



AVEVA WORLD

ACCELERATE INDUSTRIAL INTELLIGENCE



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Visualizing Data with CONNECT: Industrial Awareness at Scale

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Agenda

CONNECT today

Visualization Overview

Year-in-Review: Key Achievements in 2025

Use Case-Driven Roadmap

Visualization Deep Dive

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

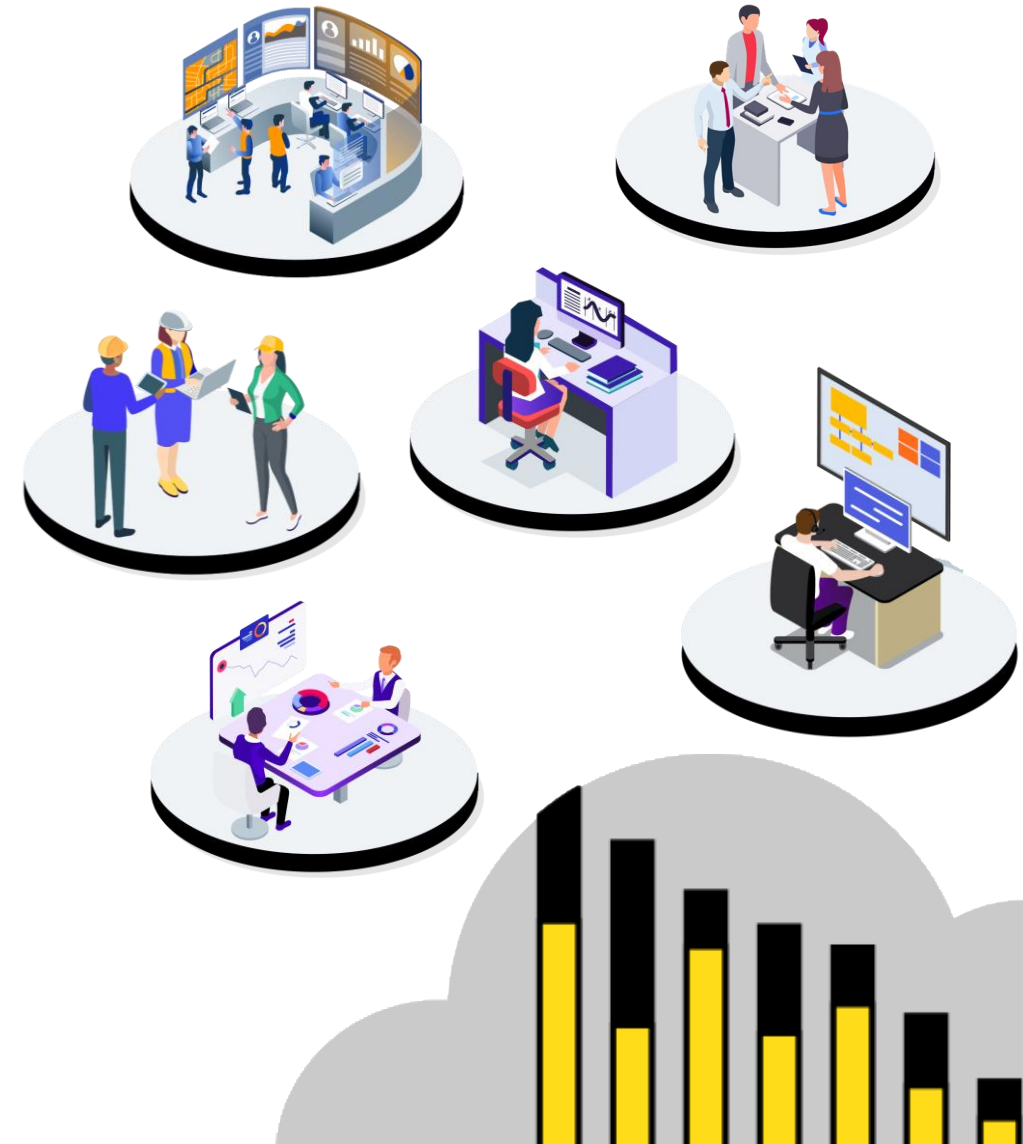
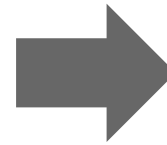
Assistants, agents, ML and data processing tools that expedite and amplify the analysis of data and insights.



