



STANDARDIZING THE DIGITAL BACKBONE FOR GLOBAL PROJECT DELIVERY

March 11, 2026



AGENDA

- Speaker Introduction
- Introduction to O3
- O3 & Worley
- Worley: Digital Enablement of AWP and Global Consistency
- Q&A
- Closing

Questions will be addressed during the Q&A.
Please submit your questions in the chat during the presentation.

The webinar recording and slides will be distributed after the webinar.

SPEAKER OVERVIEW



Andrew Foy

VP, AWP & Construction

- ☑ 20+ years experience in industrial construction
- ☑ 10+ years dedicated AWP implementation experience for a range of Owner organizations and technology leaders
- ☑ Former CII AWP Leadership Team Member, Committee Chair, Author





Colin Kemp

Director, Digital Construction & Commissioning Project Delivery

- ✔ Drives digital enablement for construction and commissioning delivery
- ✔ Champions AWP-aligned technologies for planning, coordination, and execution readiness
- ✔ Delivered AWP data platforms, automated systems, and enterprise-grade digital construction solutions





INTRODUCTION TO O3



THE PLATFORM FOR

Seamless Project Delivery

A digital project execution platform **purpose-built for capital projects**, driven by industry best practices, including Advanced Work Packaging (AWP), Agile, and Lean methodologies.

Work Package Management

Constraint Management

Workflows & Validations

Dashboards

4D Simulations

Task Management

Change Management

Punchlist Management

RFI Management

Risk Register

AWP Program Management

Core category for tools that **plan, execute**, and **track** projects end-to-end.

Construction Management

Tailored for construction-specific needs like **scheduling, resource allocation**, and **compliance**.

Stakeholder Collaboration

Cloud-based tools for team **coordination** and data sharing between vendors and partners.

Digital Twin 4D-BIM

Virtual replicas of physical assets for **simulation** and **optimization** through packaging.

ERP & Scheduling Add-In

Adjacent to existing ERP systems with **project-focused** modules.



Deliver Projects On Time and On Budget

From early phase planning to start up and commissioning, work is released and executed efficiently, predictably, and constraint free within and across each phase of the project lifecycle.



Best-in-Class Project Execution

We bring the benefits of AWP, Agile, and Lean practices to any project environment, empowering teams to work smarter and deliver high-impact results—while meeting all stakeholders where they are.



Increase Project Visibility

Accurate and timely tracking of project progress with improved forecasting of project completion.



Drive Positive Accountability

Collaboration and clear task assignment across all departments and companies involved.

WHAT SETS US APART



Next-Gen Platform

Our modern, cloud-based platform redefines how projects are managed, offering a seamless solution for the entire project lifecycle.



Scalable

Robust and scalable platform adapts to projects of any size or complexity.



Integrations

The most sophisticated data parsing capabilities of any solution on the market, with the ability to integrate and consume any data.



Standards

Built on AWP, an industry best practice declared by CII, while also embracing a flexible framework to optimize any project execution strategy.



Innovation

Evolves with your needs with biweekly releases and updates fueled by client input and industry trends, with a deep investment in Artificial Intelligence

OUR EXPERIENCE



600+ projects

25k+ users

92% client satisfaction



TRUSTED BY



COMMON DATA ENVIRONMENT

Progress Tracking
Rules of credits, digital paper

Quality & Completions
Punch items, systems, subsystems, status, NCRs

Estimating & Cost Control
Norms, Manhours calculations, actual cost

Document Management
Transmittals, Drawings, revisions, RFIs

Master Project Schedule
Activities, Planned Start, Planned Finish

Engineering & Design
3D models, Line List, Equipment list, Cable list

Material Management
PO, Inventory, material allocation & tracking

Detailing & Fabrication
Spools, Steel Assembly, BOM



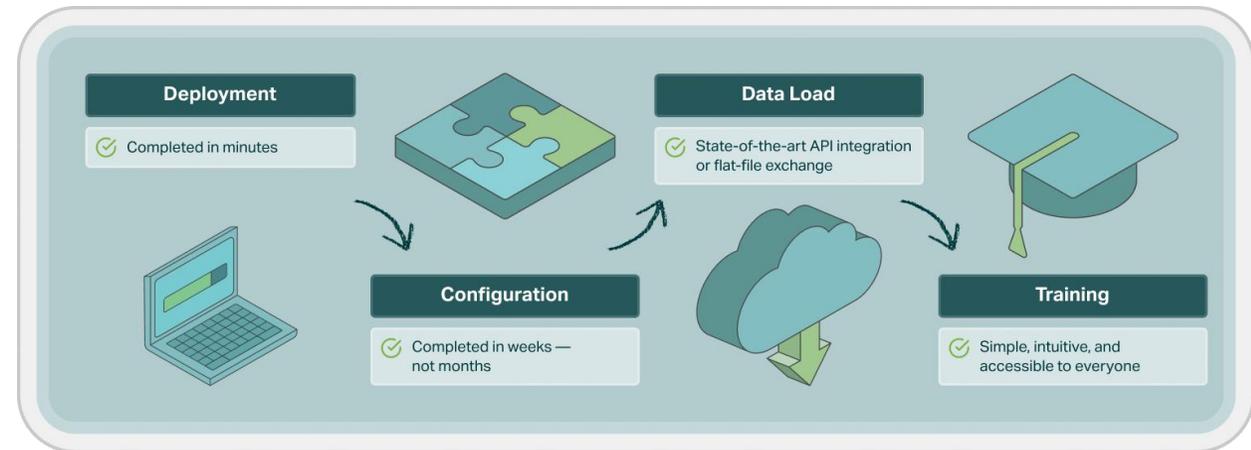
TIME TO VALUE



From Setup to Success in Just a Few Seconds

O3's implementation approach is built on the philosophy of rapid, self-sufficient deployment. With automated implementation, templated configurations, and sophisticated data handling, we minimize client effort and maximize efficiency.

- ✔ Get started in seconds with O3's "push of a button" automated deployment
- ✔ Apply templated configurations instantly for your first and future projects
- ✔ Seamlessly load data in seconds, leveraging industry-standard formats
- ✔ Empower your team with in-platform training to realize value in just a few hours
- ✔ Guided by O3's expert PMP-certified team



SECURITY



Industry-Leading Security to Protect Your Data

Our cloud-based platform adheres to the highest industry standards for compliance, encryption, and access control, ensuring your information is always protected. With robust measures in place, you can focus on project success while we safeguard your most critical assets.

O3 is AICPA SOC 2 Type II certified and holds a [Breachlock Certificate](#) of Secure Application.





