



BIM
Harambee
Africa
2026

From Models to Measurable Outcomes: How BIM, Coordination and Digital Delivery Improve Project Performance

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ABOUT ME

Atlegang Molefe

BIM, Data & DataOps Specialist | Modena AEC & Infrastructure



Works at the intersection of BIM, data and digital delivery



Specialises in BIM, data analytics and DataOps workflows



Transforms model information into project intelligence



Uses coordination data to support clearer project decisions

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THE BIM DATA LOOP

From Models to Measurable Outcomes

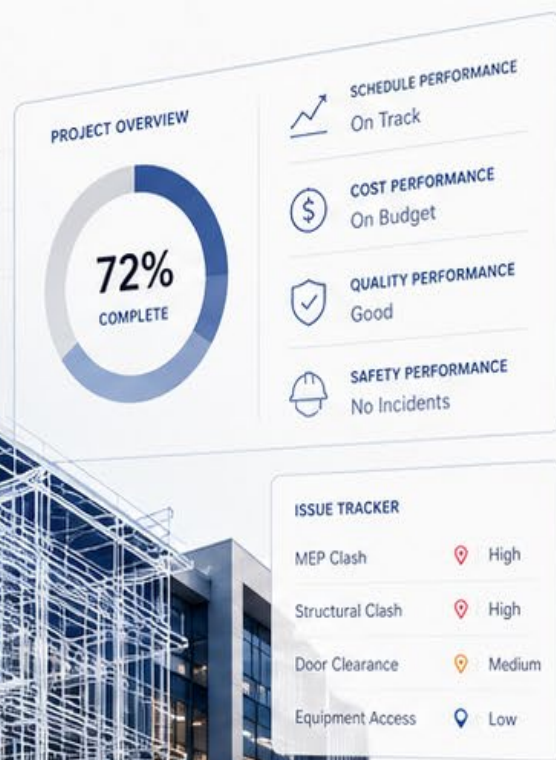
How BIM, Coordination and Digital Delivery Improve Project Performance



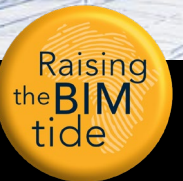
Atlegang Molefe | Design Technology Specialist / BIM Coordinator | **Modena AEC & Infrastructure**



BIMHarambee Africa 2026 | University of Pretoria | 24 July 2026



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The Shift

From Model Production to Project Performance

BIM success should not only be judged by whether a model was produced.