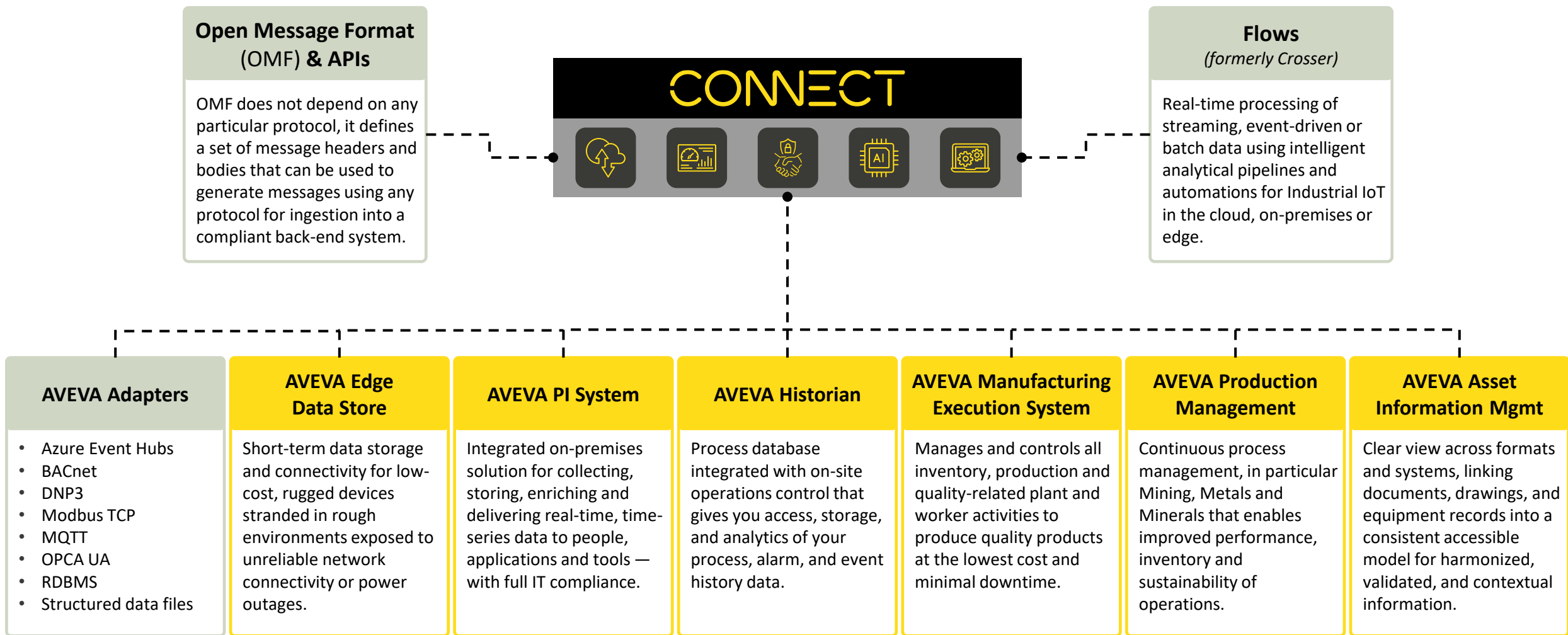
Applications

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

Industrial intelligence



Getting industrial data to CONNECT



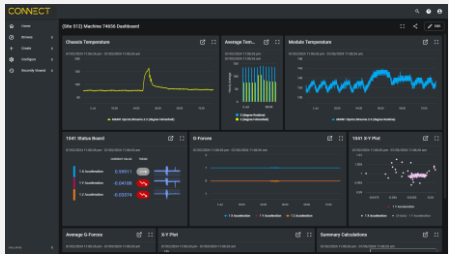
CONNECT visualization



Visualize complex relationships and data-driven insights in a way that is easy to understand

- Relate disparate data sources & systems in context to each other
- Gather insights between data sources and across data types quickly and easily
- Expedite analysis using an Industrial AI Assistant to answer natural language questions
- Share actionable information with operations, reliability, business, and other teams, anywhere through a browser

5 visualizations you can build with CONNECT



Dashboard visualizations

Dashboard visualizations contain an overview of high-level information intended for quick and simple interpretation of critical business or KPI data.

