## Fulfilling the Asset Management Information Lifecycle

## GeoBIM 2016

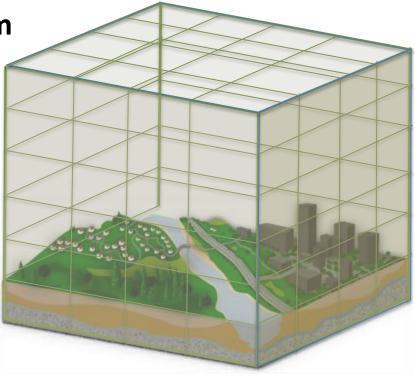
Intelligent Facility Management Transforming Data into Information Phil Jackson BSc CEng FICE FRSA



#### buildingSmart International InfraRoom

Asset Managers Requirements for BIM

Delivering what Information Asset Managers can Trust & what they Need



## The Silo Issue



- Discipline Silos
- Technology Silos





## AIM

## BIM

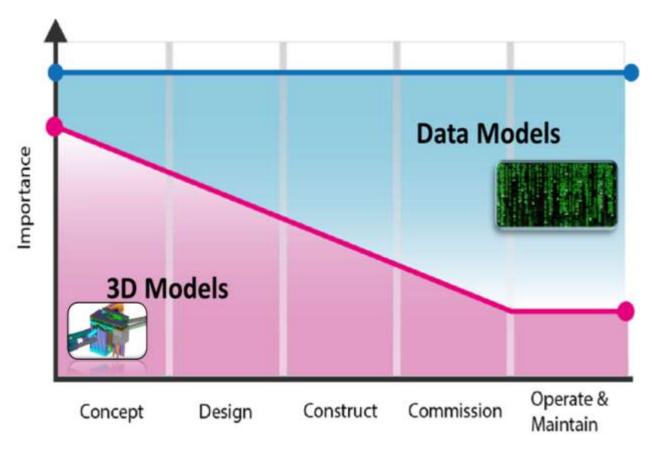
GIS

## **INFORMATION**

## Graphical / Non-Graphical Models



- Information
- Data environment
- Data integrity
- Collaboration
- Technology
- Asset life-cycle
- New processes
- New project culture

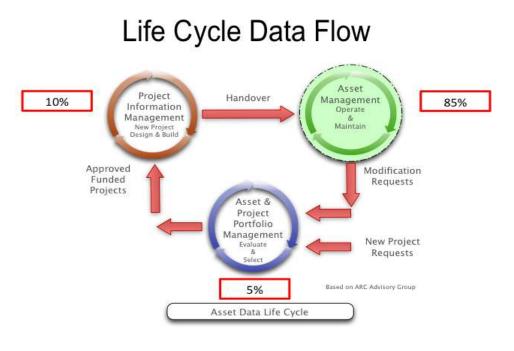


In Infrastructure

## THE ASSET IS THE BUSINESS

# Life Cycle Information

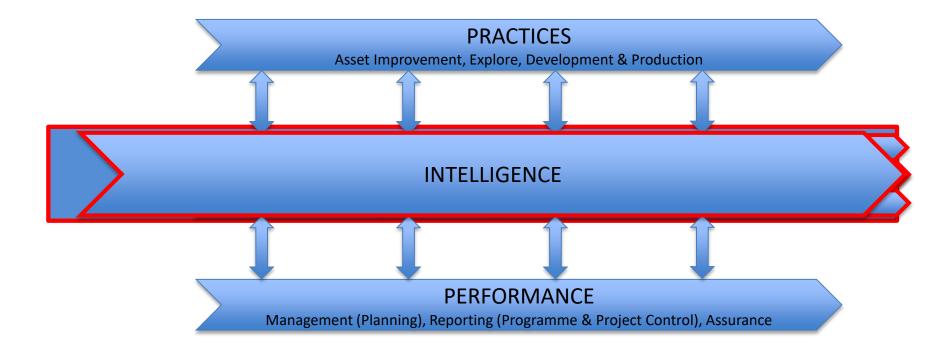
Asset information needs to cover the Life Cycle of an asset hence information captured and managed should cover the asset life cycle and not just one phase such as design or construction.



