VAULT
CONSTRUCTION INTELLIGENCE

Data unity you can build on

Optimise project outcomes with Vault.
A proven construction intelligence platform.

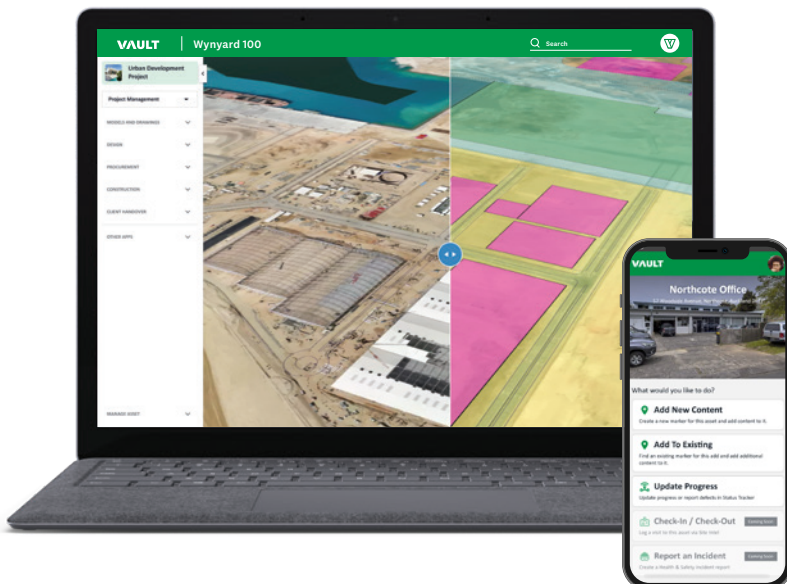- Unite Data Spatially
- Create Progress Visibility
- Access Insights Proactively
- Transform Digitally

Solve costly construction problems with Vault's integrated ecosystem.

Vault is a flexible spatial data management solution, enabling construction teams to digitally unite their supply chain to report project progress; simply and efficiently.
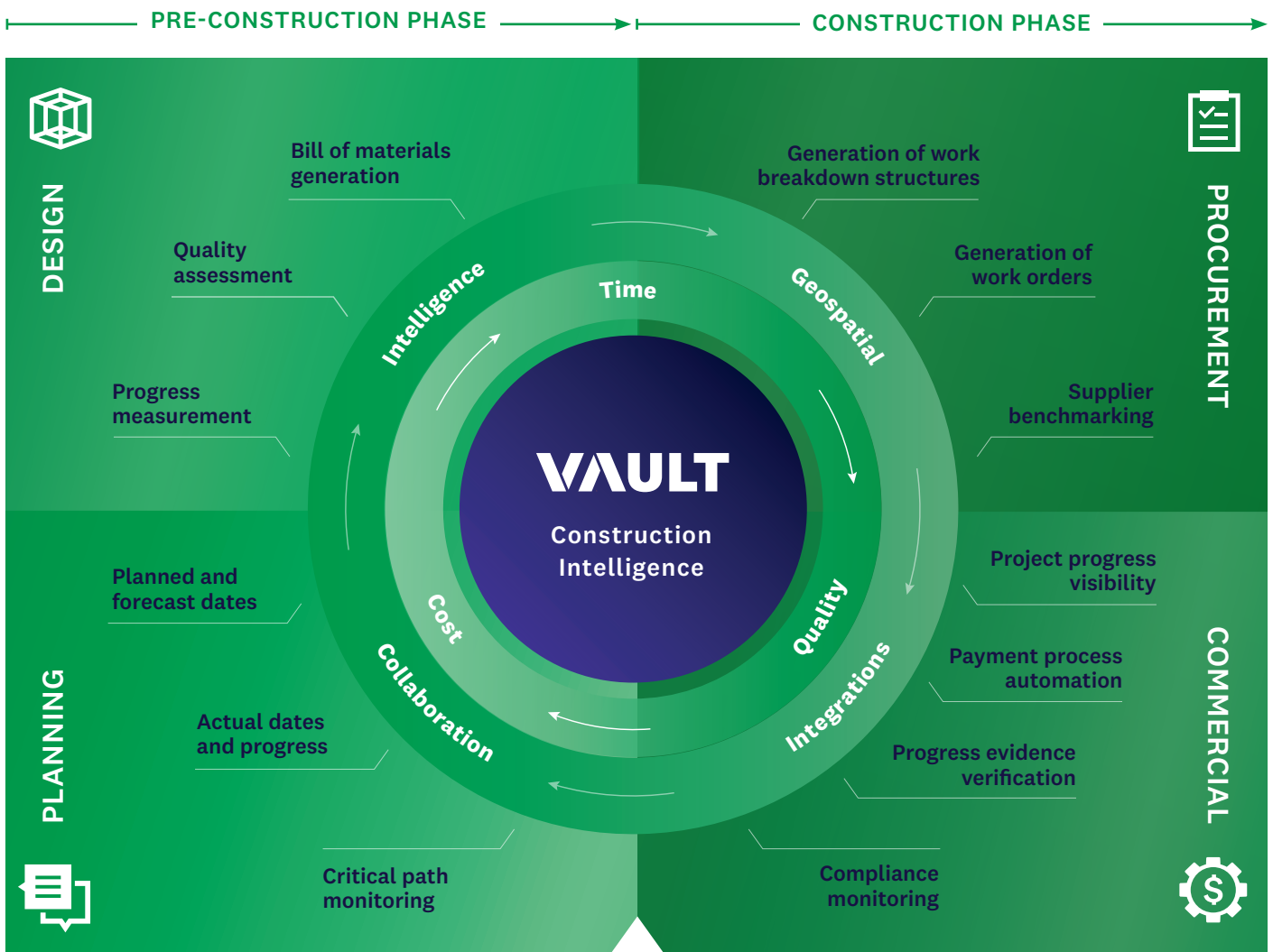
THE VALUE OF VAULT

