Partnership Sound Transit

Asset Data and Building Information Modeling Specifications

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National Conversation: BIM for FM

Building Information Model (Design & Construction)

Building and Infrastructure Information Management (Operations & Maintenance)

Direct Digital Transfer

- GIS
- Space Planning
- Repair Orders
- Reports
- Records
- Backflow Prevention Testing
- CMMS/EAMS
How can BIM help owners with transitions from construction to operations, and how can it help owners operate their facilities more efficiently?
COBie: Construction Operations Building information exchange

1- COBie in a Project Life-cycle

Planning → Design → Construction → Operation, Maintenance, and Disposal

2- COBie in a Product Life-Cycle

Data Reuse throughout project
- Manufacture’s Product Data
- Operations Manuals

Digital Transfer
- Design Documents

Digital Transfer
- Construction Documents

Digital Transfer

CMMS/EAMS
- Operations and Maintenance
- AP&P

Vision set by Bill East, USACE
Adopted by NBIMS and Published on Whole Building Design Guide
COBie: Construction Operations Building Information Exchange

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In practice, to date:

- BIM
- EXCEL Spreadsheet
- CMMS (Trapeze EAMS)
Information Transfer and Coordination Across the Project Life Cycle

DECM
- Engineering and Planning
- Asset Data Specification
- Estimating/Budget Control

Operations
- ST Finance
- ST Maintenance
- ST Conditions Assessment / Life Cycle Planning

CENTER FOR EDUCATION AND RESEARCH IN CONSTRUCTION
Department of Construction Management, College of Built Environment
Sound Transit _ CERC

Impact: “Changed the dialog in Sound Transit”

> Neutral and Knowledgeable 3rd Party
> Identified solutions and overcome obstacles

Reports:

Specifications
- Asset Data Specifications for Asset Planning
- BIM Implementation for Design and Construction
- Record Modeling
CERC – Opportunities for Partnership

> Research Internships
> Applied Research Consortium
> Technical Assistance Contracts
> Training and Professional Development

Save the Date
New Frontier’s Conference March 16, 2017
> Preconference activities March 15
> AEC Hackathon in Spring