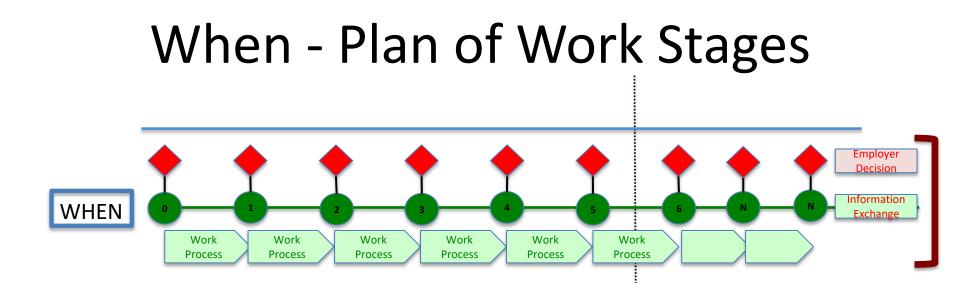
An asset begins life at conception not when its built and handed over



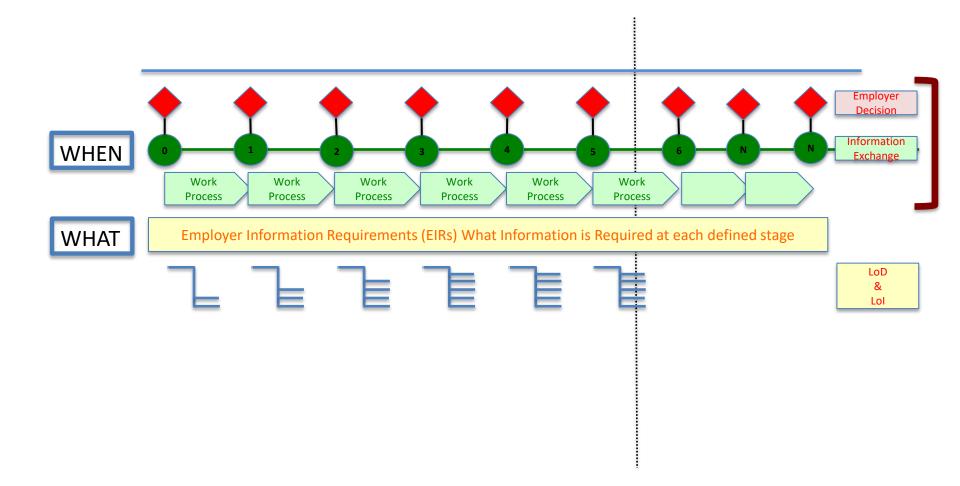
# The Information/Intelligence Spine







# Information Requirements Driven



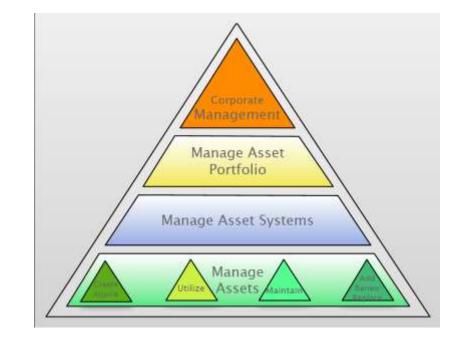
# Decisions Driven by Information Requirements

- Plain Language Questions (PLQs
- Drive out requirements
- Lead to Information
   Delivery that can be tested
   for content and
   completeness
- Inform the delivery decision process

