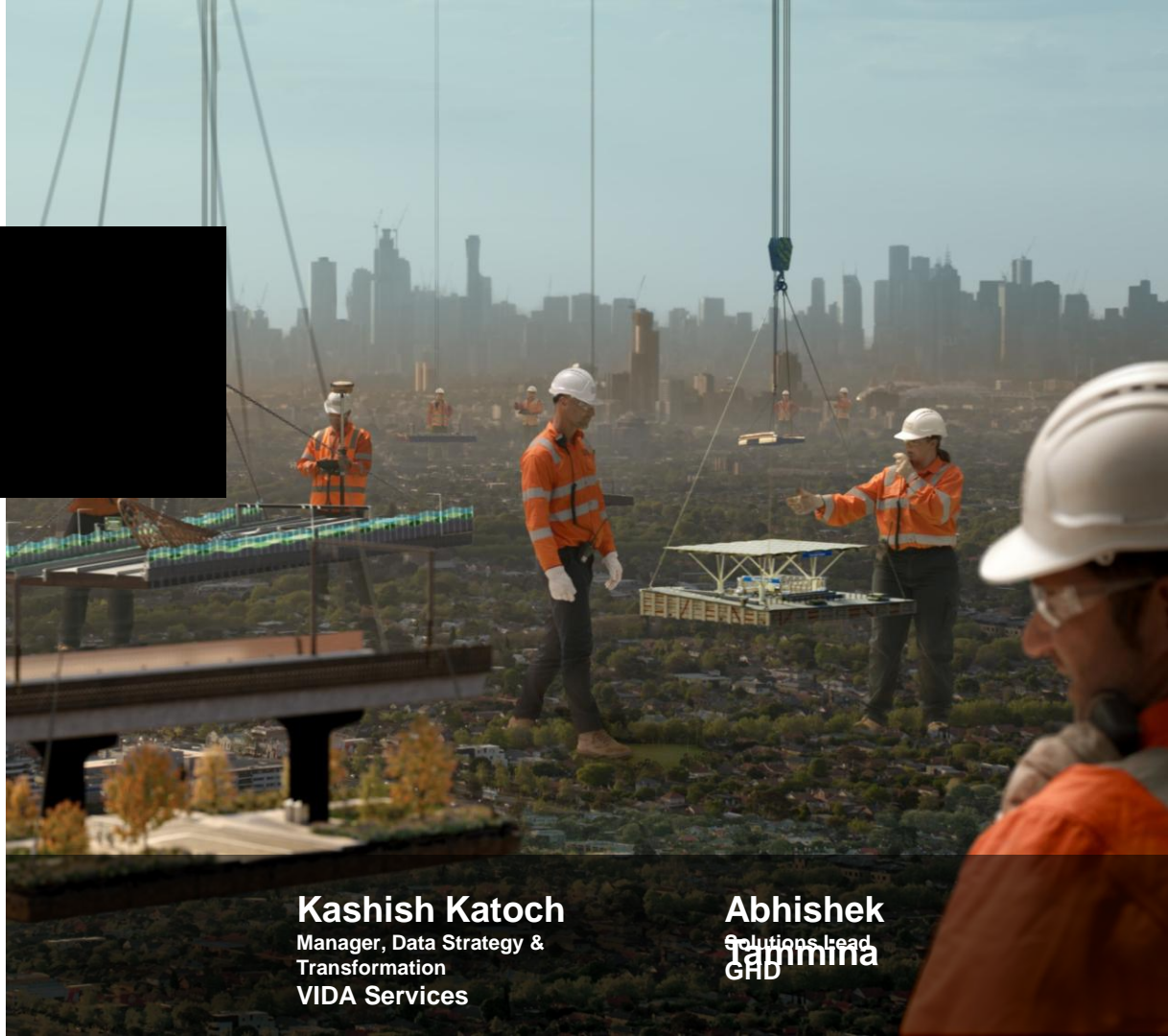


**VICTORIA'S**  
**BIG BUILD**

# Supply chain modernisation

Unlocking efficiencies  
through standardisation  
and digitisation



**Kashish Katoch**  
Manager, Data Strategy &  
Transformation  
VIDA Services

**Abhishek**  
Solutions Lead  
**Tamma**  
GAD

# Agenda

-  **Background**
-  **Problem**
-  **Solution**
-  **Impact**
-  **Road Ahead**
-  **Questions and feedback**