Content can be grouped in multiple ways, including the use of tabular navigation to segment categories of information.



Enterprise visualizations

Enterprise visualizations are broad in scope and can be shallow or deep, intended to showcase current and projected performance across multiple sites, divisions, or fleets of assets.

These can be highly interactive, supporting drill-down, filtering, and other user engagement to manipulate content.



Role-based visualizations

Role-based visualizations are narrow in scope, with deep information tailored for the persona or functional role to support decisions and troubleshooting.

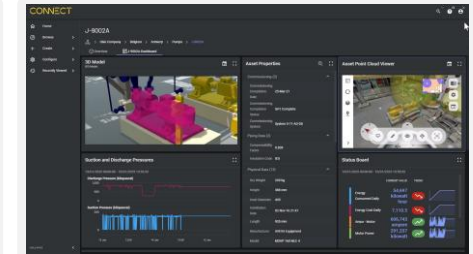
Facilitating issue resolution and other actions, these provide intelligence on performance, events and other details.



Process-based visualizations

Process-based visualizations are graphical displays emphasizing production details to drive interpretation of data and optimal performance between linked assets.

Relatable with HMI (Human Machine Interface) use cases, these displays are often highly detailed and require specialized knowledge.



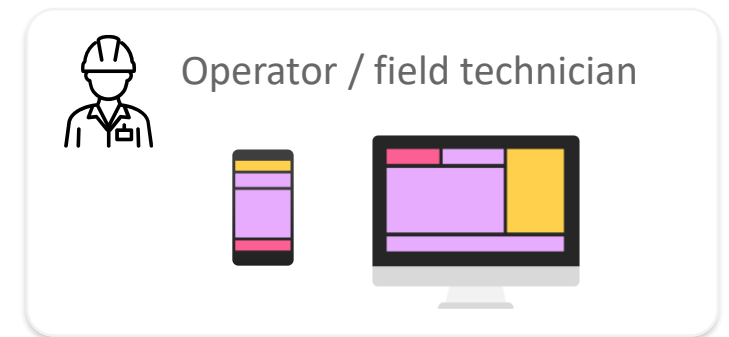
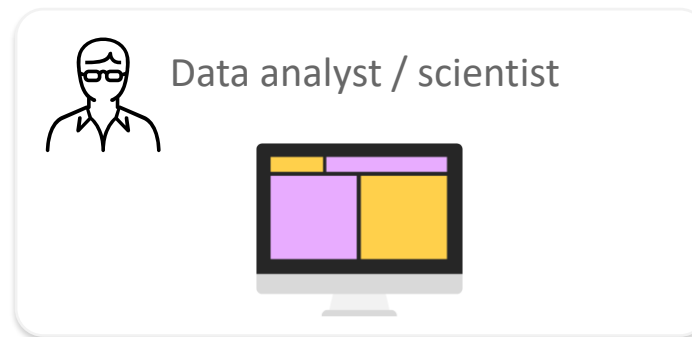
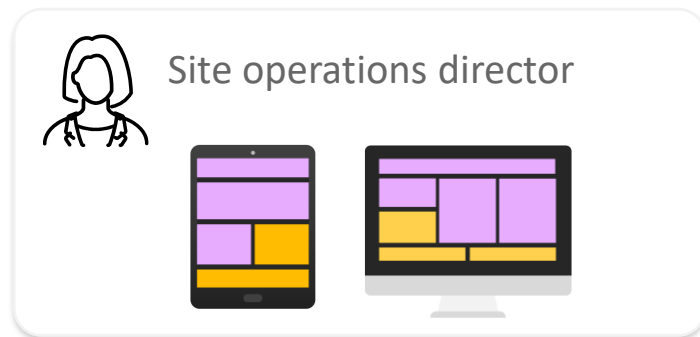
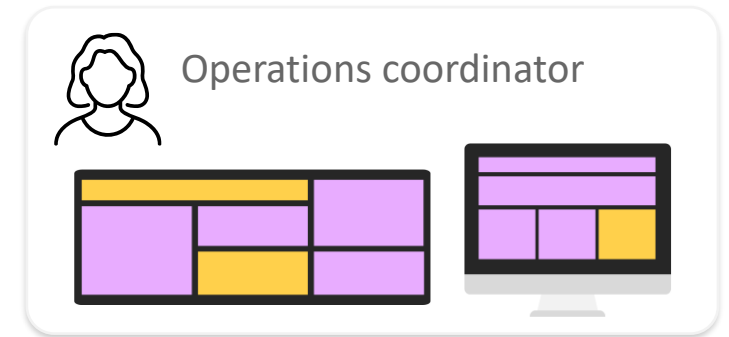
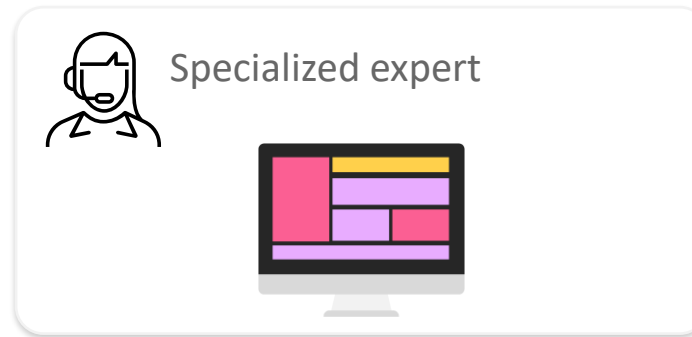
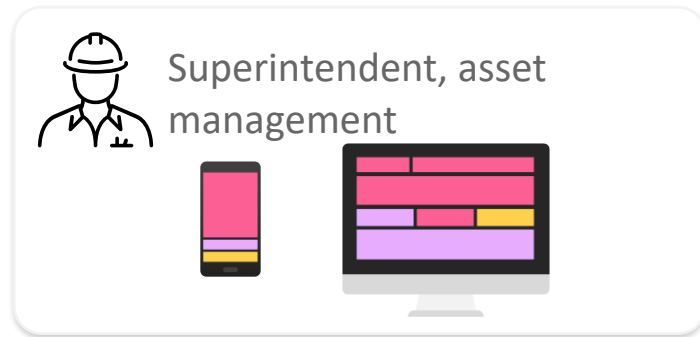
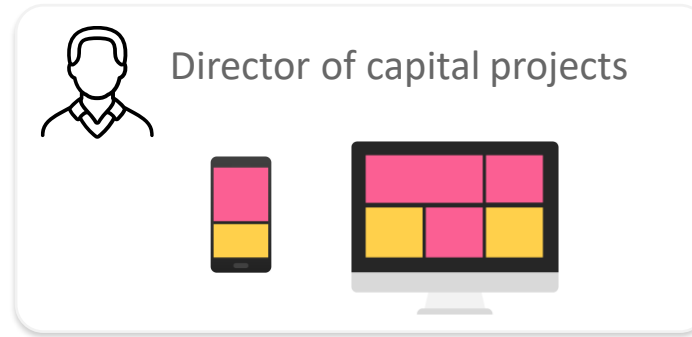
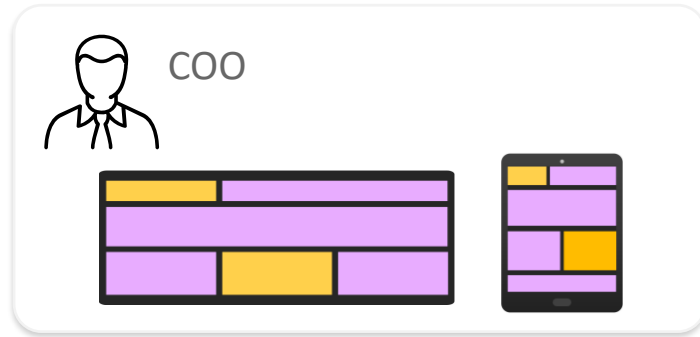
Asset-based visualizations

Asset-based visualizations can be comprised of mixed information that provide greater insight to the performance and maintenance of a single asset.

