

Completing EPC Life Cycle Digital Thread
Plant IT Specialized Company

3JCNS

3JCNS

A Solution Connecting EPC in a Single Line

- | Proprietary Integrated Solution, 'J-Solutions'
- | AVEVA Value Added Reseller
- | Industry-Focused Consulting & Services

3JCNS CO., Ltd.

www.3jcns.com | 02-2183-2862

COMPANY INTRODUCTION



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PART 01.

Why 3JCNS

Own solutions, End-to-End EPC, and field-Proven.
These three are the answers from **3JCNS**.

Own Solutions

End-to-End

Field-Proven

“Technology truly shows its power only
when it understands the flow of customer

— Sungoh Jeong CEO —

3 Pillars + 4 Values

Three reasons why **3JCNS** is chosen in EPC IT business.

01

Own Solutions

Own integrated solutions encompassing the entire EPC Life Cycle, J-Solutions. A solution maker holding 21 intellectual property rights.

02

End-to-End EPC

From engineering, procurement, and construction to digital handover
Covering all stages of the EPC Life Cycle with 7 categories and 16 solutions.

03

Field-Proven

15+ Years of Experience | AVEVA Value Added Reseller
Proven Across Diverse Industrial Projects in Korea and Worldwide.

4 CORE VALUES

Connect

Innovation

Combination

Accompany

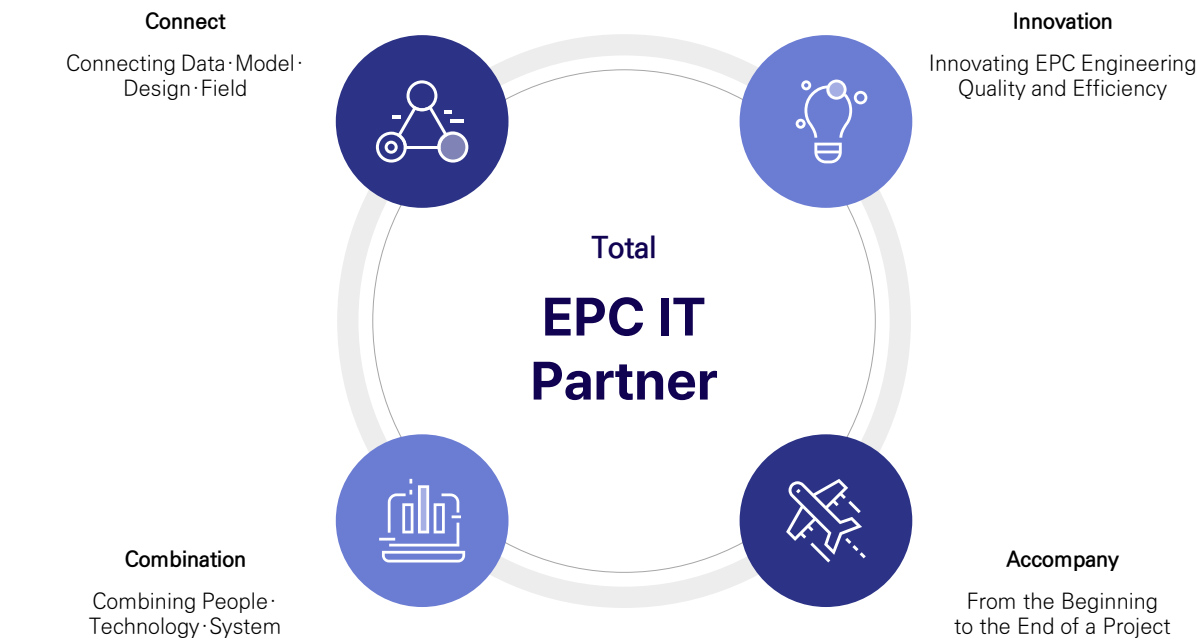
COMPANY INTRODUCTION

We are 3JCNS

Architecting the Unseen Pathways of the Plant Industry
3JCNS is an IT specialist leading the digital transformation of the EPC industry.

Since its establishment in 2011, 3JCNS has developed J-Solutions, a proprietary integrated solution encompassing the entire EPC Life Cycle, including CAD automation·design verification·construction management·data integration. Organizing the most complex data flows in numerous diverse industrial sites and reducing the disconnection of information from engineering to construction·operation — that has been 3JCNS's work for 15 years.

Company	3JCNS Co., Ltd.
CTO	Sungoh Jeong
Business Areas	EPC IT Solution & Services, AVEVA License Reseller
Established	May 16, 2011 (Affiliate 3JENG: November 1, 2019)
Headquarters	2F & 15F 234, Teheran-ro, Gangnam-gu, Seoul, Republic of Korea 06221
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Website	www.3jcns.com



WHY ① OWN SOLUTIONS

Proprietary Solutions, Proprietary Technology

A solution maker, not a simple SI/reseller.

3JCNS is not a mere solution provider. It is a solution maker that has developed proprietary integrated solutions for the End-to-End EPC Life Cycle based on 21 intellectual property rights.
The meaning of "proprietary development" in the EPC IT market is clear. Unlike SIs or resellers that supply global standard software as is, a company based on its own R&D directly reflects the needs of industrial sites into its product roadmap. Since its establishment in 2011, 3JCNS has been turning the voices of the EPC field into proprietary solutions for 15 years.



IP CERTIFICATES



- Integrated Brand J-Solutions**
All these proprietary solutions are grouped under a single brand called J-Solutions. From engineering to digital transformation — it is an integrated solution that connects all EPC stages into a single data flow. (7 categories, 16 solutions)
- Integration with Global Standards**
3JCNS's proprietary solutions operate on global EPC IT standard environments such as AVEVA E3D·Hexagon S3D. Customers enjoy the stability of global standards and the automation·integration technologies of 3JCNS simultaneously.

WHY ② END-TO-END

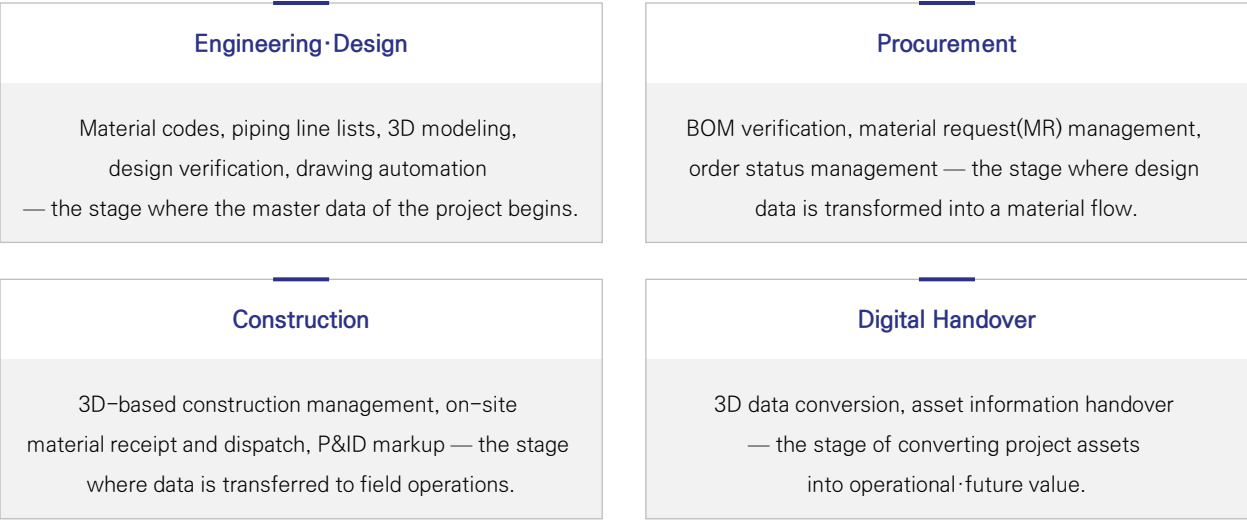
From engineering to construction, Connecting EPC

Most EPC IT solutions cover only one stage.
3JCNS Connects the Entire EPC Lifecycle Across 4 Key Stages

EPC projects proceed in 4 stages of engineering(design)·procurement(material purchase)·construction(building)·digital transformation. Data from each stage must flow accurately to the next, but in actual fields, data disconnection·duplication·rework routinely occur as different solutions are used for each stage.

3JCNS connects all 4 stages.

It operates EPC projects in a single flow without data loss between stages.



WHY ③ FIELD-PROVEN

15 years, technology proven by the field

15 years since establishment in 2011. **3JCNS**'s solutions have been proven in numerous domestic and international EPC fields.

Meaning of 15 years

Large-scale EPC projects average a 3~5 year cycle.
15 years is a proven time that has gone through multiple cycles.

Total Solution Users **1,614,945**

Total Monthly Projects **9,922**

SSP AVEVA Value Added Reseller

3JCNS is an Official AVEVA Value Added Reseller, representing the global leader in industrial software. We provide optimized AVEVA software licensing along with expert technical support tailored to industrial projects. By combining AVEVA licenses, J-Series Solutions, and EPC IT consulting & services, we help customers reduce project costs and improve operational efficiency.

AVEVA World Conference Korea — Sponsor / Speaker Participation.

CLIENTS

Korea – Plant

Korea – Offshore & Marine

Oversea – Plant

PART 02.

Company

15 years of time.

The joint of two companies.

Partnership with global standards.

History ▪ Vision ▪ Organization ▪ Partnership

History · Organization · Partnership

01

History & Organization

15 years since establishment in 2011 — a time of own solutions development and market verification. 3J Vision — JUDGMENT · JOINT · JUSTICE.

02

Business Overview

Two pillars of Solutions (J-Solutions) + Services(3JENG).

03

EPC Coverage

EPC 4 Stages × 7 Categories × 16 Solutions Mapping.

04

IT Execution Plan

5-stage execution methodology from introduction to operation.

History & Organization

Since its establishment in 2011, **3JCNS** has built up its own solutions step by step in the EPC IT sector.

