



AVEVAWORLD

ACCELERATE INDUSTRIAL INTELLIGENCE

Grid & Canvas Best Practices

Design Experiences that Stick

Presented by: Manuel Meijueiro

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CONNECT



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Accelerating industrial intelligence with CONNECT



Connectivity

Data collection tools and capabilities that transfer and sync data securely from on-premises and cloud sources.



Data management & visualization

Built-in functionality for storing, organizing, enriching, and displaying contextualized data through role-based visuals.



Collaboration

Sharing capabilities that facilitate cooperation and trusted data between both internal and external teams, securely.



AI & analytics

Assistants, agents, ML and data processing tools that expedite and amplify the analysis of data and insights.

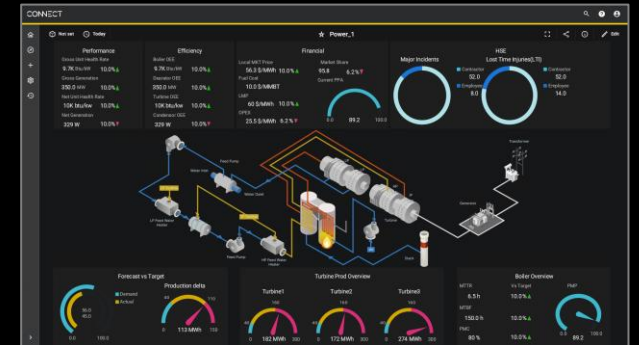
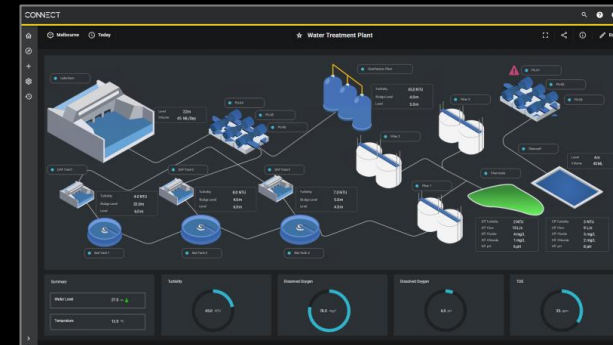


Applications

Native applications, hybrid integrations and partner applications that leverage CONNECT's capabilities.

Craft role-based visualizations

Customize how you view and interact with your data

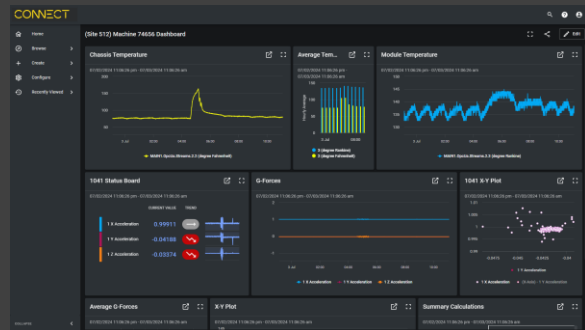


5 visualizations you can build with CONNECT

- Visualize insights between data sources and across data types quickly and easily
- From operators to executives, provide visualizations built for their specific needs and responsibilities

- Leverage designers and a library of configurable graphics and content
- Use Grid, Canvas, and Experiences to structure and style interactive information
- Apply asset and time context to quickly switch between viewpoints