- Drives alignment of all stakeholders
- Reduces waste, inaccuracy and lost time
- Automatically generates early indicators (to manage risk)
- Enables in-built compliance with construction payment legislation
- Provides an intelligent foundation for digital advancement including AI.

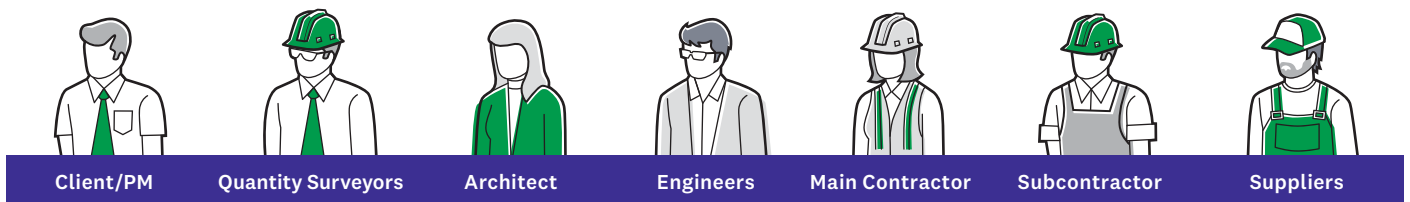# Data and supply chain management for the **whole project** lifecycle

From preconstruction to handover, Vault unifies data from traditionally fragmented sources, helping construction teams to shift from 'silo to flow' on a digital foundation.

Vault is built to ingest operational system data from disconnected teams, validating it and combining it. A proprietary data unification algorithm with a comprehensive business logic layer provides a single viewpoint of project progress.

An easy-to-use interface then delivers targeted functionality for various construction stakeholder groups. Foster productivity and achieve efficiencies by providing your supply chain visibility across; time, quality and cost elements of the construction process.

PRE-CONSTRUCTION PHASE — **CONSTRUCTION PHASE**

DESIGN

PROCUREMENT

PLANNING

COMMERCIAL

Bill of materials generation

Quality assessment

Progress measurement

Planned and forecast dates

Actual dates and progress

Critical path monitoring

Generation of work breakdown structures

Generation of work orders

Supplier benchmarking

Project progress visibility

Payment process automation

Progress evidence verification

Compliance monitoring

VAULT
Construction Intelligence

Time

Intelligence

Geospatial

Cost

Collaboration

Quality

Integrations

UNIFY THE SILOED TEAMS

| Client/PM | Quantity Surveyors | Architect | Engineers | Main Contractor | Subcontractor | Suppliers |

The **Unity** Opportunity

Access intelligence to support the efficient delivery of construction projects.

