



► DEBOTTLENECK PRODUCTION FACILITIES – ABQAIQ
GOSP-(2, 3, 5, 6)

Design Workshop – ERM

Digital & Innovation Team

Thursday, 15th August 2024



System Overview

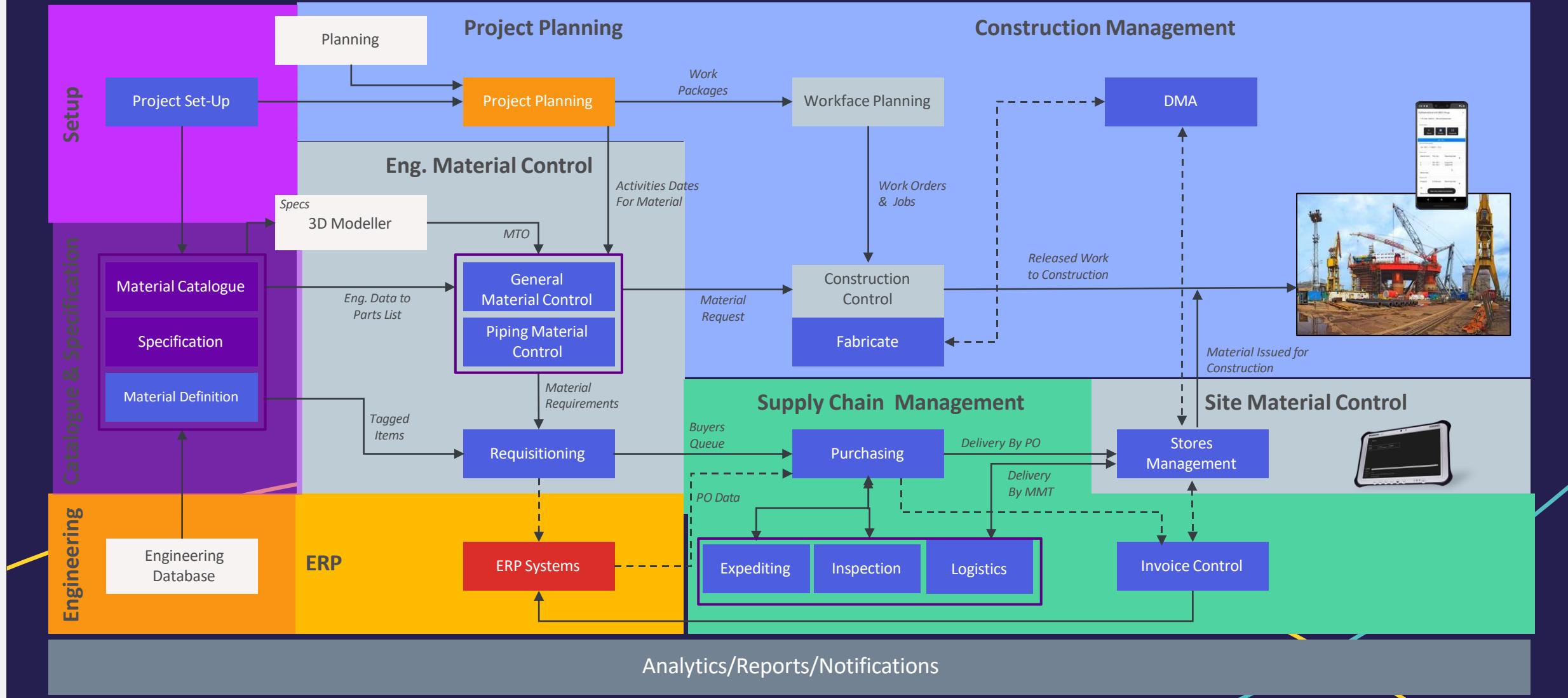
Schedule / P6 import /
Excel import

Material Management
– PO Status/Exiting
Systems

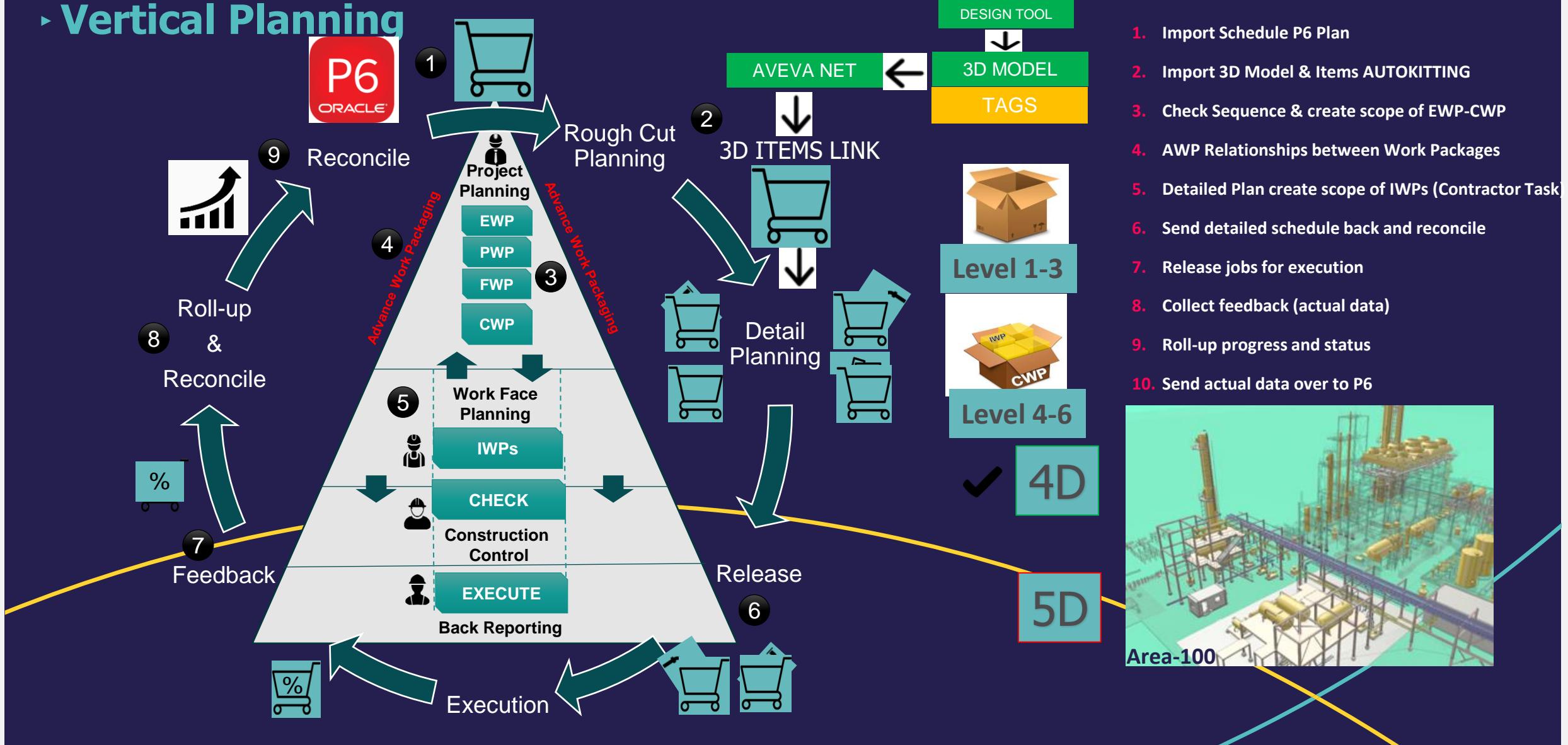
Interface with P6

Progress Calculation

Project Execution Process Lifecycle



Vertical Planning



Construction Management

- Effective work packaging in line with Advanced Work Packaging – “Beginning with the End in Mind”
- Allows 4D simulations and Workface Planning
- Engineering and Material readiness analysis to ensure that construction teams don't mobilize too early
- Configurable visualization support for Project Controls
- Project status and Progress capturing and monitoring
- Planning data can be loaded from Primavera P6 or Microsoft Project

