O3 Solutions

worley
DELIVERING SUSTAINABLE CHANGE

# 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

# SPEAKER OVERVIEW

## 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

- Work Package Management
- Constraint Management
- Workflows & Validations
- Dashboards
- 4D Simulations

# THE PLATFORM FOR

# Seamless Project Delivery

- Task Management
- Change Management
- Punchlist Management
- RFI Management
- Risk Register

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

## 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.

# WHY O3

### 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

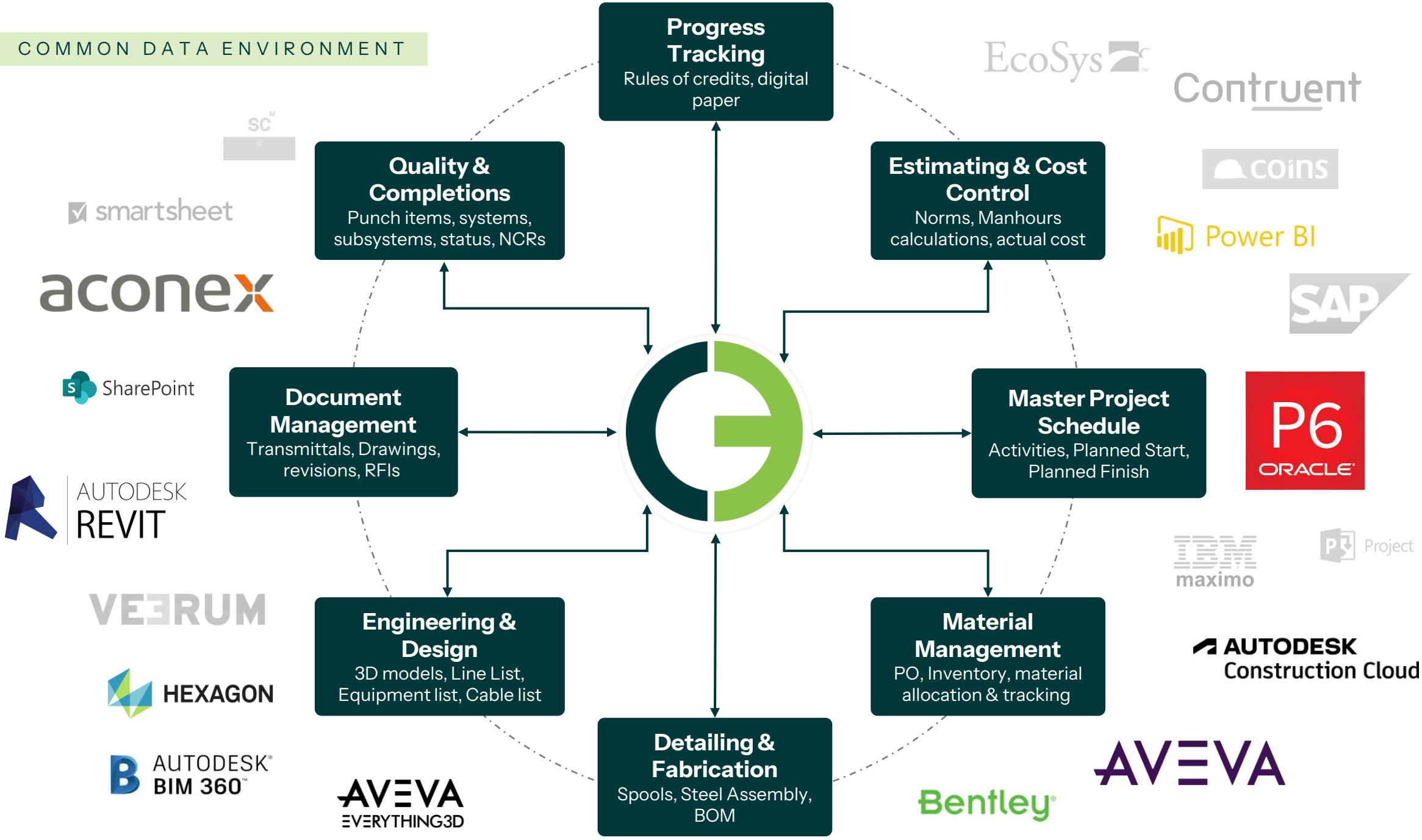
**25k+**
users

**92%**
client satisfaction


## TRUSTED BY

worley · wood. · FLUOR · SUNCOR · AECON · TARGET · Linde · CODELCO · TURNER INDUSTRIES · SIERRA GORDA SCM · TECNICAS REUNIDAS · DEMATIC · MCDERMOTT

COMMON DATA ENVIRONMENT

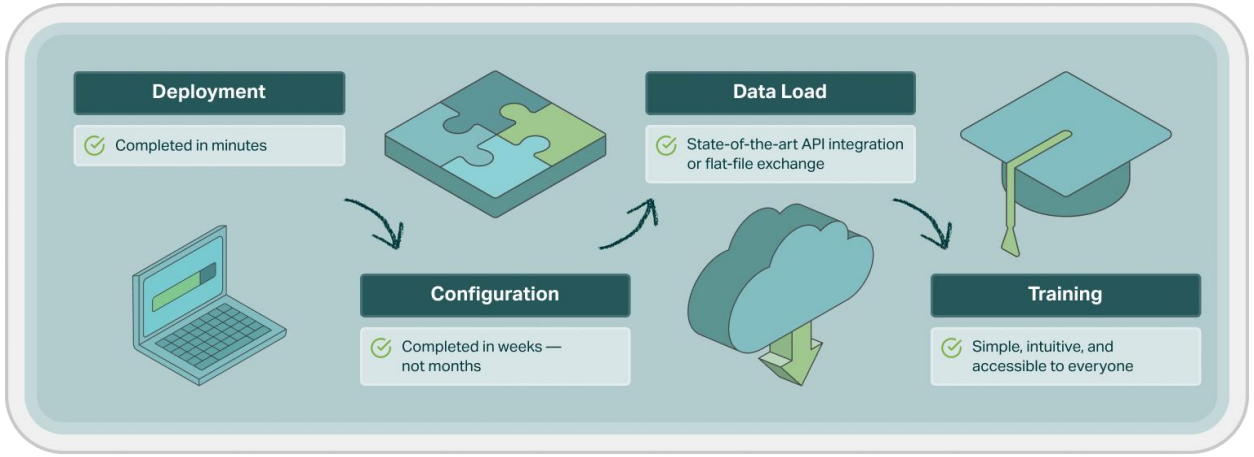


# TIME TO VALUE

## 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

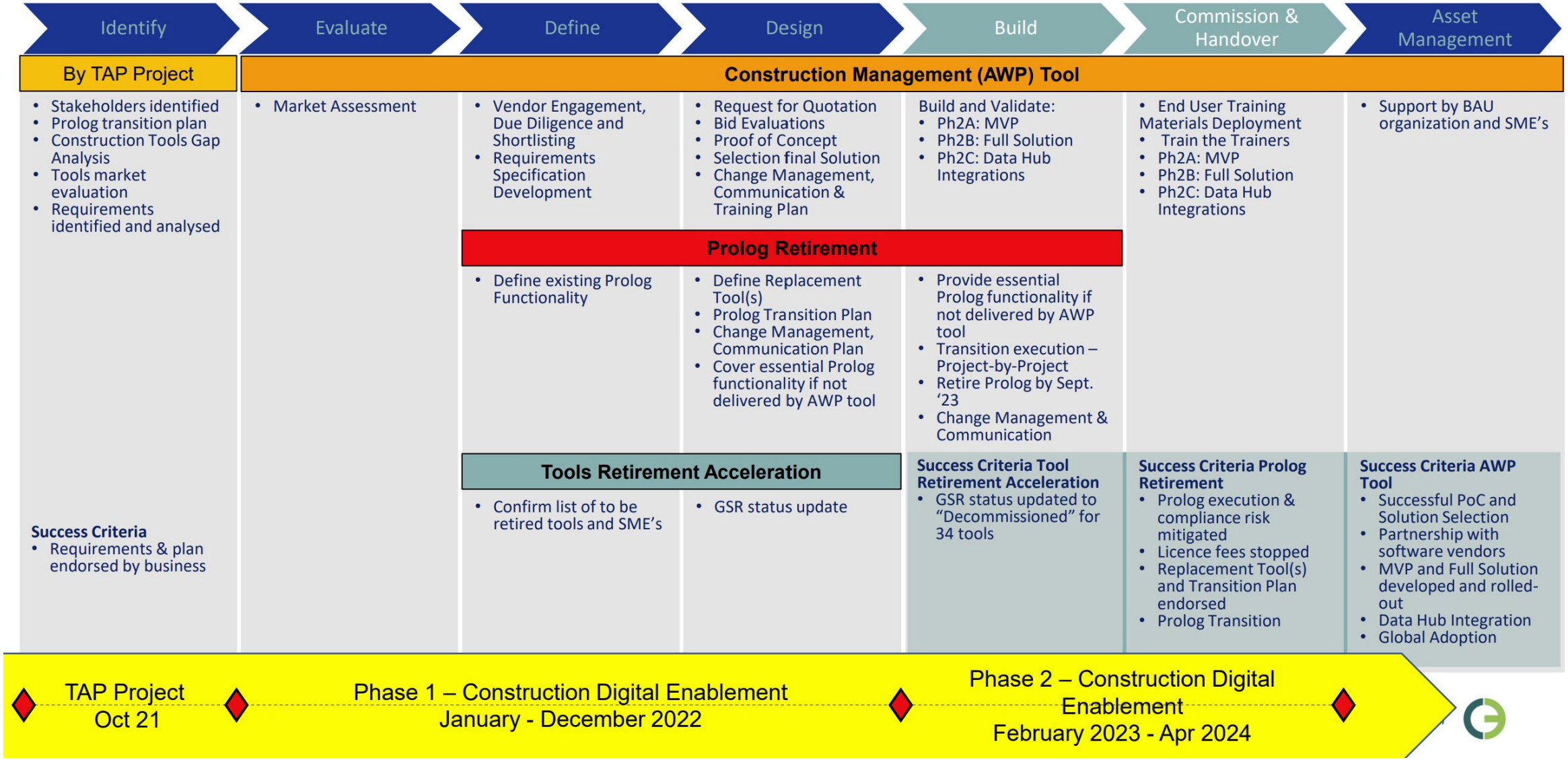
## Industry-Leading Security to Protect Your Data