# Background

A collaborative journey to improve and digitise  
the construction supply chains



# Background

## Level Crossing Removal Project overview



Removed **88**  
Dangerous Level  
Crossings



New Train Stations



Upgraded Car Parks



New Open Spaces

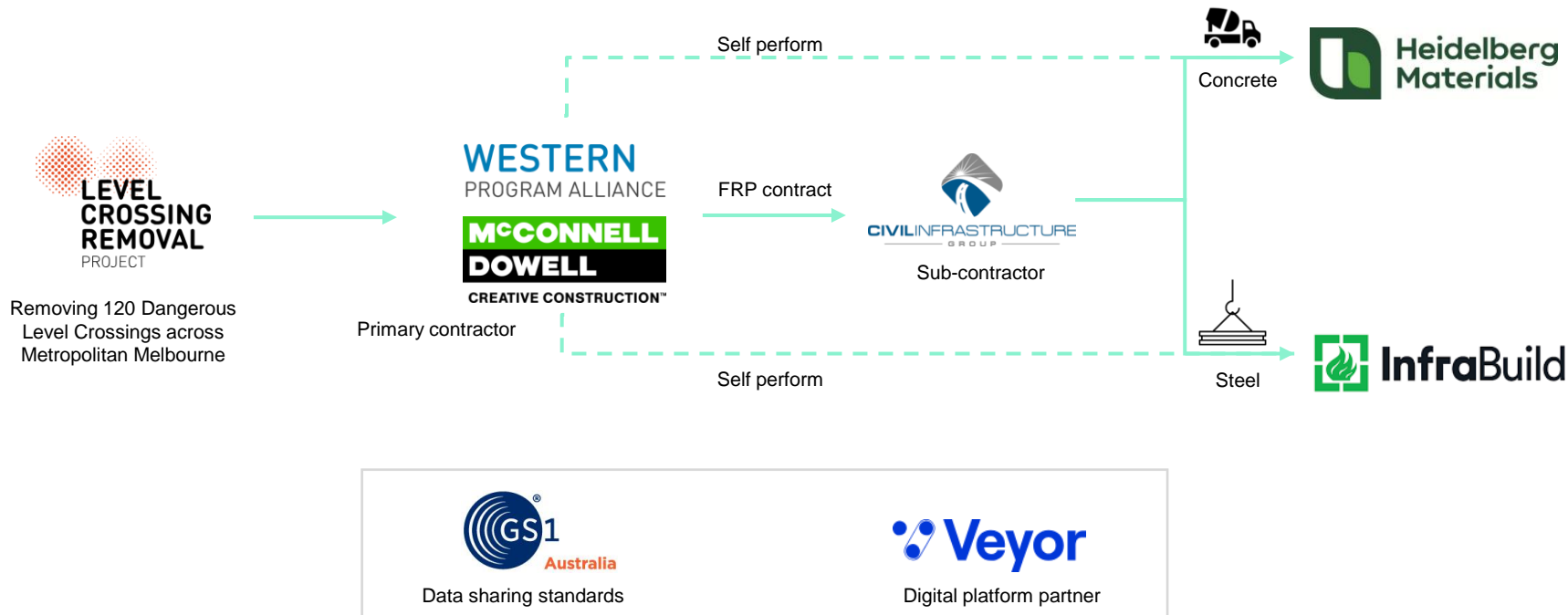


Parks established -  
Trees, Shrubs planted

**22** more to go

# Background

## Level Crossing Removal Project overview



# Supply chain modernisation at Diggers Rest



Infrastructure shapes how