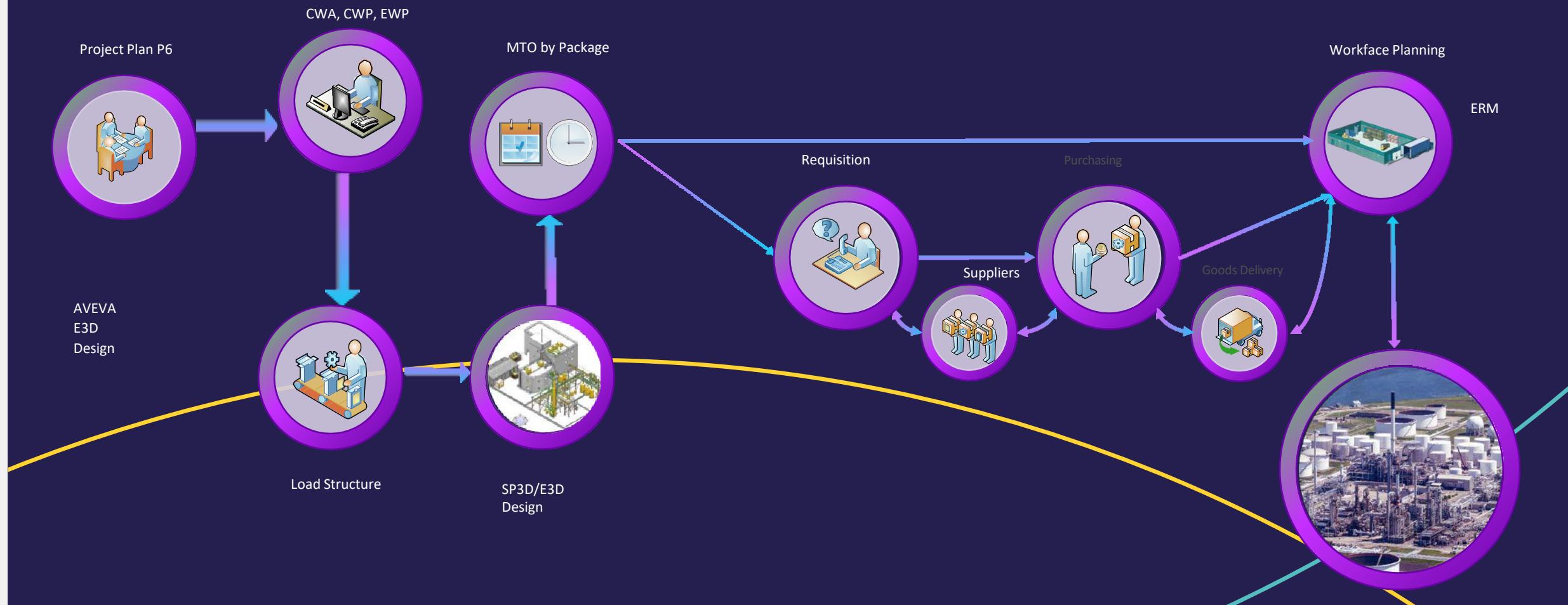


Materials Management

- Engineering Material Control manages the process up to requisitioning. It is the link between Engineering/Design and Procurement
- Intelligently feeding procurement with information about what to buy with right quantity
- Actively monitoring change in design and impact on procurement
- Material requisitions can be loaded into 3rd party ERP such as SAP, Oracle
- Reduced risk in procurement process, minimizing incorrect material orders and subsequent and unnecessary shipping



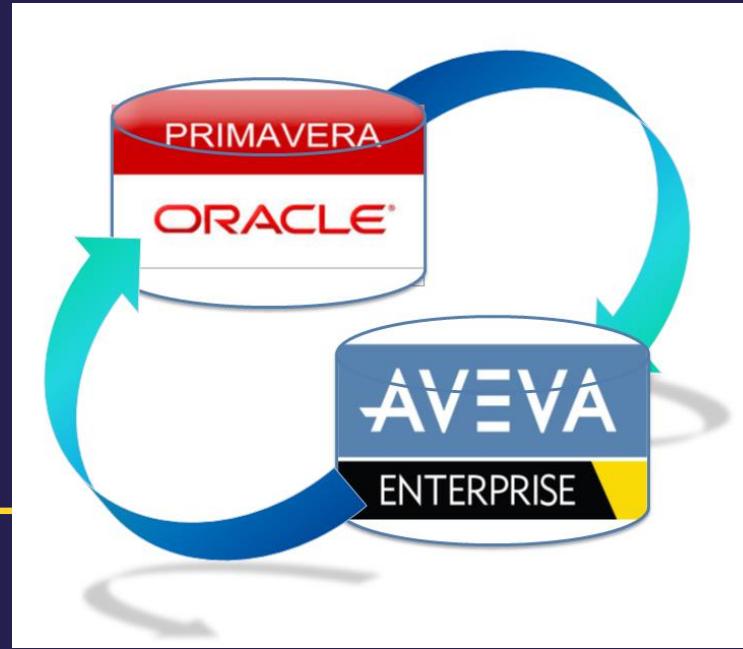
AVEVA Enterprise Resource Management, Design Tools