O3 & WORLEY

O3'S JOURNEY WITH WORLEY



By TAP Project	Construction Management (AWP) Tool						
<ul style="list-style-type: none"> Stakeholders identified Prolog transition plan Construction Tools Gap Analysis Tools market evaluation Requirements identified and analysed <p>Success Criteria</p> <ul style="list-style-type: none"> Requirements & plan endorsed by business 	<ul style="list-style-type: none"> Market Assessment 	<ul style="list-style-type: none"> Vendor Engagement, Due Diligence and Shortlisting Requirements Specification Development 	<ul style="list-style-type: none"> Request for Quotation Bid Evaluations Proof of Concept Selection final Solution Change Management, Communication & Training Plan 	<p>Build and Validate:</p> <ul style="list-style-type: none"> Ph2A: MVP Ph2B: Full Solution Ph2C: Data Hub Integrations 	<ul style="list-style-type: none"> End User Training Materials Deployment Train the Trainers Ph2A: MVP Ph2B: Full Solution Ph2C: Data Hub Integrations 	<ul style="list-style-type: none"> Support by BAU organization and SME's 	
		Prolog Retirement					
		<ul style="list-style-type: none"> Define existing Prolog Functionality 	<ul style="list-style-type: none"> Define Replacement Tool(s) Prolog Transition Plan Change Management, Communication Plan Cover essential Prolog functionality if not delivered by AWP tool 	<ul style="list-style-type: none"> Provide essential Prolog functionality if not delivered by AWP tool Transition execution – Project-by-Project Retire Prolog by Sept. '23 Change Management & Communication 			
		Tools Retirement Acceleration			<p>Success Criteria Tool Retirement Acceleration</p> <ul style="list-style-type: none"> GSR status updated to "Decommissioned" for 34 tools 	<p>Success Criteria Prolog Retirement</p> <ul style="list-style-type: none"> Prolog execution & compliance risk mitigated Licence fees stopped Replacement Tool(s) and Transition Plan endorsed Prolog Transition 	<p>Success Criteria AWP Tool</p> <ul style="list-style-type: none"> Successful PoC and Solution Selection Partnership with software vendors MVP and Full Solution developed and rolled-out Data Hub Integration Global Adoption





WORLEY PRESENTATION

Digital Enablement of AWP and Global Consistency

Colin Kemp
Director of Digital Construction & Commissioning
Project Delivery Worley





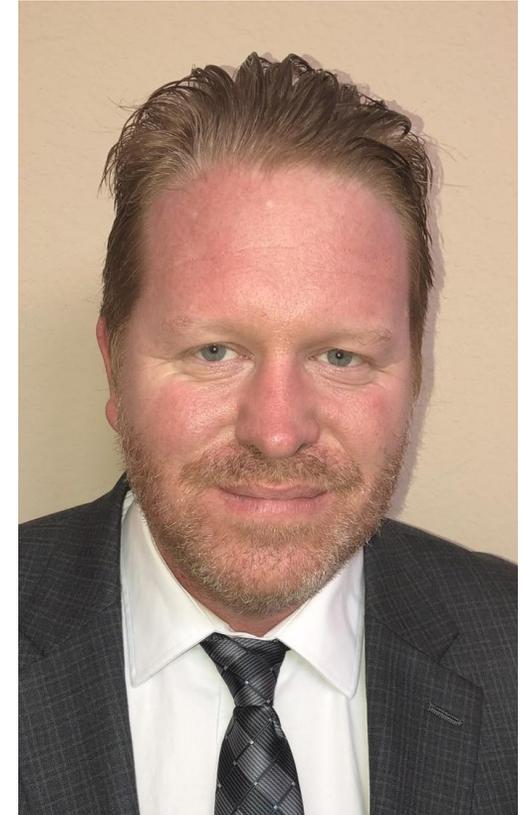
AGENDA

- AWP & Digital Construction Enablement
- AWP Data Requirements & Digital Threads
- AWP Data Centric Delivery
- Procedures and AWP Toolkit
- Q & A

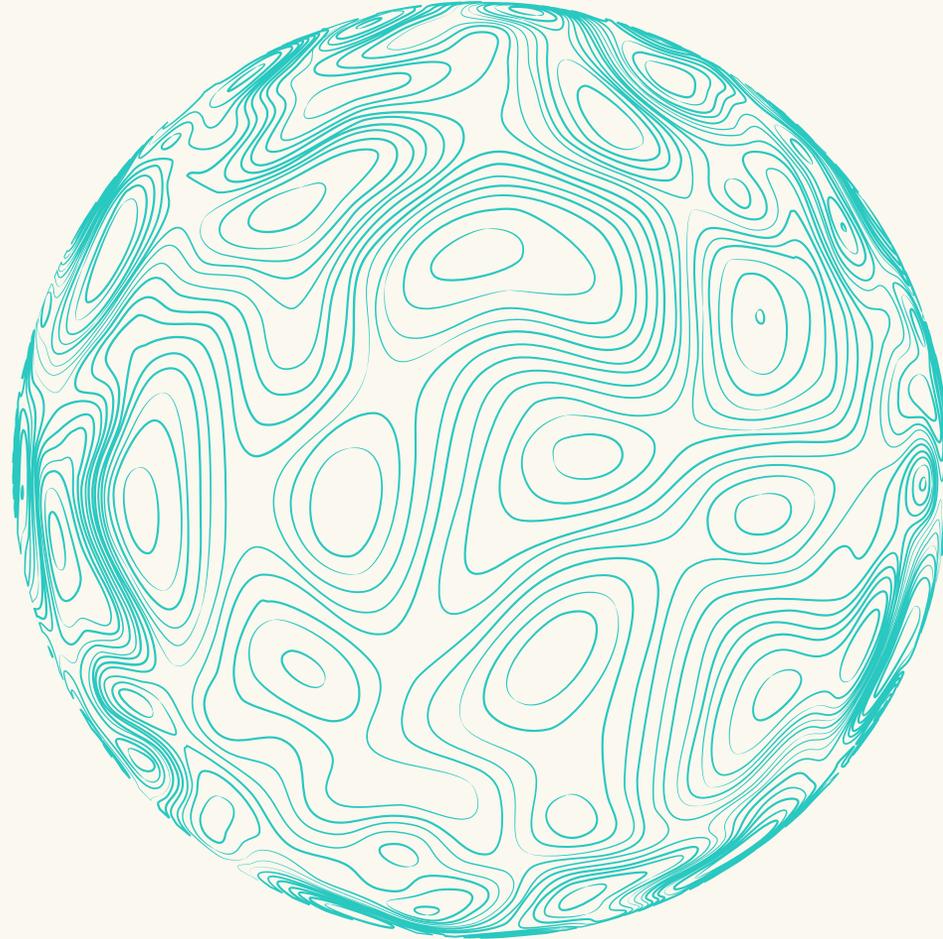
Speaker Overview

Colin Kemp

Director of Digital Construction and Commissioning Project Delivery at Worley Group Inc., based in Houston, where he drives digital enablement for construction and commissioning delivery. Across various leadership roles he has championed AWP-aligned technologies that strengthen planning, coordination, and execution readiness. His work includes delivering AWP data enabled platforms and automated construction systems, designing integrations, implementing workflow automation, and building enterprise-grade digital construction solutions and dashboards. Known for a pragmatic, execution-focused approach, he advocates for intuitive, value-driven tools that improve data continuity, reduce project friction, and elevate cross-disciplinary collaboration across the EPC landscape.



**AWP &
Construction Digital
Enablement**



The AWP Adoption Journey

Three Critical Stages of Adoption

Resistance

- Fear of complexity
- Perceived Disruption
- Skepticism of Change

"That's not how we do things"



Questioning

- Request for proof
- Demand pilots
- Healthy Skepticism



Eureka!

