BROCHURE

Octave OnSite Visualize Max

A powerful scalable solution for AWP

Octave OnSite Visualize Max (formerly iConstruct MAX) is a powerful scalable solution for Advanced Work Packaging. With agnostic capabilities, OnSite Visualize Max aligns engineering, procurement and construction to calculate the feasibility of installation work packages enabling effective creation. In addition, it has direct integration to business systems and providing a suitable solution for small to large global capital projects.

Get the benefits of AWP – today

Use Onsite Visualize Max as an Integrated Data Environment (IDE) AWP platform, independent of native engineering authoring tools and compatible with external data sources. Organizations can implement AWP immediately while retaining existing processes and tools. As a powerful bolt-on to Autodesk Navisworks®, OnSite Visualize Max integrates with current business systems without replacing existing infrastructure. Data can be linked from systems such as Octave Loop Core or Intergraph Smart® Materials or via Excel, ODBC or APIs and displayed in structured fields that enable Workface Planners to aggregate and schedule IWPs based on feasibility.

Key benefits of OnSite Visualize Max

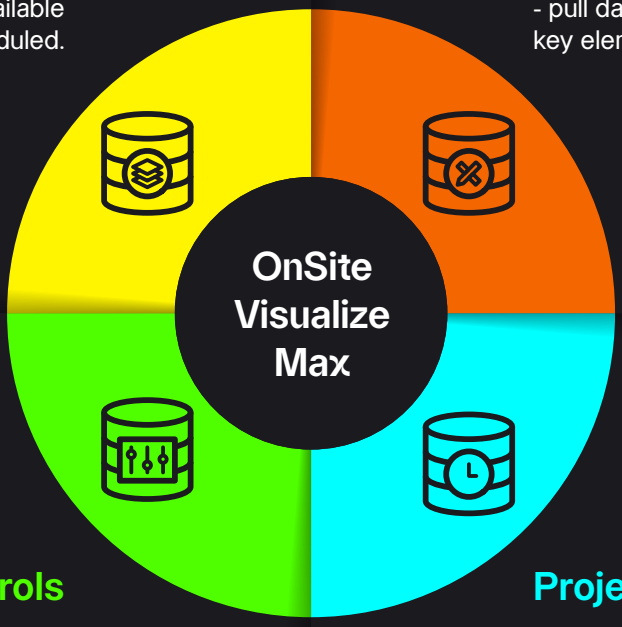
- Leverage Autodesk Navisworks: industry-leading agnostic platform
- Integrates with, rather than replaces existing fit-for-purpose business systems
- Automates recurring workflows with BIMflow
- Organizes model hierarchy and data to drastically improve navigability
- Quick installation for immediate authoring, checking and scheduling
- Seamless direct integration with Loop Core and Smart Materials

Materials

Call in Procurement data from Smart Materials/Loop Core, SAP or Oracle to ensure that materials are available before construction is scheduled.

Engineering

Document approval status is key to ensure a safe and effective installation - pull data into Control Panel so this key element is not missed.



Project Controls

Efficiency is a critical component of any project. Equip the Workface Planner for success with available hours.

