



26 July 2024: Session 1

A BIM Workflow

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BUILDING
INFORMATION
MODELLING



BETTER
INFORMATION
MANAGEMENT

BUILDING INFORMATION
MODELING (BIM) HAS
REVOLUTIONIZED THE
ARCHITECTURE,
ENGINEERING, AND
CONSTRUCTION (AEC)
INDUSTRY

**MORE
EFFICIENT
COLLABORATION**

**MORE
EFFICIENT
MANAGEMENT**



BIM - KEY STAGES

PRE-DESIGN PHASE

Defines the project objectives by creating a BIM Brief and a subsequent BIM Execution Plan (BEP).

DESIGN PHASE

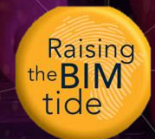
Refines the model through collaboration, iterations, and clash detection.

CONSTRUCTION PHASE

Allows the contractor to have access to a live version of the final building model & guides the building process with real-time updates.

OPERATIONAL PHASE

Utilizes the BIM model for facility management and efficiency throughout the building's lifecycle.



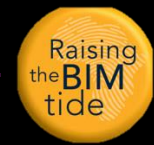
FUNDAMENTALS



Protocols

Process

Technology





PROTOCOLS

STANDARDS

- PROJECT STAGES
- LOD LEVELS
- DOCUMENTATION PROTOCOLS

INTELLECTUAL PROPERTY

- DATA EXCHANGE
- COMMON DATA ENVIRONMENTS

COMMUNICATION

- INFO REQUIRED AND WHEN
- MEETING REQUIREMENTS
- EXCHANGE REQUIREMENTS AND STAGES





PROCESS





BIM BRIEF AND BIM EXECUTION PLAN

- BIM BRIEF OUTLINES PROJECT REQUIREMENTS, GOALS AND STANDARDS REQUIRED FOR CONSTRUCTION
- BEP DETAILS IMPLEMENTATION GUIDELINES



IDENTIFY PROJECT STAKEHOLDERS

OWNER / DEVELOPER

CONSULTANTS

END USERS / OPERATOR



IDENTIFY TARGET MODEL USES / BIM GOALS

- PRESENTATION
- CONSTRUCTION
- OPERATION

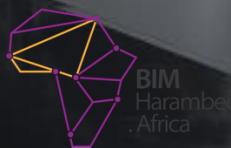


IDENTIFY PROJECT TEAM CAPABILITY

PROFICIENCY

WILLINGNESS

STRUCTURE



TECHNOLOGY



SOFTWARE SOLUTIONS

CONCEPT

- AUTOCAD
- SKETCHUP
- FORMIT
- REVIT
- INFRAWORKS
- FORMA

DELIVERY

- AUTOCAD
- REVIT
- ARCHICAD
- CIVIL3D

OPERATION

- TANDEM
- MATTERPORT
- BENTLEY ITWIN



INFORMATION EXCHANGE ENVIRONMENT



- EMAIL
- ACONEX
- SHAREPOINT
- FTP
- ACC





CLOUD

SERVER

**NETWORK
ENVIRONMENT**