The company's history is an answer to the changes in the EPC IT industry. Since its early days, 3JCNS has focused on developing own solutions that narrow the gap between global EPC software and Korean fields.

As a result, the J-Solutions own product line expanded to 8, and own management systems to 7 — forming today's 16-solution lineup.



- ▶ Establishment of 3JCNS Co., Ltd. (May 16)
- ▶ Commenced development of Own J-Solutions product line (J-Sketch, J-Checker, J-Support, etc.)
- ▶ Started registering major IPs (21 accumulated so far)



- ▶ Establishment of affiliate 3JENG (November 1) — specializing in consulting·service·education
- ▶ AVEVA World Conference Korea Sponsor / Speaker Participation
- ▶ Designated as an official AVEVA Value Added Reseller
- ▶ Signed the first contract for Hexagon S3D Project Admin service
- ▶ Signed the first contract for Hexagon S3D development service



- ▶ 2011~2025 ▶ Operated own Technical Workshop 1st ~ 6th
- ▶ 8 J-Solutions + 7 own management systems = Completed 16-solution lineup
- ▶ Participated in booth and presentation session at AVEVA Day Korea 2025
- ▶ AVEVA Value Added Reseller – Signed official partnership
- ▶ Released J-Construction S3D Version and applied to projects
- ▶ Signed implementation service contracts for Hexagon SPI, SPEL, SP P&ID, SPF
- ▶ Obtained start-up company certification



- ▶ Held partnership agreement and kick-off for strengthening the competitiveness of the regional EPC industry
- ▶ Expanded 3JCNS headquarters
- ▶ Released J-Engineering solution
- ▶ Released J-Procurement solution
- ▶ Obtained INNOBIZ certification
- ▶ Signed AVEVA Unified Engineering 1D/2D implementation service contract
- ▶ Signed AVEVA Asset Information Management(AIM) implementation service contract

3J VISION

The 3J in our company name is our value.

JUDGMENT

Through accurate analysis and judgment we create customer value.

JOINT

Combining people·technology·systems we move forward together.

JUSTICE

With honest technology we protect the industry's trust

A company that makes solutions and a company responsible for consulting.
And an official partnership with global EPC standards.

3JCNS's business operates on these three pillars.

Business Area	Specializing in EPC IT Solution	Business Area	Specializing in Consulting·Service·Education
Core Area	OwnJ-Solutions development·supply	Core Area	From field analysis to implementation·education·maintenance
Assets	Holding 21 intellectual property rights		
Employees	11 (R&D 8)	Employees	13 (Technical Eng'r 12)



AVEVA is a global leader in industrial software. SSP (Select Software Partner) status is awarded exclusively to qualified partners with proven industry expertise and technical capabilities, enabling them to deliver professional services beyond software licensing.

3JCNS is in charge of the official supply·implementation·education·operation support of AVEVA software in the Korean market.

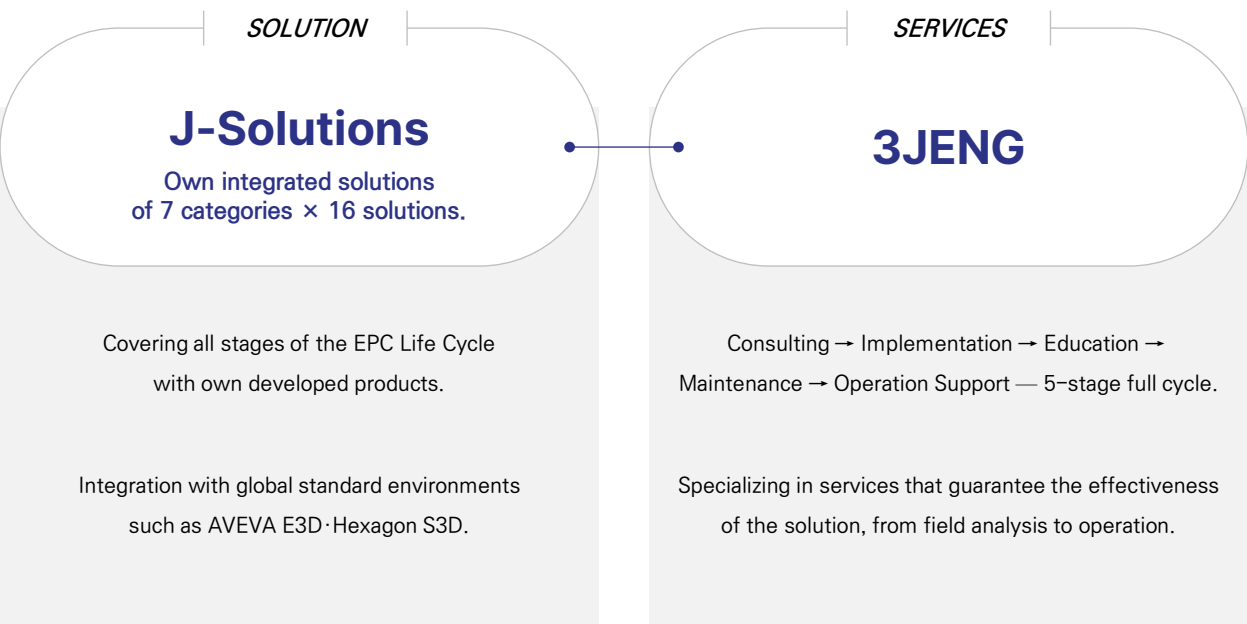
AVEVA World Conference Korea — Participated as Sponsor / Speaker

Business Overview

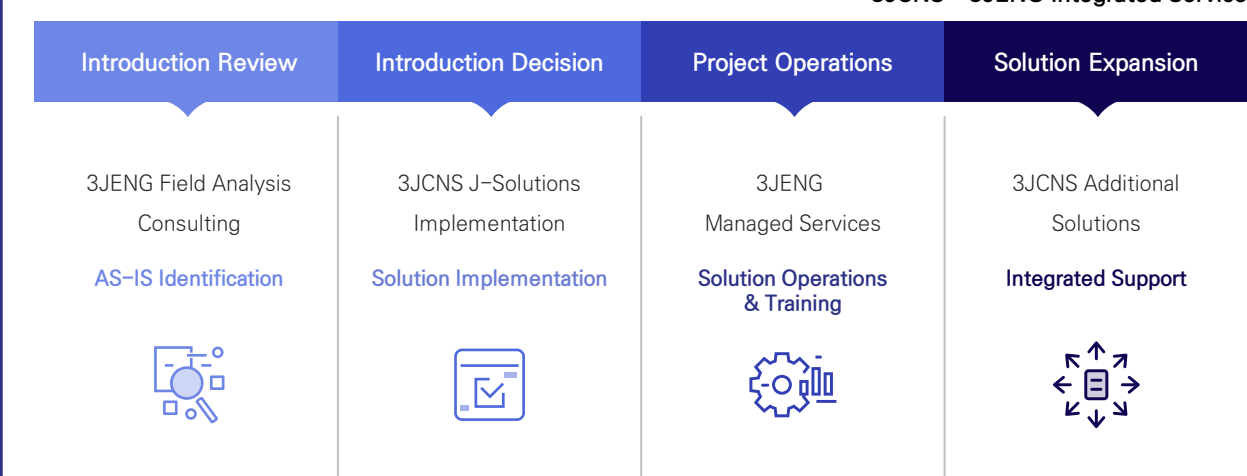
Solutions and services for EPC IT — **3JCNS** provides both in a single channel.

The most common risk when introducing IT solutions to an EPC project is the distribution of responsibility that occurs when the solution provider and the service(consulting·education·operation) provider are separate. If it is not clear whose responsibility the problems that occur after introduction are, it ultimately becomes the operational burden of the client company.

3JCNS places the company that makes the solutions(3JCNS) and the company responsible for consulting·services(3JENG) within the same group, grouping the responsibility for introduction·education·operation into a single channel.