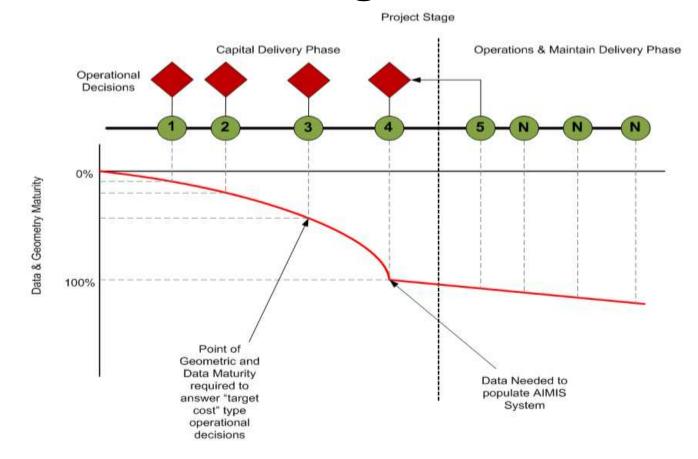


# Information Management Requirement

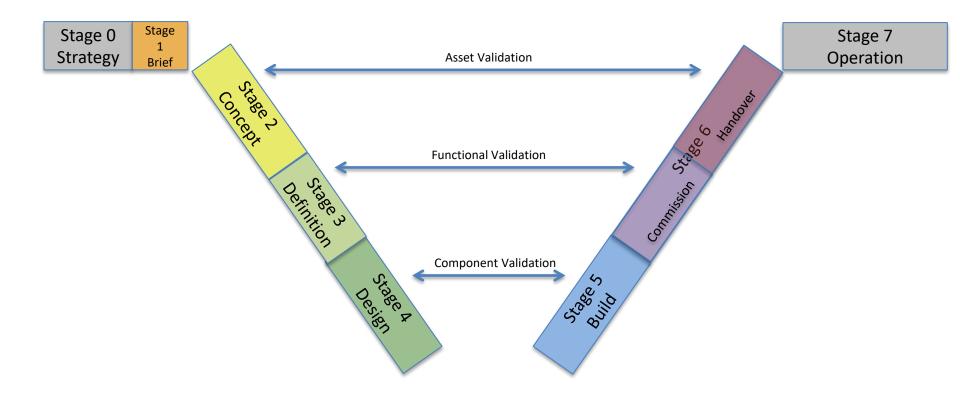
- Information management includes:
  - Organisation Strategy Management
  - Tactical Portfolio Management
  - Operational Management
  - Day to Day Maintenance
  - Asset Acquisition
    - Strategy
    - Concept
    - Design
    - Construct
    - Commission

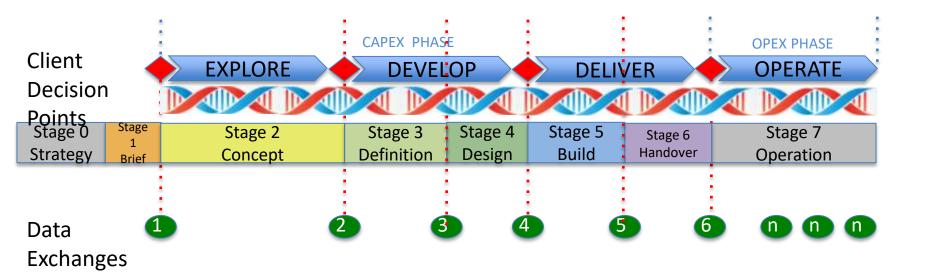


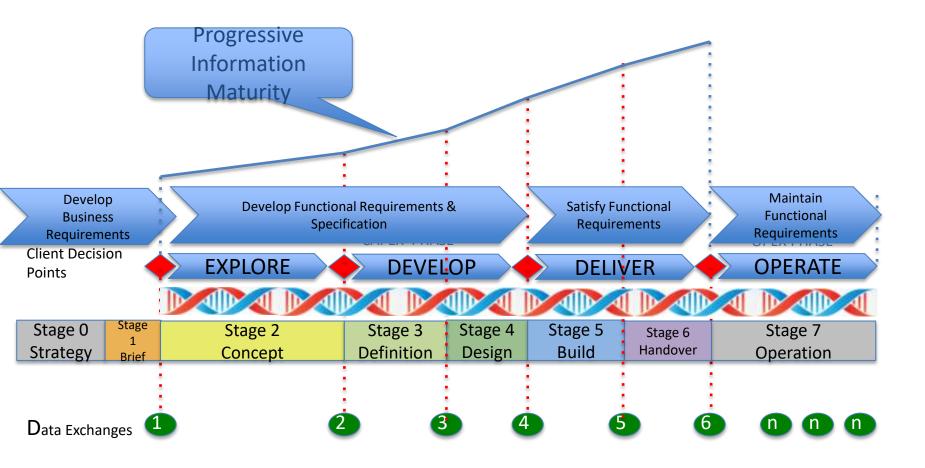
# Progressive Information through the Stages