Dashboard visualizations



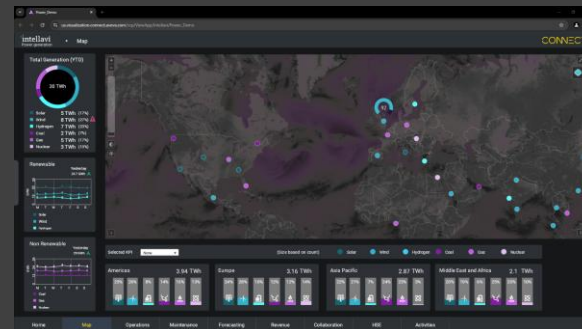
Role-based visualizations



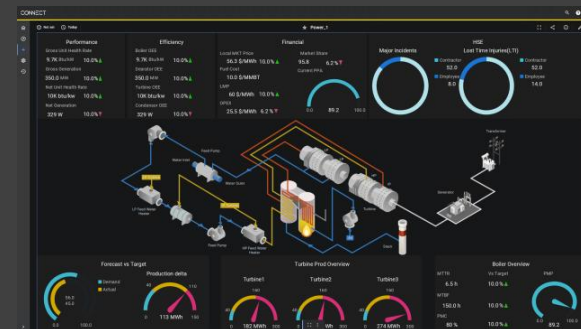
Asset-based visualizations



Enterprise visualizations

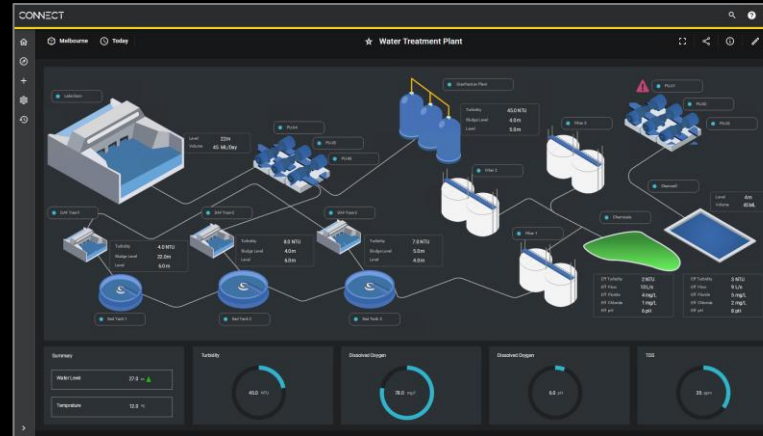
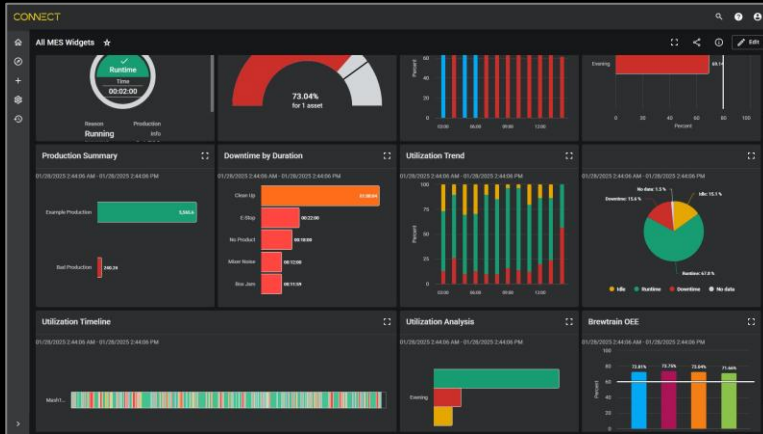


Process-based visualizations



Type of Visualizations

Choose from 3 distinct display formats: Grid, Canvas and Experience



Grid style dashboard

- ✓ Responsive, snap-to dashboard, adjusting the size and placement of static content to device display
- ✓ Point, click, and configure. No coding required
- ✓ Choose from a rich library of graphics & widgets
- ✓ Embed canvas style dashboards from the content selector

Canvas style dashboard

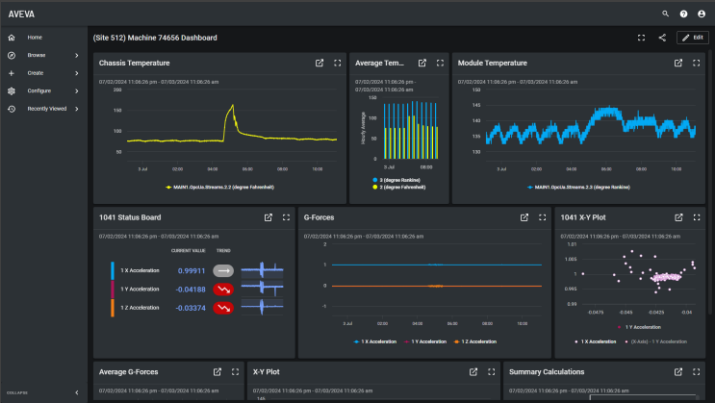
- ✓ Freeform sketch board that allows for overlapping and layered
- ✓ Choose from a rich library of graphics & widgets
- ✓ Base set of productivity tools, to add text (embedded URL), align and duplicate content, with more to come
- ✓ Import images content

Experiences

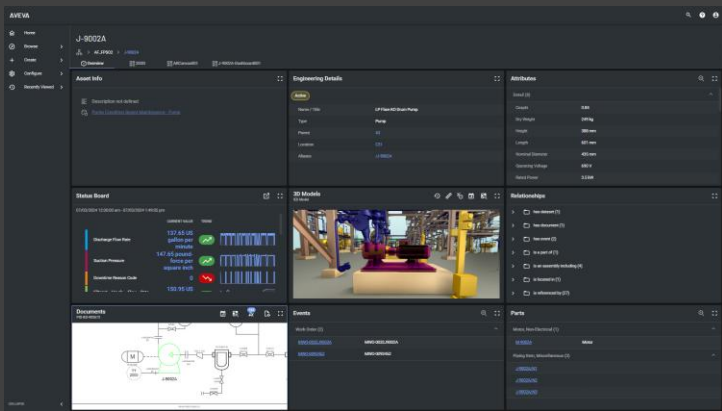
- ✓ Rich, interactive, application style visualization, with customizable navigation options
- ✓ Dynamically driven content, advanced functions and deep customization
- ✓ Increase visibility for a 360-degree, holistic view of operations, process, engineering data and more.

Type of Content

Time-series data visualization



Models, documents, map, and other data visualization



Event and asset efficiency data visualization



Graphics Configurable & Custom

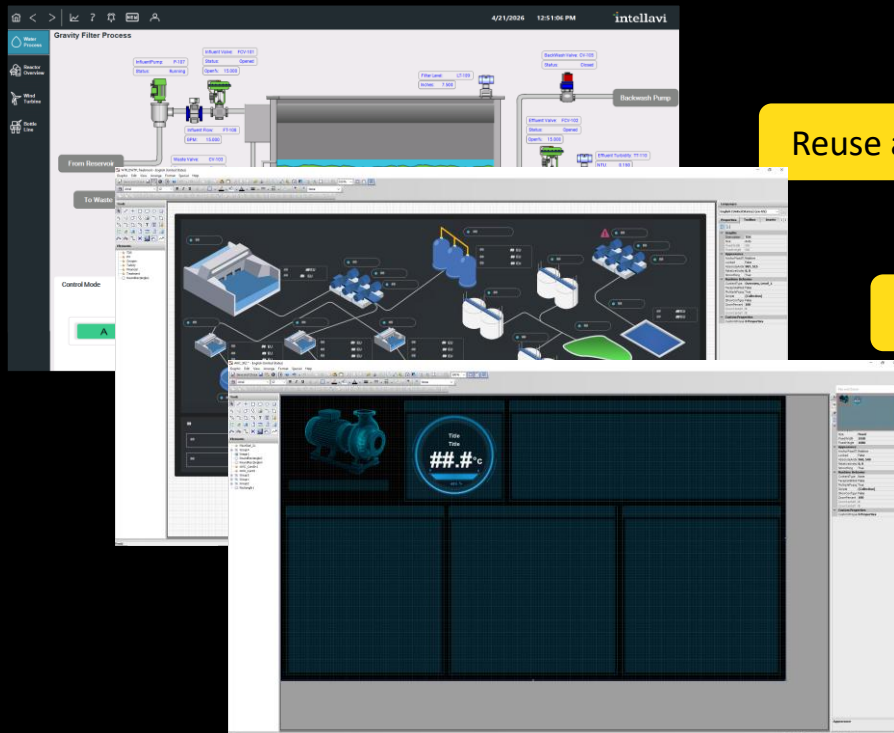


System Platform graphics in CONNECT

Add custom graphics to canvas visualizations

Place industrial graphics created in AVEVA System Platform using the IDE Industrial Graphic Editor onto a canvas visualization. You can now create custom, dynamic, and responsive graphics for use in CONNECT. For details, see [Add a graphic from a file to a canvas visualization](#).