Customer Scenario

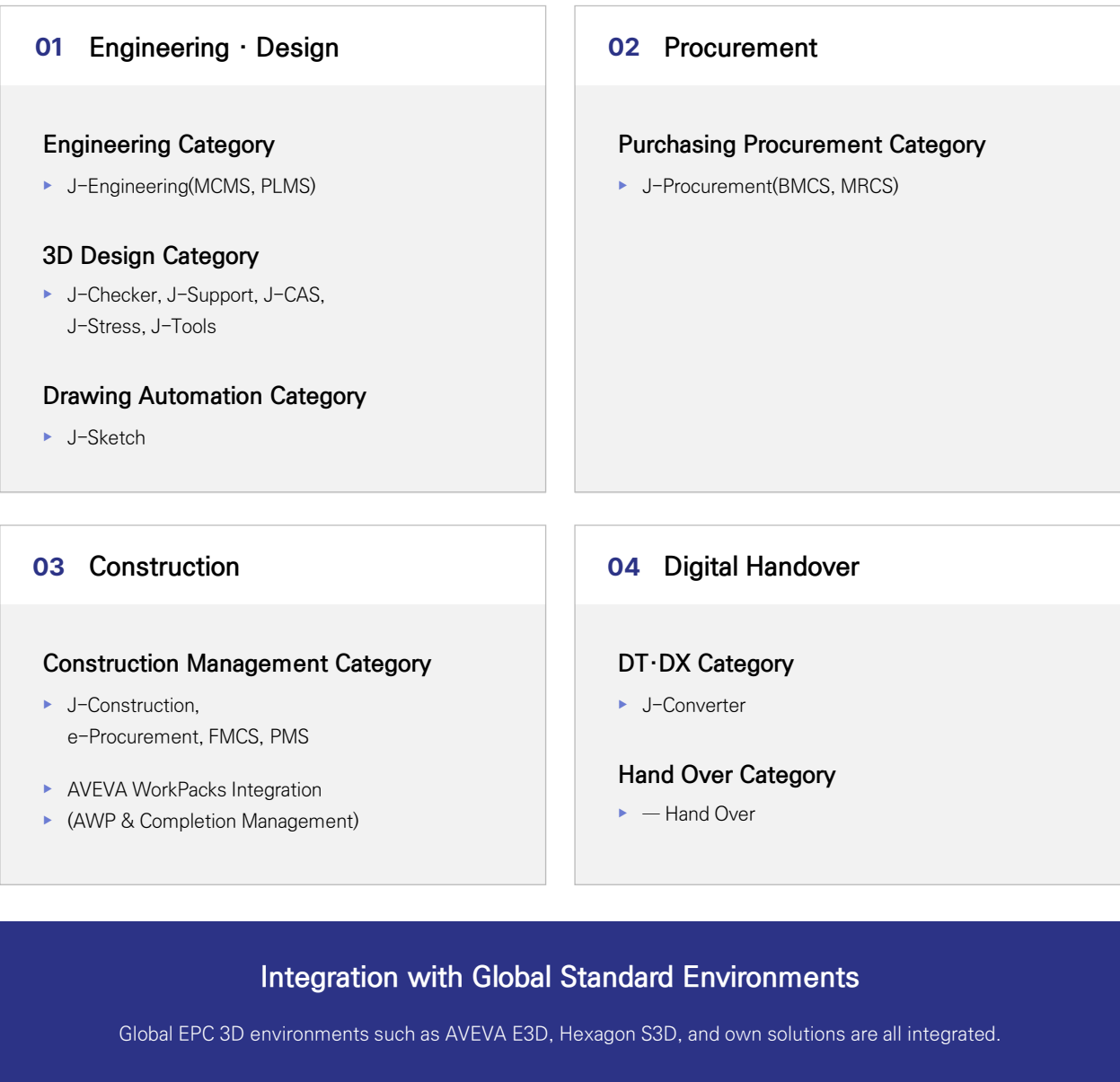


EPC Coverage

We leave no empty spaces in any of the 4 stages of the EPC Life Cycle.

EPC(Engineering, Procurement, Construction) projects are known as three stages of engineering → procurement → construction, but the recent industry is moving to a 4-stage model adding the digital transformation(DT·DX) stage after that.

Digitalization of asset information, integration with the operation stage, utilization of data assets for future projects — this is the 4th stage.



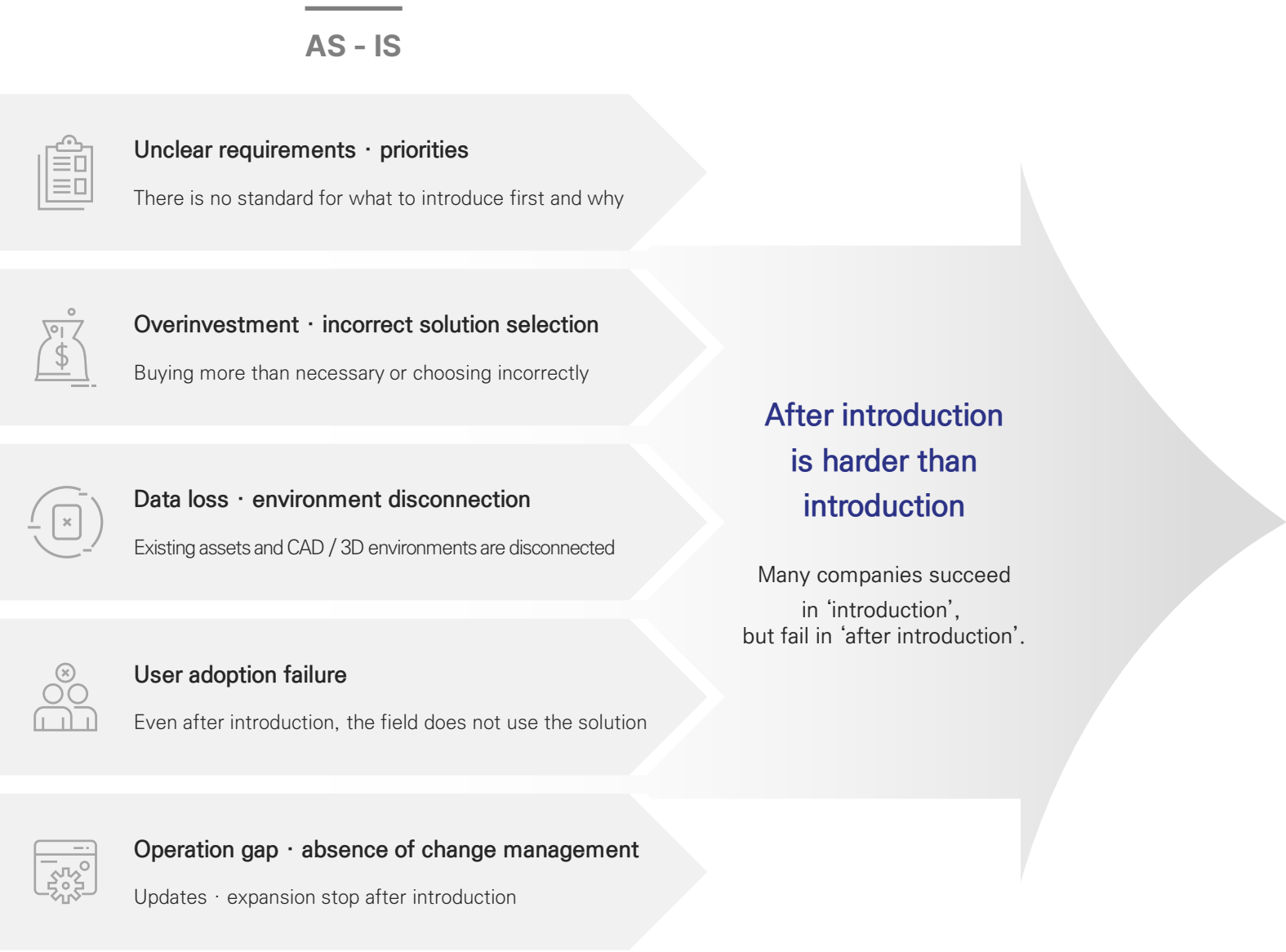
IT Execution Plan by 3JCNS

From introduction to operation, a 5-stage single flow

The success of EPC IT introduction depends on the execution process rather than the solution itself.

Many companies do not fail at the solution introduction stage. The problem is after introduction — user adoption, data migration,integration with the existing environment, and change management in the operation stage.

3JCNS's 5-stage execution methodology takes responsibility for this entire process through a single channel.



PART 03.

J-Solutions

Integrated brand J-Solutions.

7 categories,
16 solutions.

Own lineup connecting EPC.

From engineering to digital transformation — connecting all stages of the EPC Life Cycle with own developed products.

Own ■ Integrated ■ Field-Ready

Solutions Index

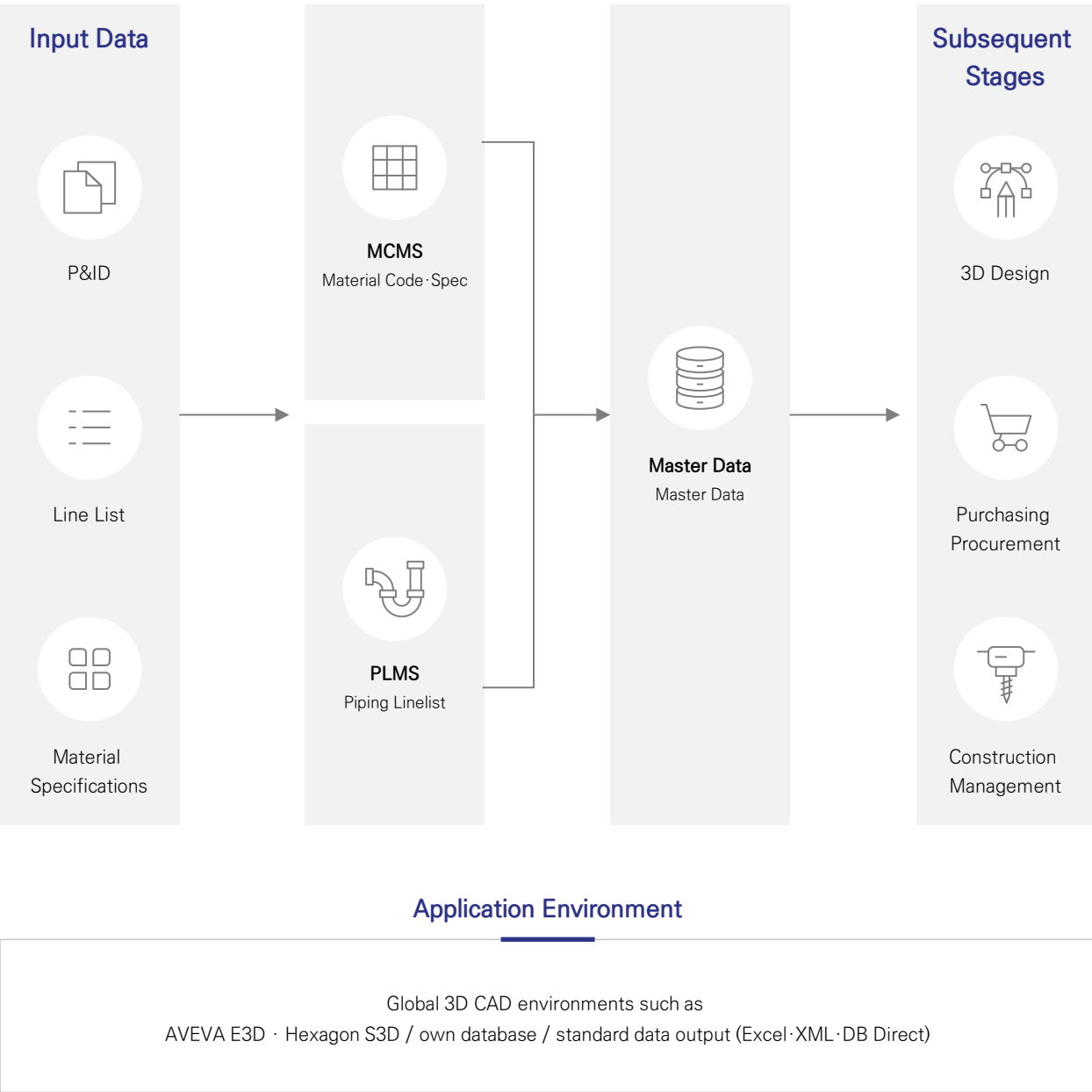
7 categories 16 solutions.