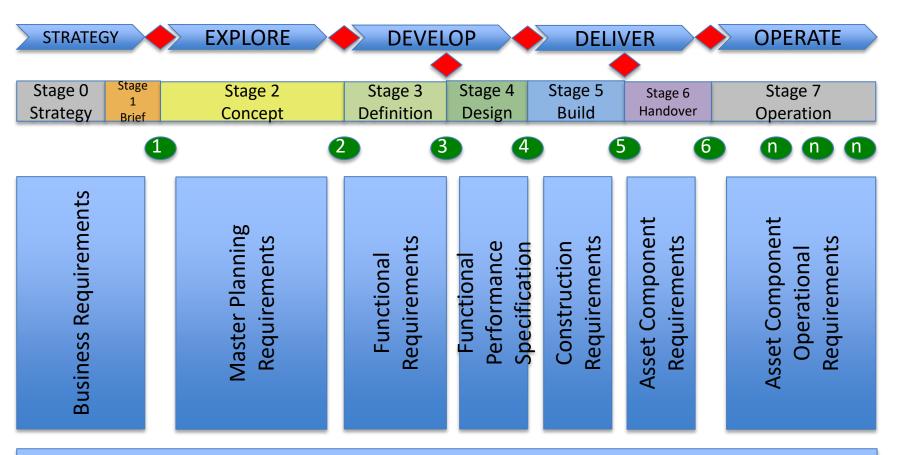


## **Systems Approach to Information Delivery**



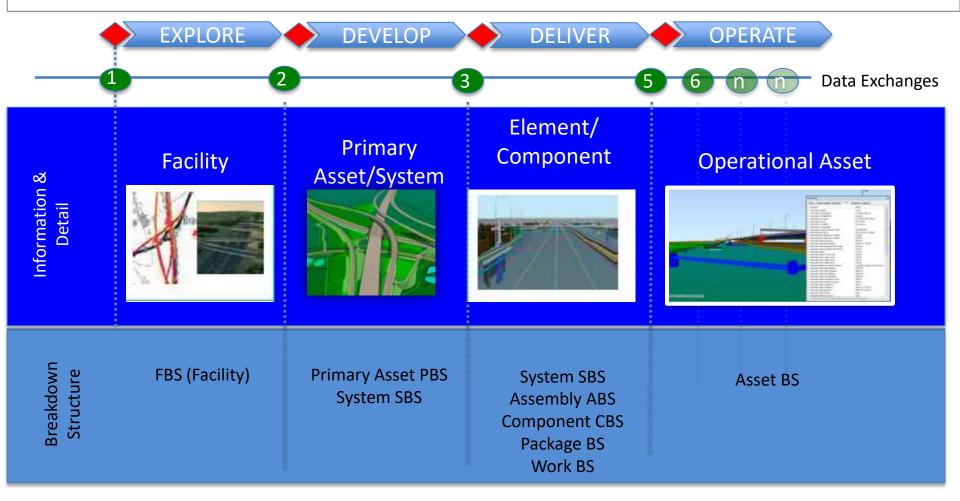


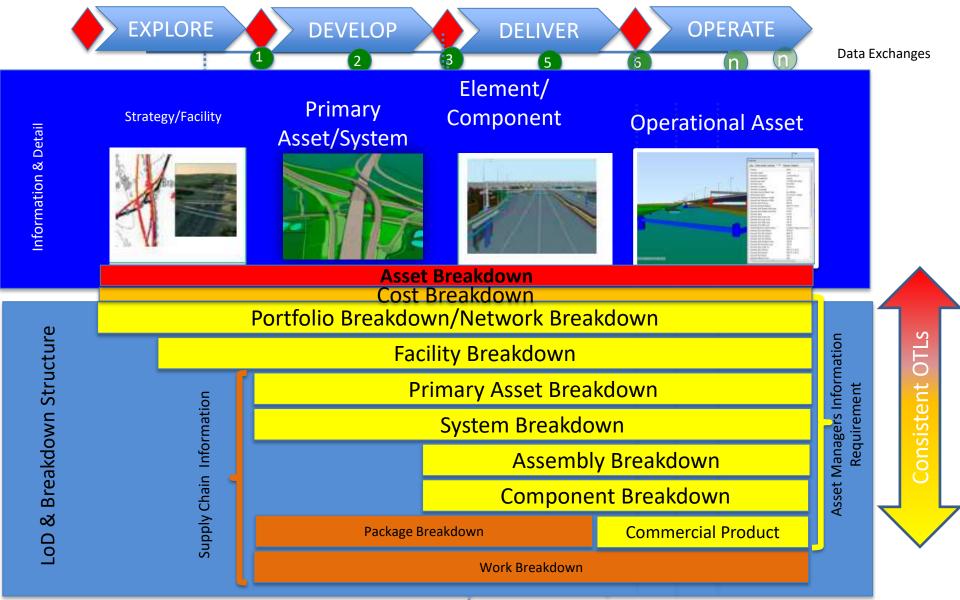




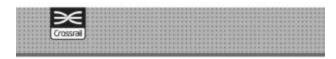
Stage by Stage Information Requirements

## Increasing Information Level of Definition & Maturity through Stages





# **Object Type Libraries/AD4s**



#### ASSET DATA DICTIONARY DEFINITION DOCUMENT (AD4) L152 – DIAPHRAGM WALL

Document Number:	CRL1-XRL-Z3-ADD5D-CR001-50031
Document Revision:	2.0

L152 - DMPHRAGM WALL CRL 1-KRL-23-ADDSD-CR801-59031 Revision 2.0

#### 2 Asset Tag Identification Rules

Assets will be identified as required by the Asset Identification Standard in the following format.

<LCS Code><Function Code><incremental number to ensure uniqueness>

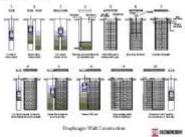
#### eg. C125-885-12345

Daphragm Walk are constructed of a number of individually poured sections with joints between each section. Each individual section/pour does not constitute an individual asset. The Asset will constitute a confinuous run of individual sections/pours. The asset would be deemed to have finished at the last section/pour or where the wall meets a correr (with another wall).