Model as Deliverable



3D model produced



Discipline-focused outputs



Static milestone handovers



Success judged by completion

VS



Model as Performance Data Source



Better coordination



Faster issue resolution



Improved accountability



Stronger handover information

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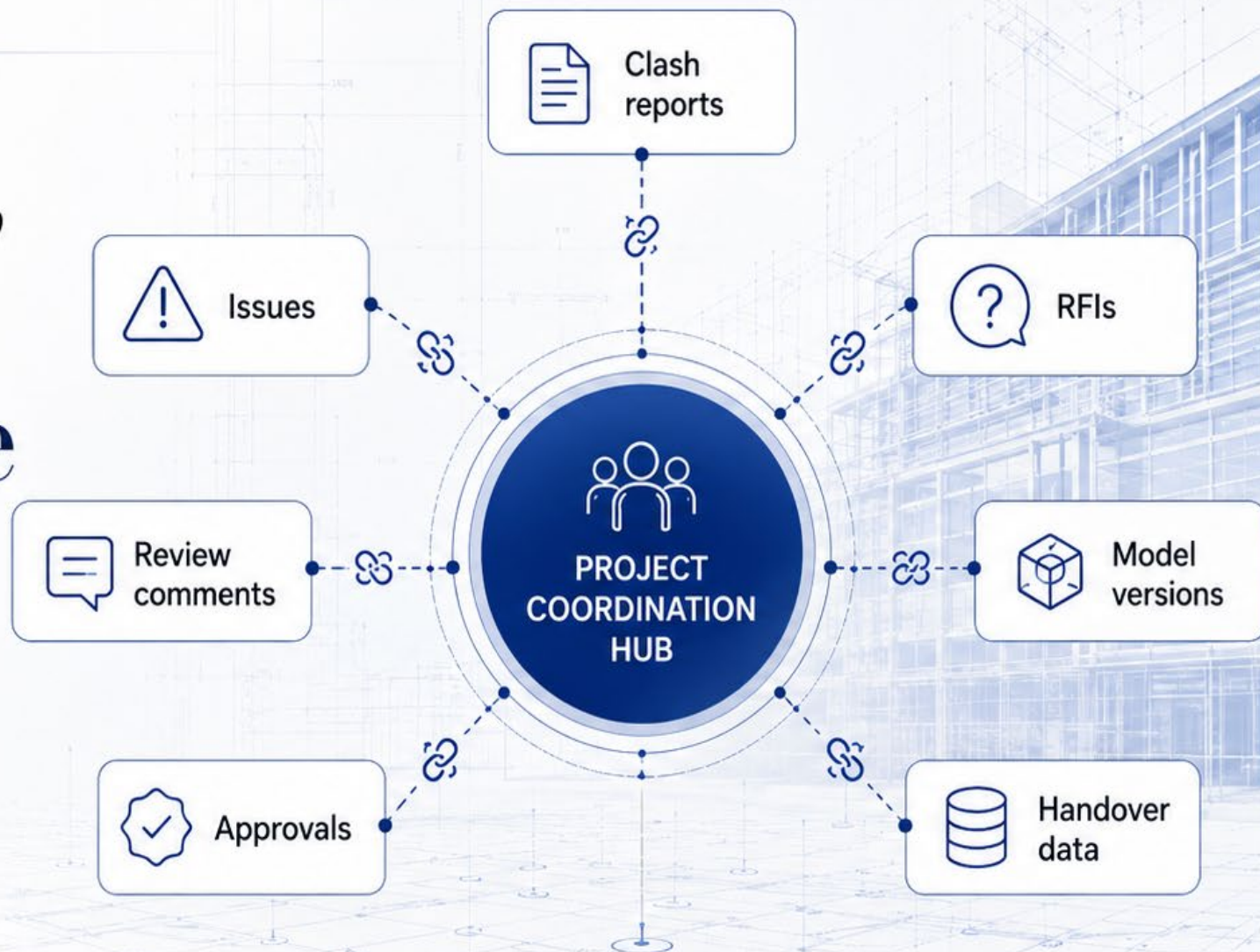
We Coordinate, But We Don't Always Measure

Disconnected information weakens visibility

Project teams create useful information every day, but it often gets lost across meetings, markups, reports, and disconnected platforms.



Coordination activity creates evidence — but only if it is captured and connected.



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BIM Is a Data Source, Not Just a 3D Model

Geometry shows form. Data creates control.



Every model object can carry information that supports coordination, reporting, risk management, and handover.



Elements
18,245
Model objects



Spaces
1,342
Spaces defined



Systems
72
MEP systems



Locations
5
Site locations



Disciplines
7
Model disciplines



Parameters
12,680
Data parameters



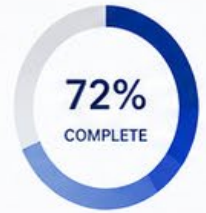
Versions
23
Model versions



Statuses
6
Workflow statuses



MODEL OVERVIEW



- SCHEDULE PERFORMANCE
On Track
- COST PERFORMANCE
On Budget
- QUALITY PERFORMANCE
Good
- SAFETY PERFORMANCE
No Incidents

MODEL TRACKER

- MEP Clash High
- Structural Clash High
- Door Clearance Medium
- Equipment Access Low