- This Really Works!
- Real-time Wins
- Project Clarity



What is Construction Digital Enablement

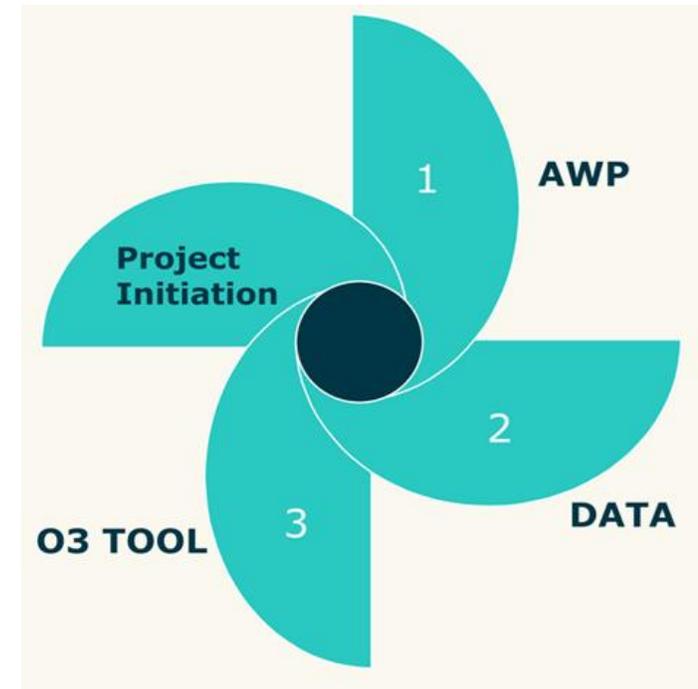
Construction Digital Enablement (CDE) is providing Worley with modern, scalable, and practical digital tools that enable project delivery excellence. We will be focused on deploying the AWP Methodology building integrations between O3 Solutions and many of our other global standard tools.

To further support **Worley's vision** of data centric project delivery, progress the fully integrated suite of project delivery tools and enhance the Worley AWP Methodology, providing a scalable and repeatable process across Engineering, Procurement, Project Controls and Construction.

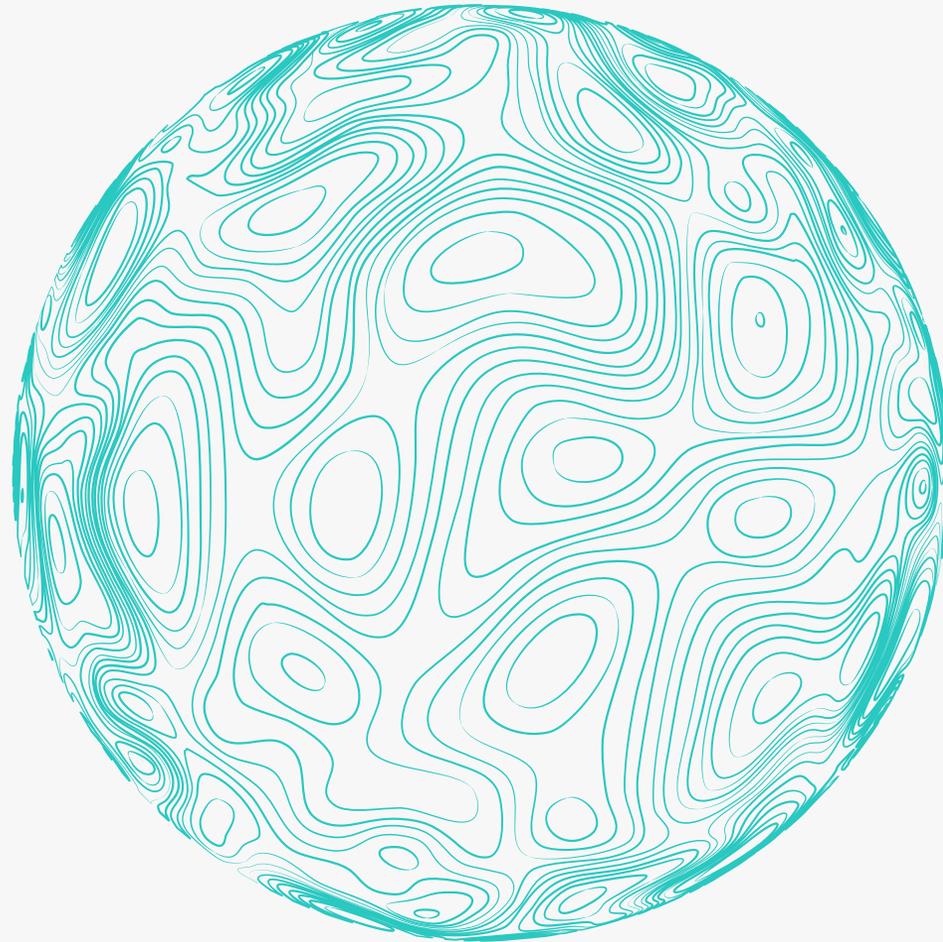
Offering the business **a comprehensive solution** for supporting complex projects effectively, leading to improved outcomes and better collaboration both regionally and globally through standardization and consistency of processes, procedures, and global standard tools.

Expected Business Benefits

- **For Worley:** provides eligible construction projects a scalable and repeatable process that meets the demands of contemporary EPCM construction projects, demonstrating Worley's capability and compliance with AWP Methodology.
- **For Customers:** improved customer experience as use of AWP requirements and industry standards met.



AWP Data Requirements and Digital Threads



Digital Project Delivery

Continuing our Data-Centric Journey

The move from document to data-centric delivery is a journey. CDE is enabling this journey to start.

Construction Excellence

Data Integration

Document-centric to Data-centric delivery journey

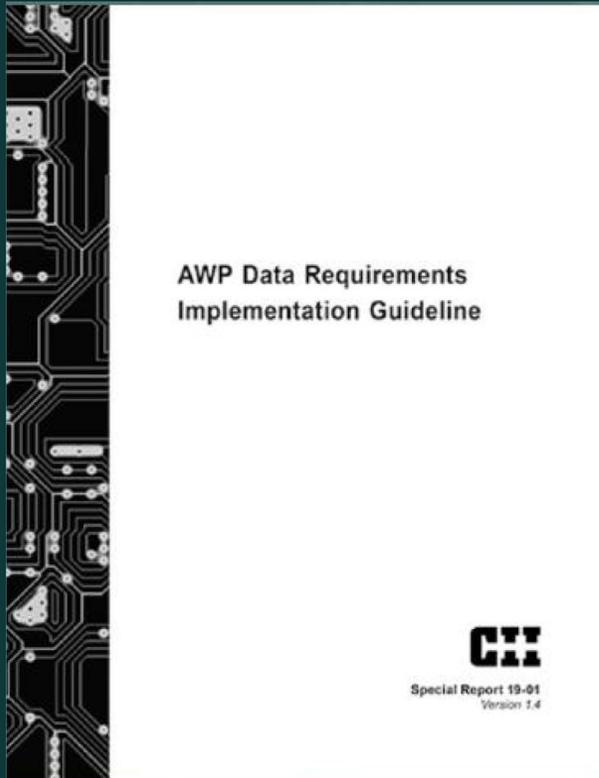


Remove Redundancy and standardised processes globally.