Project Schedule

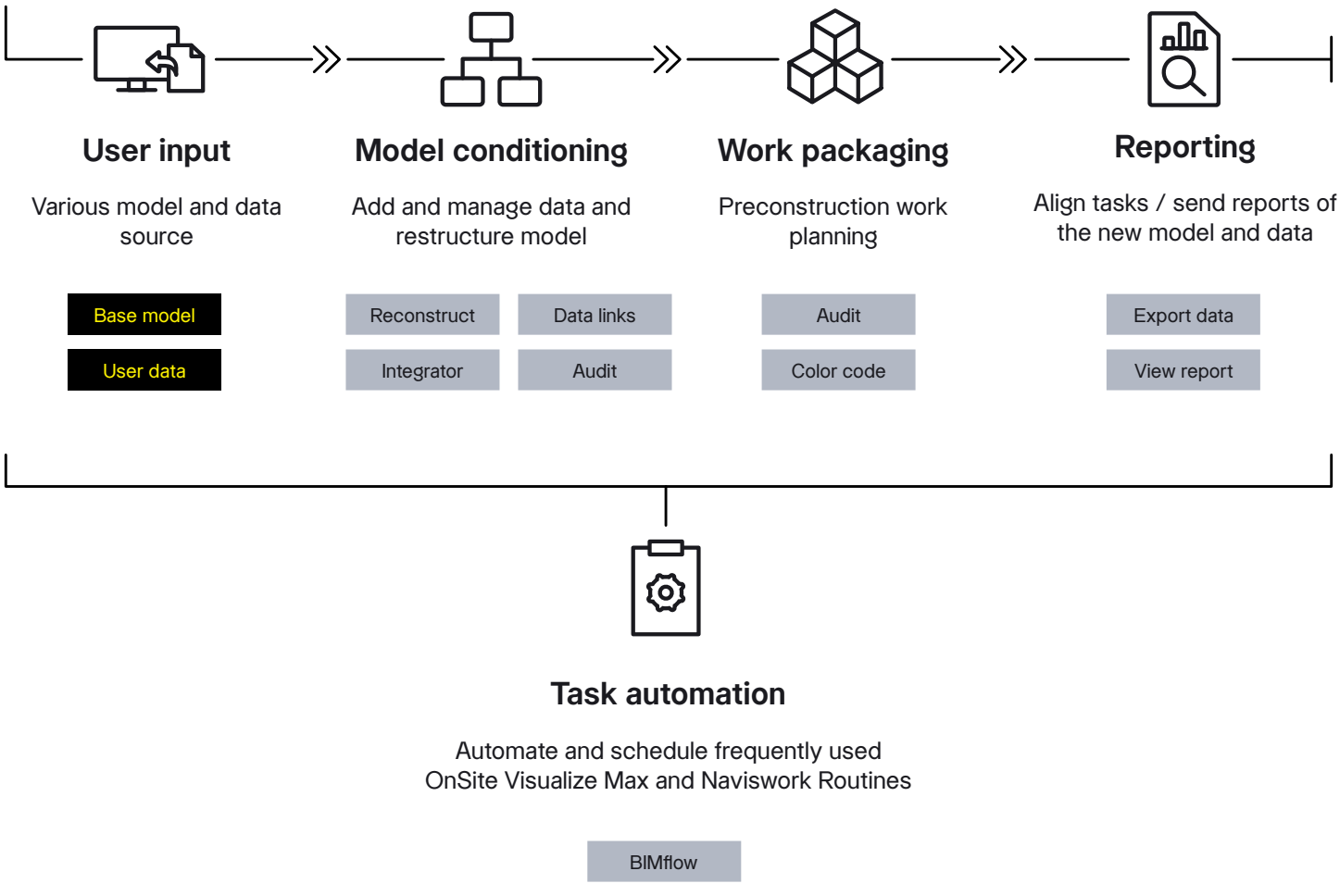
Feed in schedule data like P6 or other systems directly into Control Panel and push through to a Gantt chart to display the installation with other IWP components.

Total project alignment and maximized output

Advanced Work Packaging (AWP) has become the industry standard for running safe and efficient construction projects. Visualize all elements of a project through comprehensive data-rich 3D models with the availability of materials and resources. This allows prioritization and sequencing of installation based on actual constraints, which mitigates risk.

Being an active member of the Construction Industry Institute (CII), OnSite Visualize Max is designed to support CII data requirements.

With AWP, crews receive work packages that contain the information, tools, materials and access they need to execute projects efficiently. This reduces downtime, increases tool time, and cuts project cost. Executed properly, AWP can lead to a return on investment up to 25% increase in field productivity and 10% decreases in total installed cost (TIC).



