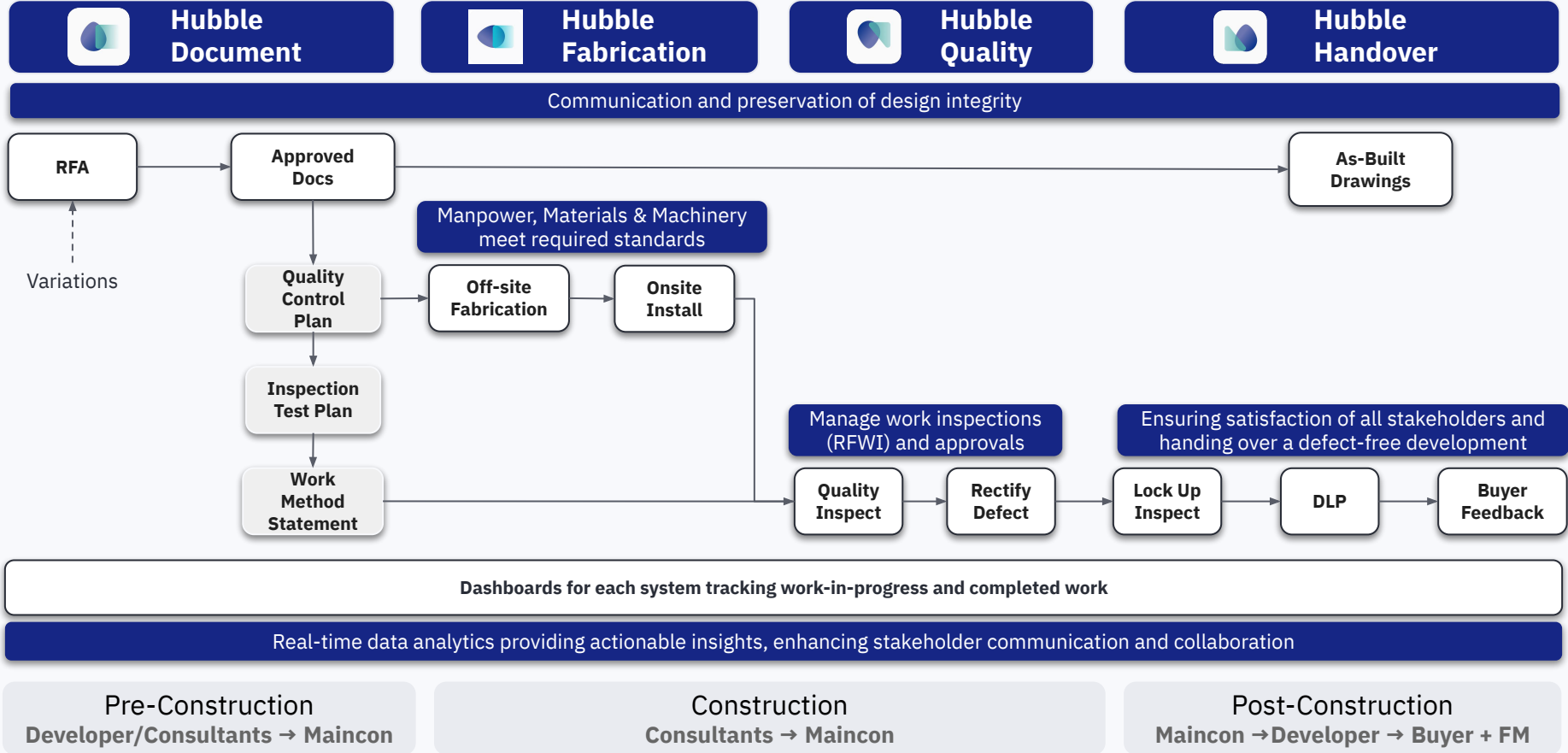
Over 30% cite unresponsiveness as a key cause of miscommunication, impacting project efficiency