Ensure Customer needs are met and catch up with industry standards.

CII AWP Data Requirements



The Construction Industry Institute created the Advanced Work Packaging Data Requirements Implementation Guideline to provide a standardized framework for managing and integrating data across AWP processes. The guide aims to improve project performance by ensuring consistent data governance, interoperability, and alignment between different stakeholders, including owners, engineers, contractors, and suppliers.

What are AWP Data Requirements?

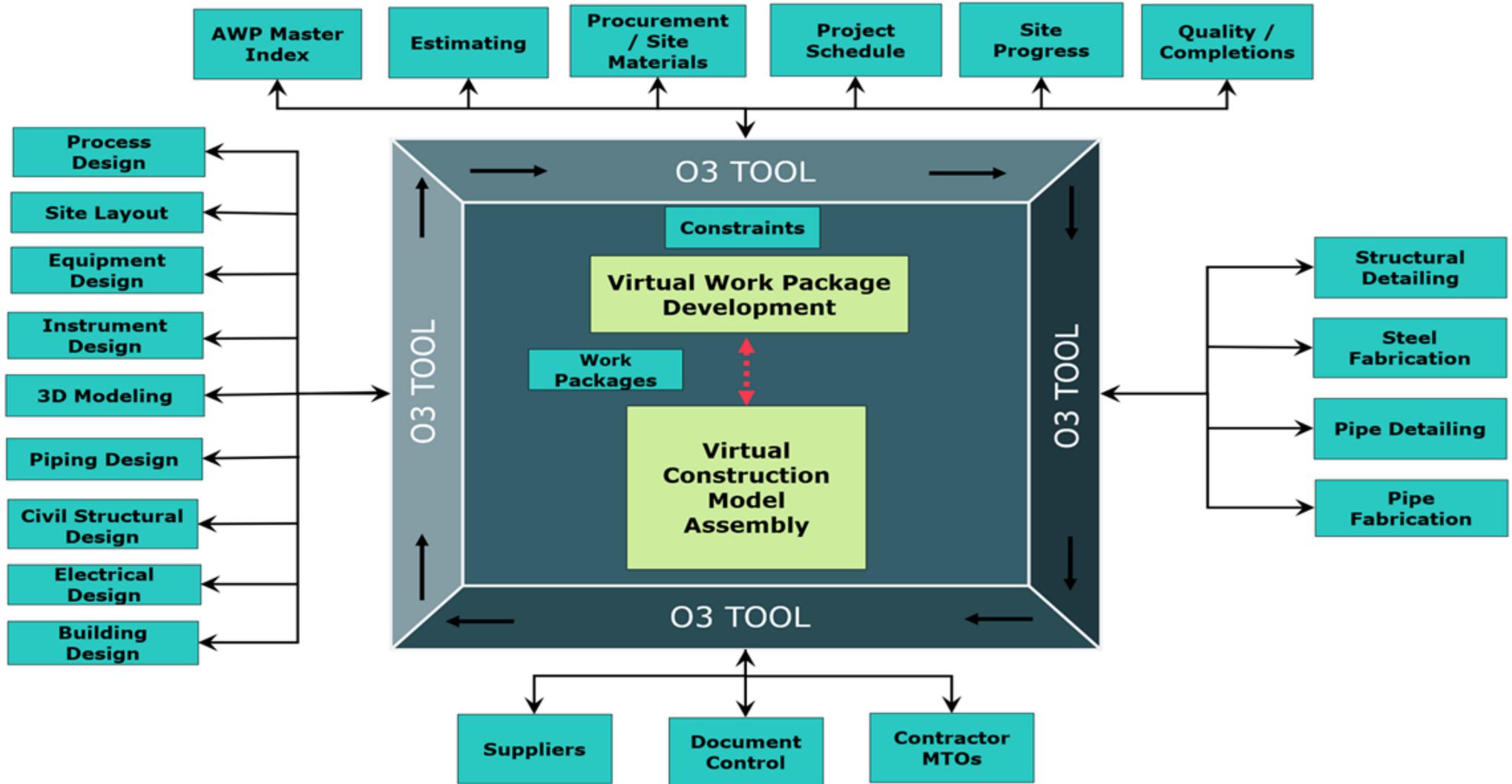
AWP Data Requirements outline the minimum requirements for data object attributes, including format, structure, and description. By specifying the minimum data requirements, communication is clarified, the quality of data is improved, and data integrity and integration can be realized.

Why Implement AWP Data Requirements?

The AWP data requirements specify key data attributes required to support full digital project execution, from project inception to completion. Having a clear understanding of data requirements across all project functions expedites the alignment of technology and software for planning, monitoring, and reporting, throughout the lifecycle of the project. The increased quality of data and data integrity also accelerates our digital transformation and moves organizations towards data based decision making in the future.

[View on CII Website](#)

Digital Threads

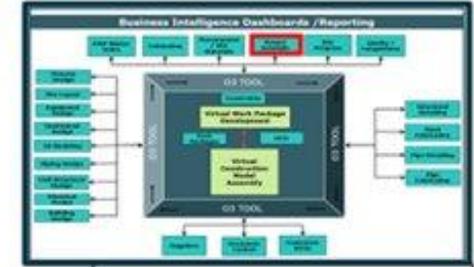


Digital Threads

Project Schedule

-  Data Templates
-  Microservice Sets
-  Data Validations

AWP-DT- Project Schedule		
ID	AWP Project Data Deliverable	Timing & Frequency
AWP-DT-Project Schedule-01	Schedule Activities	At regular interval through-out the project (weekly, bi-weekly, etc ...)
AWP-DT-Project Schedule-02	Activity Dependencies	At regular interval through-out the project (weekly, bi-weekly, etc ...)
AWP-DT-Project Schedule-03	WBS Codes	At project set-up of the MPS, and when changes are made to the WBS
AWP-DT-Project Schedule-04	Schedules Hierarchy	The Schedule Hierarchy
AWP-DT-Project Schedule-05	Calendars	The P6 Calendars
AWP-DT-Project Schedule-06	Projects	The P6 Projects



Overview

- **Function** – This data template captures core information related to the Master Project Schedule and interrelated schedule data.
- **Data Fields** – AWP-DT- Master Project Schedule - Fields
- **Timing & Frequency** – At selective times during early stages of the project and then at regular intervals till project completion
- **Source(s)** –Oracle P6
- **Destination** – For data exchanges that require file for an Extract, Transform, Load (ETL) process, put the file storage location.