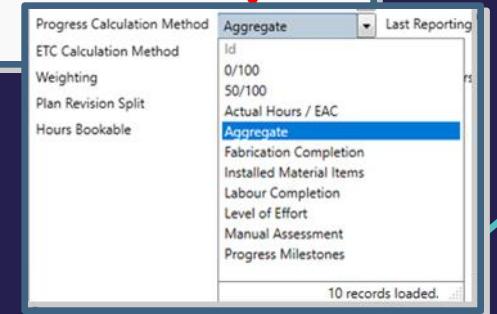
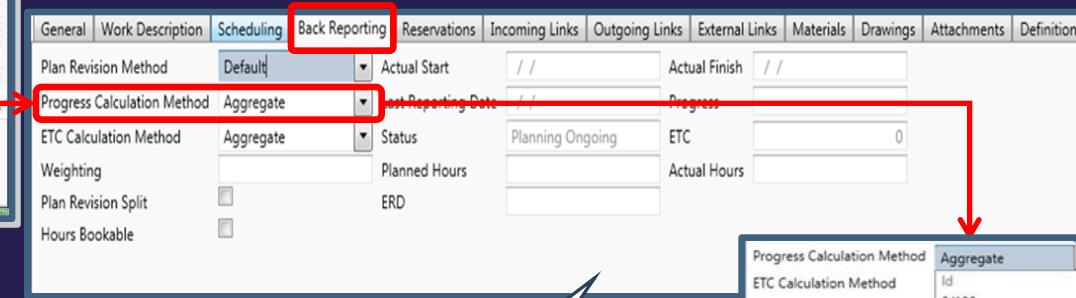
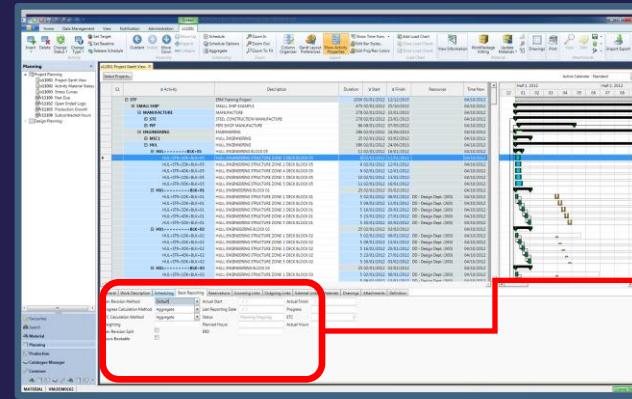
Integration with Project Planning data from/to other systems

- 1. PRIMAVERA
 - Powerful Web Service Interface & File Exchange (P6 .xml)
- 2. MS PROJECT
 - File Exchange (MSP .xml)
- 3. CSV
 - File Exchange (.csv)
- 4. BULK IMPORT
 - Staging area (.csv)

P6 – Integration – Web API



Progress Calculation Methods



1. 0 -100 = With an Actual Start date it stays at 0% until it goes to 100% with an Actual Finish date.
 2. 50 -100 = With an Actual Start date it goes straight to 50% until it goes to 100% with an Actual Finish date.
 3. Actual Hours / EAC = when progress is based on Actual hours and EAC so if there is 50 Actual Hours (50 actual + 150 estimate to complete) = 25%.
 4. Aggregate = collect Progress weight value from child activities
 5. Installed Material Items = [Explained on further slides](#)
 6. Fabricate Completion = [Explained on further slides](#)
 7. Labor Completion = [Explained on further slides](#)
 8. Level of Effort = is based upon the internal system date (current date) and the budget. If a linear budget spread and current date is on day 3 of a 10 day Job, the progress is set to 30%.
 9. Manual Assessment = [Explained on further slides](#)
 10. Progress Milestone = [Explained on further slides](#)

List of requirement

- 1: P6 XML file – Export form P6 for ABQAIQ project
- 2: Resource list
- 3: Calendar list with holidays
- 4: Rules of Credit – If applicable for the project
- 5: Norms hours – if applicable for the project
- 5: Project Start date and finish Date as per P6 Schedule

Thank You