- | | | |
|---|-------------------------|--|
| 1 | Engineering | J-Engineering(MCMS, PLMS) |
| 2 | 3D Design | J-Checker, J-Support, J-CAS, J-Stress, J-Tools |
| 3 | Drawing Automation | J-Sketch |
| 4 | Purchasing Procurement | J-Procurement(BMCS, MRCS) |
| 5 | Construction Management | J-Construction, e-Procurement, FMCS, PMS |
| 6 | Handover | AVEVA AIM Integration & Operational Services |
| 7 | DT · DX | J-Converter, Data Migration & System Implementation Services |

1 Engineering

The starting point of an EPC project. The foundation of master data that all subsequent stages rely on.

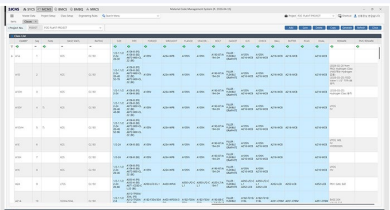
The very first stage of an EPC project is systematically creating engineering-based data such as material codes and piping line lists. If the data entered at this stage is accurate, all subsequent stages (engineering·procurement·construction) flow stably. Conversely, if errors enter at this stage, they accumulate in all stages.



J-Engineering MCMS Material Code Management System

Defines·manages material codes(Material Code), specification classes(Spec Class), and branch·reduce tables(Branch/Reduce Table) according to project standards. Reduces design confusion with a consistent material code system, and ensures that all subsequent stages flow on the same material standards.

- ▶ Definition·management of material codes according to project common standards (Creation·management of common short codes)
- ▶ Systematic definition of short codes and branch·reduce tables
- ▶ Input·management of description information by material code
- ▶ Bolt specification data management according to standard specifications (ASME B1.1 · ASME B16.5)
- ▶ Automatic generation of specification data integrated with 3D CAD (AVEVA E3D · Hexagon S3D)
- ▶ Code modification history management (Recording of modification time·content)

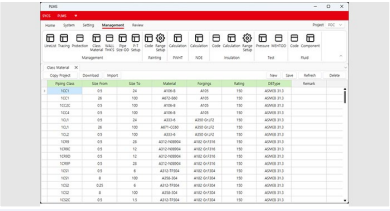


Introduction Point While maintaining the existing material code system as is, it adds short code·specification·history management to consistently manage material standards across the project.

J-Engineering PLMS Piping Linelist Management System

Turns piping Line List by project into data to manage input·output, and automatically calculates Line Condition according to characteristics and project conditions.

- ▶ Automatic extraction of piping Line numbers based on P&ID (Dataization·processing·management of Line List Excel·PDF received from the client)
- ▶ Automatic calculation of Line Condition (Reflecting Line characteristics·project conditions — Reducing repetitive input work of the piping team)
- ▶ Automatic integration with 3D model·ISO drawing creation programs based on Line number (Preemptive prevention of construction errors by keeping Line Condition up to date)
- ▶ P&ID verification (Opening P&ID in each 3D Review program, model review·design verification)
- ▶ Creation of P&ID comments·markups and sharing with stakeholders (Design review·collaboration)
- ▶ Output of various reports / Maintaining up-to-date data through STD. Code integration

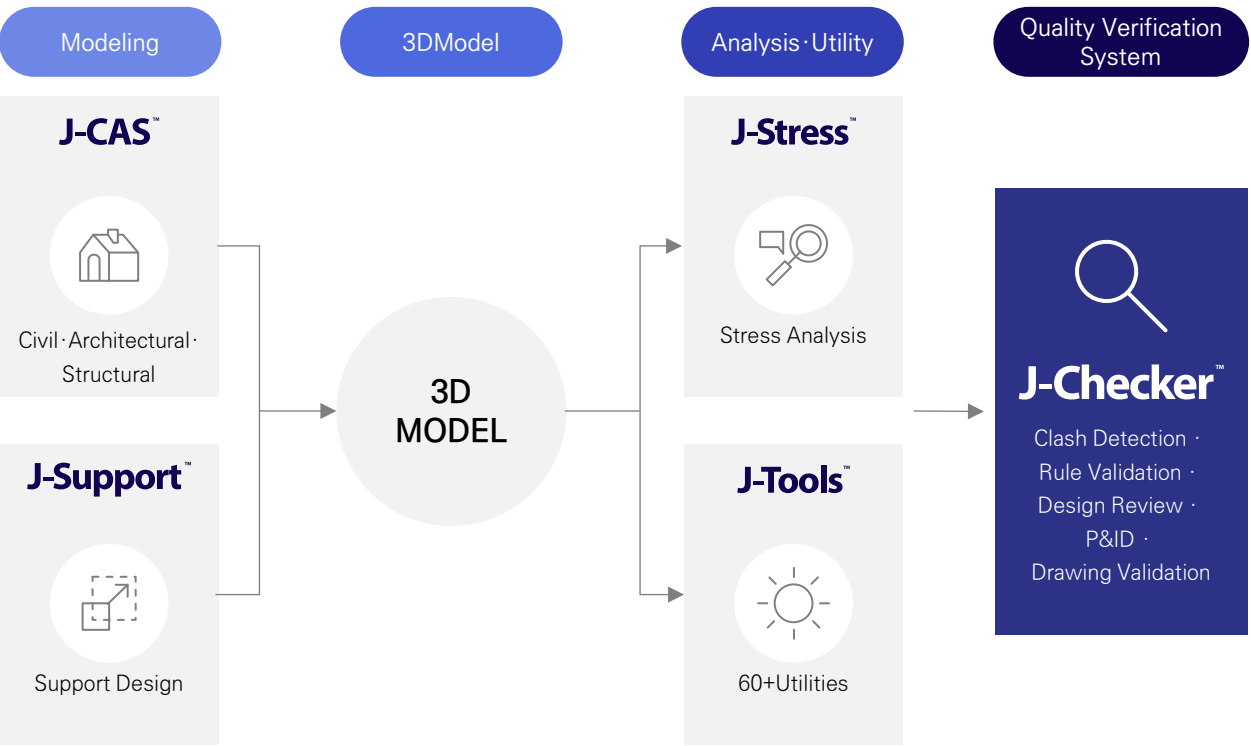


Introduction Point Reduces errors occurring from manual Excel input·verification, and consistently maintains the latest Line Condition.

2 3D Design

5 types of own J-Series that raise the quality and productivity of the 3D design environment.

Simple modeling has already been standardized in the 3D design environment, but subsidiary tasks(design verification, support modeling, civil·structural integration, stress analysis, utility automation) that determine the quality·productivity of the result are still a heavy burden. The 5 J-Solutions from 3JCNS Automate Complex Engineering Tasks



Application Environment

AVEVA E3D · AVEVA Unified Engineering · Hexagon S3D

Application Cases

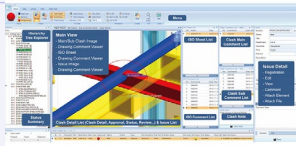
Total Monthly Projects	Total Solution Users
9,922	1,614,945

J-Checker™

Design Quality & Rule Validation | 3D Design Quality Management System

It integratedly verifies clash(Clash), design rules(DRC), and ISO drawings to proactively block drawings containing errors from going to the field. It strengthens quality accountability and traceability through web service-based collaboration and approval·history management.

- Automatic 3D interference(Interference) detection + user-defined Rule-based quality verification(Design Rule Check)
- Integrated management of Design Review Comment · ISO Comment on a single screen, automatic reflection through drawing API integration
- Real-time confirmation of review results with AVEVA E3D · Hexagon S3D · Autodesk Navisworks Add-In
- Reduction of large-capacity review time through batch·incremental verification and priority analysis
- Review·approval·modification history management + dedicated Data Viewer
- Customized report automation — automatic generation of professional reports(Excel · 3D PDF) including real-time charts, Before & After

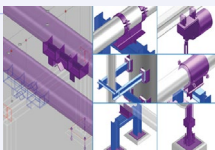


J-Support™

3D Support Modeling & Validation | Automated Fabrication Drawing Generation

Based on engineering support standards, it supports from 3D modeling to BM calculation and detailed drawing automation. It minimizes modeling waiting time with the "Fast & Easy" philosophy.

- Automatic selection of support type according to piping material·temperature·size·pressure conditions — consistent quality regardless of proficiency
- Automatic selection of bracket size + simultaneous modeling of accessories(Ancillaries), over 40 user functions such as Multi Copy
- Integration with spring hanger(Spring Hanger) manufacturer standards, Span Check · Consistency Check · Clash Check verification tools
- Real-time material aggregation(BM) + client format Excel detailed/summary report, supporting up to electrical and instrumentation(E&I) cable tray supports
- 100% automated detailed drawing(Shop Drawing) — including dimensions·tags·Location View, PDF 3D and AutoCAD conversion
- Building client's unique support standards into a library within up to 3 months

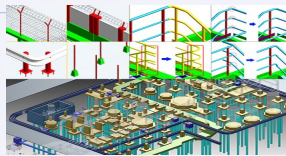


J-CAS™

Civil·Architectural·Structural High-End 3D Modeling Package

Integrated support for high-quality 3D modeling in civil·architectural·structural fields. It raises design quality and collaboration efficiency with verified libraries and error prevention functions.