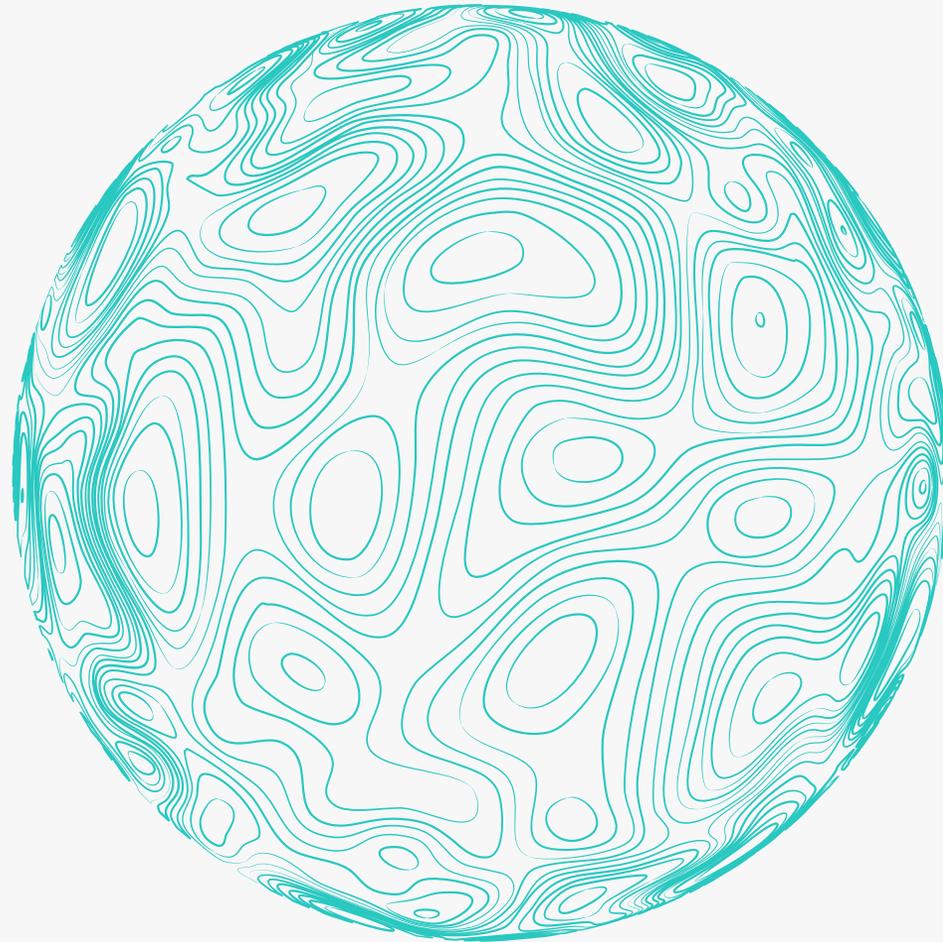
Associated Work Process

- **Primary Activities**
 - Master Project Schedule by CWPs
- **Secondary Activities**
 - Scope and Sequence CWPs

Team Roles

- **Project Controls Scheduler** – Provides Master Project Schedule data as a data deliverable and maintains L3 schedule of activities by CWP.
- **AWP Coordinator** – Ensures AWP Master Index is an output data deliverable from the Path of Construction development.
- **Construction Planner** – Provides critical input and sign-off on the schedule activities by CWP.
- **Engineering Manager** – Provides critical input and sign-off on the engineering schedule activities.
- **Project Procurement Manager** – Provides critical input and sign-off on the procurement schedule activities.
- **AWP Information Manager** – Provides support as required to establish the Master Project Schedule export and ensures data is uploaded to IT systems that rely upon leveraging project schedule data.

AWP Data Centric Delivery



AWP/Field Tools



- Comprehensive AWP Solution
- Single Repository of Work Packages
- Detailed Workface Planning
- Graphical & Non-graphical Scoping
- Predictive Analytics
- Useful Data Import/Export
- Insightful Reporting and Analytics



- Asset/Document Manager
- Work Packages, Task/Form Execution
- RFI, NCR, MoC's
- Schedule Assignment
- Punchlist Management
- Preservation Activities & Maintenance
- Custody Transfer & Completions Tracking

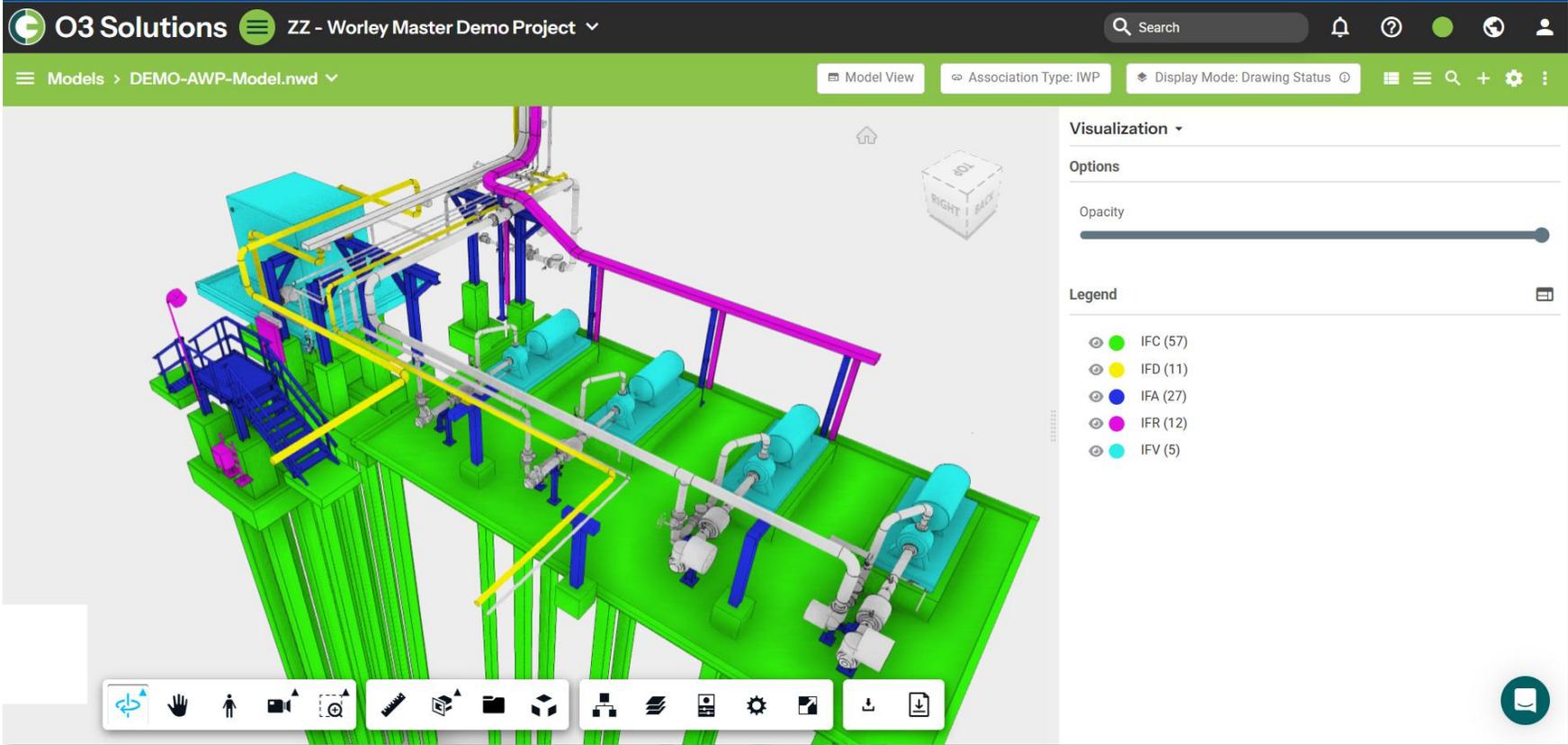


- Holistic Model Management
- All-inclusive Schedule Management
- Schedule Visualization
- Refined Resource Allocation
- 4D Simulation and Visualization on complex models
- 4D model analysis feature
- Comprehensive Reporting
- Seamless compatibility with Other Formats
- Improves Safety & Reliability

Our **Construction and Completions Management Tools** provides effective management of your project's schedule, cost, quality, safety, scope and functions.



