Construction Management Solution – *Constructing the Digital Asset*

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Digital Asset Video
Lifecycle of Digital Asset
Solutions for the Digital Asset
AVEVA – Solutions at a Glance
Constructing the Digital Asset
AVEVA’s Solution

Key Concept #1 – Work Packaging

- **Project Planning at Highest Level**
  - **Construction Work Packages (CWP)**
    - Work Scope and Budget
    - Material, Documents, Drawings, etc.
    - Schedule
    - Responsible, Crew, Trade, Contractor, etc.

- **Workface Planning at Lower Level**
  - **Installation Work Packages (IWP)**
    - IWP Report
      - Detailed and discrete work scope and budget
      - Specific required material and related documents
      - Schedule and sequence
      - Responsible crew, etc.
The Project ...
The Goal ...
Key Concept #2 – 4D Planning

- Integrating the schedule with the 3D model
  - Simulate construction sequence to verify correct planning
  - Visualize installation and completion status by color-coding objects in 3D model
Material Scoping and Model Integration

Step 1: Select item in the model or from a list

Step 2: Assign to Work Pack
AVEVA’s Solution

Key Concept #3 – Integrated with Materials Management

- Visualize material and resource availability
  - Proactively expedite material or modify schedule to accommodate material shortages
AVEVA’s Solution

Key Concept #4 – Visualization

IF YOU HIT THIS SIGN, YOU WILL HIT THAT BRIDGE
Visualization

- **Resource Load**
  - Man power, machinery

- **Material Status**
  - To support the execution of work on-site
  - Visualise material availability, i.e. give a warning if material won’t be available on time

- **Project Status**
  - Colour code objects in a 3D Model depending on their status
  - Status of object gets derived from underlying work package status

- **Project Performance**
Visualization – Project Status
Continually Improving the Solution

- Auto-material association to CWP’s based on 3D model attributes

- Easy work pack creation independent of the Gant scheduling view/functionality

- One-button printing for the complete work pack with associated documents, drawings, etc.
Industry Best Practices

Advanced Work Packaging

Source: COAA & CII
Tomorrow’s Break Out Session

AVEVA Construction Management Solution Introduction and Live Demonstration

- Technology Track
- 1:00 – 2:00 p.m.
- Room TBD

Come see the value of the Digital Asset and opportunities to enhance construction process

Samuel Robinson
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Thank you