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

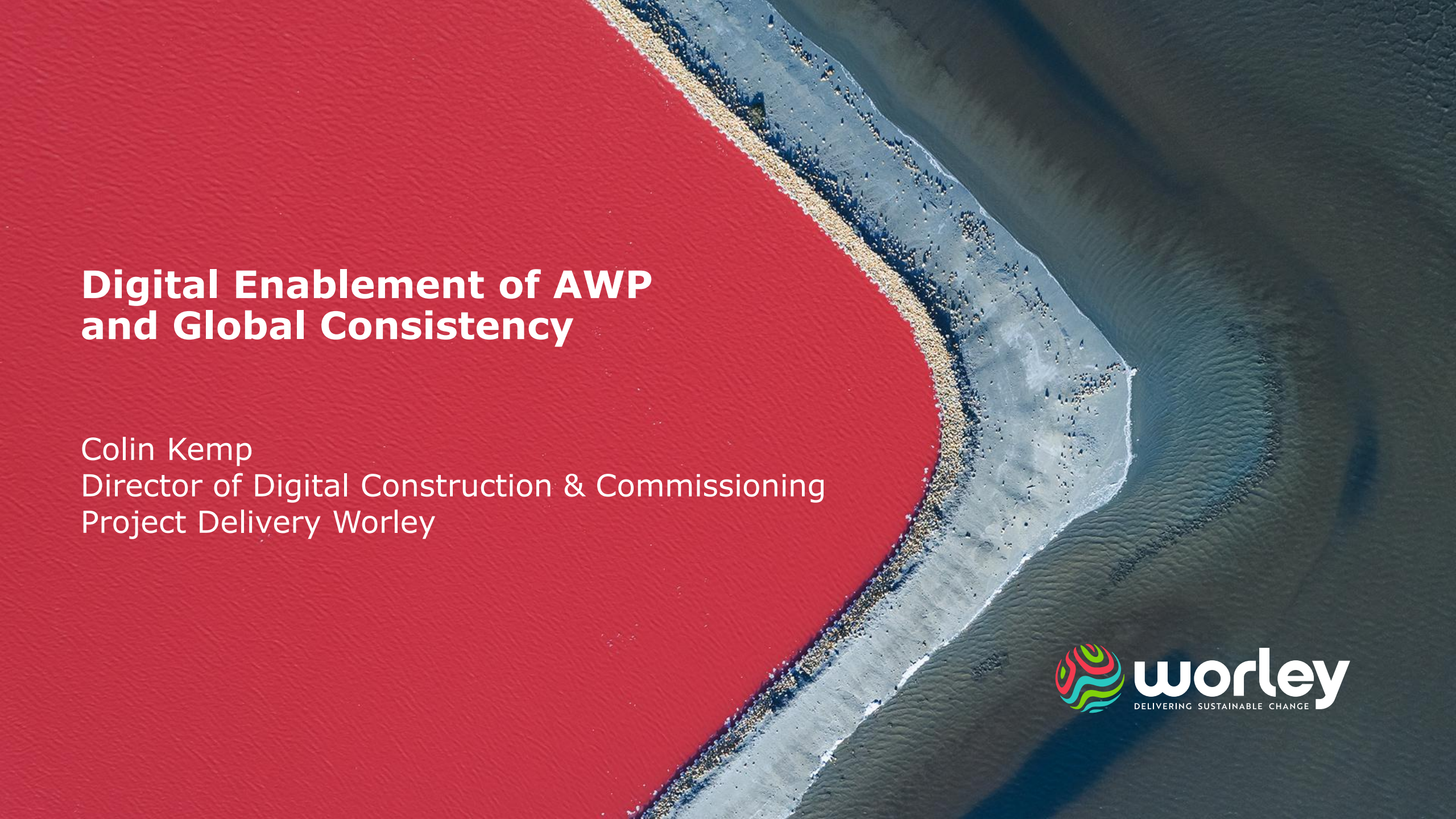
# O3'S JOURNEY WITH WORLEY



# WORLEY PRESENTATION

# Digital Enablement of AWP and Global Consistency

Colin Kemp
Director of Digital Construction & Commissioning
Project Delivery Worley



# AGENDA

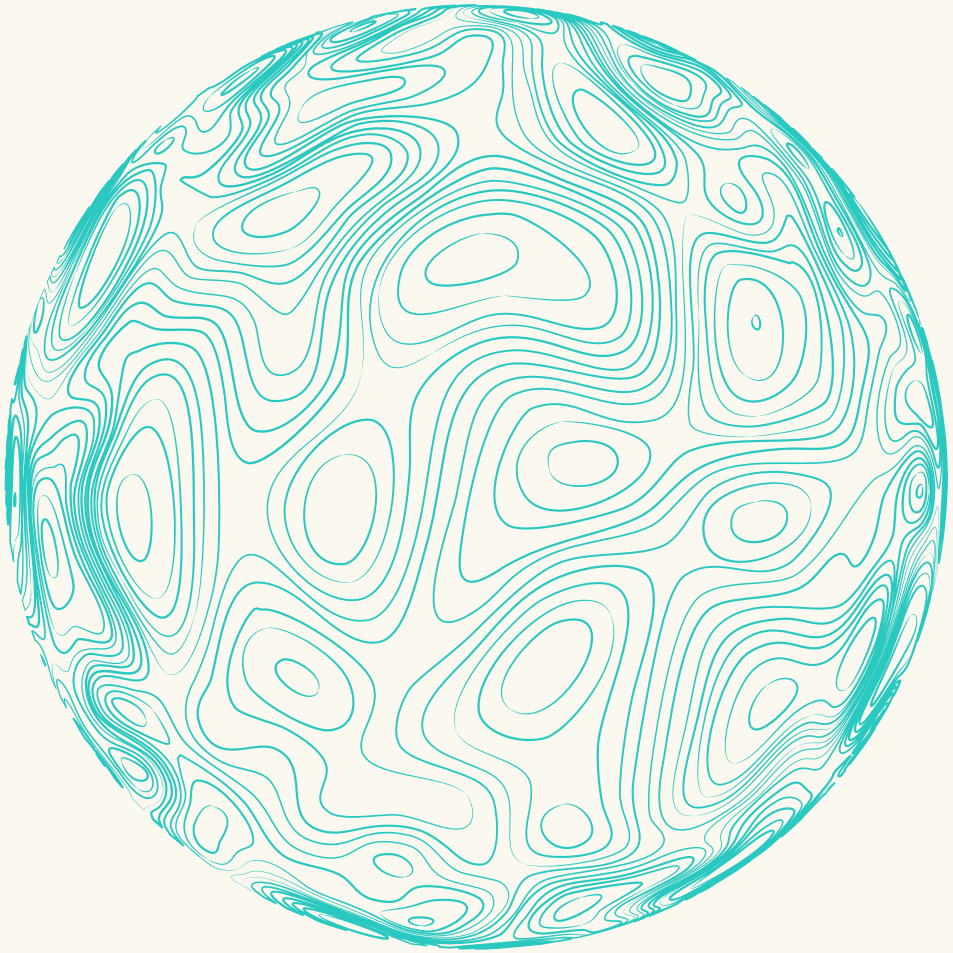
- AWP & Digital Construction Enablement
- AWP Data Requirements & Digital Threads
- AWP Data Centric Delivery
- Procedures and AWP Toolkit
- Q & A

# Speaker Overview

## Colin Kemp

Director of Digital Construction and Commissiong 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


### Questioning

- Request for proof
- Demand pilots
- Healthy Skepticism


### Eureka!

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

# What is Construction Digital Enablement

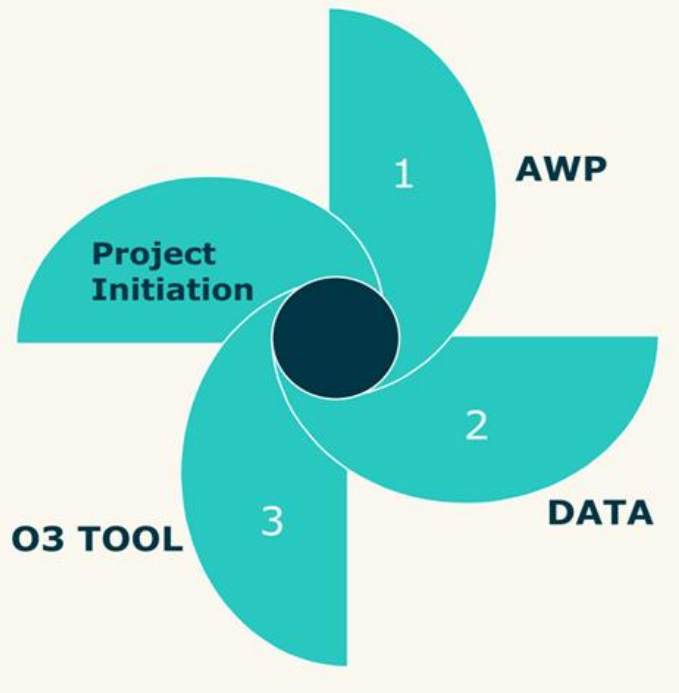
**Construction Digital Enablement (CDE)** is providing Worley with modern, scalable, and practical digital tools that enable project delivery excellence. We will be focused on deploying the AWP Methodology building integrations between O3 Solutions and many of our other global standard tools.

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.

