



OPERATE YOUR ASSET WITH AIZE

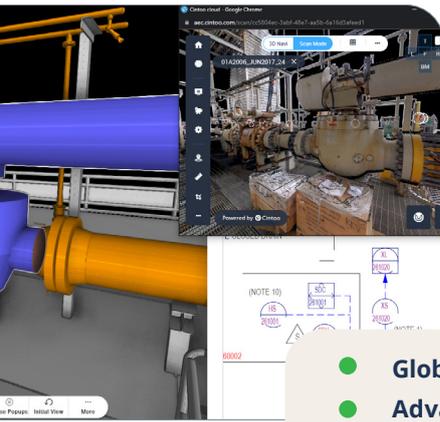
Entire heavy assets at your fingertips

Running operating facilities requires complete control of performance, maintenance, integrity and safety. This generates extensive amounts of data, requiring operators to have an overview of both real-time information and all historical and planned work. Information scattered across various applications often forces domain experts to manoeuvre between siloed datasets to find the relevant information. Aize solves this by bringing them together into a single shared workspace with all the operational and supporting engineering data readily available.

Visualise

The digital transformation journey in Aize starts with a highly accurate digital 3D model of your asset in the real world. Equipment, systems and areas can be isolated to help you focus on what is relevant to your expertise. Clipping layer by layer, you can explore models in any direction to uncover the most intricate details and hidden bottlenecks in the 3D environment. Traditional documents like P&IDs can be merged in 3D, enabling you to switch between the two dimensions to help you understand the context better.

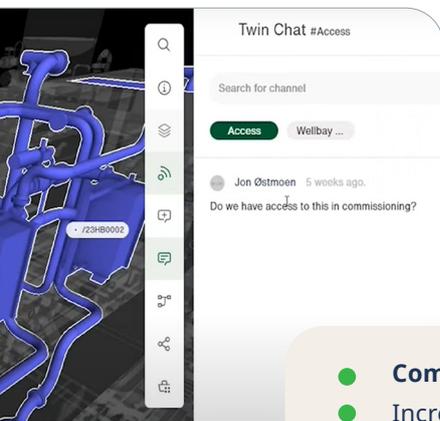
- **Intelligent isolation** - ghosting, clipping plane, clipping box
- **Integrate third-party imaging systems** to view 360° images, laser scans, photogrammetry or point cloud
- **Visual maintenance planning** - understand and plan the maintenance sequence
- **Collections** - group objects with pre-defined traits and highlight them in 3D
- **Time series data** - connect, embed and analyse real-time asset health using data visualisations of large sets of time series data



Navigate

A shared workspace leads to a single source of truth and enables navigation through all ingested data for further processing and analysis. Barriers between datasets are therefore removed and unlock a holistic approach to data retrieval. Users can then navigate through multiple entry points based on the different perspectives of the information model. The ease of finding information helps you make sense of an ever-increasing volume and complexity of data.

- **Global search** - yielding search results from both your model as well as third-party datasets
- **Advanced filtering** - display search results relevant to your domain expertise
- **Analyse and query a variety of key maintenance and reliability performance indicators** - backlog, prioritisation, deferment, failure history or planned vs actual achievement
- **P&IDs with clickable hot-spots** - navigate between 2D and 3D seamlessly
- **Smart documents with quick links** - interconnect your information model



Collaborate

Gain a better collective understanding of where you are - both in place and time. With Aize, maintenance or integrity engineers don't need to send emails with attachments or hold unnecessary meetings to see what's going on. Collaboration is as easy as starting a chat thread, sharing a link to a particular object, and inviting planners, technicians or inspection coordinators to discuss it together in real-time. Having everything in context will help them make more accurate decisions faster.

- **Communicate internally and externally** directly in Aize
- Increase and maintain **data accuracy** by keeping conversation history in one place
- **Discuss and compare** 2D drawings, 3D models, P&IDs and other documents side by side



Integrate

No matter how old your brownfield data may be. Aize integrates your existing enterprise applications and any number of relevant third-party solutions to find every piece of valuable data. Structuring and contextualising this data then enables you to have a single source of truth for your asset while continuing to make the most of the tools you have already invested in. Aize is not a replacement for your existing systems but a workspace that connects the dots.

- **Integrate** your source systems
- **Structure and contextualise** data through a common data model
- Access **third-party specialist tools**
- **Keep your existing tools** - let them coexist and use Aize as the starting entry point
- **Full control of your data** - user authentication can be handled by your existing identity providers, such as Microsoft Azure, Google Workspace, and more
- **Streamlined data onboarding** shortens time to value

Diving deeper

Towards predictive maintenance

Aize embeds machine learning to help you make a structured move towards Predictive Maintenance (PdM) models. This ensures optimal working condition, increases asset lifecycle and avoids costly reactive maintenance activities. Condition-monitoring methods keep track of the equipment's performance during operation to detect possible defects. Early detection allows maintenance technicians to inspect flagged parts and repair them before more complex, dangerous and expensive maintenance activities are needed.

Connectivity and integration with third-party apps

Scale, integrate and connect your existing enterprise applications and any number of third-party offerings with Aize. We realise that you need the agility and flexibility to make the most out of your existing investments.

Examples of connectivity and integration are:

- Computerised Maintenance Management System (CMMS)
- Scoping & scheduling systems (ie. SAP, Maximo)
- Work orders, failures, performance history
- Engineering TAG register
- Time series data
- Document Management System (DMS)
- P&IDs, isometrics, technical documentation
- Media library
- Visualisation tools - 3D, photogrammetry, laser scans, point cloud
- Third-party analytical tools

Handle Simultaneous Operations (SIMOPS)

Carefully plan parallel activities in a live production plant such as expansion, troubleshooting, revamping obsolete equipment or upgrading technology. Stoppage of operations or turnarounds involve very high commercial stakes; that's why Aize helps you prevent, minimise and contain the associated risks.

Barrier management and cumulative risks

Establish and maintain barriers so you can handle risks involved in the operation of facilities by

preventing incidents or limiting their consequences. Aize implements barrier management and its follow-ups across processes, systems, solutions and measures to ensure the necessary risk reduction.

Prepare for lifting operations

Installation, removal and decommissioning of facilities involve technical and environmental challenges. Aize supports lifting operations to verify compliance with international standards and guarantee a tolerable risk level with a digital planner.

TAR management

Manage your facility or plant shutdown, turnaround or outage effectively with a web-based, centralised digital system which reinforces communication between maintenance, operations and safety teams. Aize is capable of scope and change management, work preparation, work scheduling, permitting, and similar event management processes to ensure safer, more efficient maintenance events.

Integrity management

Better data means better analysis, better analysis means more opportunity for optimisation and efficiency gains. Aize embeds improved functionality throughout its workspace to drive down the volume of unnecessary data, the requirements to move between applications and in turn the effort required at each stage of the integrity lifecycle.

Temporary equipment and lay-down management

Equipment that is not a permanent part of your facility can range from small items such as portable welding sets to large skid mounted packages such as temporary generators or proprietary well testing equipment. These objects present potentially unexpected hazards during their installation, use and removal. Aize helps you identify and assess these risks by visualising the consequences of laying down temporary management in the context of your digital twin.

Do you have any questions?

Reach out anytime to learn more about Aize.

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