Overview

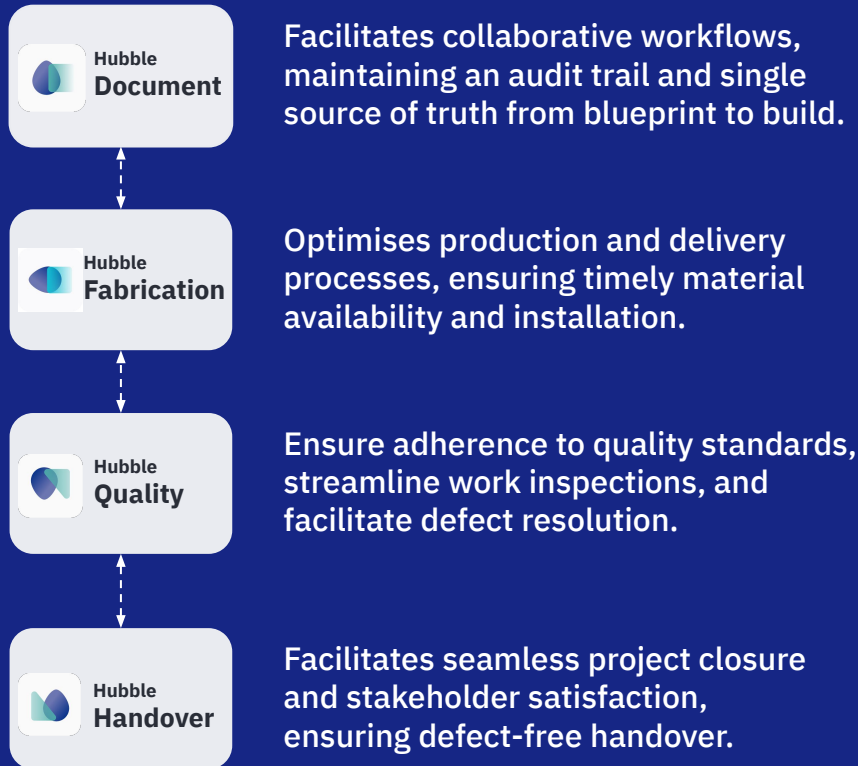
Hubble

Integrated Quality Ecosystem

Integrated Quality Ecosystem



Empower developers with a comprehensive, integrated ecosystem to conquer data silos, streamline workflows, and deliver high-quality projects on time and within budget.



- **100% elimination in communication delays** reduces RFIs and increased accuracy of work done on-site
- **Up to a 50% reduction in rework**, enabling contractors to allocate resources more efficiently towards project completion
- **Enhanced accountability** with standardized inspection processes (such as QCP, ITP etc.) ensures quick resolution and conformance
- **Increased visibility into project inspections** promotes high-quality standards and captures best practices for future projects
- **Enable informed decision-making with real-time insights into quality metrics** such as inspection coverage, conformance rate, and contractor performance



Document

Digitising your documents and create a source of truth for your project. Bringing collaborative workflows to the documentation process with clear audit trail.

Key Features

- Automated checking off of items on list, aiding project managers in tracking which documents have been approved
- Upload documents such as Inspection Test Plan (ITP) for approval and sharing
- Customise workflow and review levels per Quality Control Plan (QCP) requirements
- Zoom into approval on an individual document level
- Source of truth for the whole project

Document Library

Overview Documents

Total **500/1000** Approved

Architecture **100/200** Approved

Document Checklist

Search...

Ref No.	Document Name	Discipline
E-001-01A	Block S1 Level 1 - Phases of Work	Architecture
A-301-3A	Block S1 Level 2 - Demolition Plan & Phases of Work	Architecture
E-003-01A	Block S1 Level 3 - Demolition Plan & Phases of Work	Architecture
S-401-01B	Block S1 Roof - Demolition Plan & Phases of Work	Architecture
P-101-2B	Block S2 Basement 1 - Phases of Work	Architecture

Category List:

- Drawings
- Method Statements
- Test Reports
- Materials & Mock-ups
- Other Types