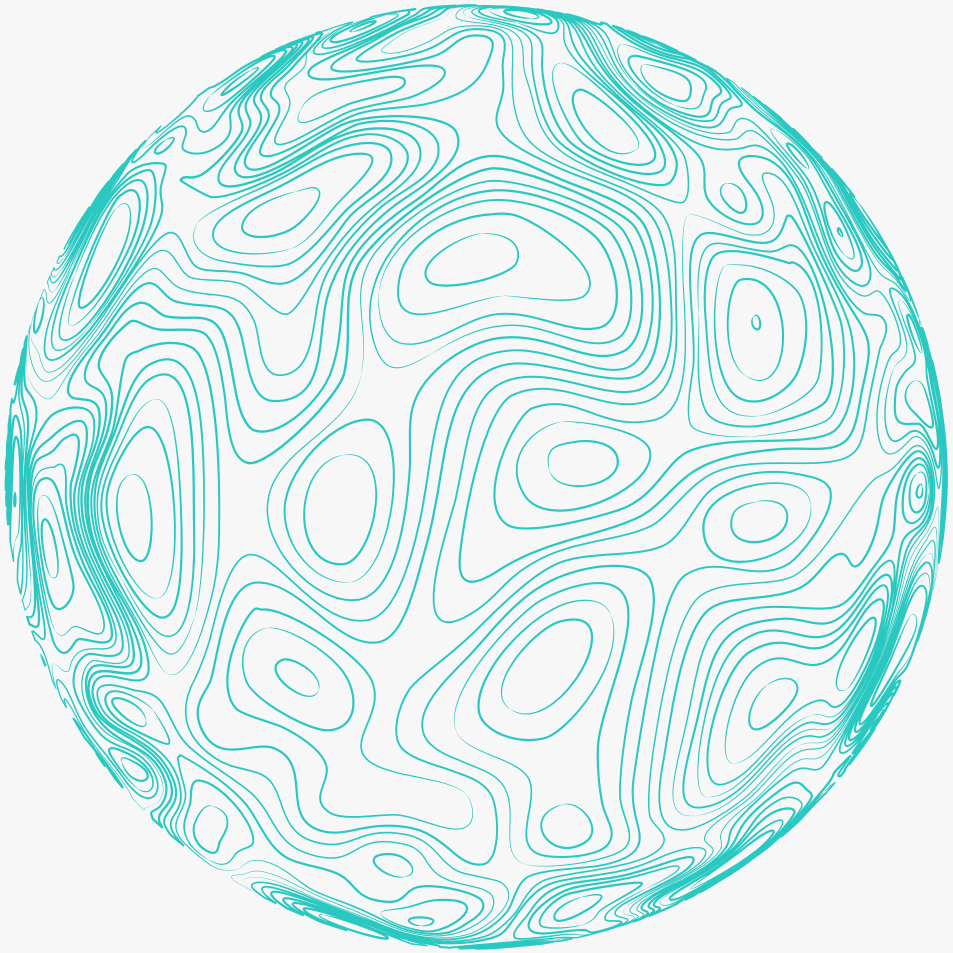
Offering the business **a comprehensive solution** for supporting complex projects effectively, leading to improved outcomes and better collaboration both regionally and globally through standardization and consistency of processes, procedures, and global standard tools.

### 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.

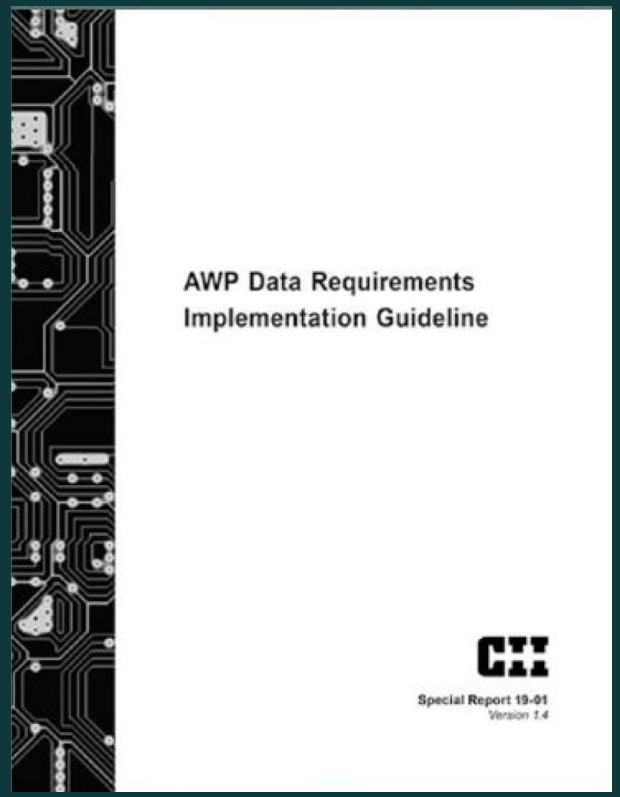
**Construction Excellence** → **Data Integration**

**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




View on CII Website

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.

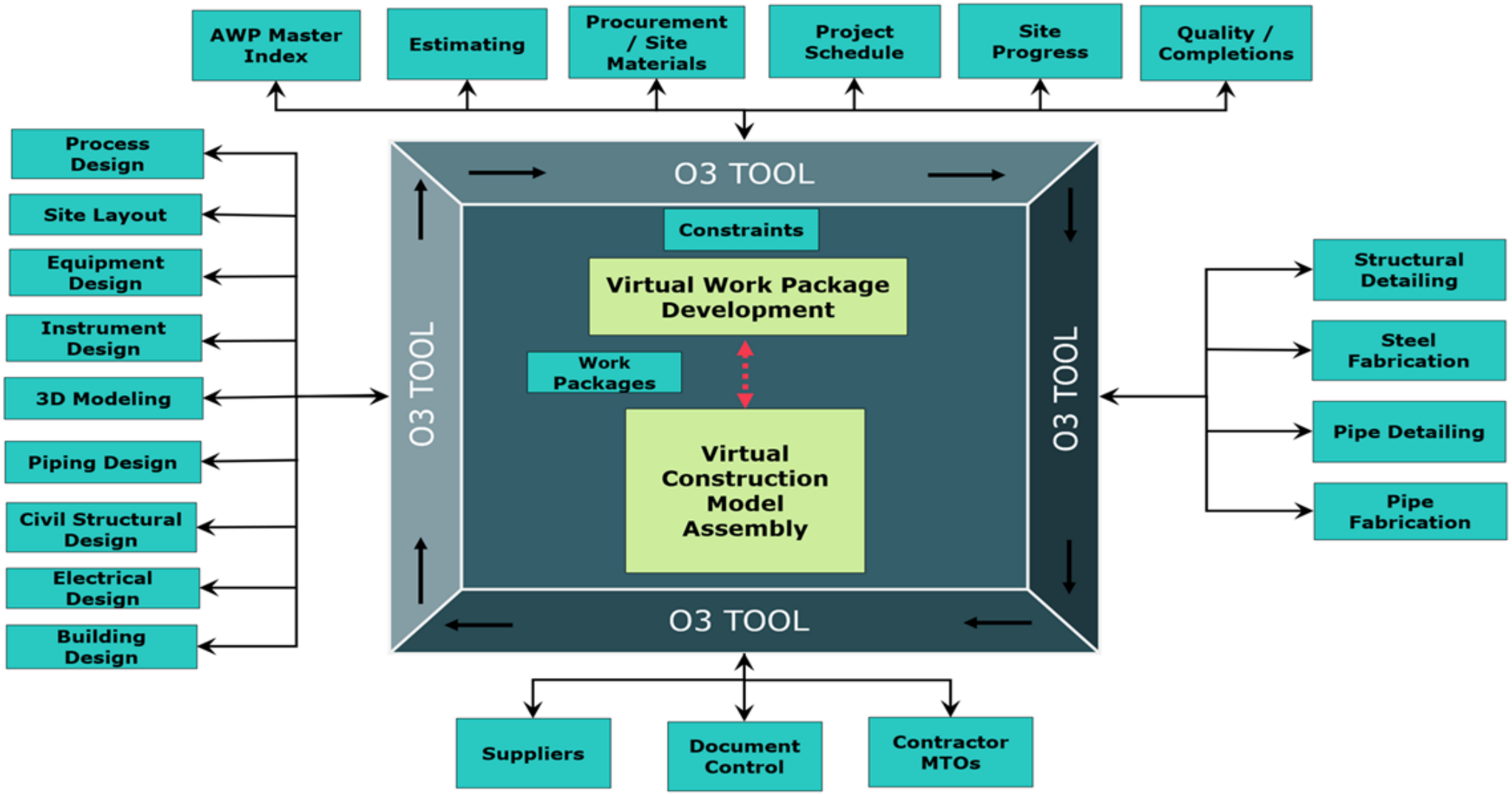
## What are AWP Data Requirements?

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.