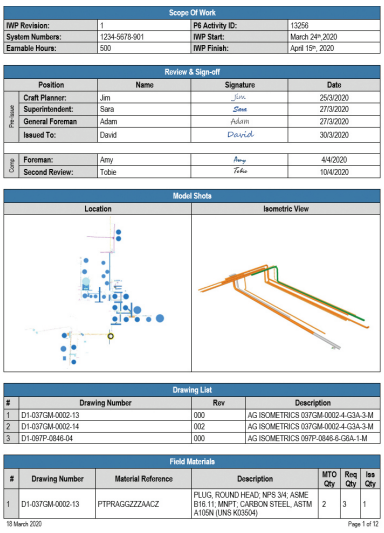
OnSite Visualize Max makes it simpler

1. Better model and data hierarchies

Restructure raw engineering models into an AWP-compliant model. ReConstruct reorganizes and groups a model's hierarchy to align to a project's different stages. It also improves file portability by exporting a cropped model based on section planes, properties, disciplines or area.

2. Automate recurring tasks

BIMflow is a powerful feature in OnSite Visualize Max that automates and schedules frequently used workflows. It maximizes productivity for all engineering projects and streamlines processes by effectively incorporating model updates while eliminating repetitive work.



Scope Of Work

IWP Revision:	1	P6 Activity ID:	13256
System Numbers:	1234-5678-901	IWP Start:	March 24th,2020
Earnable Hours:	500	IWP Finish:	April 15th, 2020

Review & Sign-off

	Position	Name	Signature	Date
Pre-Issue	Craft Planner:	Jim	Jim	25/3/2020
	Superintendent:	Sara	Sara	27/3/2020
	General Foreman	Adam	Adam	27/3/2020
	Issued To:	David	David	30/3/2020
Comp	Foreman:	Amy	Amy	4/4/2020
	Second Review:	Tobie	Tobie	10/4/2020

Model Shots

Location	Isometric View

Drawing List

#	Drawing Number	Rev	Description
1	D1-037GM-0002-13	000	AG ISOMETRICS 037GM-0002-4-G3A-3-M
2	D1-037GM-0002-14	002	AG ISOMETRICS 037GM-0002-4-G3A-3-M
3	D1-067P-0846-04	000	AG ISOMETRICS 067P-0846-6-G6A-1-M

Field Materials

#	Drawing Number	Material Reference	Description	MTO Qty	Req Qty	Iss Qty
1	D1-037GM-0002-13	PTPRAGGZZZAACZ	PLUG, ROUND HEAD; NPS 3/4; ASME B16.11; MNPT; CARBON STEEL, ASTM A105N (UNS K03504)	2	3	1