Request for Approval

Project: RAL - Razer Light
 Title: Suspended Ceiling Details
 Location: Zone/Block 411B, Floor 01, Unit 532
 Discipline: Architectural Works
 Category: Internal Works
 Activity Type: Ceiling
 Target Approval Date: 29 Feb 2024

1. Add Document

Completed By (edited): Lynn Cheng (Lightweight Phs. Ltd. 29 Feb 2024, 11:02)

2. Review RFA (Pending Action)

No.	Document Name	Discipline	Type	Assignee	Completion	Status
2.1	-	-	-	Tom Hillger (Lightweight Phs. Ltd.)	1 of 3 Steps	In Progress
2.2	-	-	-	Tom Hillger (Lightweight Phs. Ltd.)	1 of 3 Steps	In Progress
2.3	-	-	-	Tom Hillger (Lightweight Phs. Ltd.)	1 of 3 Steps	In Progress

Assigned To: Tom Hillger (Lightweight Phs. Ltd.)

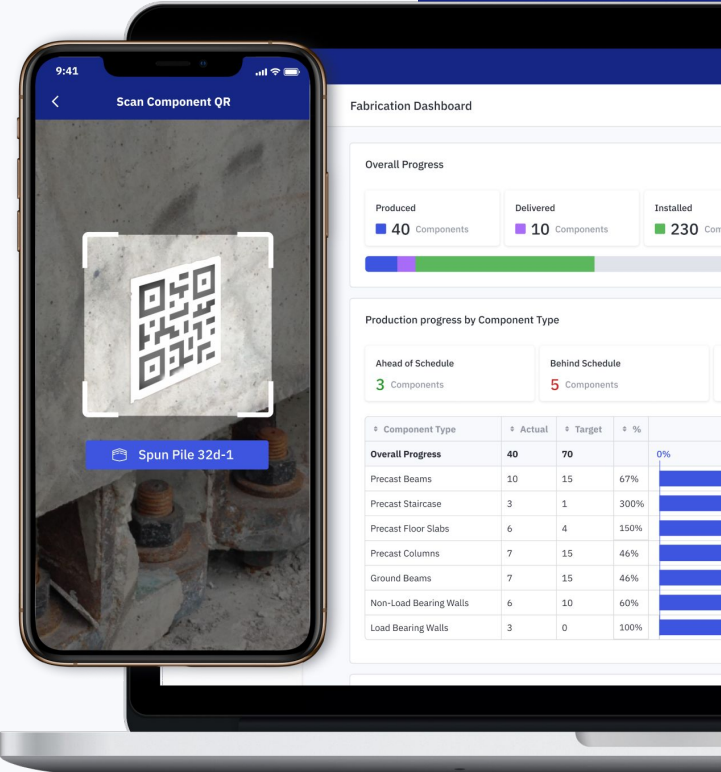


Fabrication

Connecting production pace, delivery and on-site installation on a singular platform. Getting the building blocks where they need to be, when they need to be.

Key Features

- Track production rate against installation rate to ensure there is enough material onsite to prevent delays
- Visualise component's production and installation status on a Wall Chart
- Unique QR code assigned to each component follows it through its lifespan, allowing for easy tracking and updates via mobile
- Customisable Delivery and Installation forms make paperwork a breeze