# 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.

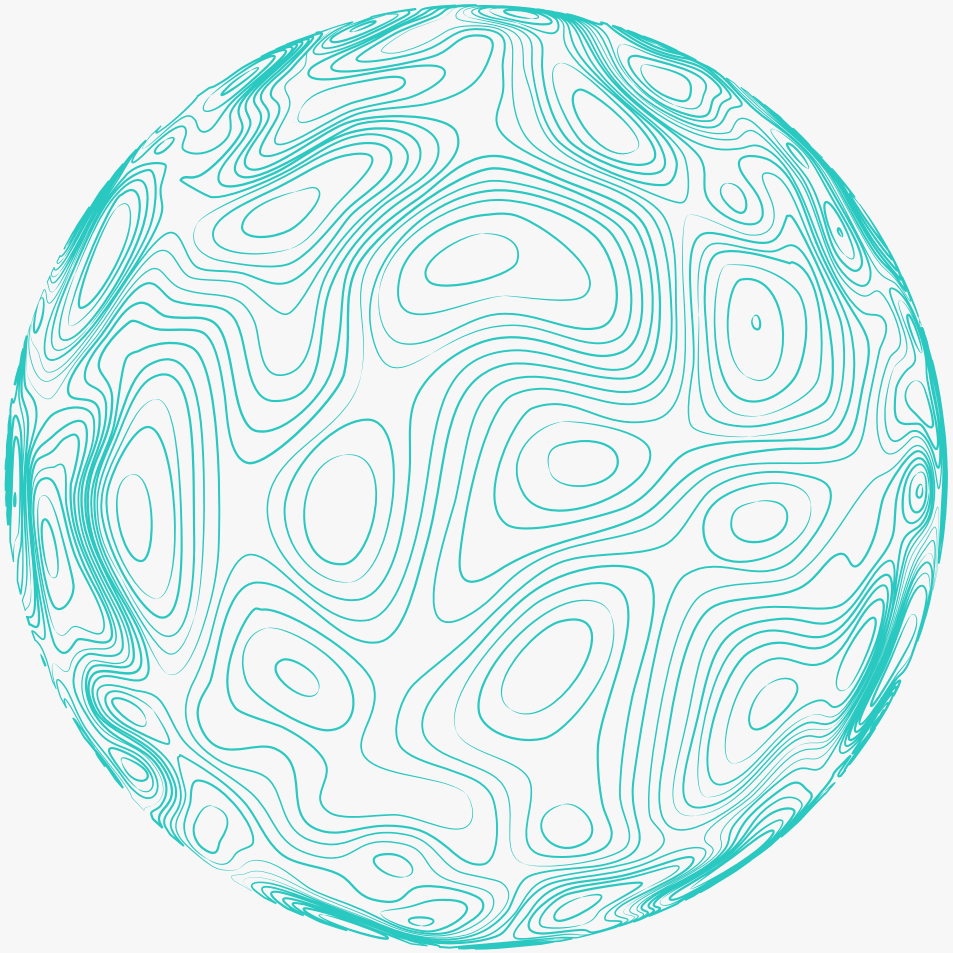
### Associated Work Process

- **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

## O3 Solutions

- 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

## HEXAGON Smart® Completions

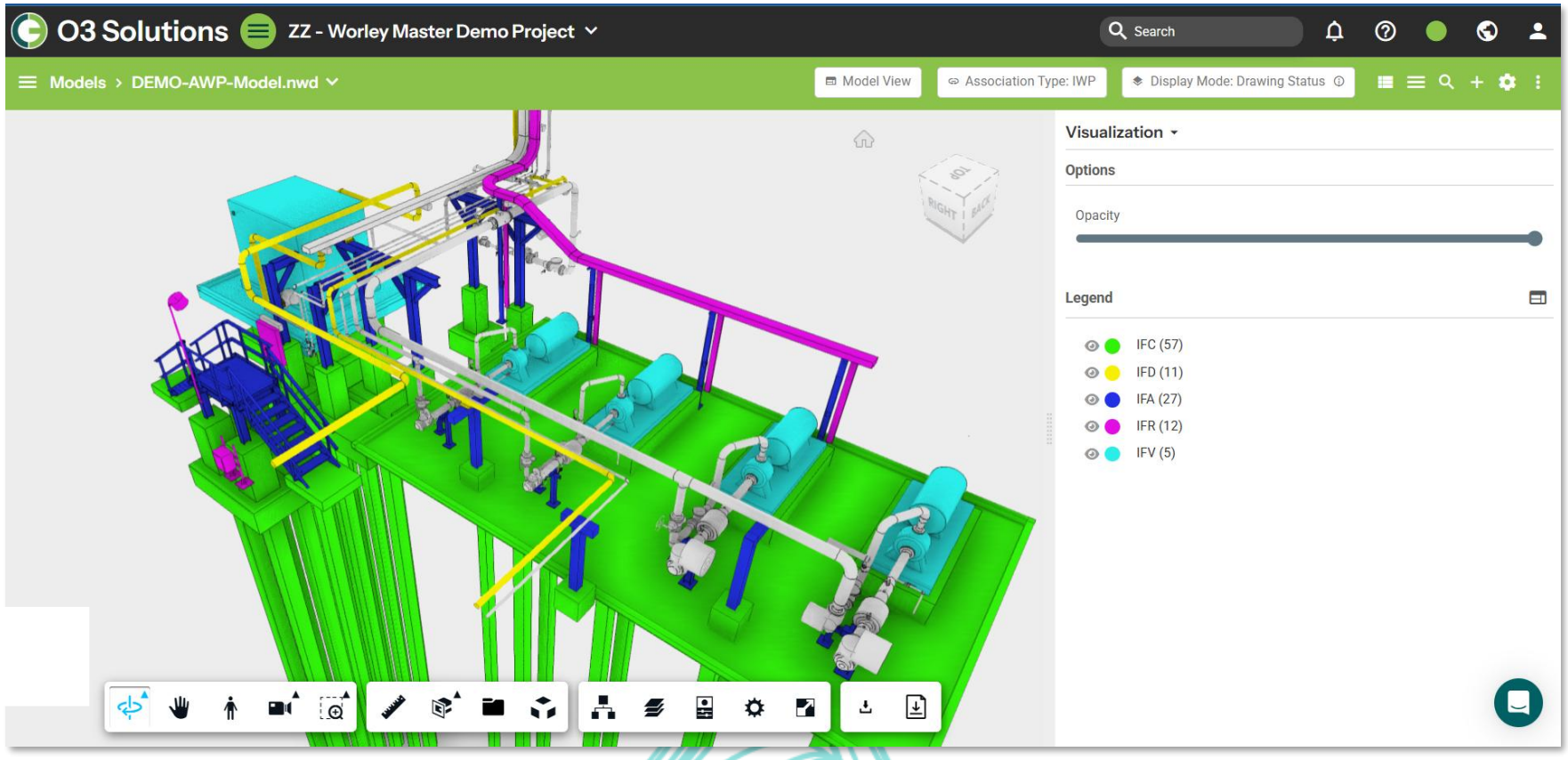
- Asset/Document Manager
- Work Packages, Task/Form Execution
- RFI, NCR, MoC's
- Schedule Assignment
- Punchlist Management
- Preservation Activities & Maintenance
- Custody Transfer & Completions Tracking

## SYNCHRO 4D

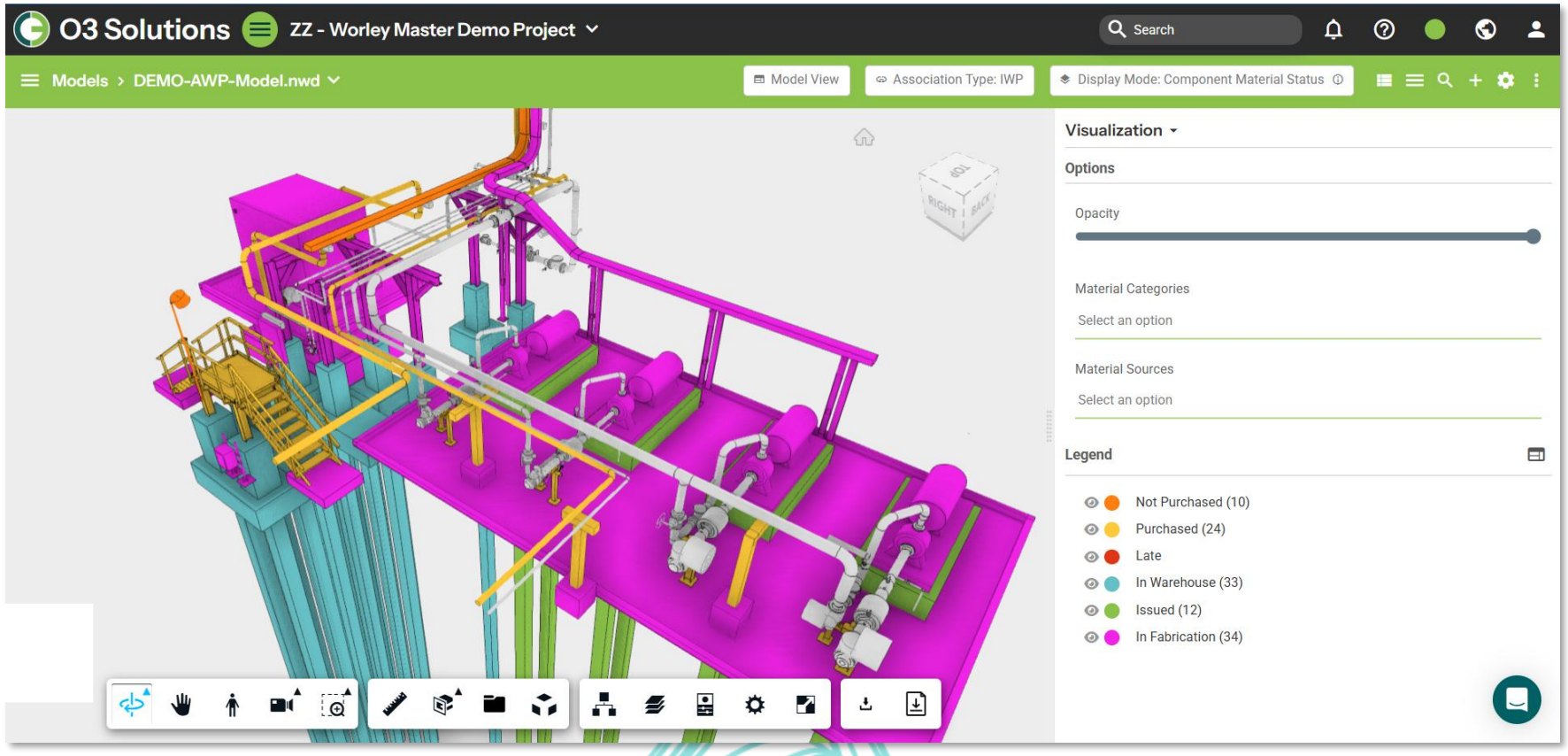
- Holistic Model Management
- All-inclusive Schedule Management
- Schedule Visualization
- Refined Resource Allocation
- 4D Simulation and Visualization on complex models
- 4D model analysis feature
- Comprehensive Reporting
- Seamless compatibility with Other Formats
- Improves Safety & Reliability