- Providing modeling packages(23+) for non-standard complex objects in UG/AG/ASL areas(Under Ground · Above Ground · Access Stair Ladder)
- Built-in standard libraries of major domestic EPC companies(shape+quantity information) — easy to add·modify with its own framework
- Powerful editing design functions such as Access Stair Ladder, minimizing misconstruction risks with 3D precise clash check
- Property saving for BM creation + creation of various deliverables through drawing automation integrated with J-Sketch

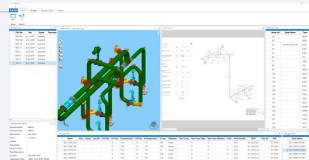


J-Stress™

Piping Stress Analysis Integration Solution

It immediately reflects stress analysis results through bidirectional integration between industry standard Caesar II and 3D models. It increases design reliability through data consistency and document synchronization.

- Extracts 3D CAD piping information and analyzes it directly in Caesar II — minimizing dual work(modeling·analysis)
- Providing intelligent ISO — including 3D/Node details in all Node information·BM Tag·Component, implementing 1D/2D/3D Interface
- Shortening approval·review cycles with quick updates of support·material·routing·ISO information
- Automatic extraction of CII format — saving time·cost by eliminating 3D work of high-cost analysis engineers, minimizing Human Error

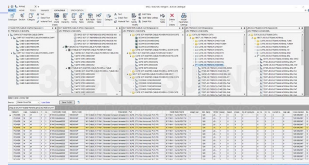


J-Tools™

3D Modeling Utility Package (60+ Tools)

It automates the repetitive work of 3D users·administrators with over 60 verified utilities. It allows the secured time to be reinvested into high value-added work such as improving 3D precision.

- 60+ utility package — even junior users quickly adapt to practical work(upward standardization of work proficiency)
- High-End functions — cable auto-routing(Auto-Routing), automatic markup of steam tracing in ISO/GA drawings, batch addition of ISO connection symbols
- Dedicated utilities for 3D Admin — improving productivity of high-cost administrator tasks such as catalog & spec creation·modification, BM reports



③ Drawing Automation

J-Sketch™

3JCNS's core area that changed the standard of drawing creation.

In an EPC project, a drawing is the final deliverable of the design result and the work order for the construction site. However, traditionally, drawing creation is labor-intensive, and drawings had to be manually updated whenever 3D model/P&ID data changed. 3JCNS solves this work with an automatic generation engine.

It is not a simple drawing output. It automatically reflects changes in 3D models and P&ID data to the drawings.

It automatically maintains drawing-model consistency.

Application Environment

Electrical and instrumentation, civil and architectural, piping, structural, and other EPC drawings
Operates in all 3D environments such as AVEVA E3D · AVEVA Unified Engineering

Application Cases

A horizontal bar chart with three bars of equal length, each representing a different metric. The bars are light blue. Above each bar is a label, and below each bar is a value. The first bar is labeled 'Drawing creation time' and has the value '95% Reduced'. The second bar is labeled 'Companies Served' and has the value '48 ea'. The third bar is labeled 'Deployed Workstations' and has the value '19,470 Units'.

Metric	Value
Drawing creation time	95% Reduced
Companies Served	48 ea
Deployed Workstations	19,470 Units

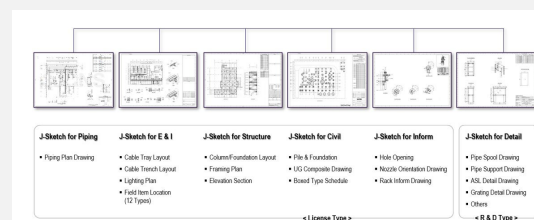
The new standard of drawing creation J-Sketch — Automatic drawing generation engine (3JCNS flagship product)

J-Sketch is an engine that automatically generates 2D drawings from 3D model data. It is applied to various fields such as electrical and instrumentation · civil and architectural · piping.

CORE FEATURES

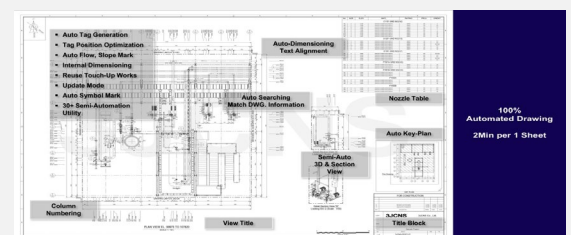
Drawing Type & Discipline-Specific Automation

Optimized for Piping, Structural, E&I, and Civil



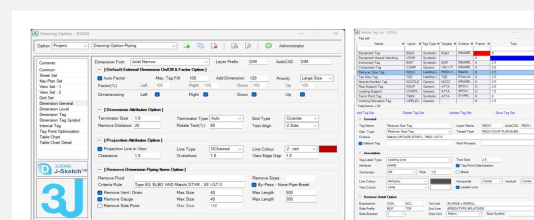
Automatic 3D-to-2D Drawing Generation & Updates

Real-Time Synchronization of Graphics, Dimensions & Tags



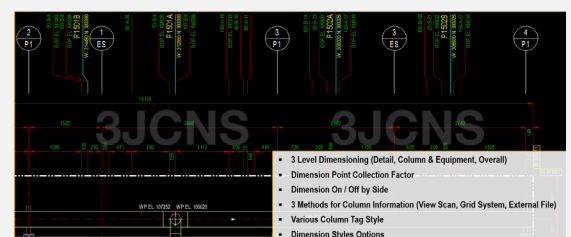
Supports Industry & Project Requirements

Flexible Options by Project & Drawing Type



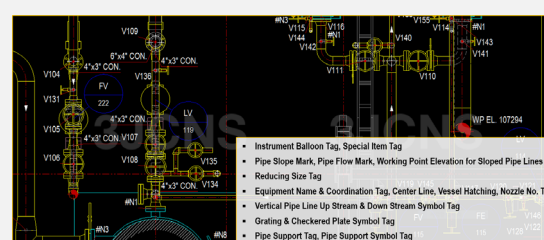
Automated Internal & External Dimensioning

Automatic Dimension Recognition & Annotation



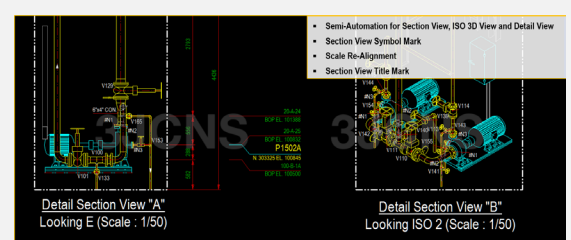
Automated Tagging & Placement Optimization

Intelligent Tag Callouts with White Space Management



Productivity Utilities for Faster Workflows

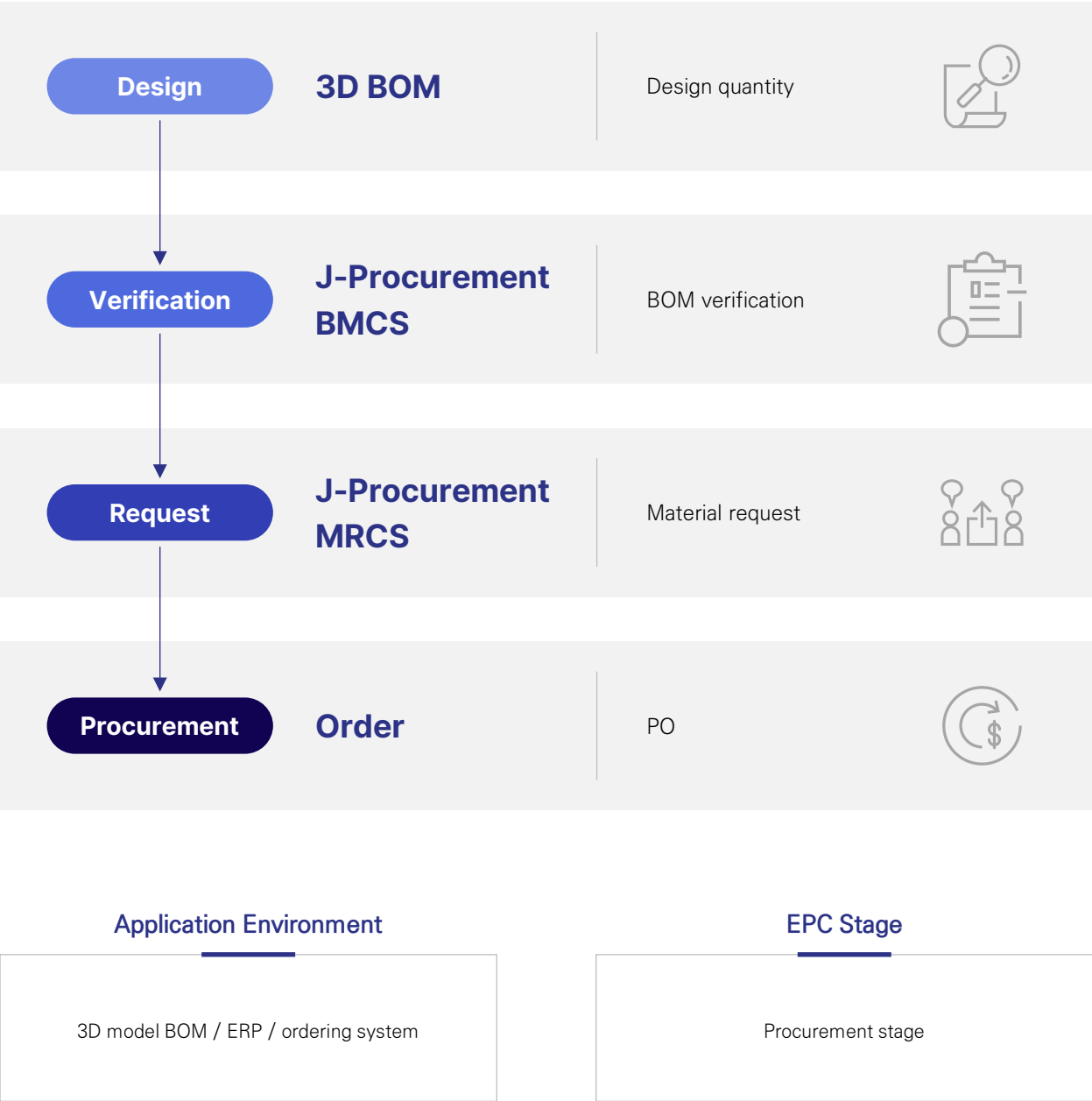
Semi-Automation to Minimize Touch-Up Time



4 Purchasing Procurement

The path where design BOM flows into construction materials.
We prevent data loss on that path.