Hybrid integration - AVEVA System Platform



Reuse and adapt existing graphics

Build new high-fidelity graphics for enterprise use cases

Enhance with CONNECT visualization content

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Demo – Reuse and adapt existing System Platform graphics

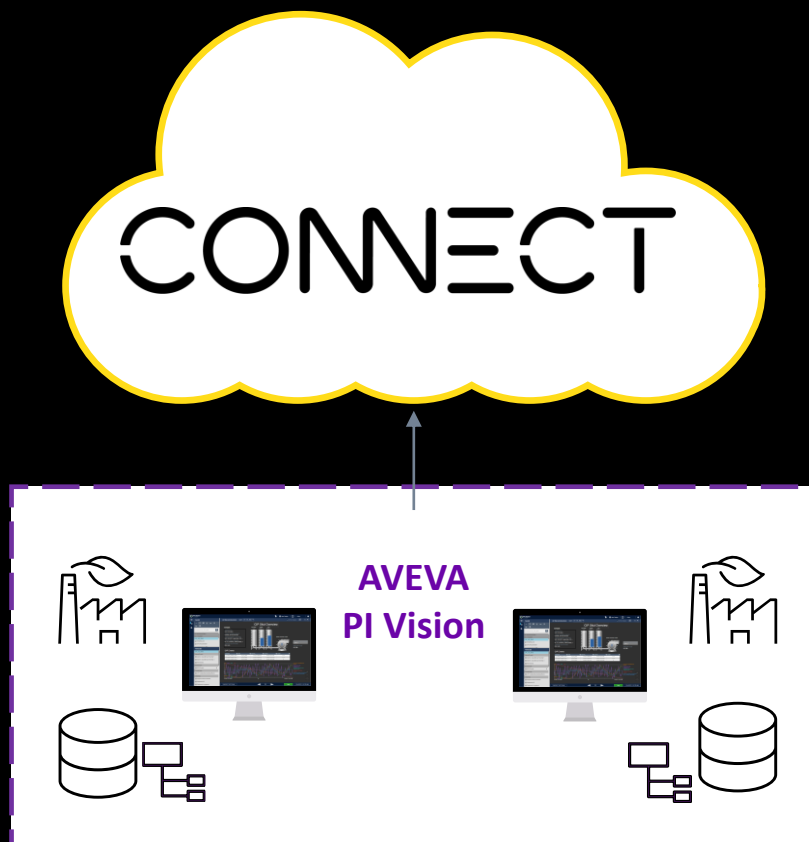


Add custom graphics to canvas visualization

Reuse and adapt existing System Platform graphics

PI Vision displays in CONNECT

View your operational displays alongside additional CONNECT data + visualization



Features:

- Seamlessly publish and link PI Vision displays directly to CONNECT
- Utilize a dedicated UI within CONNECT to search, select, evaluate, and publish displays at scale
- Automatically remap PI tag and AF attribute references to their corresponding CONNECT streams and entities
- Automatically synchronize display to CONNECT when modifications are made to on-premises PI Vision

Benefits:

- Eliminate information silos by making PI Vision displays accessible alongside other enterprise and third-party data in a unified cloud context.
- Accelerate time-to-value by eliminating the need to manually rebuild complex displays and dashboards in CONNECT, saving significant engineering hours

Grid & Canvas : Self-Service vs Building for Others

Grid and Canvas are self-service tools. Creating content for others requires a Builder mindset.



Creating for yourself

- Fast, flexible, and exploratory
- Optimized for personal workflows
- Assumes domain knowledge
- Changes can be made anytime, with no external dependency

Creating for others

Goals:

- Empower teams with actionable insights
- Reduce complexity for non-technical users

Key Responsibilities:

- Design and build visual content for others.
- Ensure usability and scalability for multiple users