# Problem

Limitations in the current supply chain processes and data

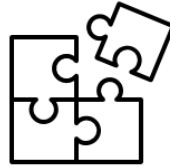


# Problem

## A fragmented supply chain with low digital maturity



**Multiple**  
physical/digital  
dockets



**Fragmented**  
supply chain



**Design**  
rework



**Manual**  
processes and  
intervention



**Broken**  
communication flow



**Low and varied**  
digital maturity

# Supplier feedback

## Heidelberg Materials



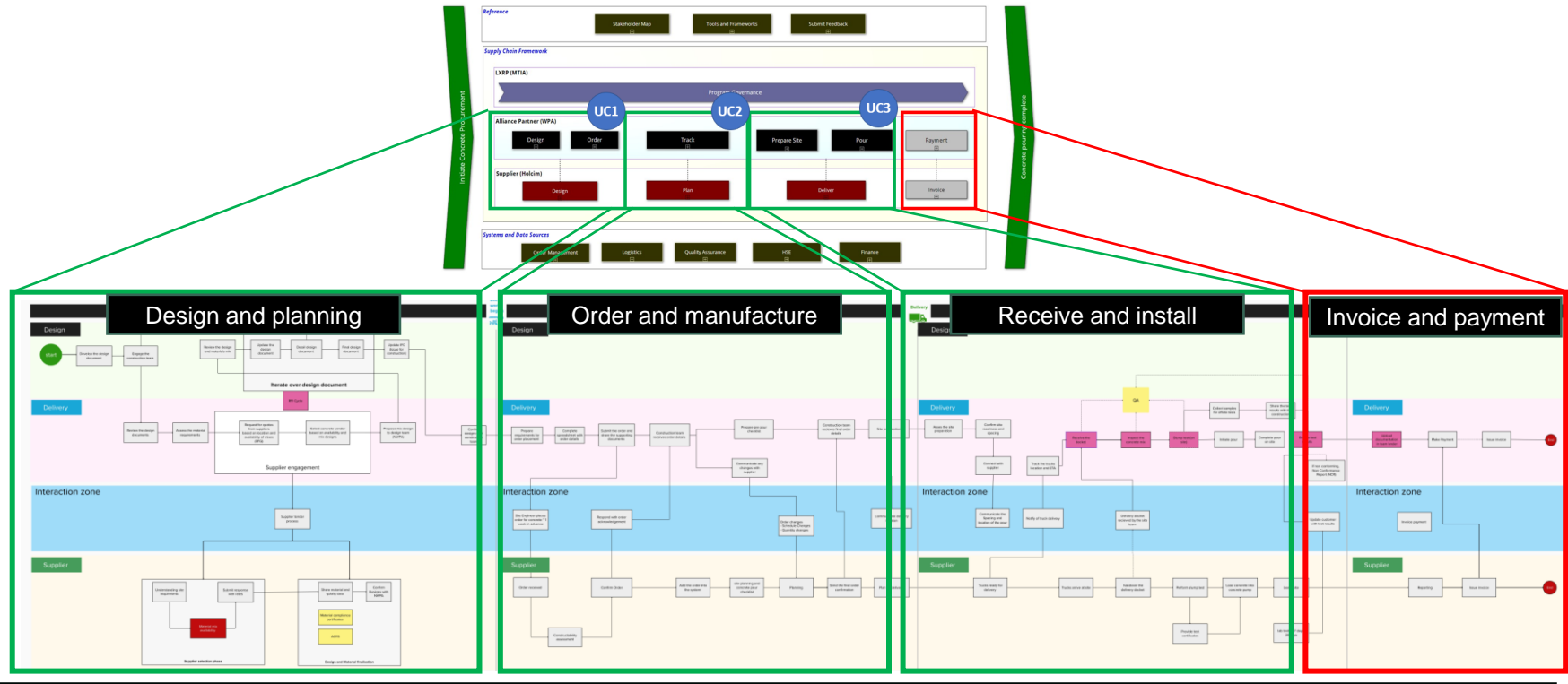