**WHEN WE TREAT THE MODEL AS DATA,
BIM STARTS SUPPORTING DECISION-MAKING.**

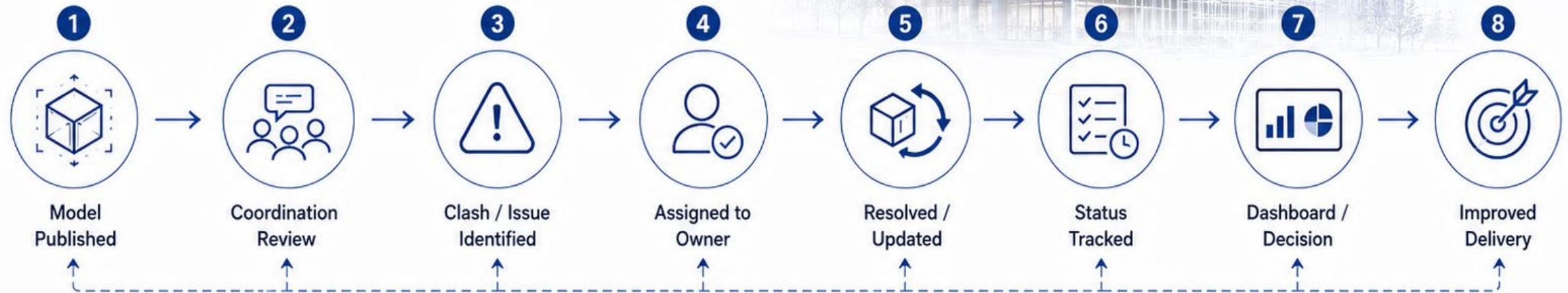
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THE BIM DATA LOOP

The BIM Data Loop

From coordination activity to project intelligence



Model Data



Coordination Data



Delivery Data



Project Intelligence

PROJECT OVERVIEW



	SCHEDULE PERFORMANCE On Track
	COST PERFORMANCE On Budget
	QUALITY PERFORMANCE Good
	SAFETY PERFORMANCE No Incidents

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CASE STUDY

Department of Agriculture and Land Reform

Public-Sector Digital Delivery



PROJECT CONTEXT

- Public-sector / institutional delivery environment
- Multiple stakeholders and structured information requirements
- Coordination across design and delivery teams



DIGITAL DELIVERY FOCUS

- BIM coordination
- Issue tracking
- CDE-based collaboration
- Review and information-control workflows



DATA VALUE

- Visibility of responsibilities
- Tracking of coordination issues
- Improved information quality
- Stronger handover readiness



PROJECT OVERVIEW	
MODELS	12
DISCIPLINES	08
ISSUES	28
DOCUMENTS	156

ISSUE STATUS	
OPEN	14
IN REVIEW	9
CLOSED	5

DISCIPLINE BREAKDOWN	
Architectural	100%
Structural	100%
Mechanical	100%
Electrical	100%
Plumbing	100%

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THE BIM DATA LOOP

Case Study Profiles

Cape Station | Lilongwe Hotel | Lefika Villas, Sun City

PROJECT OVERVIEW



- SCHEDULE PERFORMANCE**
On Track
- COST PERFORMANCE**
On Budget
- QUALITY PERFORMANCE**
Good
- SAFETY PERFORMANCE**
No Incidents

01 CAPE STATION



PROJECT FOCUS

- Complex stakeholder and coordination environment



USEFUL DATA

- Issues by discipline, location, urgency and status

02 LILONGWE HOTEL



PROJECT FOCUS

- Multidisciplinary hospitality delivery



USEFUL DATA

- Review cycles, model coordination, issue closure and information completeness

03 LEFIKA VILLAS, SUN CITY



PROJECT FOCUS

- Residential / hospitality-style project delivery



USEFUL DATA

- Quality control, repeatable coordination standards and consistency across units / spaces