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

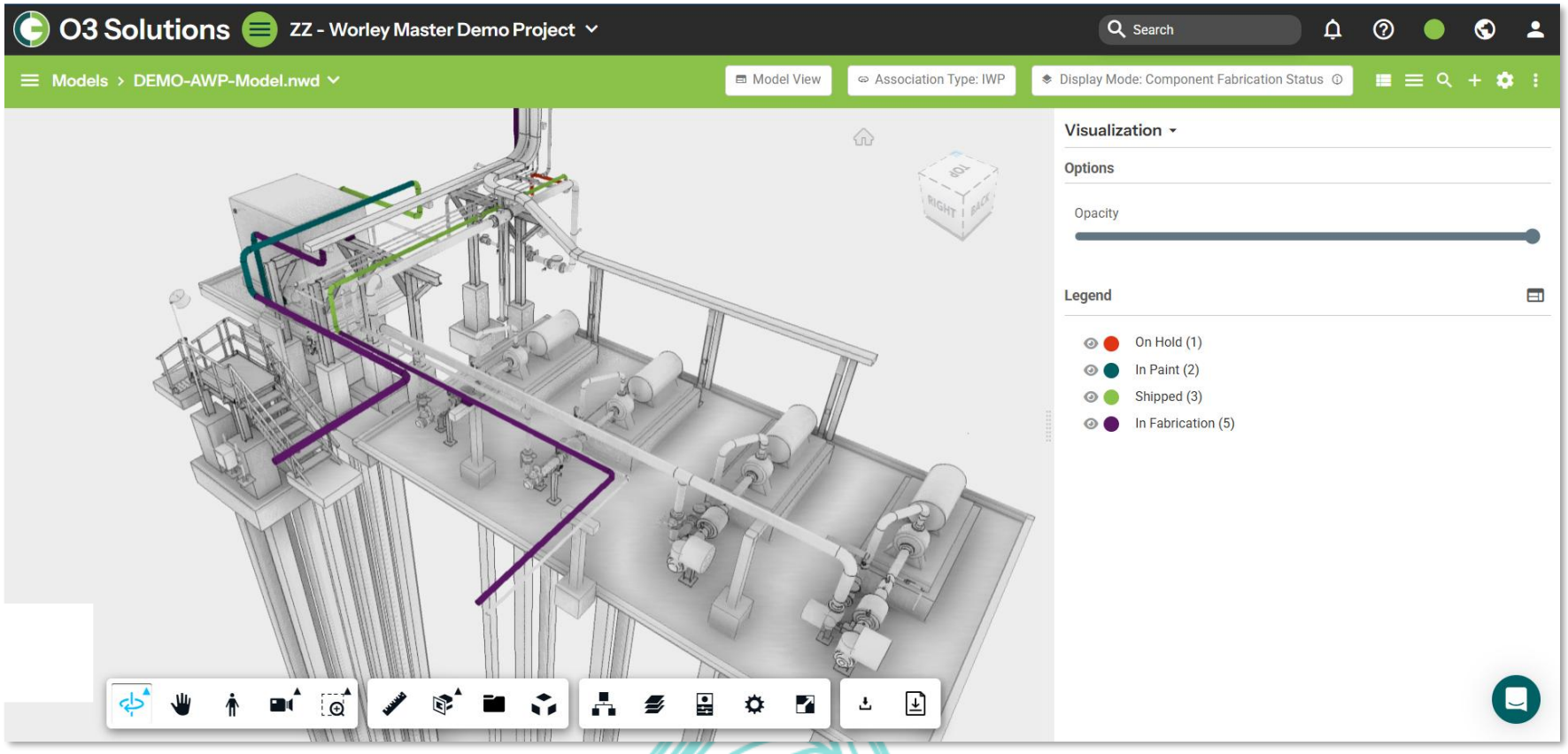
# Engineering Document Status



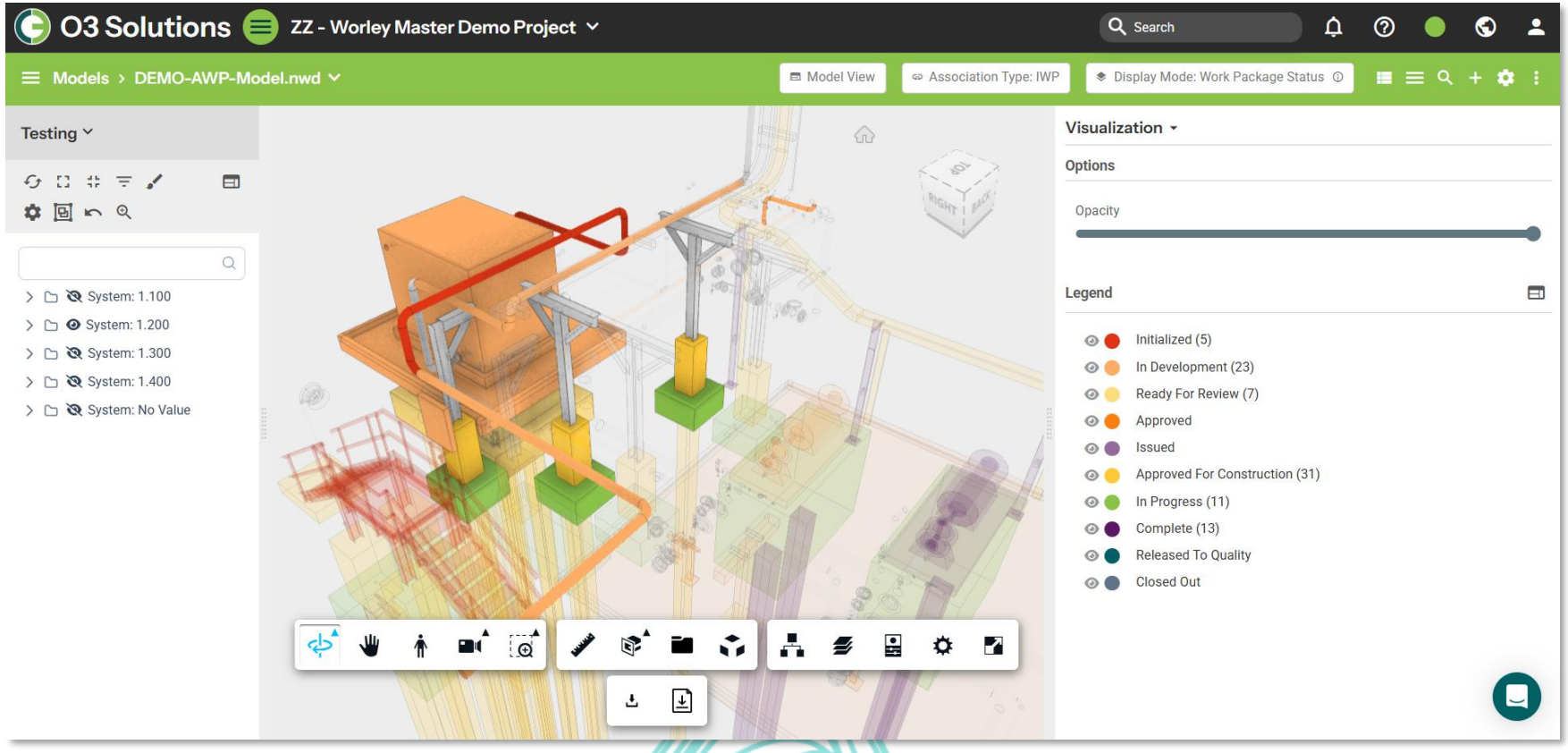
# Material Status



# Fabrication Status



# IWP Status By System



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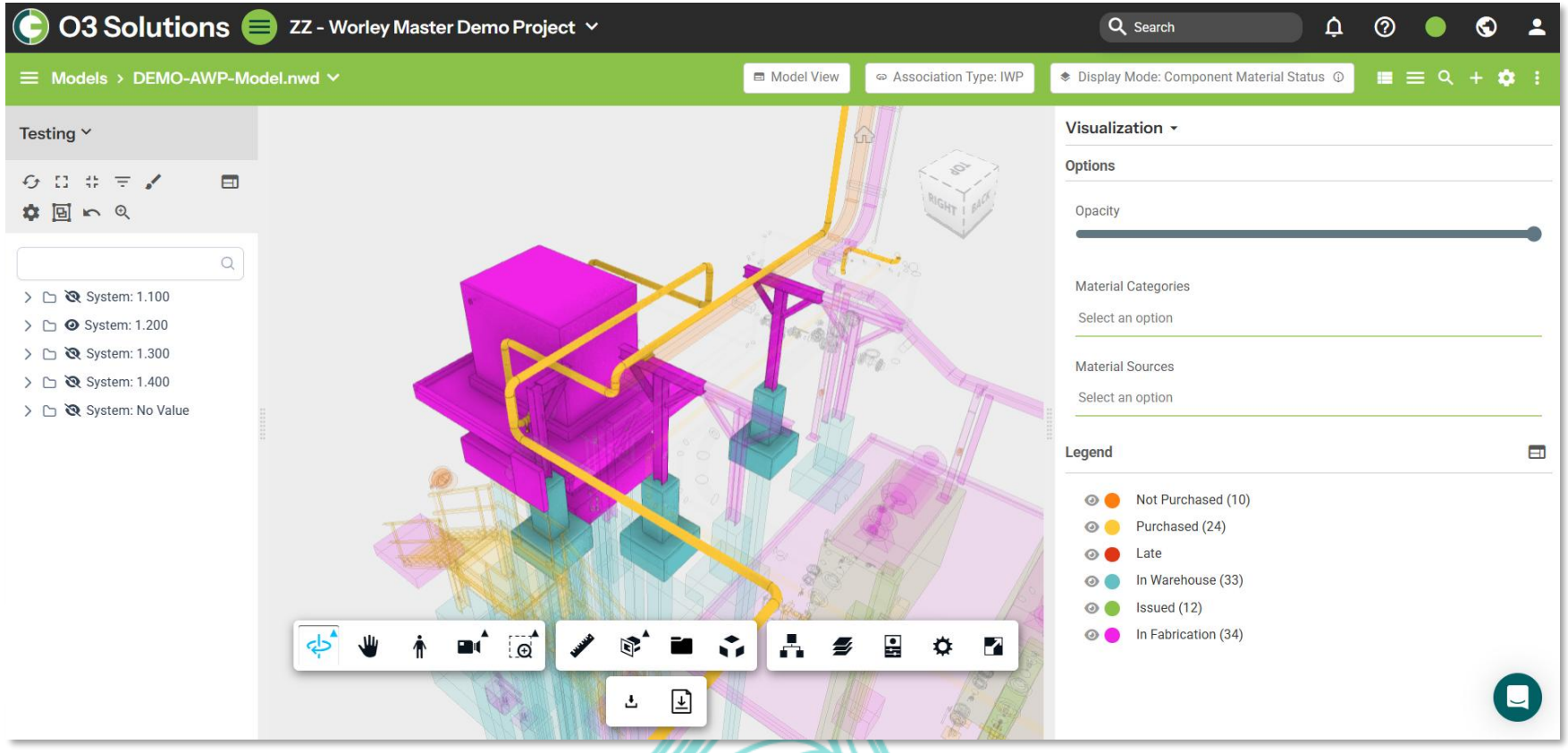
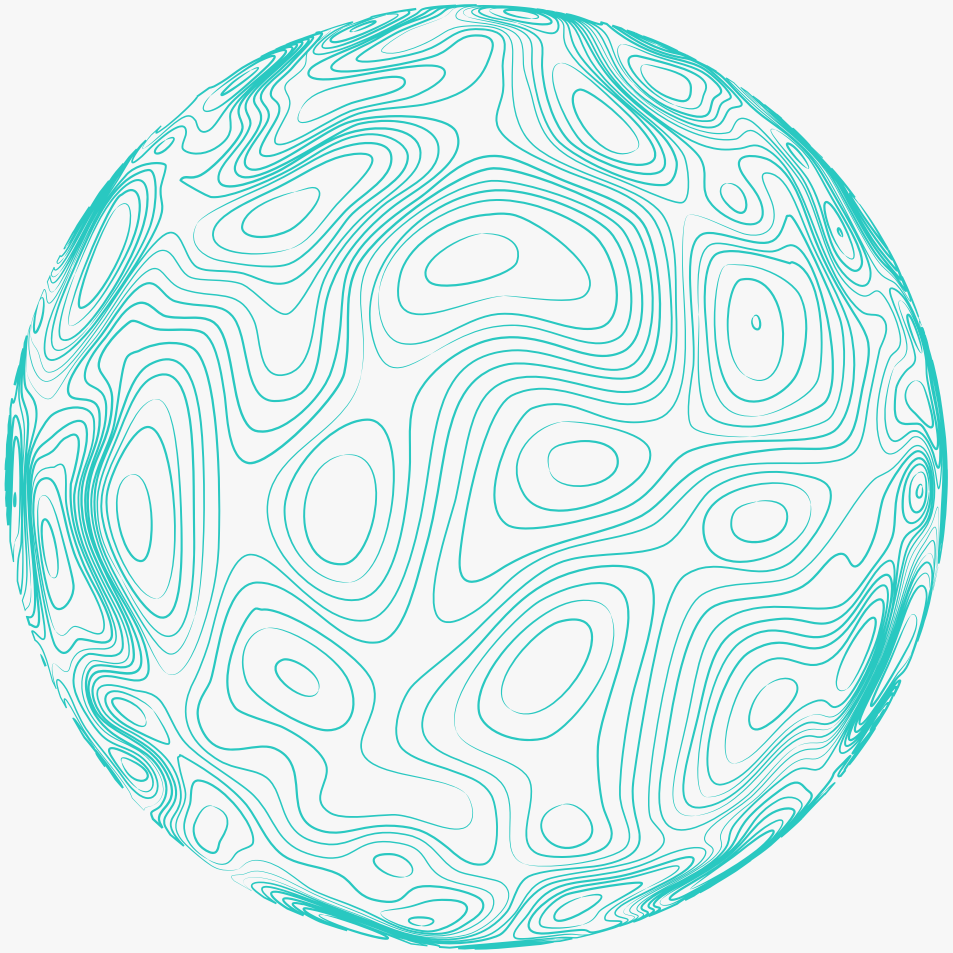