# Approach & Solution

A fundamental change that can digitise and unlock efficiency



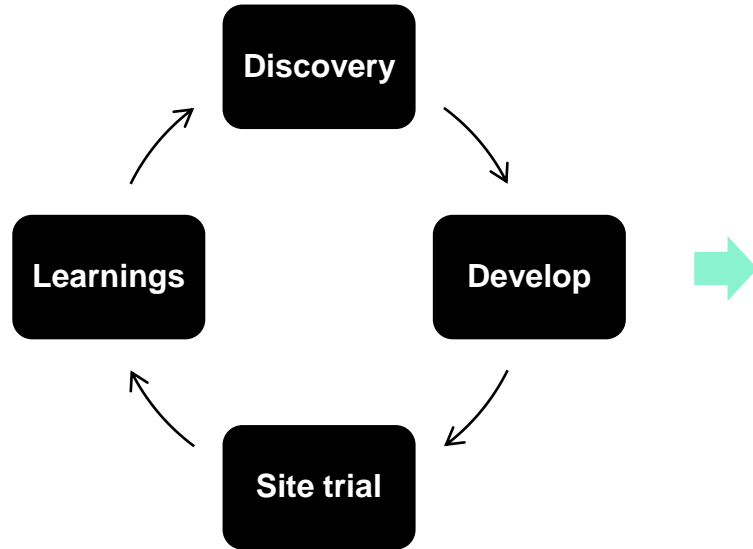
# Approach & Solution

## Collaborative End to End Process Mapping

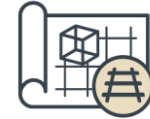


# Approach & Solution

Unlocking value through transparent, efficient and interconnected supply chain



**Digitise and automate -**  
order to payments



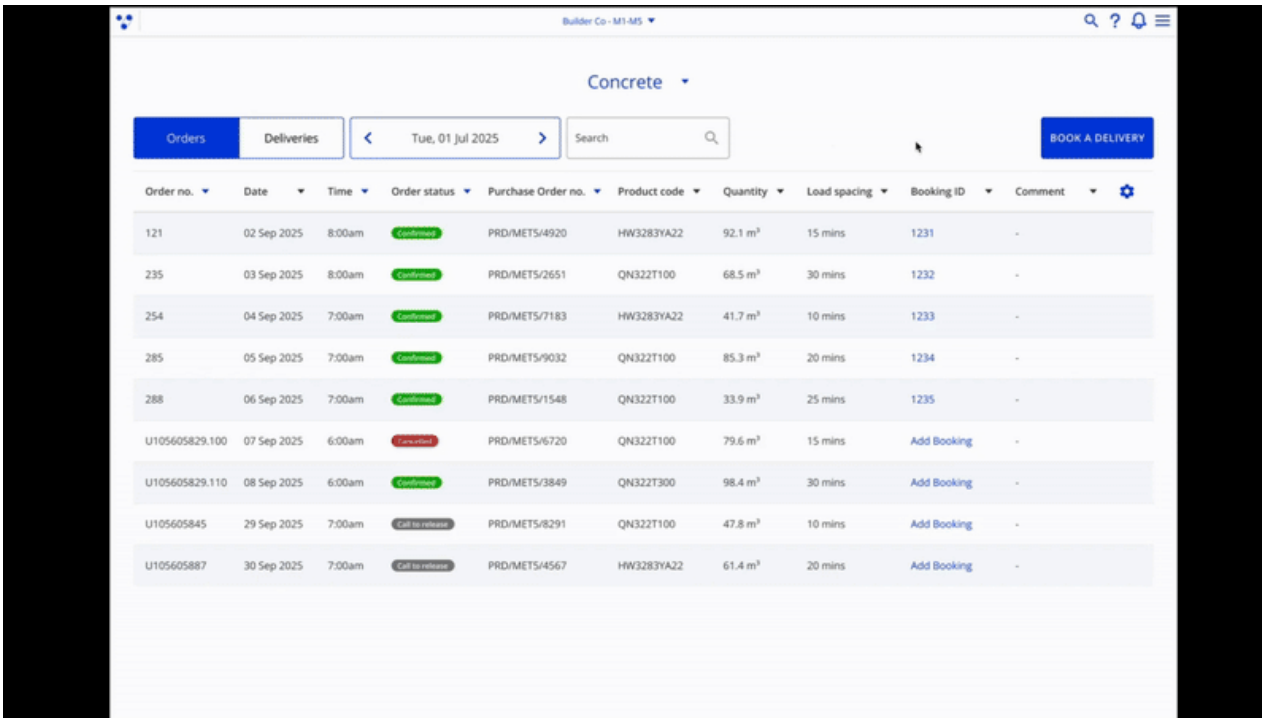
**Asset tag -**  
data from BIM to asset