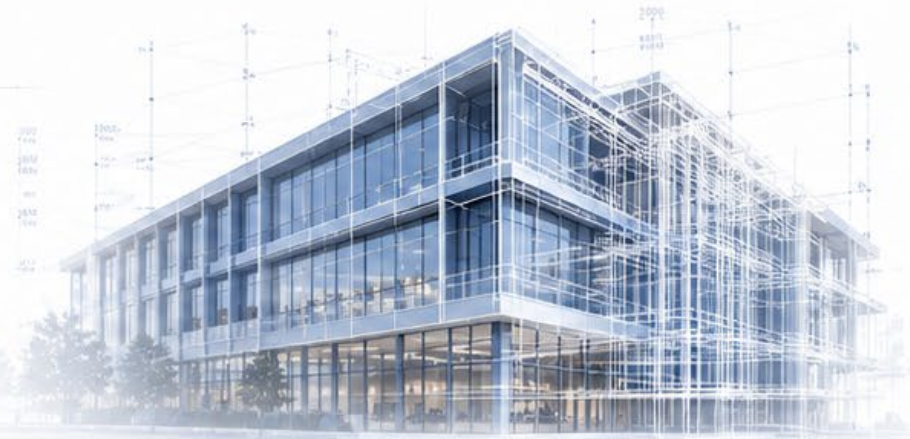
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From Coordination Activity to Measurable Outcomes

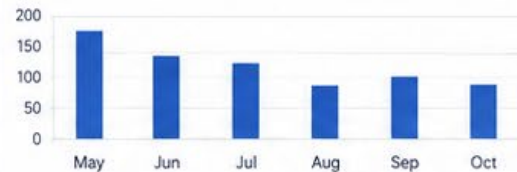
What we should be measuring



1 OPEN VS CLOSED ISSUES



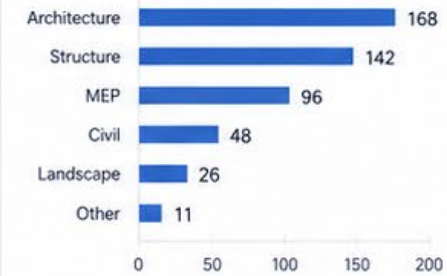
2 OVERDUE COORDINATION ITEMS



3 AVERAGE ISSUE CLOSURE TIME



4 ISSUES BY DISCIPLINE



5 ISSUES BY LOCATION / ZONE



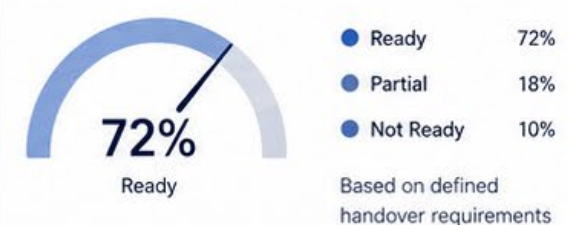
6 REVIEW CYCLE DURATION



7 MODEL INFORMATION COMPLETENESS



8 HANDOVER DATA READINESS



PROJECT OVERVIEW
On Track

SCHEDULE PERFORMANCE
On Budget

COST PERFORMANCE
On Budget

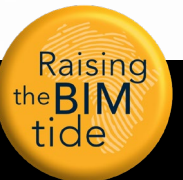


DATA HEALTH
High Quality

COORDINATION COMPLETENESS
On Track

HANDOVER READINESS
Medium

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THE BIM DATA LOOP

Don't Just Model Better. Measure Better.

CLOSING TAKEAWAY



BIM

+



Coordination

+



Digital Delivery

+



Data

=



Measurable
Outcomes

KEY TAKEAWAYS



Coordinate
earlier



Track issues
properly



Measure delivery
performance



Use data to
support decisions



Preserve
information for
handover



The future of BIM in Africa is not only better models.
It is better project intelligence.

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PROJECT OUTCOME¹



SCHEDULE PERFORMANCE
On Track



COST PERFORMANCE
On Budget



QUALITY PERFORMANCE
Good



SAFETY PERFORMANCE
On Track

Raising
the **BIM**
tide