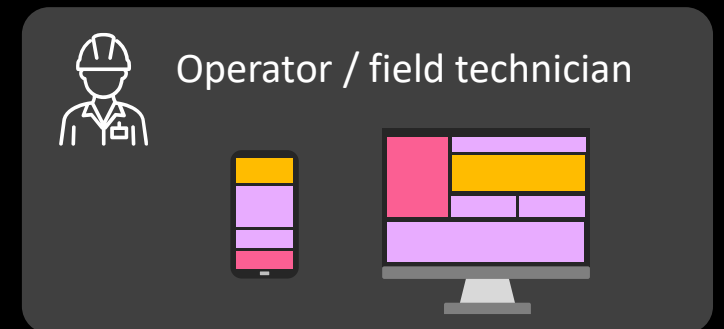
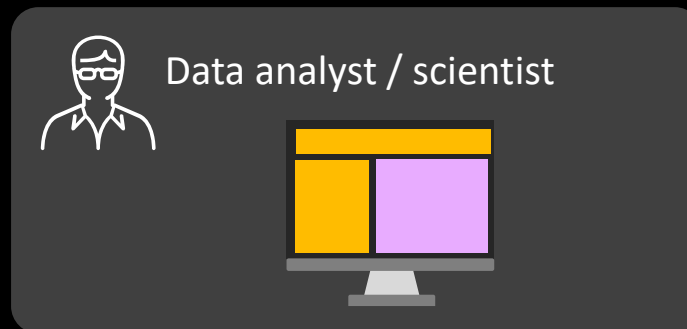
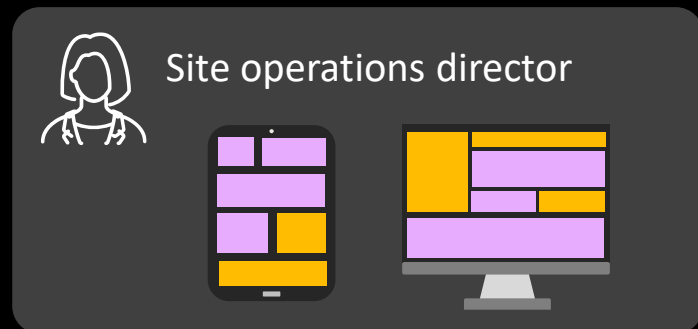
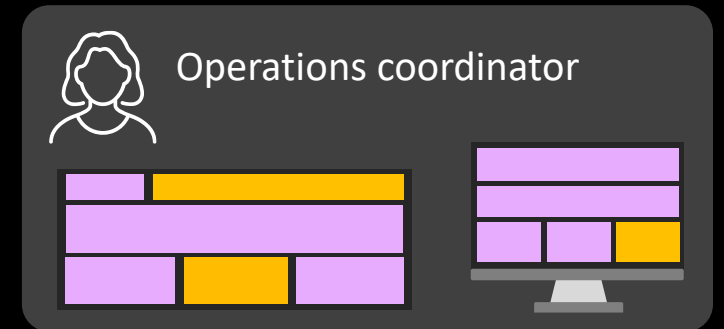
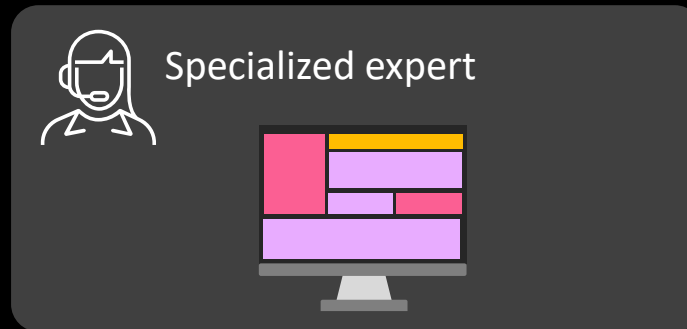
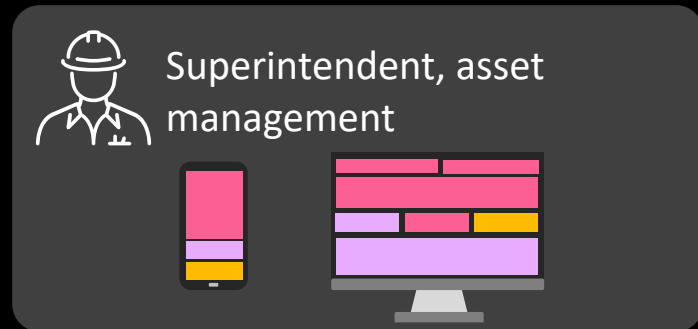
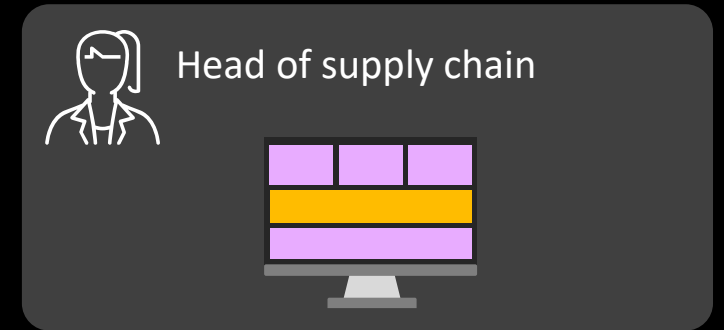
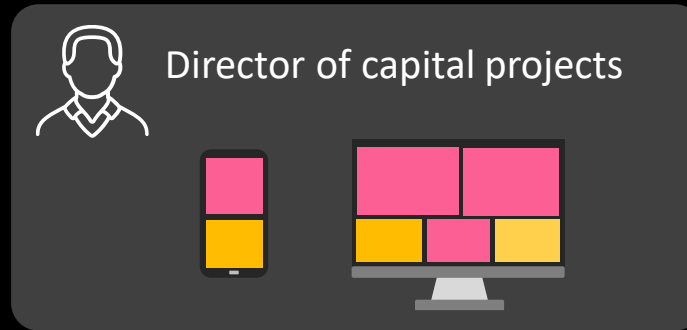
Requirements:

- What problem are we solving?
- How does it affect the user?
- Is the delivery mechanism browser, mobile, or all of these?
- Additional requirements as needed

Skills:

- Strong understanding of data models and visualization UI/UX tools
- Dashboard & UX design mindset
- Ability to translate business needs into intuitive designs

Craft specific role-based visualizations for every user



Demo - Responsive grid Vs Freeform board canvas



Responsive Grid Visualization

Content automatically adjusts to screen size and orientation.