**Data sharing standards**

# Approach & Solution

## Digital Platform as single source of truth



The screenshot displays a web interface for managing concrete deliveries. At the top, it shows the user 'Builder Co - M1-M5' and navigation icons. The main heading is 'Concrete'. Below this, there are tabs for 'Orders' and 'Deliveries', a date selector for 'Tue, 01 Jul 2025', a search bar, and a 'BOOK A DELIVERY' button. The core of the interface is a table listing delivery orders with columns for Order no., Date, Time, Order status, Purchase Order no., Product code, Quantity, Load spacing, Booking ID, and Comment. The table contains 10 rows of data, with most orders marked as 'Confirmed' and one as 'Call to release'.

| Order no.      | Date        | Time   | Order status    | Purchase Order no. | Product code | Quantity            | Load spacing | Booking ID  | Comment |
|----------------|-------------|--------|-----------------|--------------------|--------------|---------------------|--------------|-------------|---------|
| 121            | 02 Sep 2025 | 8:00am | Confirmed       | PRD/METS/4920      | HW3283YA22   | 92.1 m <sup>3</sup> | 15 mins      | 1231        | -       |
| 235            | 03 Sep 2025 | 8:00am | Confirmed       | PRD/METS/2651      | QN322T100    | 68.5 m <sup>3</sup> | 30 mins      | 1232        | -       |
| 254            | 04 Sep 2025 | 7:00am | Confirmed       | PRD/METS/7183      | HW3283YA22   | 41.7 m <sup>3</sup> | 10 mins      | 1233        | -       |
| 285            | 05 Sep 2025 | 7:00am | Confirmed       | PRD/METS/9032      | QN322T100    | 85.3 m <sup>3</sup> | 20 mins      | 1234        | -       |
| 288            | 06 Sep 2025 | 7:00am | Confirmed       | PRD/METS/1548      | QN322T100    | 33.9 m <sup>3</sup> | 25 mins      | 1235        | -       |
| U105605829.100 | 07 Sep 2025 | 6:00am | Call to release | PRD/METS/6720      | QN322T100    | 79.6 m <sup>3</sup> | 15 mins      | Add Booking | -       |
| U105605829.110 | 08 Sep 2025 | 6:00am | Confirmed       | PRD/METS/3849      | QN322T300    | 98.4 m <sup>3</sup> | 30 mins      | Add Booking | -       |
| U105605845     | 29 Sep 2025 | 7:00am | Call to release | PRD/METS/8291      | QN322T100    | 47.8 m <sup>3</sup> | 10 mins      | Add Booking | -       |
| U105605887     | 30 Sep 2025 | 7:00am | Call to release | PRD/METS/44567     | HW3283YA22   | 61.4 m <sup>3</sup> | 20 mins      | Add Booking | -       |