	-		 	
Par Pa	ar Pour	etc.	- 6 - 6 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	

#### Disphyagm wall = 1 Asset to be Tagged

#### 2.1 Example Images



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## 1 Addition for the second second

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- 245	1988	- 81-			The mark below generation.
125	- 64	16			COLUMN PROVIDENCE

ALL DESCRIPTION OF TAXABLE

Figure 1 Sector controls to an enter the sector for the Sector Se

#### Document History:

Revision:	Date:	Prepared by:	Checked by:	Authorised by:	Reason for Issue:
1-0	02-02-12	Mick Mildrog- White	Julian Schwarzenbach	Ross Danten	First Issue
2.0	23-Apr-2013	Nick Midmay- White	Kinsten Martindale	Ross Denter	Standardisation of Atribute Names and New Branding

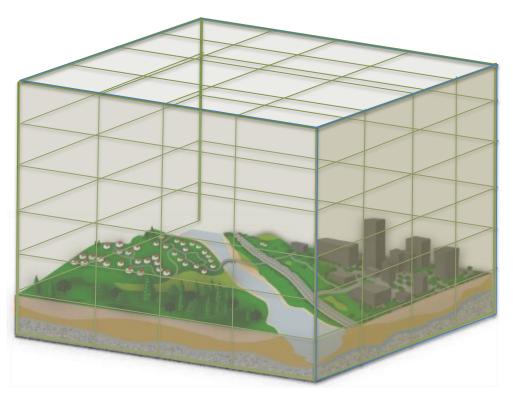
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Downerst anomalies are primes. All contrared downersts are cause on the CRL Downerst System © Crosssrall Limited RESTRICTED

## How - Process





# **Trusted Information**

- Process Supported
- ISO 19650 pending process standard
- Validated Verified Information
- Data creation
- Data Capture
- Coordination
- Checked in Process