In an EPC project, the procurement stage is the crucial crossroad connecting design and construction. The BOM(material list) of the design stage is transformed into a material request(MR), and arrives at the construction site through ordering. If data is lost or misaligned in this flow, material omissions and over-ordering occur simultaneously at the construction site.

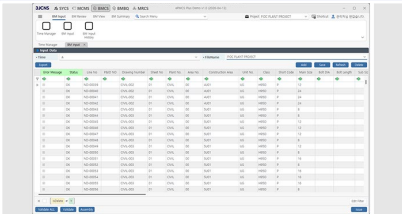


J-Procurement BMCS

Bill of Material Control System

It integratedly supports input·verification·quantity aggregation·summary report creation of BOM data, proactively blocking quantity risks with accurate BOM management.

- ▶ Loading 3D model data and utilizing it as BOM + manual input·management of BOM data
- ▶ BOM data inquiry·review, summary·statistics based on quantity·weight
- ▶ Material quantity allowance data management by project
- ▶ Output of BOM summary report and weight report



Introduction Point

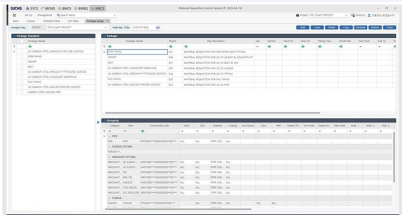
It blocks data disconnection between design BOM and procurement MR.
It proactively prevents omissions·over-ordering in the procurement stage.

J-Procurement MRCS

Material Requisition Control System

It supports grouping of material request numbers, creation·management of MR(Material Requisition), attached document management, and output of request sheets(Requisition Sheet).

- ▶ Definition of material request sheet package composition — definition of included items·piping classes by package
- ▶ Requisition Data Calculation — automatic calculation of requested quantity
- ▶ Creation of quantity comparison table(Balance Sheet) based on requested quantity — comparison between requested quantity and standard quantity
- ▶ Consistent data management from material request to ordering stage



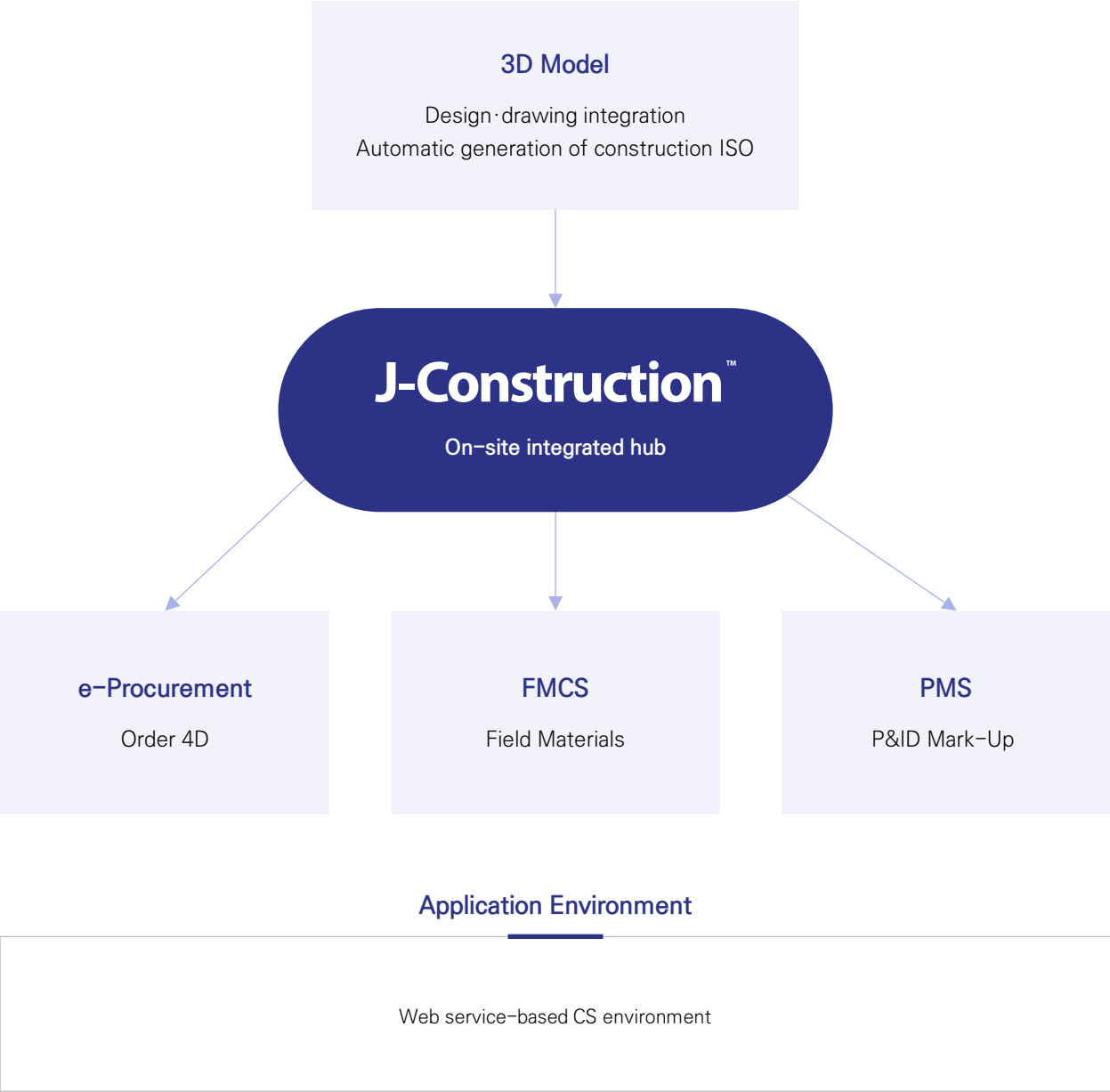
Introduction Point

By blocking data disconnection·errors between design BOM and procurement MR,
it proactively prevents material omissions and over-ordering in the procurement stage.

5 Construction Management

The most visible stage of an EPC project.
It integratedly manages 3D models·orders·materials·drawings.

The construction stage is the point where the results of design and procurement come out to the actual field. In this stage, multiple data must be handled simultaneously — automatic creation of construction ISO based on 3D models, along with plans, order status, receipt and dispatch of on-site materials, and P&ID markup. 3JCNS integratedly manages all these data of the construction site with 4 solutions.



J-Construction

3D Welding Maps & ISO Automation

It connects welding·spool·material·process into a single data flow. It shares design modifications(Revision) in real-time to block information inconsistency and manual work errors, and minimizes the risk of rework.

- ▶ 3D WCS (Weld Control System) — Automatic generation of welding points·clash check in 3D models, automatic extraction·on-site distribution of confirmed data quickly to construction ISO drawings·welding lists·BM
- ▶ PWMS (Piping Working Management System) — Designation of partners·welders by spool·joint, real-time tracking of the entire process from fabrication·installation and revision history
- ▶ Intelligent quality inspection — ISO selection of NDE(Non-Destructive Examination) points, management of RT film results·defect history, configuration of test packages(P&ID+ISO single PDF), real-time communication of Punch List
- ▶ Real-time integrated dashboard — Trend by status·performance report against plan, utilizing construction data as a basis for operation·maintenance(O&M) asset management
- ▶ Effect — Reduces re-welding costs due to inaccurate welding positions by up to 80% through 3D precise welding point management·clash checks

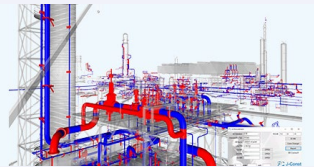


e-Procurement

4D simulation of order status

Visualizes the material order status on the 3D model through 4D simulation by purchase order degree, determining the actual constructible quantity.

- ▶ Expressing order status over time as a 4D simulation
- ▶ Distinguishing and displaying ordered/unordered materials based on color
- ▶ Automatic generation of OSI Report — Overissue(excess)·Shortage·Incorrect(error) status
- ▶ Confirmation of workable indicators(Workable D/I) based on PO

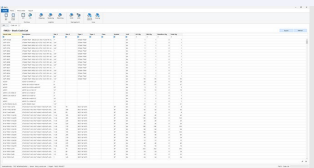


FMCS

Field Material Control System

Based on on-site material order information, it integrates receipt·dispatch management and material issue management by company·drawing, connecting drawings and material flows to preemptively manage on-site process risks.

- ▶ Material application·issue management based on drawings — Reducing errors such as material omission·excessive issue
- ▶ Optimization of construction schedule plans based on receipt·dispatch history — Preventing process delays through early identification of material preparation status
- ▶ OSID(Overissue·Shortage·Error·Damaged) real-time identification— Improving on-site response speed with immediate action
- ▶ Securing construction stability by reducing process risks based on material readiness

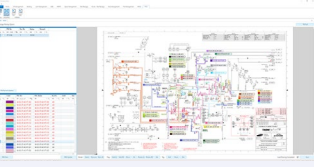


PMS

P&ID Mark-Up System

It supports P&ID mark-up and test package creation without a separate CAD environment. It increases work accessibility and efficiency with a lightweight markup method.

- ▶ P&ID mark-up performed without CAD
- ▶ Dedicated mark-up function for test package creation — Minimizing repetitive work
- ▶ Improving readability·accuracy of drawing reviews by package with DXF-based visualization mark-up
- ▶ Simplifying documentation with automatic PDF output of mark-up results — Utilization in on-site inspection·commissioning stages



⑥ Handover

Handover

The final stage of an EPC project.
Digitalizes asset information and hands it over to the client.