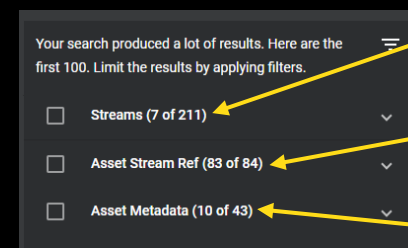
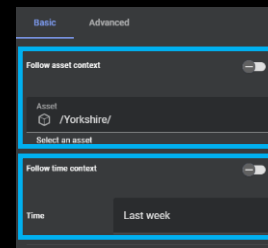
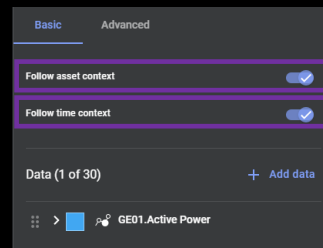
Asset & Time Context in Grid & Canvas

Central context

Individual context

Time and Asset context can be centralized or set individually per content item.

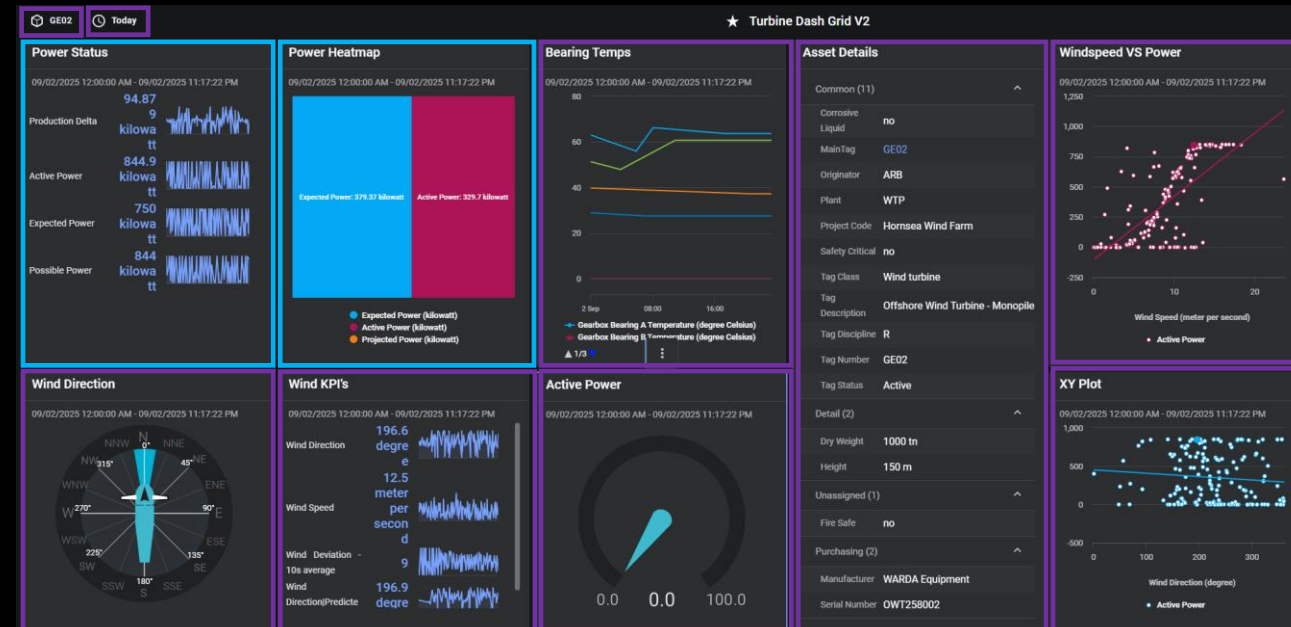
- Content can follow either a **central** or **individual** Asset & Time context
- A **default central Asset & Time context** is defined in the Create Visualization dialog. These settings can be changed in Edit mode using the Asset Context and Time Context controls
- By default, each content item follows the central Asset & Time context, if applicable
- Individual content items can be configured to point to different assets or datapoints
- Viewers can change the central Asset & Time context



Follow asset context : NO
Follow time context : YES

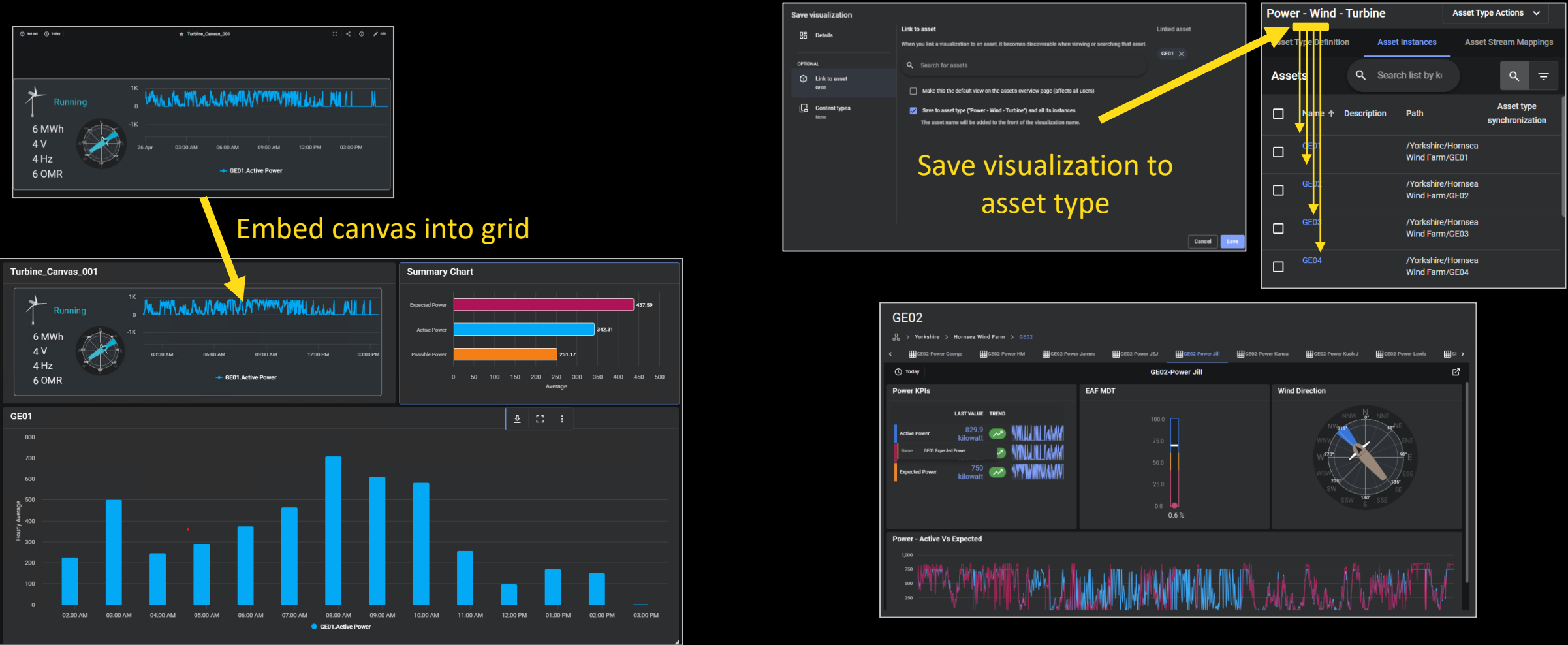
Follow asset context : YES
Follow time context : YES