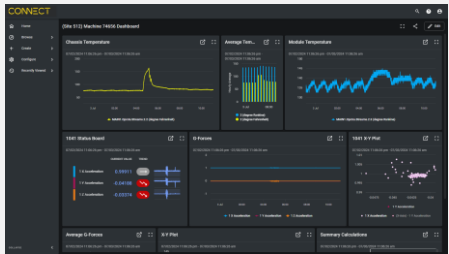
Arranged content can include time-series data, metadata, 3D models, GIS, and maintenance and other documentation.



Craft specific role-based visualizations for every user



Year-in-Review: Key Achievements in 2025



Dashboard visualizations

- Grid/canvas configuration
- Pan & zoom
- Productivity tools
- Import images
- Asset context
- Time context



Experience designer

- Add and split panes
- Navigation bar & tree
- Add content to panes
- Add visualization to panes
- Auto-fill
- Save and publish



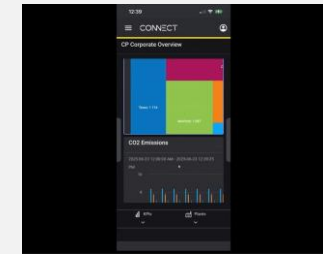
Rich graphic library

- Time-series
- Events and asset efficiency
- Asset information
- Map
- Power BI
- Graphics: charts, texts, diagrams, isometrics



Import Industrial Graphics

- System Platform Industrial Graphics to canvas
- Configure custom properties
- Modify wizard options



Support mobile devices (PWA)

- Launch Experiences
- View visualizations

No code experience!



CONNECT roadmap themes



Digital twin: Bridge engineering & operations context

Shared version of the truth for all industrial information
Enhance visibility, consistency, and generation of insights



Hybrid: Extend the value for AVEVA's existing customers

Maximize reuse of existing data structures – powerful new use cases
System of record for industrial data, apps, & data science capabilities



Enterprise insights: From enterprise data to industrial insights

Powerful analytics and AI models driving operations improvements
Authoritative, contextualized data sharing between OT + IT environments

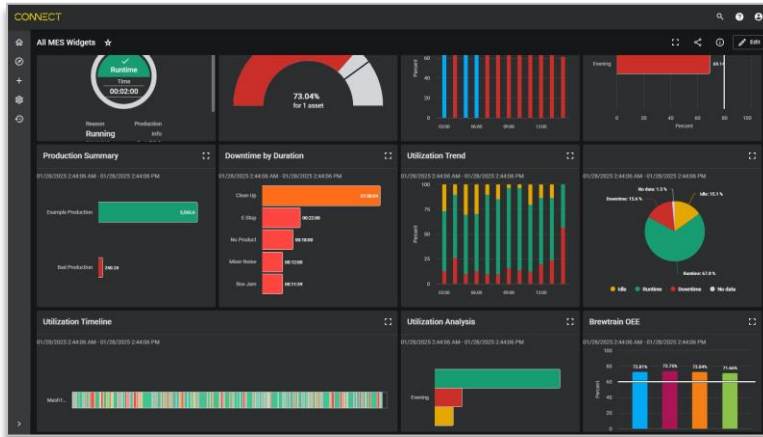


Ecosystem: Drive digital transformation

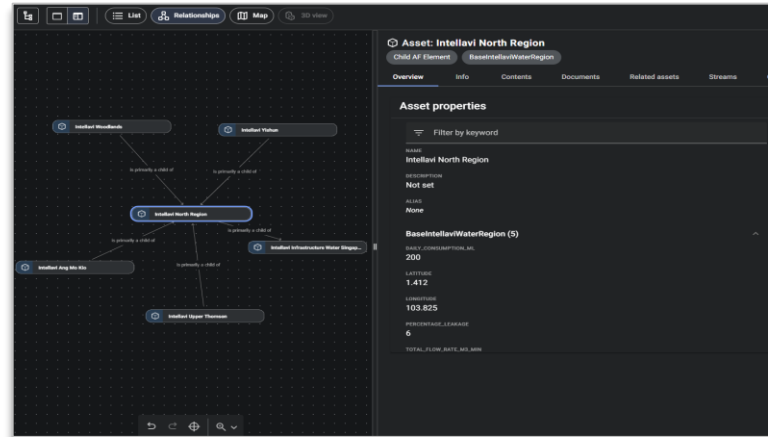
Leverage a network of partner applications and services
Flexibly use, monitor, and provision capabilities