# The importance of standardised data

## GS1 Australia

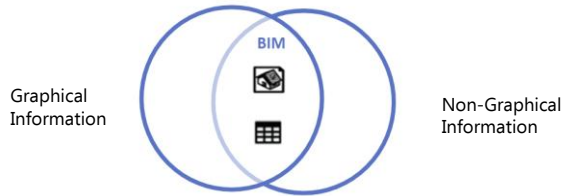


# Approach & Solution

## Unique ID/Asset ID – linking data back to the asset or design

### TRADITIONAL APPROACH (Model-Centric)

#### Building Information Systems

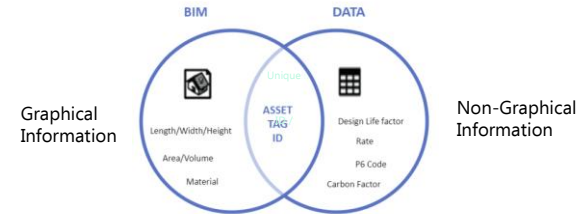


- Large amounts of data embedded in the models
- Creates bottlenecks as multiple data stream converge
- Data authored by non-owners
- Access limited to software
- limited data security



### INNOVATIVE APPROACH (Data-Centric)

#### Data Decoupling



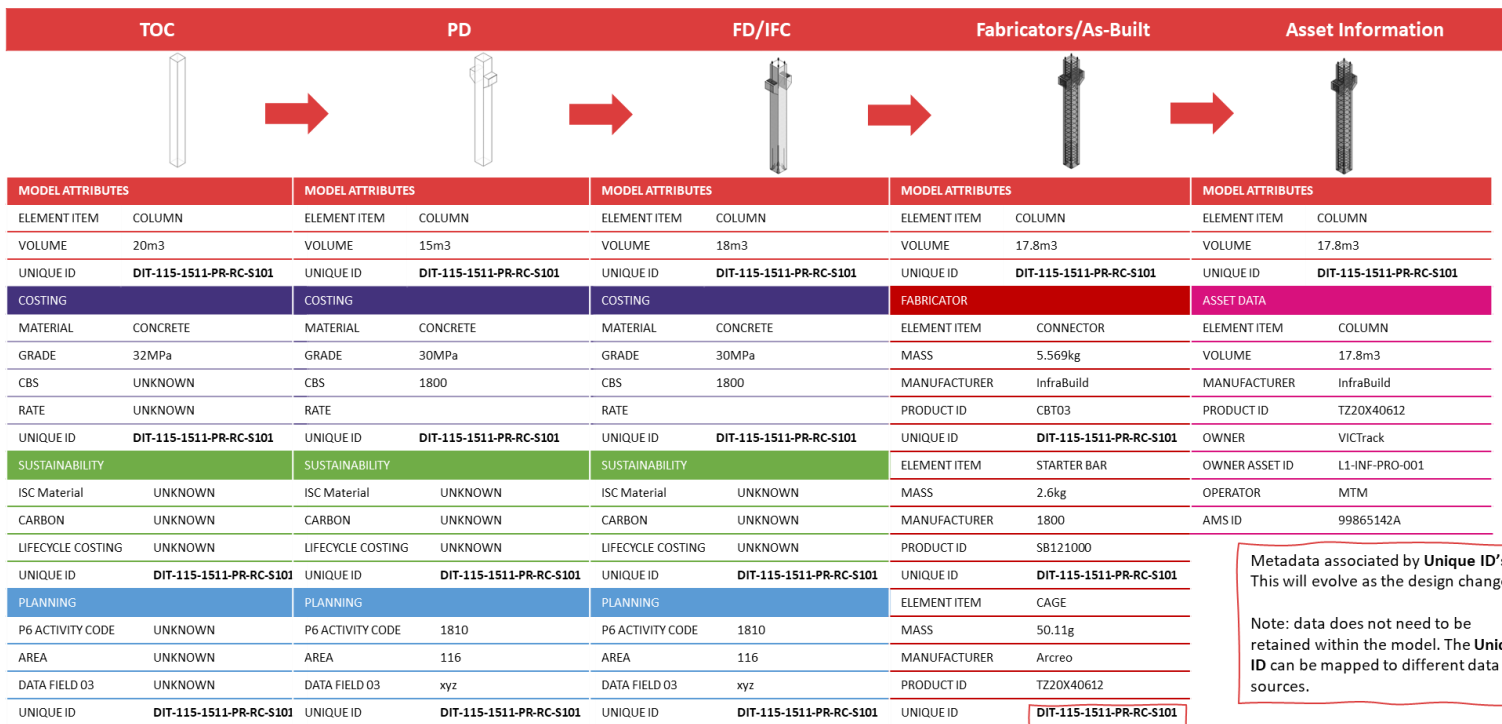
- Data owned by the author or SME
- Only design discipline data held within BIM models
- All other data is referenced in via the Unique ID / Asset Tag as a key