Follow asset context : YES
Follow time context : N/A



Visualization Reusability

Reuse visualizations through canvas embedding and asset-type inheritance



Backgrounds and images can make all the difference

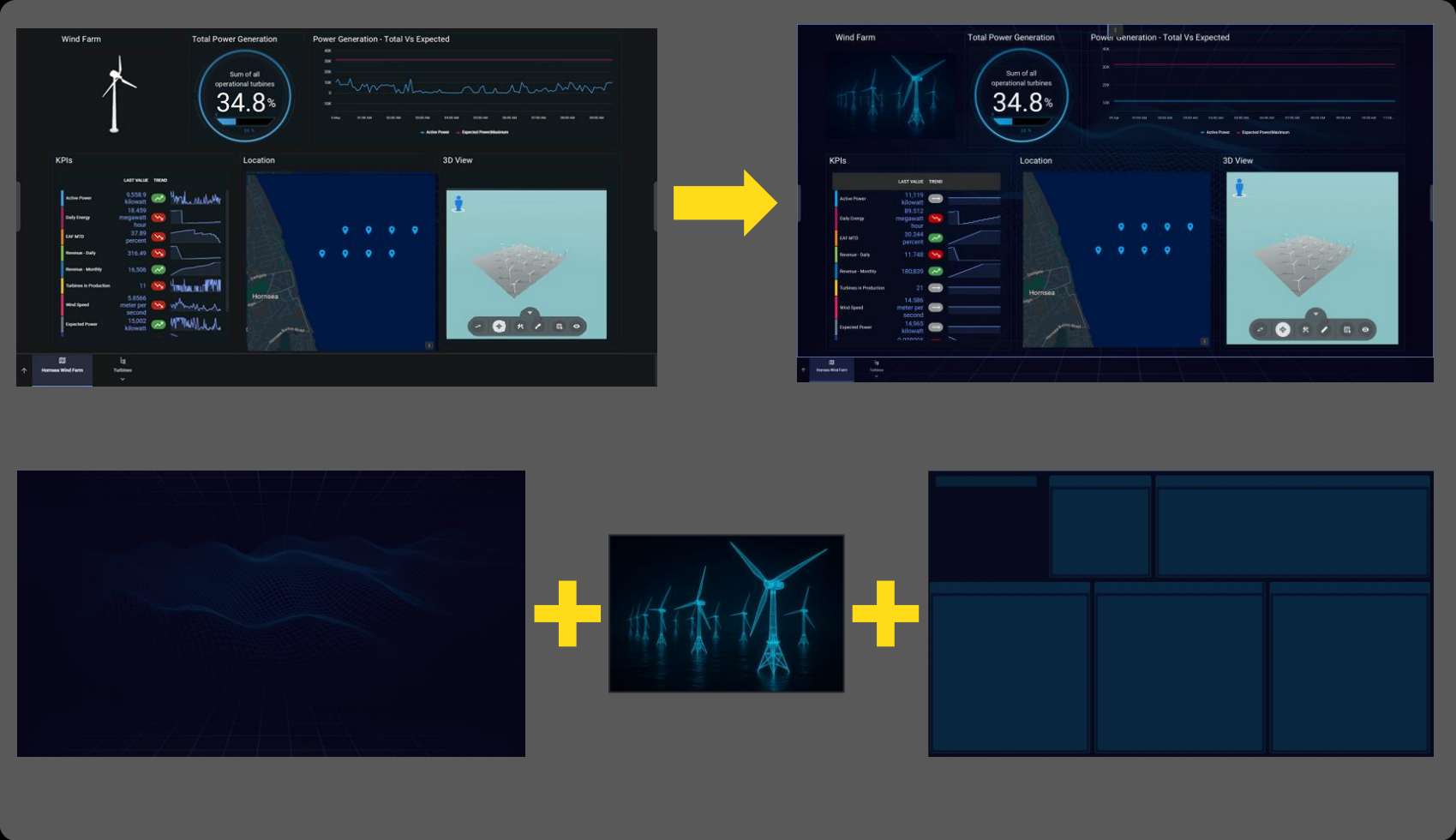


Image examples generated using AI tools

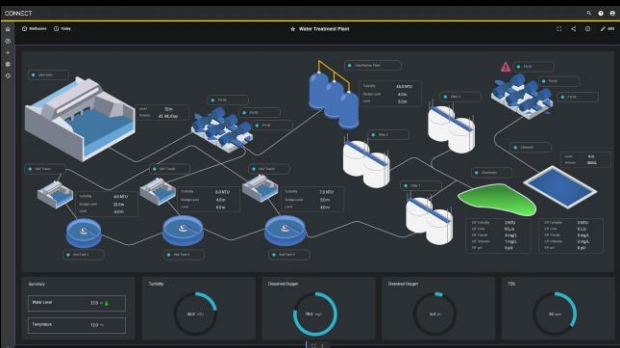