# Procedures and AWP Toolkit



# AWP Toolkit

## Guidelines:

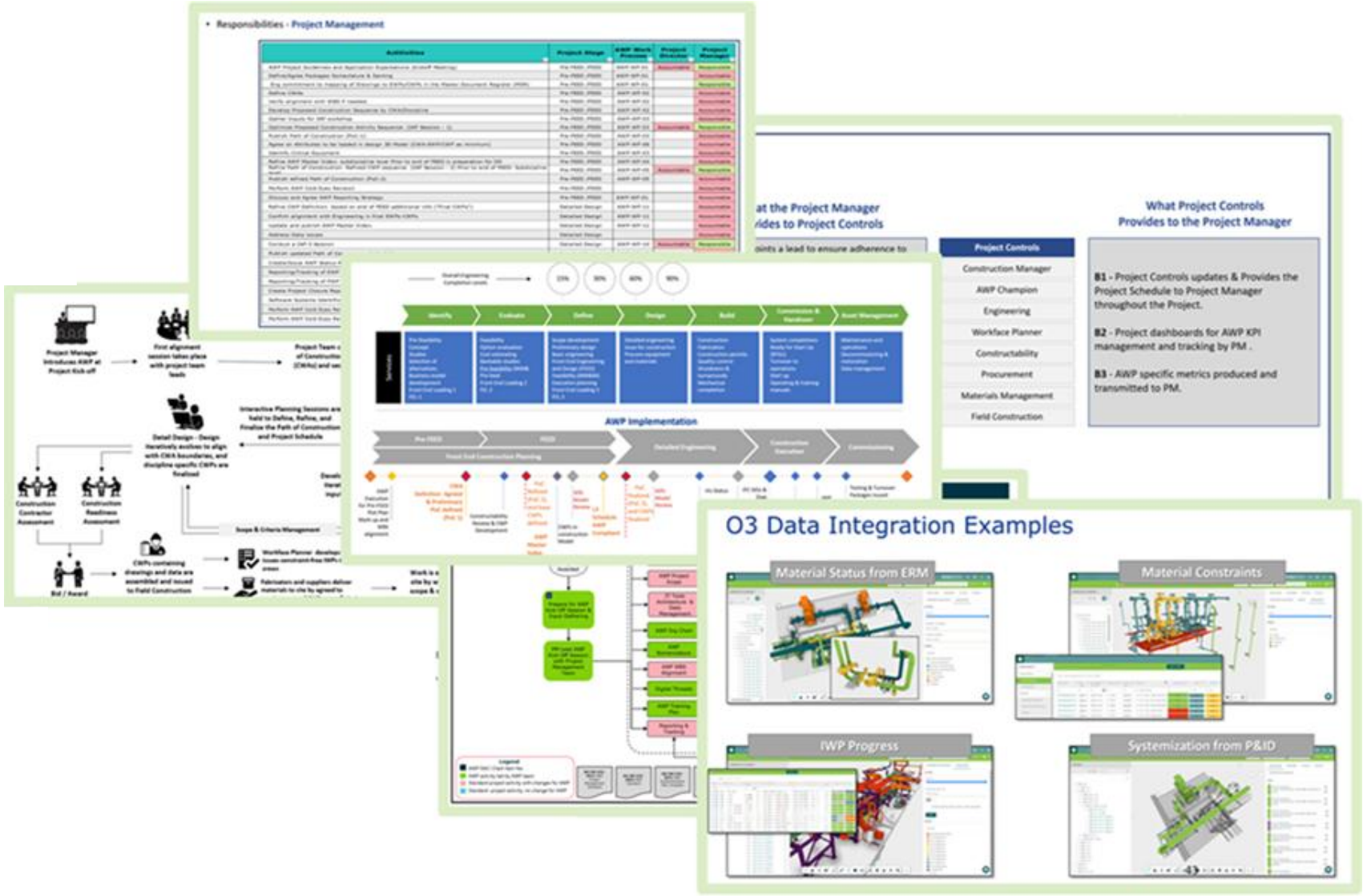
- AWP Guideline
- WFP Guideline
- EPC AWP Contract Guidelines
- WFP Contract Guidelines
- Fabricator Contract Guidelines
    - Pipe
    - Structural Steel
    - Module

## Playbooks (Work Instructions):

- Construction Management
- Engineering
- Frontline Supervisor
- Workface Planner
- AWP Coordinator
- Procurement

