BIM Use Definitions (BUD) Revisions and Mapping

NBIMS-US™ V4 BIM Use Definitions Workgroup

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# BIM Use Title Revisions

The following table shows revisions to BIM Use titles from previous versions of NBIMS and the BIM PxP Guide.

|  |  |  |
| --- | --- | --- |
| **PSU BIM PxP Guide - 2.1 /**  **NBIMS V3​** | **PSU BIM PxP Guide 3.0​** | **NBIMS V4​** |
| Existing Conditions Modeling​ | Capture Existing Conditions​ | Capture Conditions​ |
| Programming​ | Analyze Program Requirement​ | Establish Project Requirements​ |
| Design Authoring​ | Author Design​ | Author Design​ |
| Cost Estimation​ | Author Cost Estimate​ | Generate Estimates​ |
| Phase Planning​ | Author 4D Model​ | Sequence Construction​ |
| Site Utilization Planning​ | Author Construction Site Logistics Model​ |
| Design Reviews​ | Review Design Model(s)​ | Review Design​ |
| Site Analysis​ | Analyze Site Selection Criteria​ | Analyze Design​ |
| Structural Analysis​ | Analyze Structural Performance​ |
| Lighting Analysis​ | Analyze Lighting Performance​ |
| Energy Analysis​ | Analyze Energy Performance​ |
| Mechancial Analysis​ | Analyze Engineering Performance​ |
| Other Engineering Analysis​ | ​ |
| Disaster Planning​ | Analyze Emergency Management​ |
| 3D Coordination​ | Coordinate Design Models​ | Coordinate Design and Construction​ |
| ​ | ​ | Produce Construction Documentation​ |
| Construction System Design​ | Author Temporary Construction Systems Model​ | Author Temporary Work​ |
| Digital Fabrication​ | Fabricate Products​ | Generate Fabrication Details​ |
| 3D Control and Planning​ | Layout Construction Work​ | Layout Construction Work​ |
| Record Modeling​ | Compile Record Model​ | Compile Record Deliverables​ |
| Maintenance Scheduling​ | Monitor Maintenance​ | ​ |
| Building System Analysis​ | Monitor Systems Performance​ | Monitor Performance​ |
| Asset Management​ | Monitor Assets​ | Monitor Assets​ |
| Space Mgmt/Tracking​ | Monitor Space Utilization​ | Monitor Space ​ |

# Common BIM Uses by Phase

The table below shows the typical phase in which the defined BIM Uses are commonly used.

A diagram of bim uses

Description automatically generated

# BIM Use Attributes

The following table lists the attributes that should be defined when creating additional BIM Uses.

|  |
| --- |
| BIM Use Attributes |
| Name |
| Definition |
| Related Terms |
| Example BIM Use Cases (Methods and Outcomes) |
| Potential Benefits |
| Considerations/Commentary |
| Inputs |
| Outputs |
| Predecessor BIM Use(s) |
| Successor BIM Uses |
| Competencies |
| Methods/Tools |
| Resources |
| Version ID |
| Author |