A STEP CHANGE FOR CONSTRUCTION MANAGEMENT

Data unification on Vault is the first step on a digital journey to close the construction productivity gap.

Unifying your team and your data will drive productivity and predictability on the jobsite—two things that are vital for successful construction.

Once data is organised on Vault, and the supply chain is connected, the platform's cloud-enabled ecosystem will continually ingest data, verify it and make it available for analysis and insights to support the efficient delivery of construction projects.

Vault provides a continuum for the ongoing digital advancement of construction teams.

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UNITE DATA SPATIALLY

Vault solves the costly and wasteful problem of inaccurate, siloed construction data sets.

Ingest, verify and unite construction data (including BIM) from diverse sources.

Use Vault's interoperability to record data created by other construction software and apps.

CREATE PROGRESS VISIBILITY

Validate progress as manual construction processes are brought into the digital realm and teams are aligned and connected.

Connect site progress to finance and design system outputs that are enriched with live data streams. This provides a holistic reporting platform available for everyone to consume.

Create visualisations and verified reports, fast and with confidence.

ACCESS INSIGHTS PROACTIVELY

Advance to harness more sophisticated, predictive analytics and AI.

Use data science to drive insights, de-risk processes, to complete modelling, predict progress and make forecasts.

Optimise construction processes by understanding historical events, enriching information with live data streams and predicting future outcomes using AI.

TRANSFORM DIGITALLY

Undertake continuous improvement using Vault as a key enabler and connector of fragmented solutions which rapidly accelerate the digital transformation journey.

Be ready for new evolutions in AI and connect to more cloud-smart digital tools as they come to market using Vault as the conduit.

Unifying data across
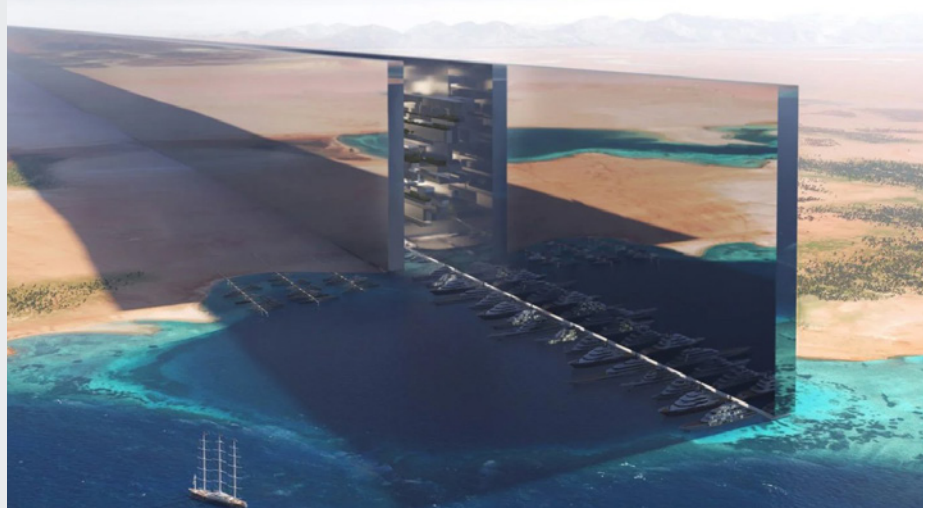# a **full project** lifecycle

CASE STUDY

A construction mega project
in Saudi Arabia.

PARTNERS
International Engineering Company
+ Middle East Construction Co.

SCALE
The largest, most ambitious
construction project in the world today.
– 10 year timeline
– $40T+ construction budget

PROBLEMS

+ Fragmented teams generating inconsistent, inacessible information buried in different silos.

+ Reporting teams using multiple and variable data sources – providing inconsistent results.

+ No ability to get a visual on construction progress and accurately report against milestones.

SOLUTION

Created a single touchpoint of spatially visualised, verified progress - accessible to all. United data from design through to 'as installed' for each stakeholder in the supply chain.

Enabled program management office to provide comprehensive verified, visual progress information in a very complex environment with multiple stakeholders.

Provided productivity reporting and AI prediction of future outcomes based on past progress and live data streams.

RESULTS

Removed need for a dedicated resource reporting group for the project.

Clear understanding of project capital requirements – including variation management.

Capability for financial and progress tracking (tracked payment claim) giving commercial understanding of work packages.