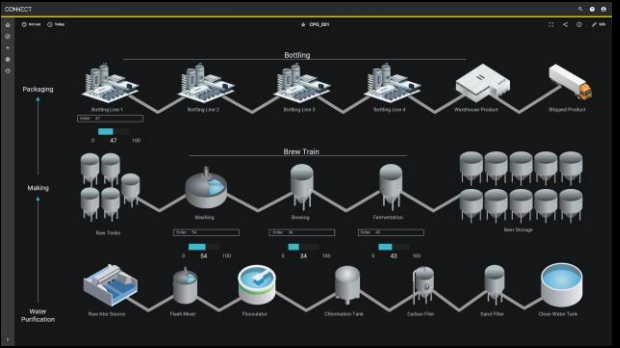
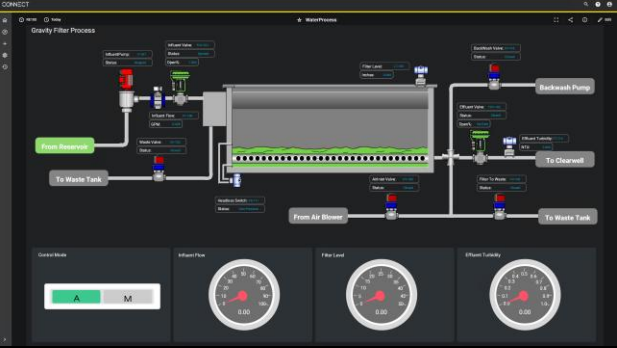


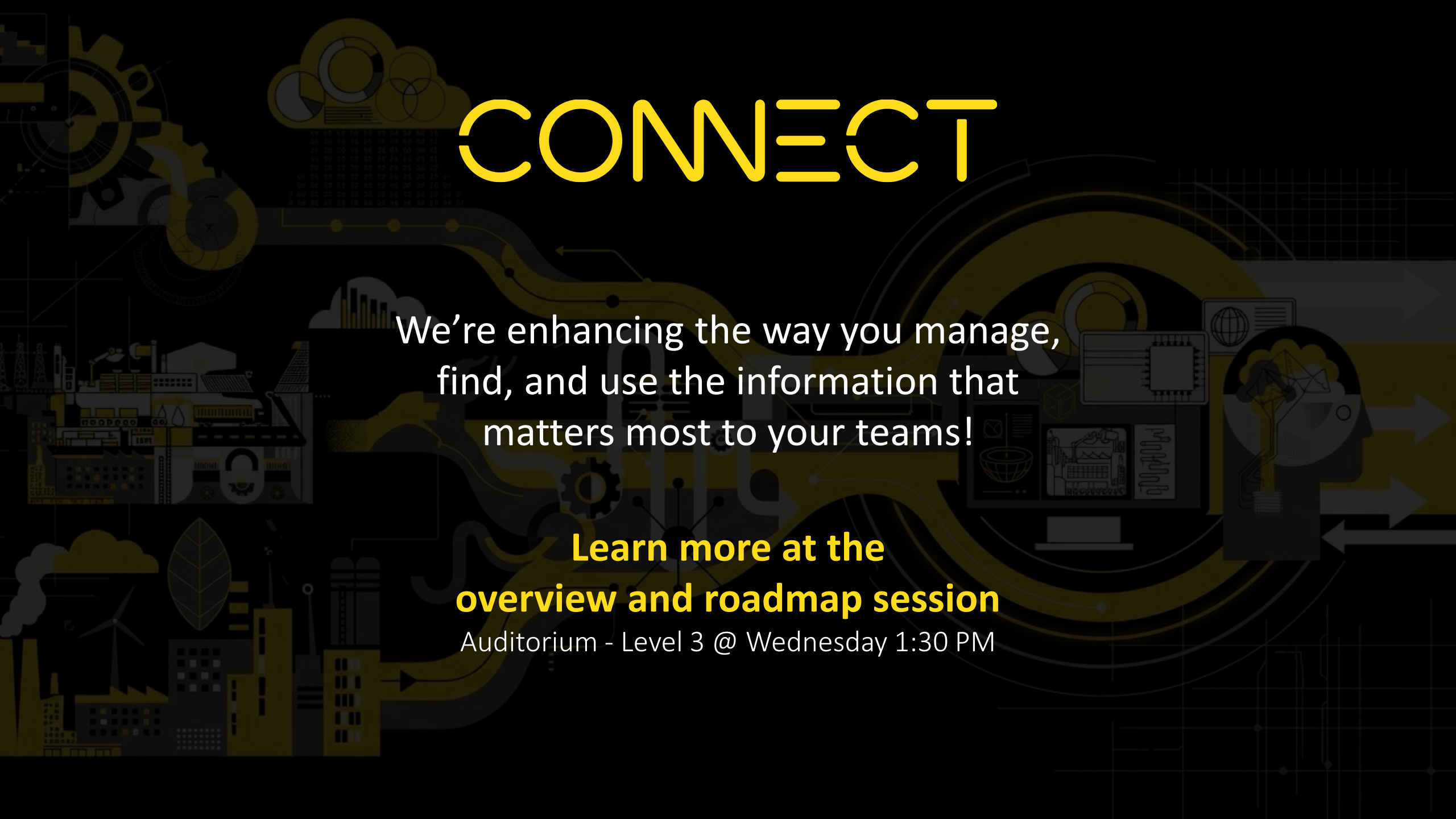
Demo: Creating a Water Pump Canvas (16:9)



Demo

Creating a Water Pump Canvas (16:9)





CONNECT

We're enhancing the way you manage,
find, and use the information that
matters most to your teams!