| Item        | Project Code | Location Code | Model Ref | Element Group | Element Tag | Unique ID               |
|-------------|--------------|---------------|-----------|---------------|-------------|-------------------------|
| Pier column | DIT          | 115           | 1511      | PR            | RC-S101     | DIT-115-1511-PR-RC-S101 |

Existing project meta data      Example of Concatenation

# Approach & Solution

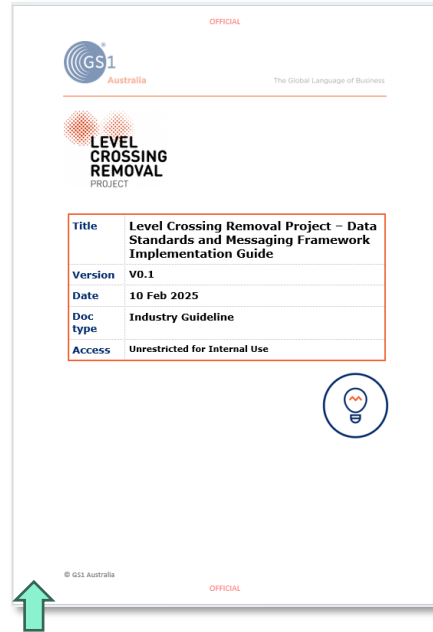
## Unique ID/Asset ID – linking data back to the asset or design



# Approach & Solution

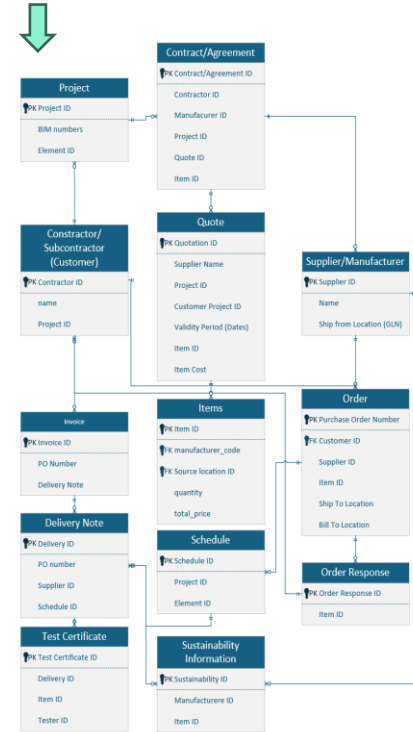
## Data sharing standards

Without common standards, data across the supply chain is fragmented, inconsistent, and hard to trust — creating delays, rework, lost insights and increased costs.



Data standards implementation guide

## Draft data model



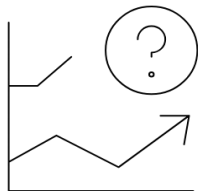
# Impact

Improved data quality and visibility



# Impact

## Improved data quality and visibility



### Reduced QA Effort

QA reporting effort reduced by 50%.

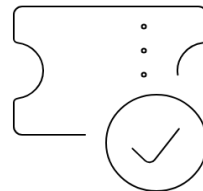
1



### Reliable Data

Reliable sustainability data is now available.

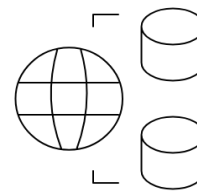
2



### Fewer Discrepancies

Significant reduction in invoice discrepancies, faster reconciliation.

3



### Standardised Information

Standardised, live information is readily accessible.

4

# Road ahead

- Incremental change
- Data standardisation



## PROJECT PARTNERS

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