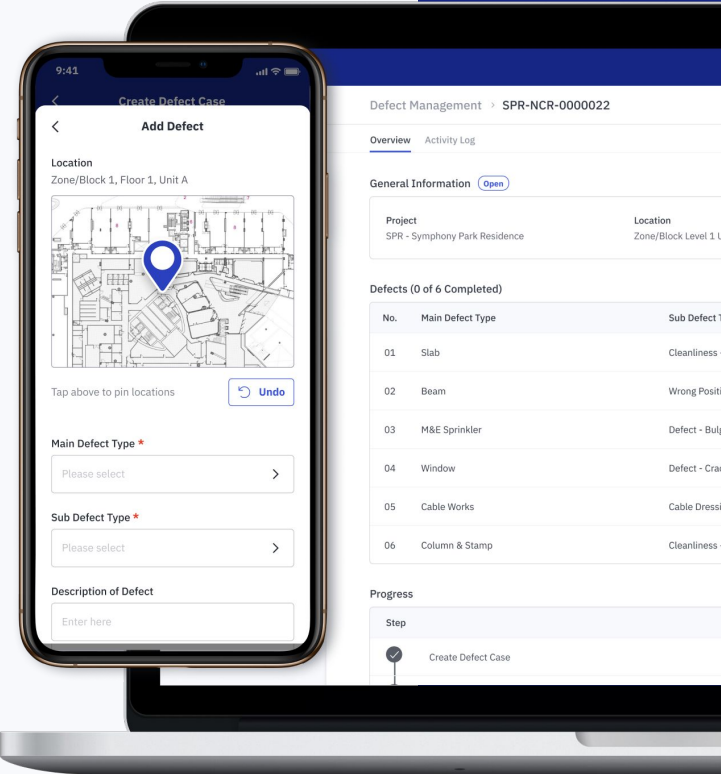


Quality

Simplify quality management effortlessly with on-the-go mobile tools. Manage inspections, capture defects, and gain actionable insights through analytics dashboards.

Key Features

- Resolve defects in real-time with an overview of all quality cases
- Report, rectify, review defects on the go with a mobile app
- Annotate on photos, pinpoint defect on floor plans and assign the right personnel for rectification.
- Ensure manpower, material and equipment are up to standard as defined in Quality Control Plan (QCP)
- Execute quality inspections, tests, and audits according to the procedures and criteria in Inspection Test Plan (ITP) and Work Method Statement (WMS)
- Submit and approve request for work inspections (RFWIs) and assign inspection personnel with digital signature sign-off
- Support integration to link approved ITP with RFWIs



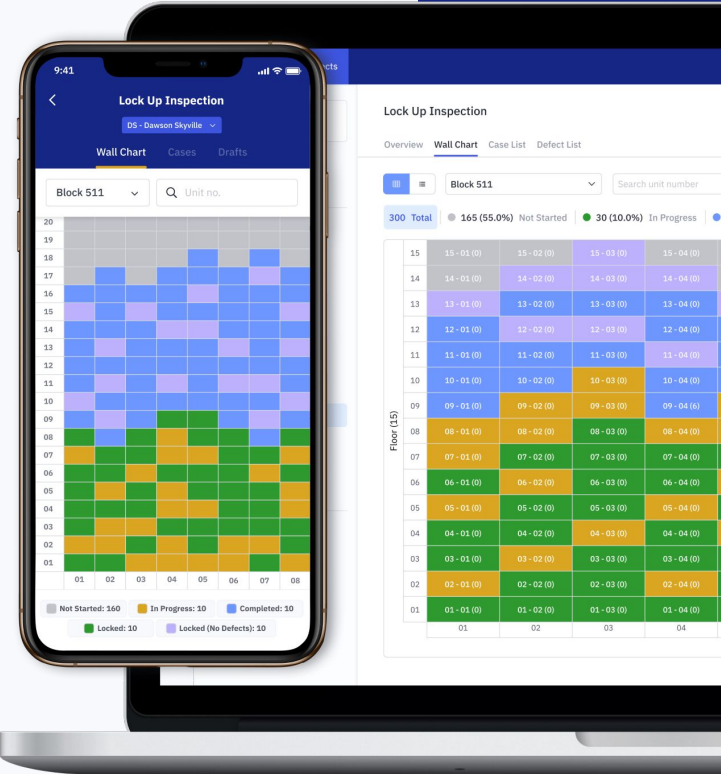


Handover

Closing up construction by ensuring satisfaction of all stakeholders and handing over a defect-free development.

Key Features

- Track real-time overview of all units on web and mobile with wall chart
- Residents can book appointments to schedule walk-through inspections
- Integrate residents into workflow, via automated email notifications and sending of acknowledgement survey
- Users can log issues found in the development for prompt resolution
- Support integration with linked documents such as drawings, quality defects and inspection records to facilitate the construction closeout process





Thank you!

Hubble Business Development Team

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Request for Demo