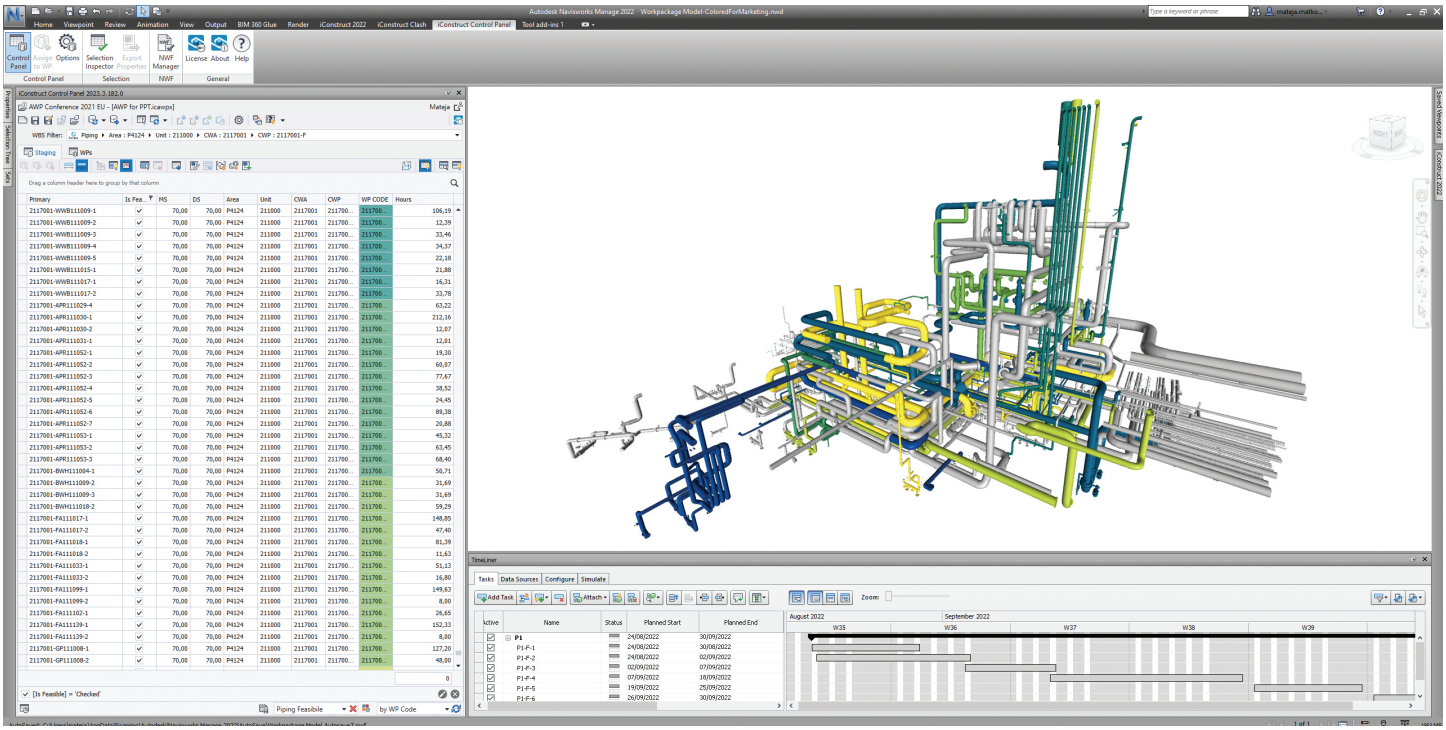
18 March 2020 Page 1 of 12

3. Control Panel

Control Panel tool is purpose-built to support CII-defined Advanced Work Packaging and Workface Planning from the field. It creates and tracks any type of package, aggregates data from all departments supporting the AWP process, and manages constraints, all in a single source. It uses iConstruct's fully automated constraint management, with the option to add constraints manually as needed. The solution generates Gantt charts for scheduled IWP activities and publishes them directly to Navisworks Timeliner, while also enabling quality assurance checks to validate model element classification.