When an EPC project is completed, all information on design·construction·materials must be handed over to the client. It is not a simple handover of drawings·documents, but the digital handover of asset information that can be immediately utilized in the operation stage is the current industry standard. 3JCNS officially supplies the global standards AVEVA Asset Information Management(AIM), AVEVA CONNECT, and the construction management and data management solution AVEVA WorkPacks in this area.



※ AVEVA AIM and WorkPacks are not 3JCNS's own developed J-Series products but AVEVA products.
3JCNS provides these solutions as the official AVEVA SSP supply channel in the Korean market.
All information in this introduction used AVEVA materials.

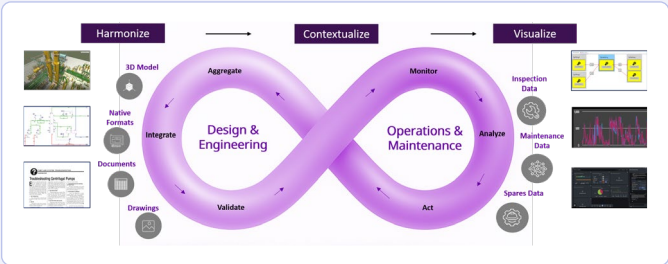
Asset information of the EPC project flows seamlessly into the operation stage.

Follows global standards with AVEVA Asset Information Management.

CORE FEATURES

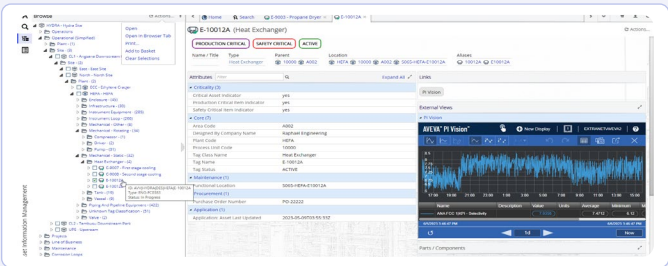
Integrated handover of design·construction·material data

Intergrate and hand over all data
Of the EPC project



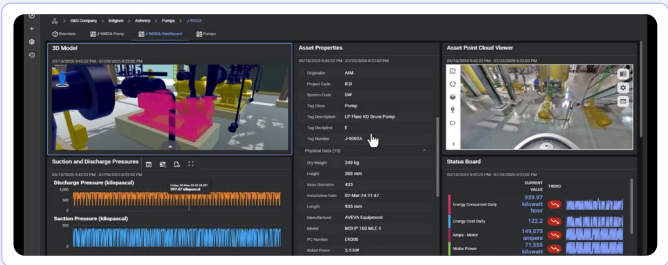
Asset information digitalization / search·inquiry

Search and inquiry functions of
digital asset information



Seamless Integration with Owner-Operator Operations

Operational Integration
& EPC Standards Compliance



3JCNS's Role

- ▶ Official supply of AVEVA AIM (AVEVA Value Added Reseller)
- ▶ Implementation·education·operation support in Korea (3JENG collaboration)
- ▶ Data integration consulting with other J-Solutions

7 DT · DX

J-Converter™

Turning past data into future assets.
Converting 3D into a physical model capable of actual design/operation.

The EPC industry is recently emerging as a core area of digital transformation. It is a trend to go beyond simply storing 3D data, drawings, and material information from past projects, and utilize them as assets for current and future projects. The most basic task of this transformation is precisely 3D data conversion.

Going beyond simple conversion, it transforms graphic-centric mechanical CAD data into physical objects with live tags·attributes, creating a foundation for building a high-quality digital twin, and raising client reliability and EPC external competitiveness.

Application Environment

AVEVA E3D · AVEVA Marine · Hexagon S3D
NavisWorks · IFC · Inventor · Solidworks · AutoCAD Plant 3D · CATIA · STEP · MicroStation

PERFORMANCE

1 Conversion time per Package	Piping automatic conversion rate	All Discipline automation rate
12hours	95%	100%

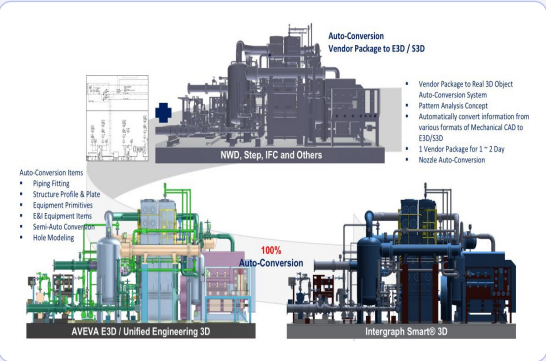
3D data, Crossing Environments

Data conversion between different 3D environments.J-Converter is a digital transformation solution that converts external 3D data into a physical model of its own environment.

CORE FEATURES

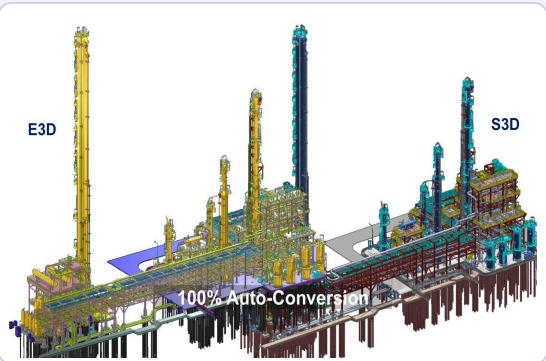
J-Converter Gx
(3D Vendor package conversion)

Converting various mechanical CADdata such as NavisWorks, Inventor, Solidworks,AutoCAD Plant 3D into E3D/S3D physical objects.Lightweighting original capacity by up to over 95%, shortening modelingperiod from 10~15 days → 1~2 days.



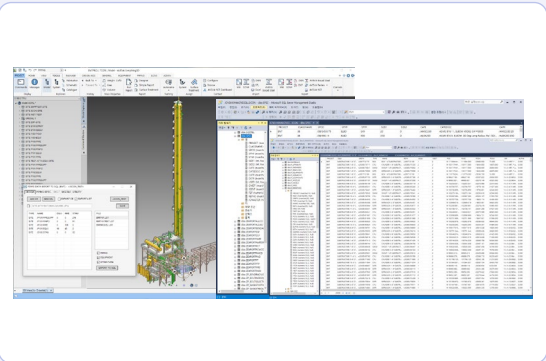
J-Converter Dx
(Automatic conversion of plant 3D CAD)

100% automatic conversion of E3D ↔ S3D.Integrated conversion of all disciplines such aspiping, equipment, steel structure, cable tray.Complete conversion of the entire plant in 4 weeks based on general plants.



Maximizing data consistency and utilization

Providing model consistency verification report after conversionMaintaining tags and attributes with a 100% automation rate,preparing the foundation for building a high-quality digital twin.



PART 04.

CONSULTING & SERVICE

Consulting & Service by 3JENG

Beyond the solution, from introduction to operation —
3JENG is with you throughout the entire EPC process.

Consulting ■ Service ■ Training through single channel till the end

WHY 3JENG

If the own solution(J-Solutions) is 'what',
consulting & service is 'how to make it a success'.

**Affiliate 3JENG takes responsibility for the entire process
of EPC digital transformation, from designing the design
environment to execution·operation, and practical training.**

3 STEPS

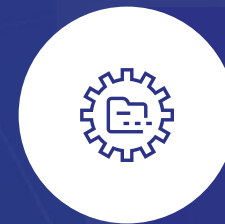
C → S → T Flow



CONSULTING

Designing the design environment

► Establishing an optimal design environment and standards based on S3D · E3D



SERVICE

Supporting execution and operation

► Problem solving · automation development · EPC digital handover



TRAINING

Cultivating practical capabilities

► Field-oriented hands-on training (Training Center)

From the start of introduction to the end of operation, a seamless single channel.

End-to-End Support for E3D, AVEVA UE1D/2D/3D & S3D Projects - by 3JENG

01

CONSULTING

Professional consulting based on Hexagon
S3D·AVEVA UE1D/2D/3D · AVEVA E3D

We establish the optimal design environment and operation strategy from the early stage of the project. We accurately design the start of the project through an integrated approach that considers the efficiency of the entire EPC, rather than simple system construction.



Core Areas

- ▶ E3D, UE1D/2D/3D, S3D environment design
- ▶ Design specifications·part catalog strategy

- ▶ Design standards·object naming rules
- ▶ Data structure·operation process design

Differentiation

- ▶ EPC practice-based
- ▶ S3D/E3D professional technical skills

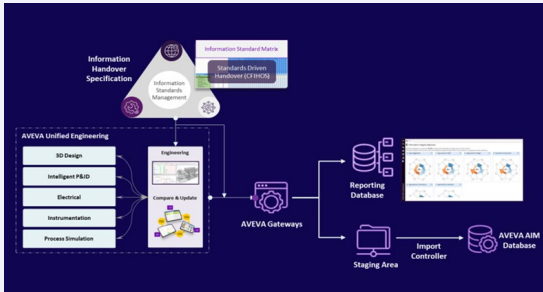
- ▶ Minimization of introduction initial risks
- ▶ Customer-customized strategy

02

SERVICE

Solving problems during execution
and supporting continuous operation

We solve problems during execution and increase productivity and quality through continuous operation support and customization development. We take responsibility until the transfer to digital twin through EPC digital handover that combines engineering data and intelligent asset information.



Core Areas

- ▶ Technical support for all project stages
- ▶ Customized program development(API)

- ▶ Problem Solving for E3D, UE1D/2D/3D & S3D
- ▶ Data-based operation·automation

Other services
(6 types)

- ▶ Intelligent P&ID
- ▶ Engineering Data construction

- ▶ PIM consulting/service
- ▶ Construction IT Services

- ▶ 3D CAD conversion(E3D↔S3D)
- ▶ Digital Transformation

Practical training that understands the field, and a single channel connecting design – execution-operation.