Engineering Document Status



Material Status

The screenshot displays the O3 Solutions interface for a project named "ZZ - Worley Master Demo Project". The main view shows a 3D model of an industrial plant with various components color-coded by material status. A control panel on the right side of the interface provides options for visualization and material categories.

Visualization Options:

- Model View
- Association Type: IWP
- Display Mode: Component Material Status

Options:

- Opacity: [Slider]
- Material Categories: Select an option
- Material Sources: Select an option

Legend:

- Not Purchased (10)
- Purchased (24)
- Late
- In Warehouse (33)
- Issued (12)
- In Fabrication (34)

Fabrication Status

The screenshot displays the O3 Solutions software interface for a project named "ZZ - Worley Master Demo Project". The main view shows a 3D model of a complex mechanical assembly, possibly a platform or structure, with various components highlighted in different colors to indicate their fabrication status. The interface includes a top navigation bar with the O3 Solutions logo, a search bar, and a user profile icon. Below the navigation bar, there are tabs for "Model View", "Association Type: IWP", and "Display Mode: Component Fabrication Status".

The right-hand side of the interface features a "Visualization" panel with an "Options" section containing an "Opacity" slider and a "Legend" section. The legend lists the following fabrication statuses:

- On Hold (1)
- In Paint (2)
- Shipped (3)
- In Fabrication (5)

The bottom of the interface has a toolbar with various icons for navigation and manipulation, including a home button, a hand icon, a person icon, a camera icon, a selection tool, a move tool, a rotate tool, a delete tool, a refresh tool, a settings gear, a print icon, and a download icon. A small chat icon is also visible in the bottom right corner.

IWP Status By System

The screenshot displays the O3 Solutions software interface for the 'ZZ - Worley Master Demo Project'. The main view is a 3D model of an industrial facility with various components highlighted in different colors corresponding to their IWP status. The interface includes a top navigation bar with the O3 Solutions logo, project name, search bar, and user profile. Below the navigation bar, there are tabs for 'Model View', 'Association Type: IWP', and 'Display Mode: Work Package Status'. On the left side, there is a 'Testing' panel with a search bar and a list of systems: System: 1.100, System: 1.200, System: 1.300, System: 1.400, and System: No Value. On the right side, there is a 'Visualization' panel with an 'Options' section for 'Opacity' and a 'Legend' section listing various IWP statuses with their respective counts and colors.

Legend

- Initialized (5)
- In Development (23)
- Ready For Review (7)
- Approved
- Issued
- Approved For Construction (31)
- In Progress (11)
- Complete (13)
- Released To Quality
- Closed Out

Material Status By System

O3 Solutions ZZ - Worley Master Demo Project

Models > DEMO-AWP-Model.nwd

Model View Association Type: IWP Display Mode: Component Material Status

Testing

- System: 1.100
- System: 1.200
- System: 1.300
- System: 1.400
- System: No Value

Visualization

Options

Opacity

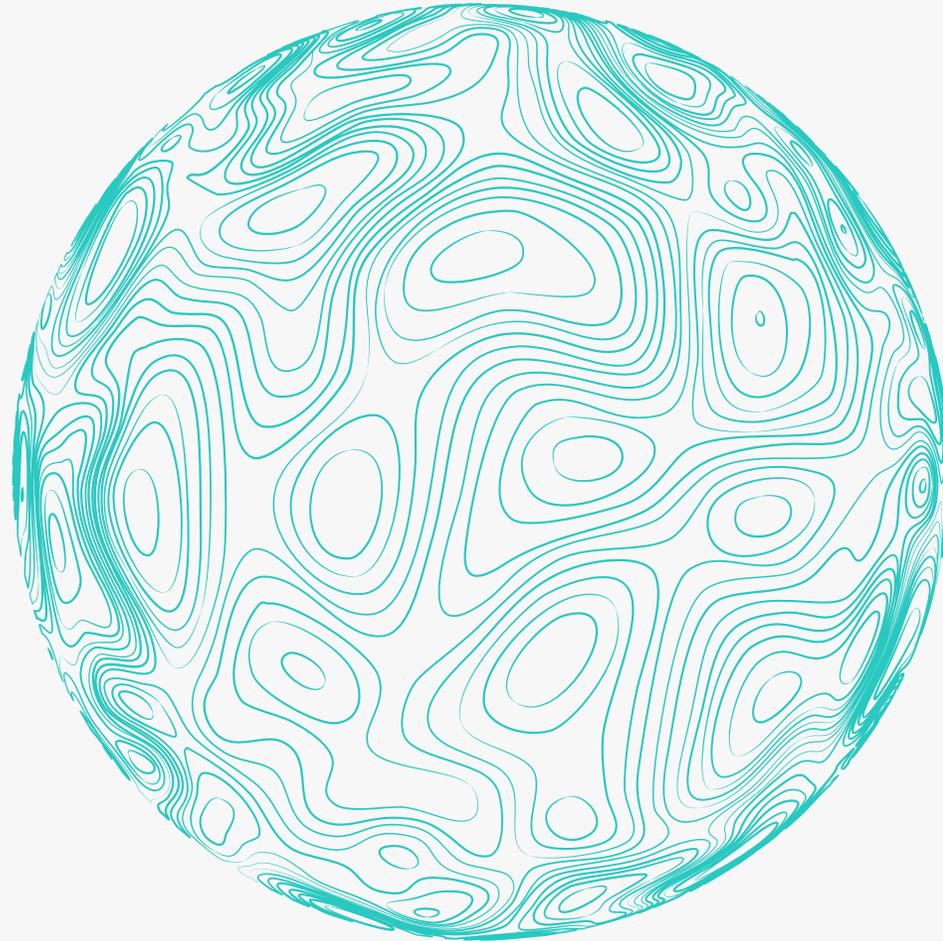
Material Categories
Select an option

Material Sources
Select an option

Legend

- Not Purchased (10)
- Purchased (24)
- Late
- In Warehouse (33)
- Issued (12)
- In Fabrication (34)