## Roles & Responsibilities Matrix

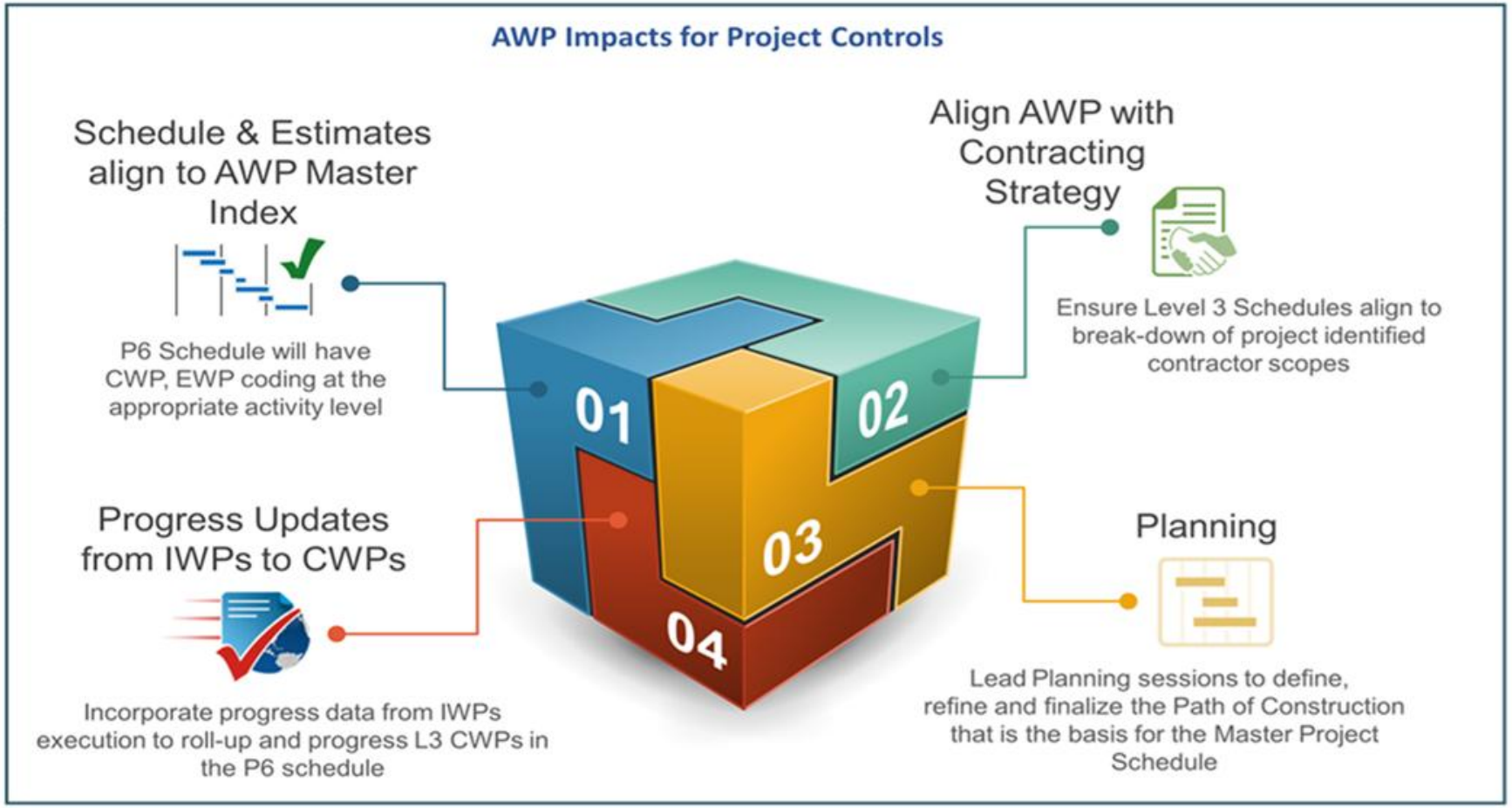
## AWP Primers



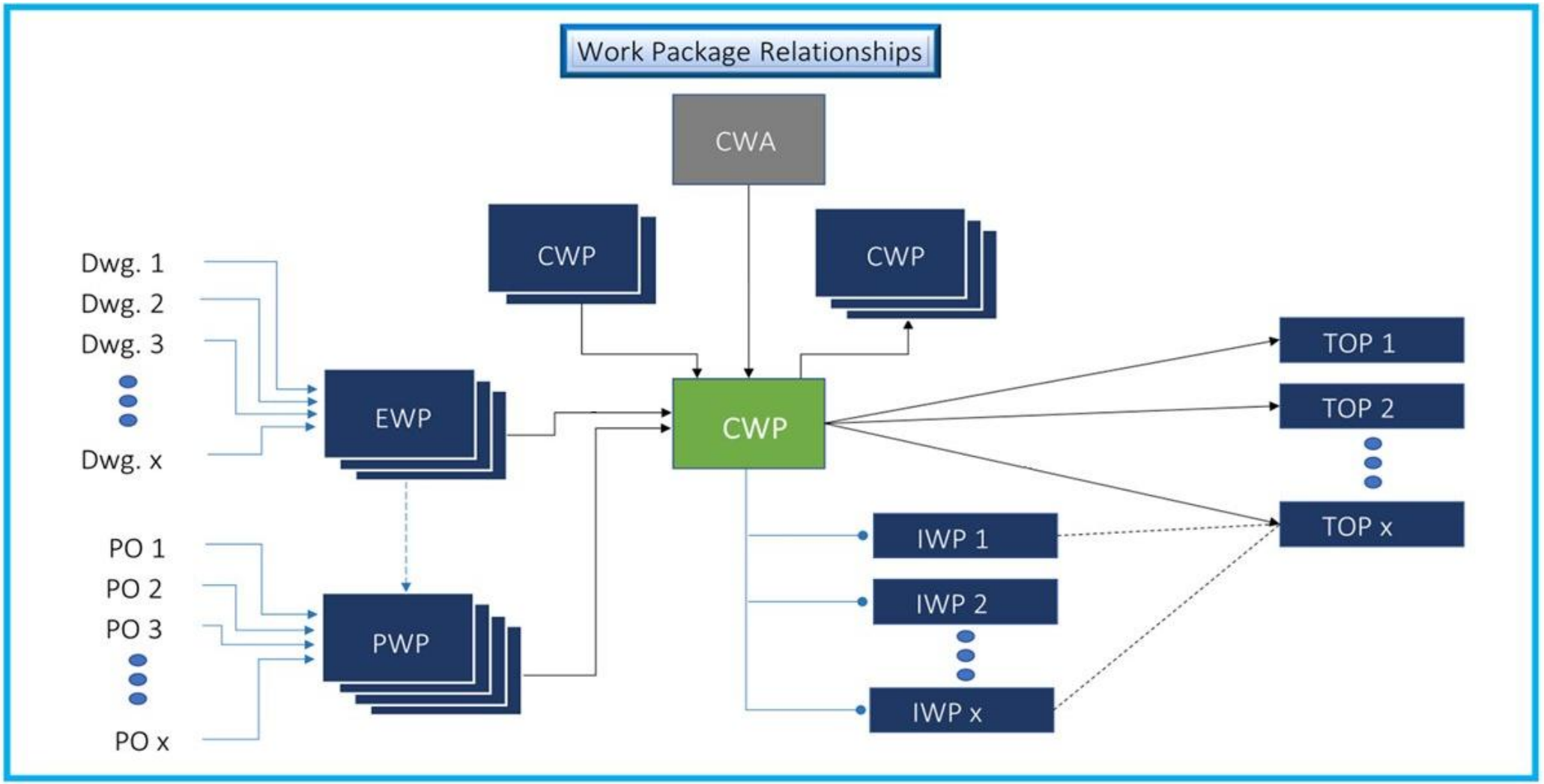
# AWP Toolkit

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

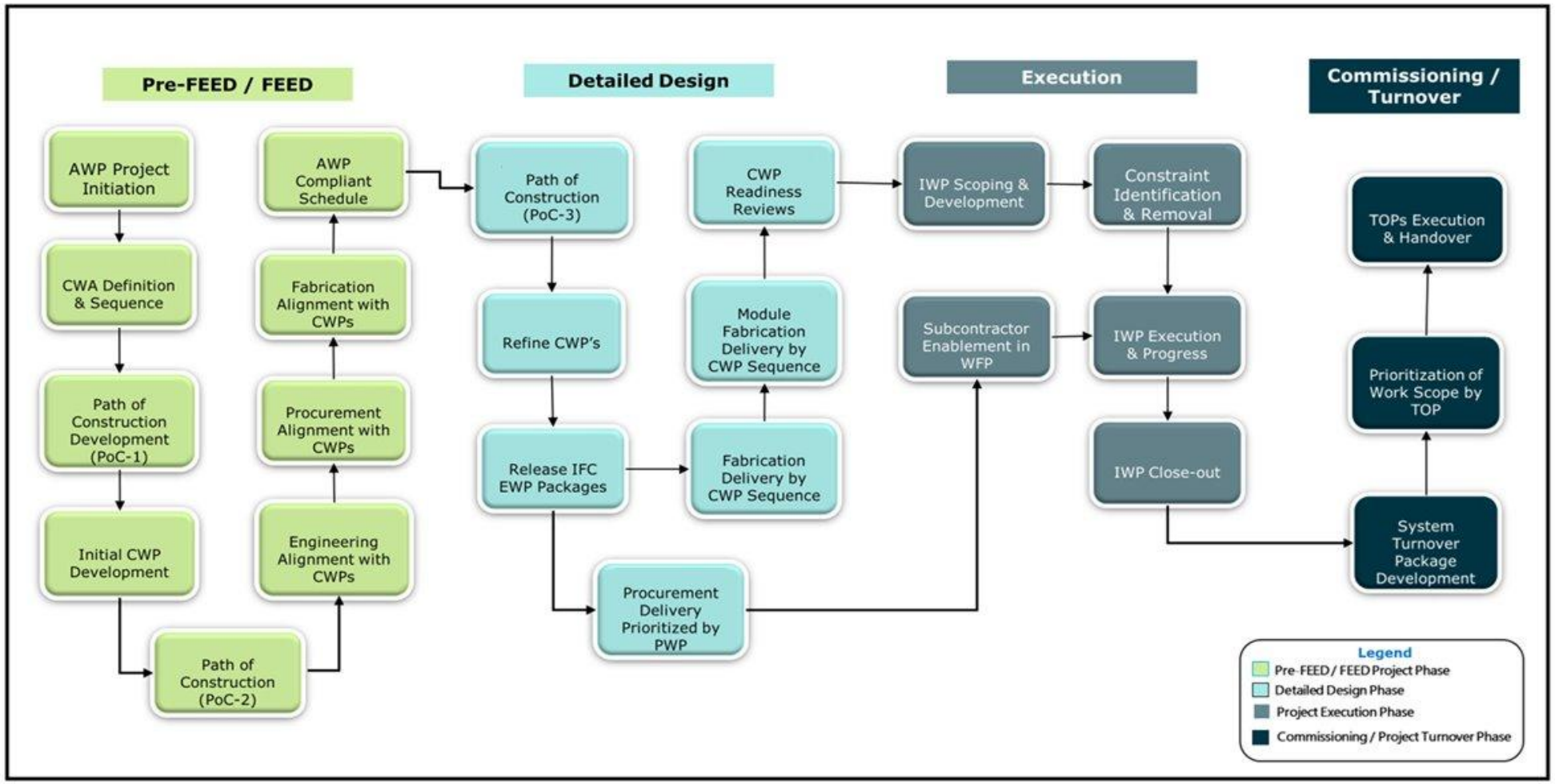
• AWP for Me - **Project Controls**



# AWP Toolkit


Work Package Relationships
CWA
CWP
CWP
Dwg. 1
Dwg. 2
Dwg. 3
Dwg. x
EWP
CWP
TOP 1
TOP 2
TOP x
PO 1
PO 2
PO 3
PO x
PWP
IWP 1
IWP 2
IWP x

# AWP Toolkit


Pre-FEED / FEED
Detailed Design
Execution
Commissioning / Turnover
AWP Project Initiation
CWA Definition & Sequence
Path of Construction Development (PoC-1)
Initial CWP Development
Path of Construction (PoC-2)
AWP Compliant Schedule
Fabrication Alignment with CWPs
Procurement Alignment with CWPs
Engineering Alignment with CWPs
Path of Construction (PoC-3)
Refine CWP's
Release IFC EWP Packages
Procurement Delivery Prioritized by PWP
CWP Readiness Reviews
Module Fabrication Delivery by CWP Sequence
Fabrication Delivery by CWP Sequence
IWP Scoping & Development
Subcontractor Enablement in WFP
Constraint Identification & Removal
IWP Execution & Progress
IWP Close-out
TOPs Execution & Handover
Prioritization of Work Scope by TOP
System Turnover Package Development
Legend
Pre-FEED / FEED Project Phase
Detailed Design Phase
Project Execution Phase
Commissioning / Project Turnover Phase