03

TRAINING

Practical training that understands the field

We increase EPC execution capabilities with practical training that understands the field. We provide a customized·hands-on learning environment based on AVEVA's major products and 3JCNS solutions.



Training Environment

- ▶ Max 20 People
- ▶ 85" Dual Screen
- ▶ Practice Laptops with external graphics

- ▶ Dedicated Canteen

Training Courses

- ▶ AVEVA major products
- ▶ 3JCNS solutions
- ▶ User-customized [Other] technical workshops

- ▶ Design review

Value of a single channel

STEP 1

STEP 2

STEP 3

Consulting

Service

Training

Consulting design environment

Execution·Operation support

Practical capability training

A single company performs everything to the end, from design environment design to execution·operation support, and practical capability training.

Without a gap in handover between stages, from the start of introduction to the end of operation

— 3JENG becomes the single channel for EPC digital transformation.

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PART 05.

AVEVA

Value Added Reseller

AVEVA Official Specialist Solutions Provider (SSP)

More than a software licensing partner, this certification is awarded exclusively to top-tier partners with exceptional technical expertise that maximizes customers' business value.

Global industrial software leader AVEVA, and its official reseller **3JCNS**.

By combining AVEVA's global technical expertise with 3JCNS's EPC-specialized IT capabilities into one, we provide an integrated digital package for the entire EPC process, from design to operation.

Supply of software optimized for industrial sites and professional technical support in a single channel.

SOLUTIONS PORTFOLIO

AVEVA

Engineering Solutions

01

Construction Project Management

An engineering package that increases productivity and accuracy in all stages of EPC, ranging from 3D modeling, materials, procurement, and contracts to construction integration.

02

Simulation

A High-Fidelity process simulation environment ranging from initial process design to detailed design, control system verification, and virtual commissioning.

03

Asset Lifecycle Management

Digital asset management that maximizes maintenance efficiency by connecting all collected engineering and design data into a single operational platform.

AVEVA Partnership

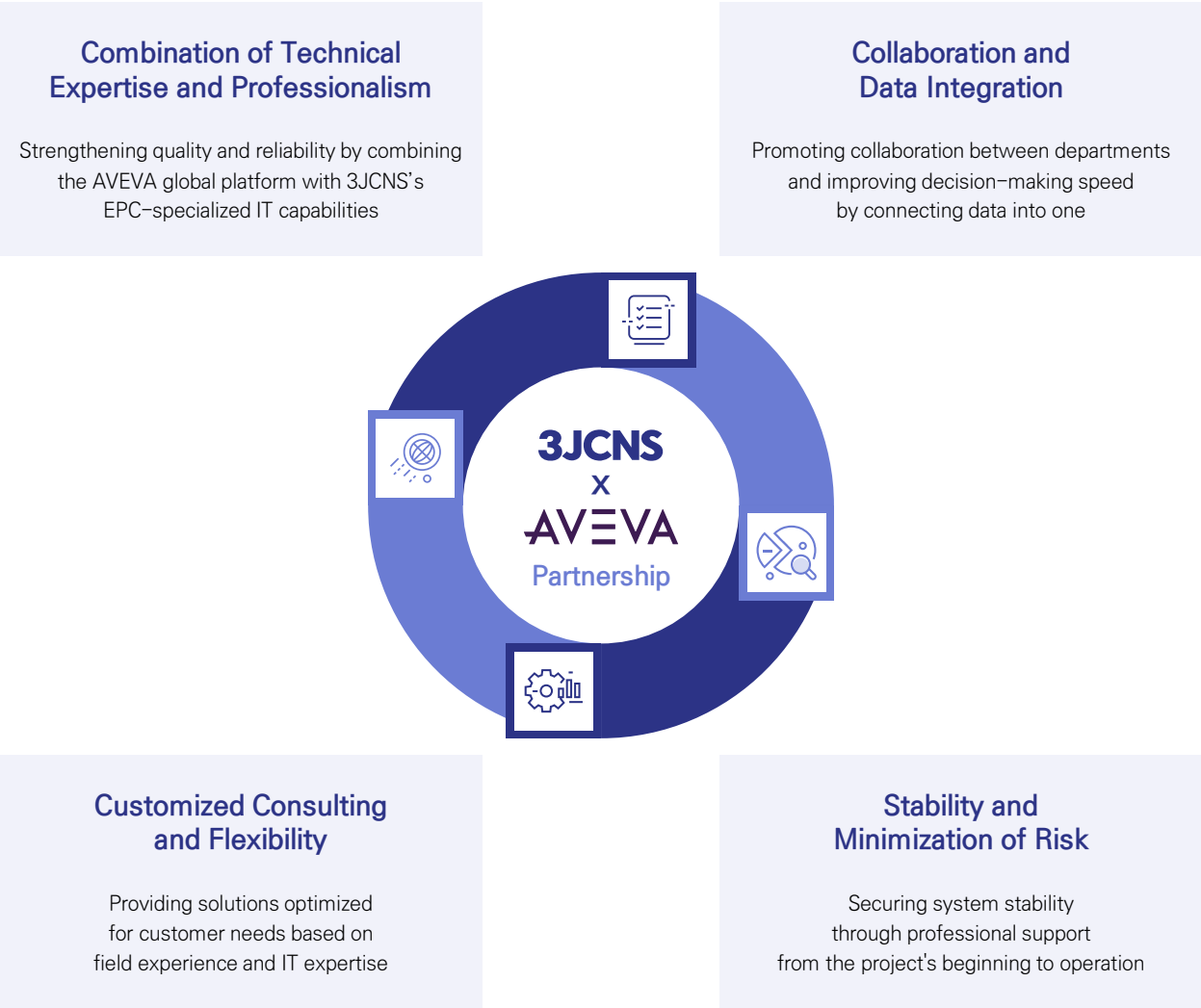
AVEVA Value Added Reseller — 3JCNS x AVEVAKOREA

Cooperation to accelerate EPC industry digital transformation

Integrated digital package for EPC projects

As an AVEVA Value Added Reseller, 3JCNS provides software supply and professional technical support optimized for industrial sites. Through a one-stop digital solution that combines AVEVA's global technical expertise with 3JCNS's EPC-specialized IT capabilities, we support the entire EPC process from initial project introduction to stable operation through our professional consulting service organization.

4 Major Values of Partnership



The entire EPC process into a single digital environment

Portfolio of 14 solutions in 3 categories

01 EPC Project Management

- ▶ AVEVA™ E3D Design
- ▶ AVEVA™ Unified Engineering
- ▶ AVEVA™ Hull and Outfitting
- ▶ AVEVA™ Asset Information Management (AIM)
- ▶ AVEVA™ Contract Risk Management (ProCon)
- ▶ AVEVA™ Enterprise Resource Management (ERM)
- ▶ AVEVA™ Point Cloud Manager (LFM)

WorkPacks for AWP and Completion Management



02 Simulation

- ▶ AVEVA™ PRO/II™ Simulation
- ▶ AVEVA™ Process Simulation
- ▶ AVEVA™ Dynamic Simulation
- ▶ AVEVA™ Unified Engineering
- ▶ Triconex 시스템용 AVEVA Simulation
- ▶ AVEVA™ Point Cloud Manager



03 Asset Lifecycle Management

- ▶ AVEVA™ Asset Information Management



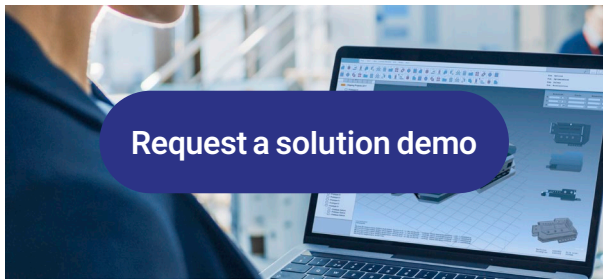
Closing Message

3JCNS an EPC IT specialist company that connects the flow.

From the first point of design to the last point of operation,
seamlessly in a single line.

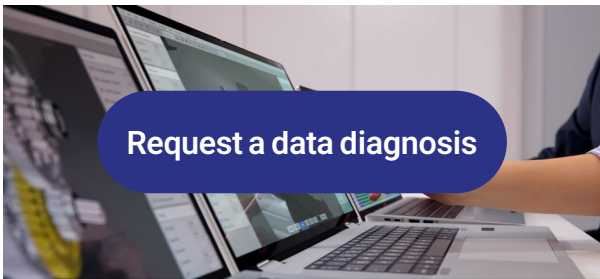
"Every stage of EPC eventually leads to data. 3JCNS does not rely on external parties for that flow, but connects it directly with its own solutions. On a single flow that goes through design, procurement, and construction, and is completed with a digital twin, the customer's project becomes faster and more accurate."

Next Step



Request a solution demo

You can check the core functions of J-Solutions directly at our headquarters or at an exhibition booth. We will demonstrate the process where drawings are automatically generated from 3D models and heterogeneous CAD is converted into physical objects on an actual screen. If you let us know the solution you are interested in in advance, we will prepare a scenario close to your company's work.



Request a data diagnosis

We will diagnose the 3D model·drawing·BOM data you possess, organize the points where automation and conversion can be applied, and the expected effects, and propose them to you. You can confirm based on data where the most time and money are leaking, and which solution should be introduced first. Diagnosis is possible with just sample data.



Inquire about introduction consulting

EPC professional consultants from our affiliate, 3JENG, will analyze your company's design·procurement·construction process and design a step-by-step introduction roadmap suitable for your current environment (AVEVA E3D·Hexagon S3D, etc.). From solution selection to application scope, priority, and expected effects, we will concretize it according to your company's situation.



Technical workshop

This is a technical workshop where participating practitioners directly handle the solutions and internalize their utilization capabilities after introduction. It is a hands-on course where you follow along with actual data beyond simple functional demonstrations, so you can quickly settle the introduction effects in the field.

CONTACT

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