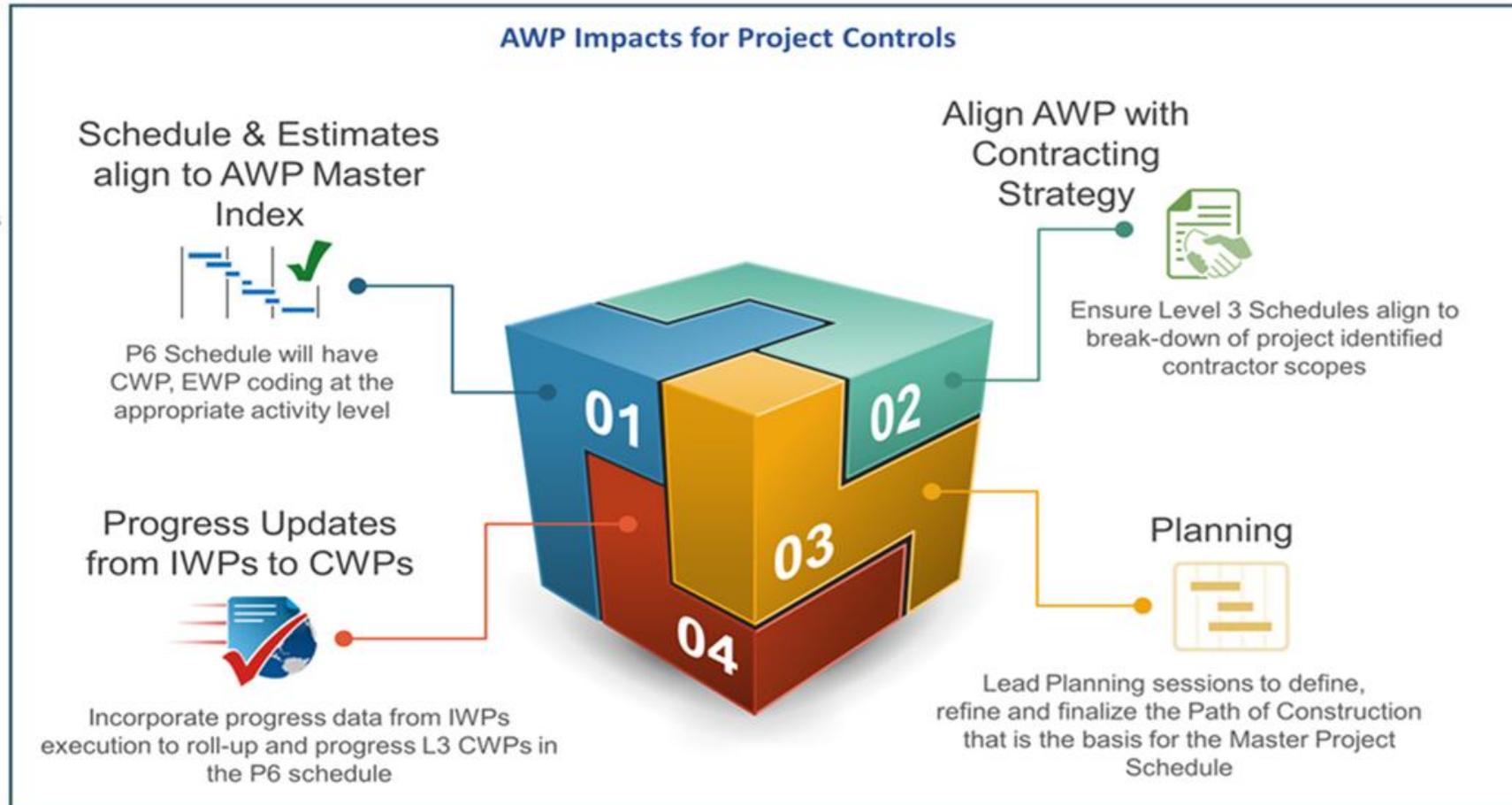
Procedures and AWP Toolkit



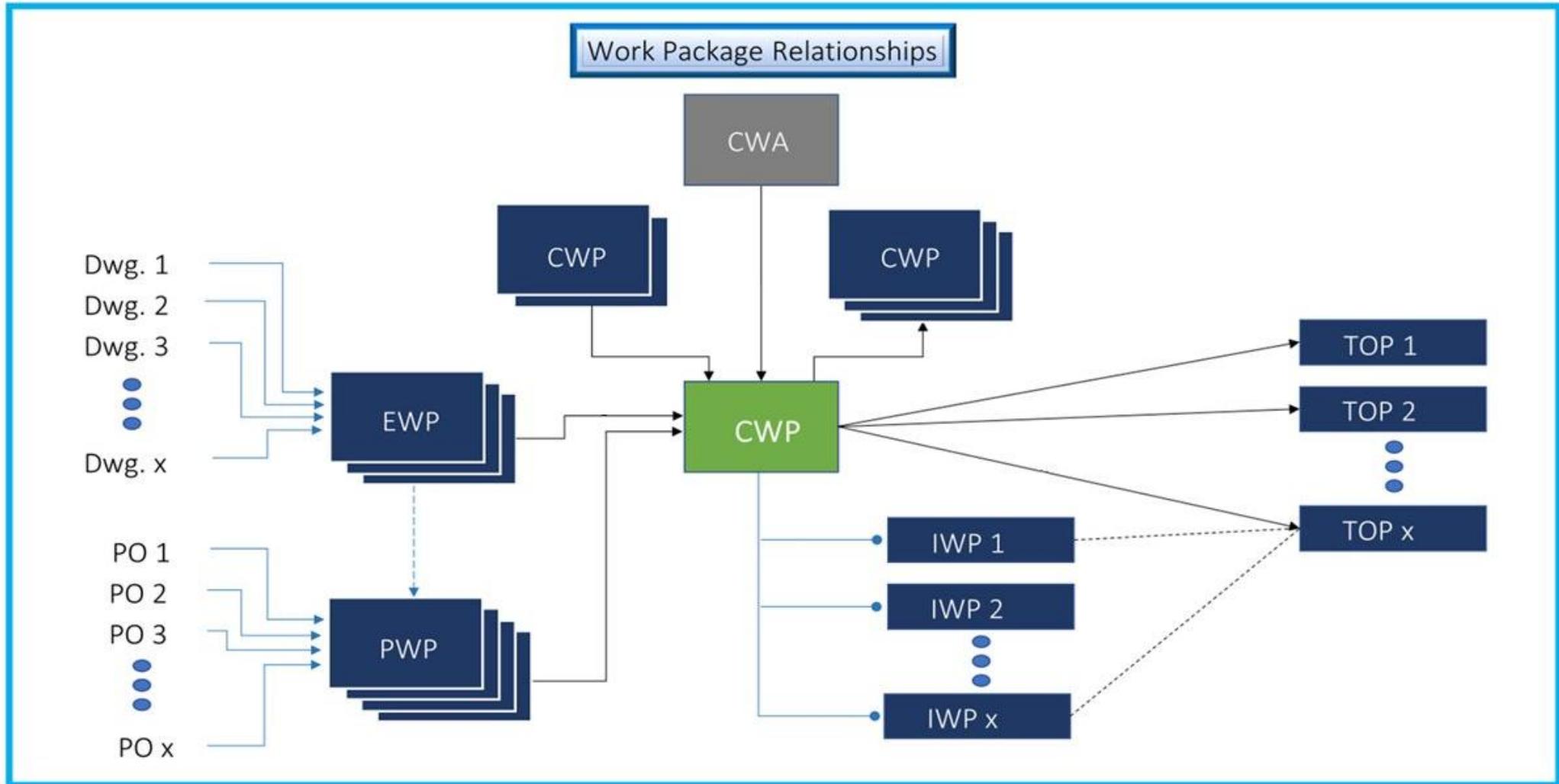
AWP Toolkit

- AWP for Me - Project Controls

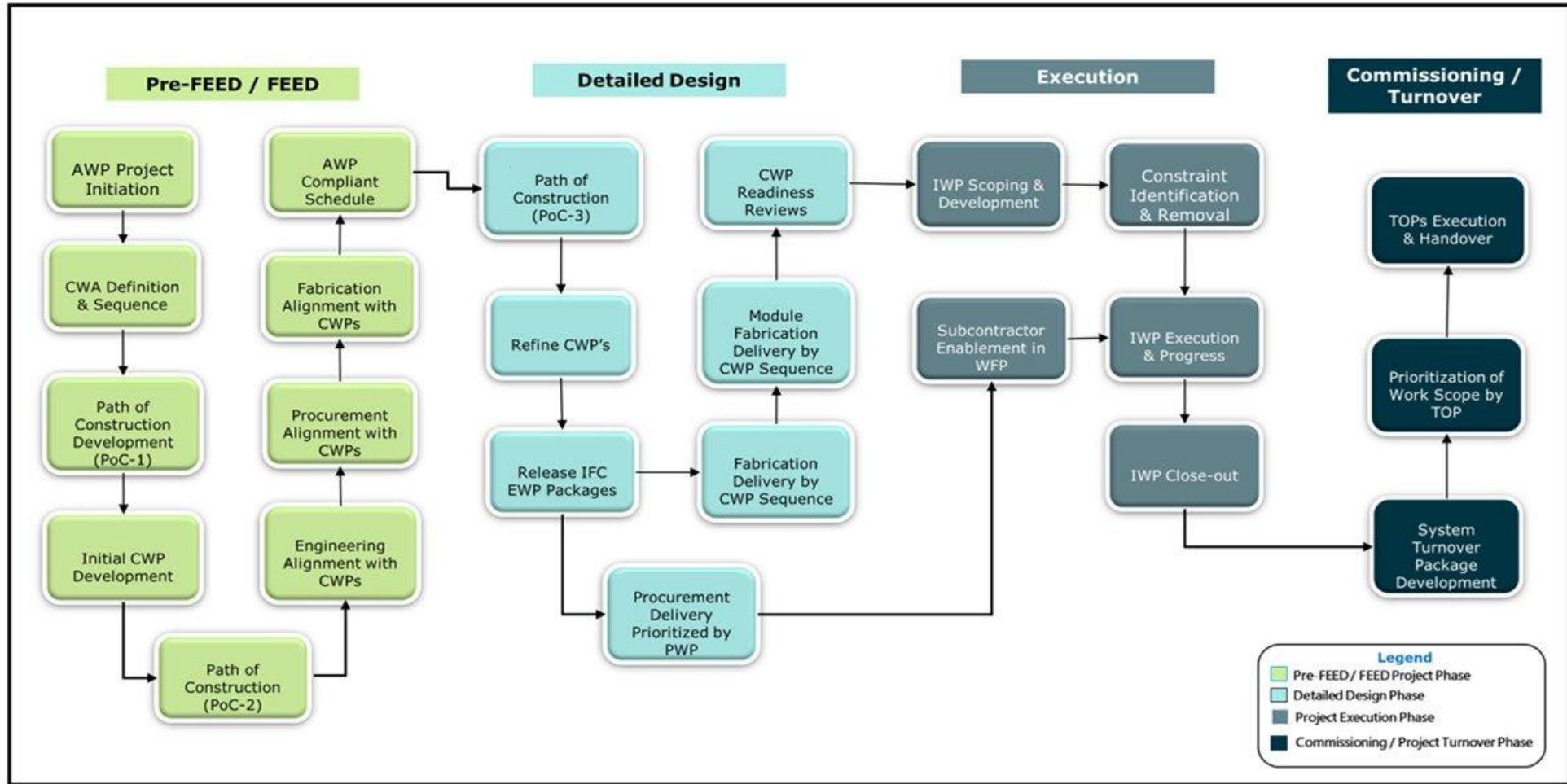
- My Role in AWP
- AWP for Me**
- Engagement Points
- Best practices
- Responsibilities
- Team Interfaces
- AWP Teams
- Digital Threads
- Tech Stack



AWP Toolkit



AWP Toolkit



KEY TAKEAWAYS

01

Consistency is key. Make AWP a part of your standard business process.

02

This takes time. Don't expect perfection overnight. But start!

03

Data, Data, Data.

04

Integrations break down silos. If you see a wall, create a tunnel.

05

Visual information is easier to consume.

06

Scalability and repeatability come from clear procedures.

NEW FEATURE: AUTOMATED STEEL PACKAGING



O3 Solutions Steel Sequencing Demo

Models > PAU-040.nwd

WorkFace Planning

Create IWP

CWA: No Value

Model View Association Type: IWP Display Mode: Default

Automated Packaging - Steel (BETA)

Start Date

Crew

Select an option

Save Configuration Generate Packages

Package 1 48671 kg 2177 Hours

Structural Steel installation - Primary

14001YX1000	4552.2 kg	204	
14001YX1002	5189.4 kg	233	
14001YX1017	5161.7 kg	232	
14001YX1020	5892.5 kg	265	
14001YX2319	1237 kg	55	
14001YX2000	1442.5 kg	64	
14001YX2060	3876 kg	174	

Reset

NEW FEATURE: AUTOMATED PIPE PACKAGING



O3 Solutions Automated Piping IWP Packaging

Models > O3-Piperack-Z710.nwd

Model View Association Type: IWP Display Mode: Default

WorkFace Planning

Create IWP

CWA: CWA-03-1E71

CWA: No Value

Automated Packaging - Pipe Installation (BETA)