**Learn more at the
overview and roadmap session**

Auditorium - Level 3 @ Wednesday 1:30 PM



Innovation Zone

Accelerate your industrial intelligence

- ▶ Visit the CONNECT area
 - *Featuring demos and product experts*
 - *Try CONNECT yourself!*
- ▶ Attend the CONNECT Lounge
 - *20-minute technical presentations*
 - *Product managers & development staff*



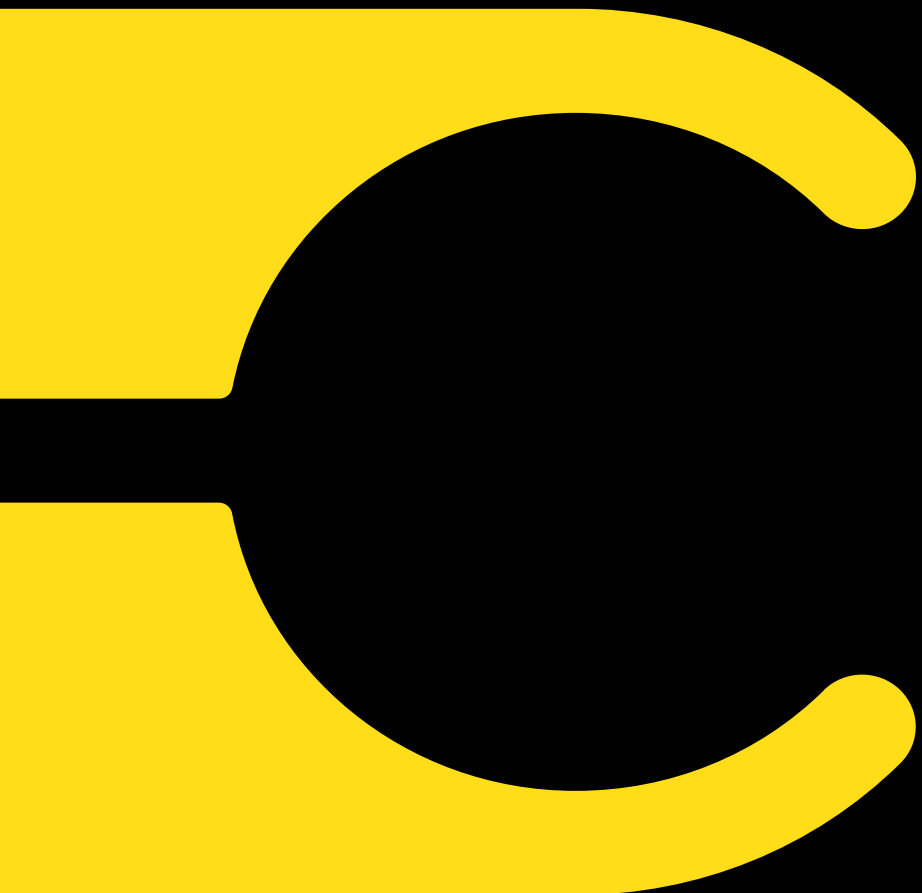
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Upcoming CONNECT sessions

- **Methanex:** Manufacturing AI Agent - From Data Access to Data Delivery
Tomorrow, 4:15p - 4:45p , Amber 3
- **Power and Water Corporation:** A Move to PI Data Infrastructure – Exploring PI in the Sky
Tomorrow, 4:15p – 4:45p, Amber 4
- **Calcamite, 4Sight OT:** Building a Sustainable Water Future for Developing Nations
Tomorrow, 5:00p – 5:30p, Amber 1
- **Agnico Eagle:** From Analytics to Enterprise Intelligence: How Agnico Eagle Scaled CONNECT Across Mining Operations
Thursday, 10:30a – 11:00a, Amber 4
- **Architecting Digital Twins on CONNECT: AI-Assisted Twin Building at Scale**
Tomorrow, 3:30p – 4:00p, Amber 2
- **Delivering Intelligent Data Integrations, Edge DataOps and Edge AI with Flows on CONNECT**
Tomorrow, 4:15p – 4:45p, Amber 2
- **Visualizing Data with CONNECT: Industrial Awareness at Scale**
Tomorrow, 5:00p – 5:30p, Amber 2
- **From Data to Decisions: Advanced Industrial Analytics and Machine Learning with CONNECT**
Thursday, 09:45 – 10:15, Brown 2
- **AVEVA AI: Empowering Decisions for the Next Industrial Era**
Thursday, 10:30 – 11:00, Brown 2
- **Plugging In: Integrating CONNECT with the Enterprise Data Stack**
Thursday, 11:15 – 11:45, Brown 2

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ABOUT AVEVA

AVEVA is a world leader in industrial software, providing engineering and operational solutions across multiple industries, including oil and gas, chemical, pharmaceutical, power and utilities, marine, renewables, and food and beverage. Our agnostic and open architecture helps organizations design, build, operate, maintain and optimize the complete lifecycle of complex industrial assets, from production plants and offshore platforms to manufactured consumer goods.

Over 20,000 enterprises in over 100 countries rely on AVEVA to help them deliver life's essentials: safe and reliable energy, food, medicines, infrastructure and more. By connecting people with trusted information and AI-enriched insights, AVEVA enables teams to engineer efficiently and optimize operations, driving growth and sustainability.

Named as one of the world's most innovative companies, AVEVA supports customers with open solutions and the expertise of more than 6,400 employees, 5,000 partners and 5,700 certified developers. The company is headquartered in Cambridge, UK.

Learn more at www.aveva.com