4. Collaboration

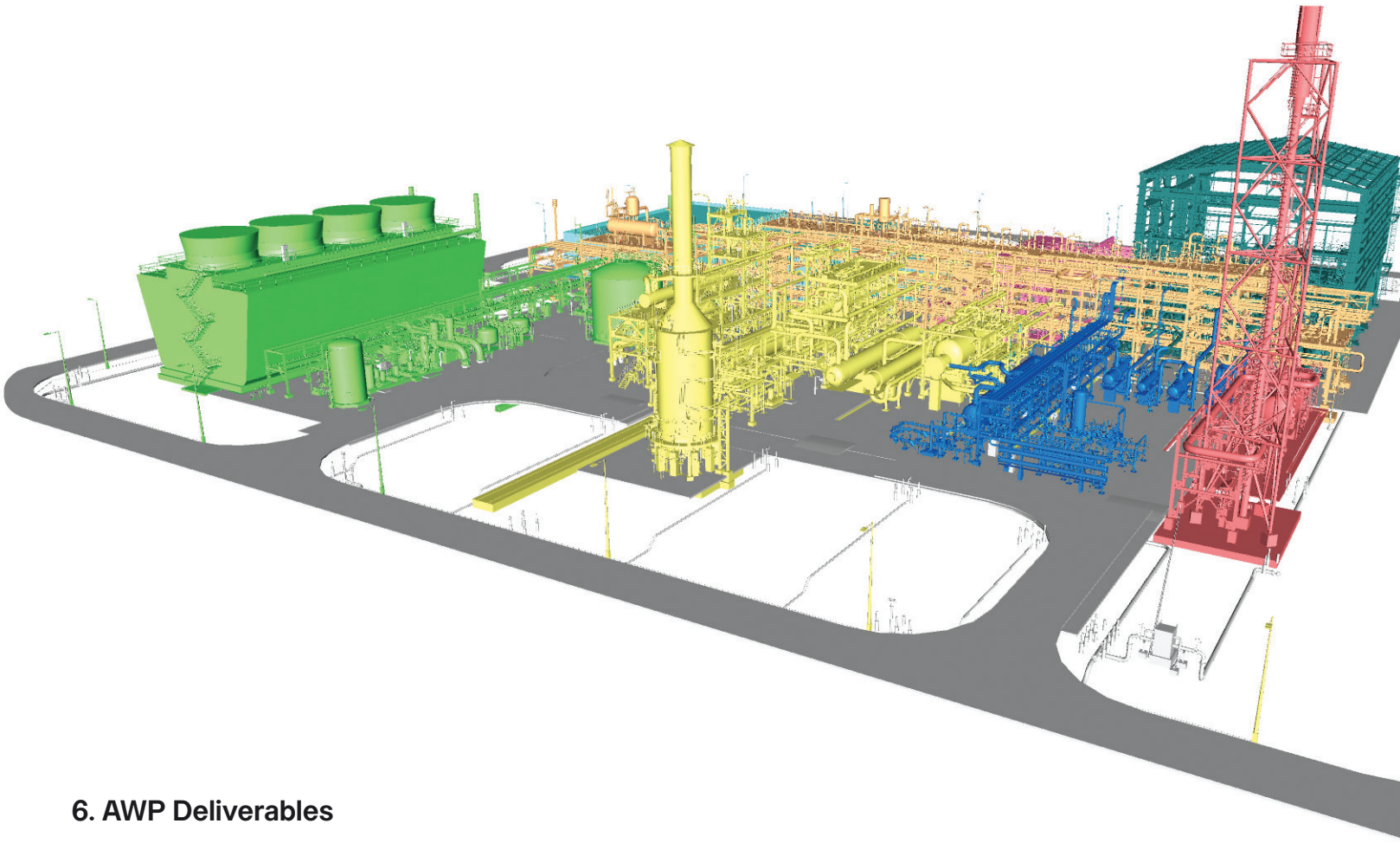
OnSite Visualize Max allows multiple planners to work on a project simultaneously and synchronize their work to a central SQL Database.



5. Octave

OnSite Visualize Max complements various applications in the Octave ecosystem. Control Panel can directly link data from Smart Materials or Loop Core and ease integration with other Octave's solutions like Octave InConcert (formerly HxGN SDx), Octave OnSite Completions (formerly Intergraph Smart Completions) and others brings OnSite Visualize Max to another level.

> *"We selected OnSite Visualize Max to help us with package planning, because our focus here at APTIM is on the end user. We know what they need to do and what the AWP requirements are, but we want to make it easy and straight forward for them to make that happen and OnSite Visualize Max was definitely tools for that."*
>
> **Kim Arrant,** Digital Delivery Vice President of Business Transformation, Aptim



6. AWP Deliverables

AWP facilitates the breakdown of a large scope of work into smaller and smaller work packages.
This gives crews the information they need to work effectively and efficiently, boosting project performance.

By using advanced report designer functionality, you can create your custom view reports to suit any project stakeholder requirement, everything from executive dashboard reports, to detailed IWPs with included ISOs, other model properties and visual location markers.

"OnSite Visualize Max has truly transformed our workflow as an EPC contractor. Its intuitive interface and unique approach have made a significant difference in managing engineering deliverables and material availability. With OnSite Visualize Max, our staff no longer needs to spend endless hours updating reports and information, allowing them to focus on coordinating construction activities on site. The platform's flexibility and exceptional customer care support have exceeded our expectations, making it the perfect solution that adapts to our specific needs right from the start."

Antonio Schiavone, Head of Department - Construction Home Office, Tecnimont

About Octave

Octave is a leader in enterprise software, turning data into decisive action and intelligence into your edge. Our software solves for and simplifies complexity, from the design and build to operations and protection of people, property and assets – for any scope, at any scale. For decades, we've partnered with customers to sharpen performance, elevate efficiency, and amplify results. From factory floors to entire cities, our solutions are tuned to scale up what's possible from day one onward.

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