Construction Work Package

CWP-03-1E7102X

Spool Erection & Fit-Up		Spool Erection Target Hours
Erection of Piping	x	1500

Field Weld		Field Weld Target Hours
Piping Weld & NDT	x	1500

Bolt Up		Bolt Up Target Hours
Bolt-Up	x	1500

Tolerance %	Small Bore Threshold	Rack Width
5	4	8

Starting Component Per Level

4 levels selected

- O3-102X-0-9201-306-02-SP1 x
- O3-102X-0-9201-306-03-SP2 x
- O3-102X-0-8301-118-02-SP1 x
- O3-102X-0-9001-300-01-SP3 x

Sequence CSV File (Optional)

No file selected

Generate Packages

NEW FEATURE: COMPONENT SPLITTING



The screenshot displays the O3 Solutions web application interface. The top navigation bar includes the O3 Solutions logo, a hamburger menu, the text "Model Split Demo", a search bar, and several utility icons. A left-hand sidebar lists various application features, with "Models" highlighted and marked with a star. The main content area is titled "Models" and contains a large empty space with a "Loading..." spinner in the center. A tooltip is visible over the "Models" menu item. At the bottom of the main area, there are pagination controls showing "Page 1 of 1 (0 items)" and a list of items per page (10, 25, 50, 100).

JOIN US AT AWP xCHANGE 2026

Two events. Two continents. One mission: Transforming project delivery.

NORTH AMERICA

AWP xChange North America

May 14, 2026

Houston, Texas, USA

FREE Registration for Owners, EPCs & Contractors



LATIN AMERICA

AWP xChange LATAM

April 22 – 23, 2026

Santiago, Chile

FREE Registration for Owners, EPCs & Contractors



QUESTIONS?

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🌐 www.o3.solutions