# 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!

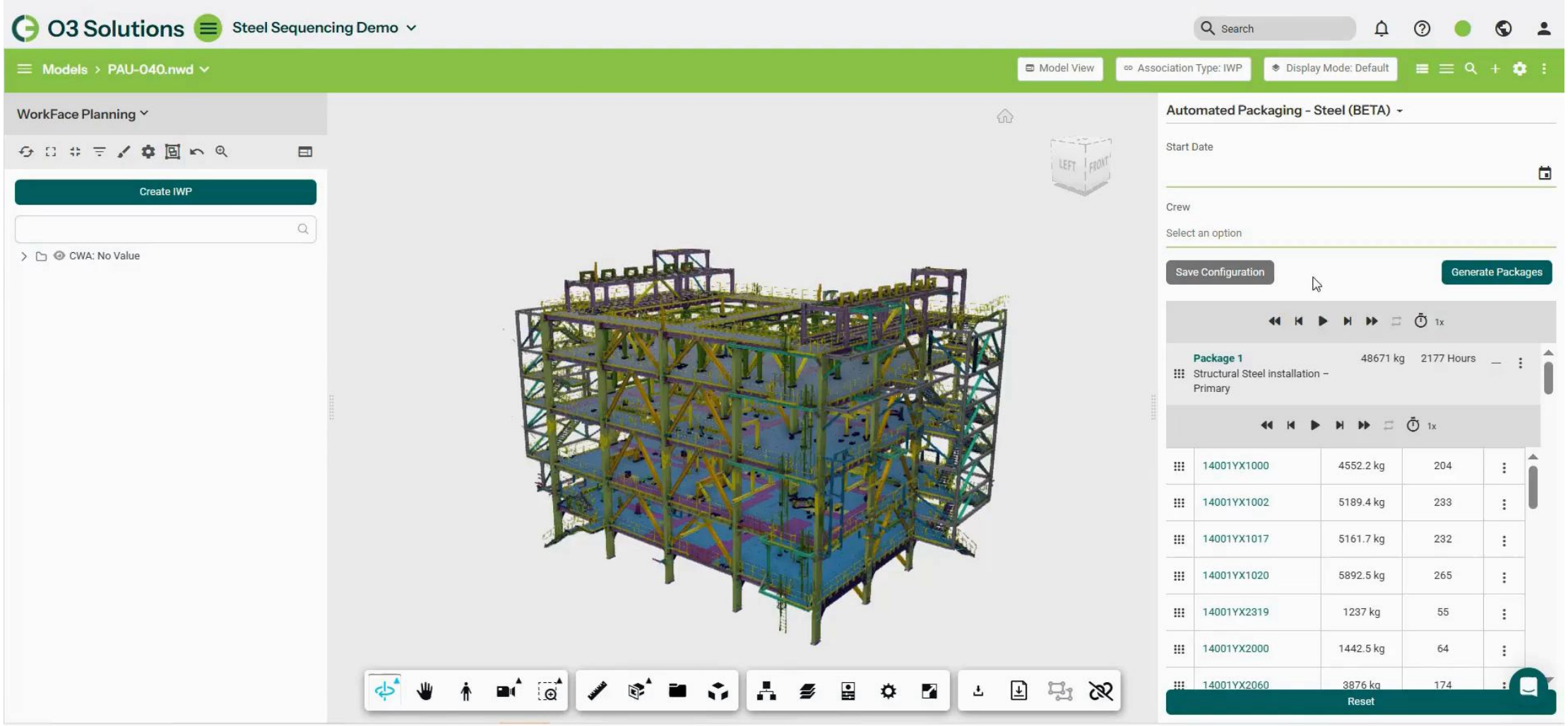
**03** Data, Data, Data.

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

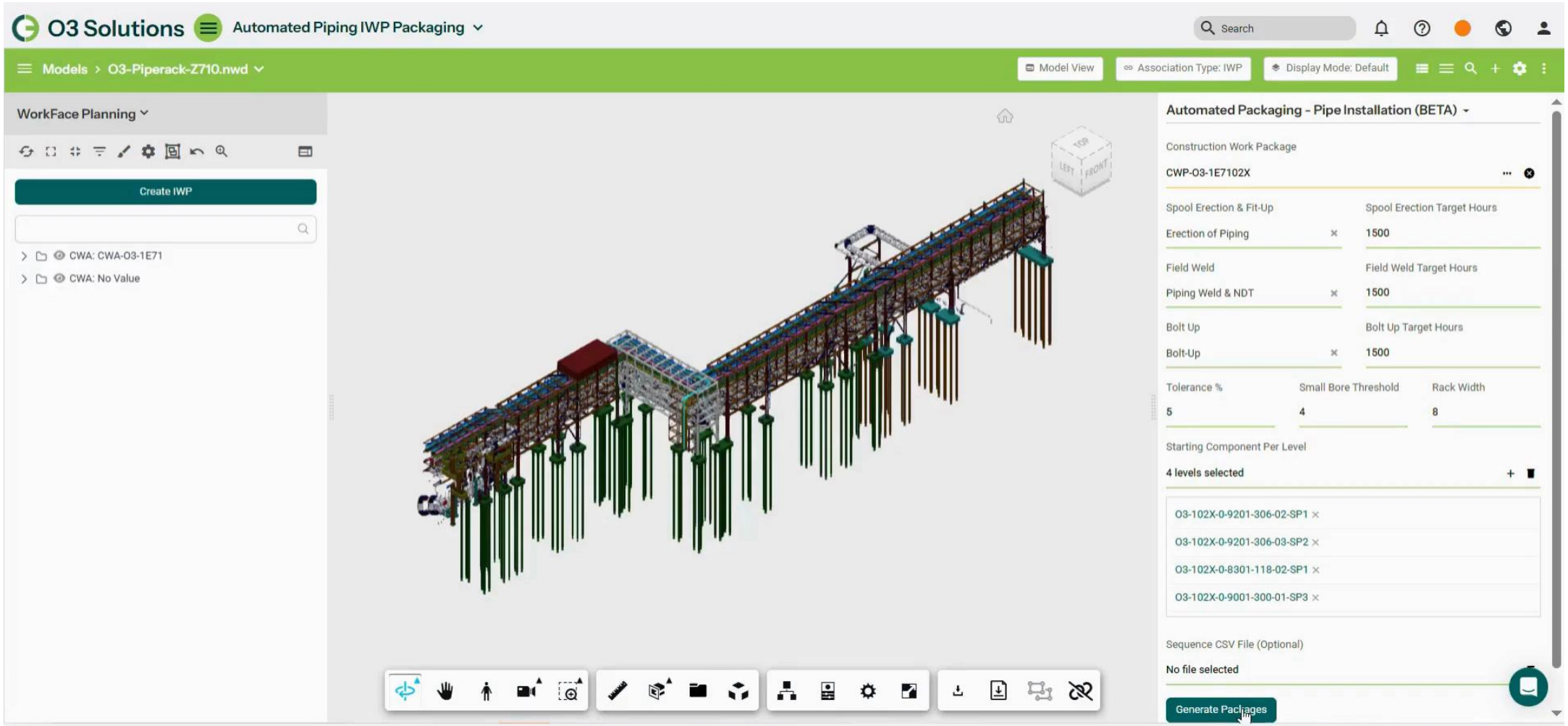
**05** Visual information is easier to consume.

**06** Scalability and repeatability come from clear procedures.

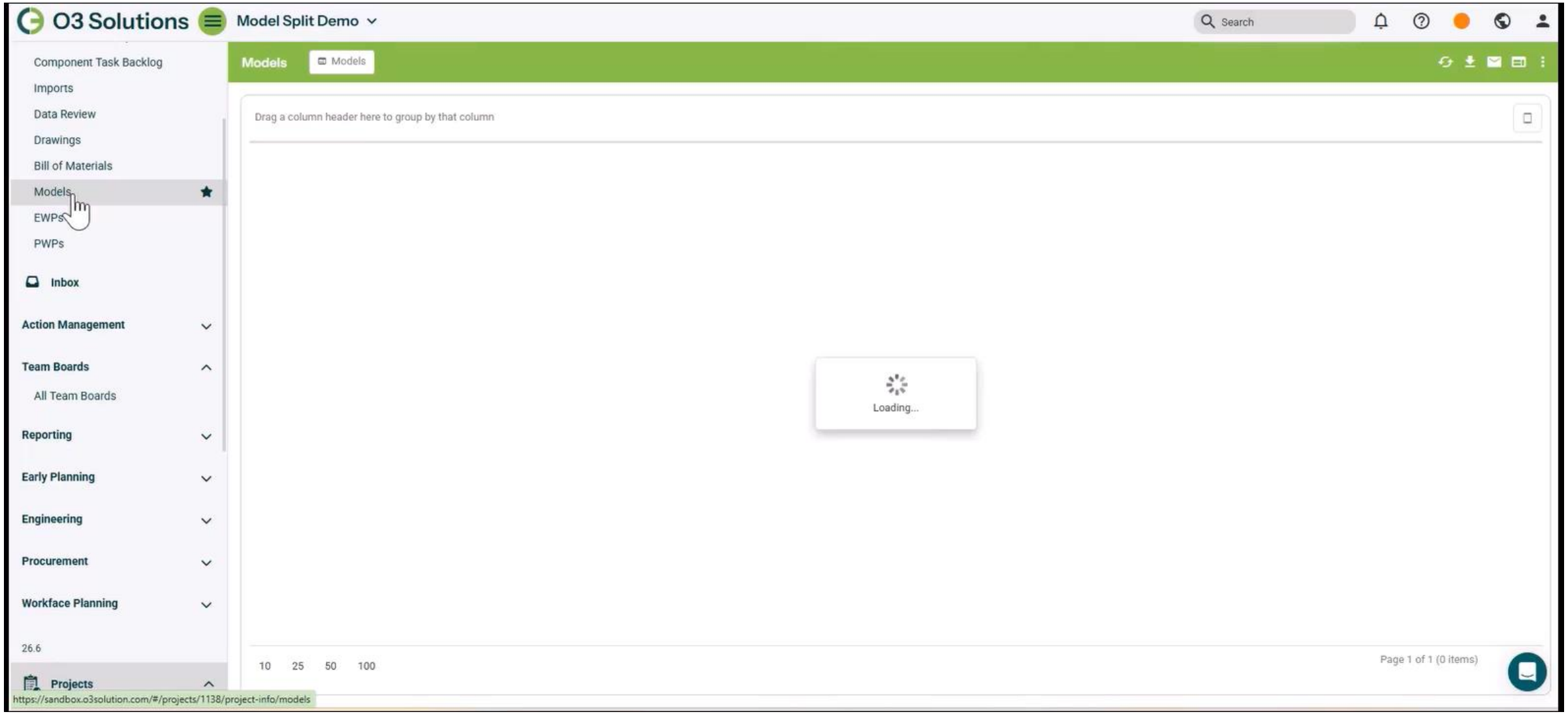
# NEW FEATURE: AUTOMATED STEEL PACKAGING



# NEW FEATURE: AUTOMATED PIPE PACKAGING



# NEW FEATURE: COMPONENT SPLITTING



# 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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