From Visibility to Action: Delivered and Upcoming Capabilities

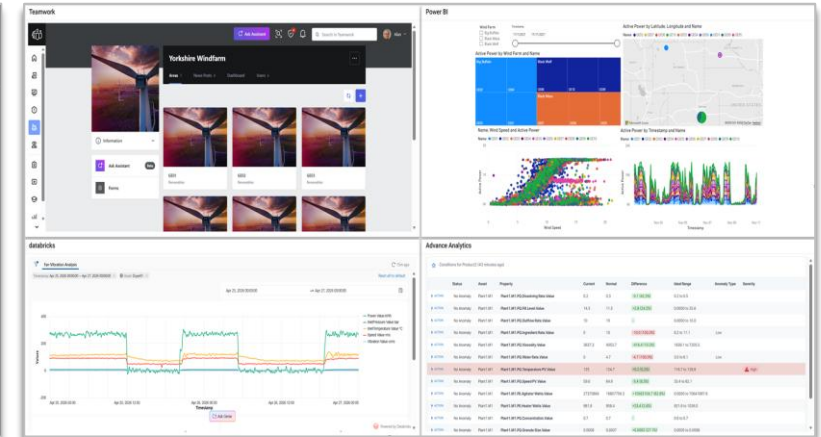
Remote Operations Monitoring



Investigation via Navigator



Visualize third-party web content



- ✓ Design Experiences, Grid, Canvas visualizations
- ✓ Choose from a rich library of graphics & widgets
- Publish PI Vision displays to Canvas
- Import System Platform Industrial Graphics with reference binding
- Enhanced grid/canvas sharing with time & asset level context
- Leverage semantic relationships to design visualizations
- Events, alarms, enhanced Map, custom calculations, productivity tools, forms

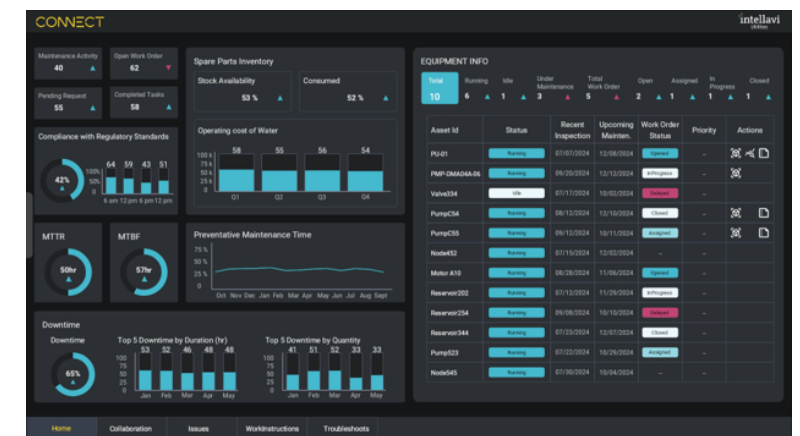
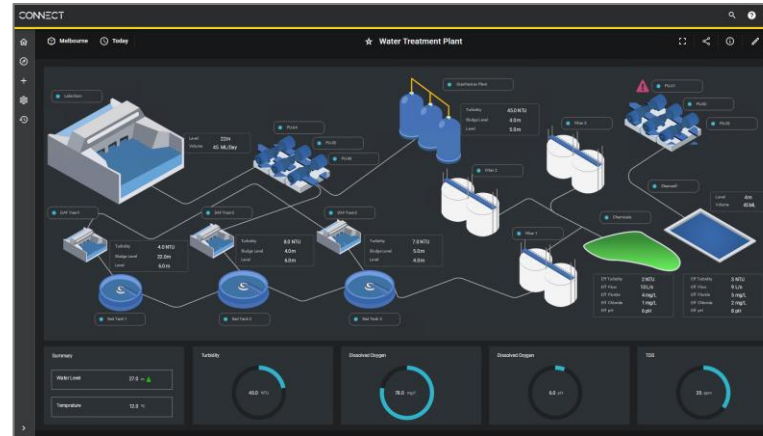
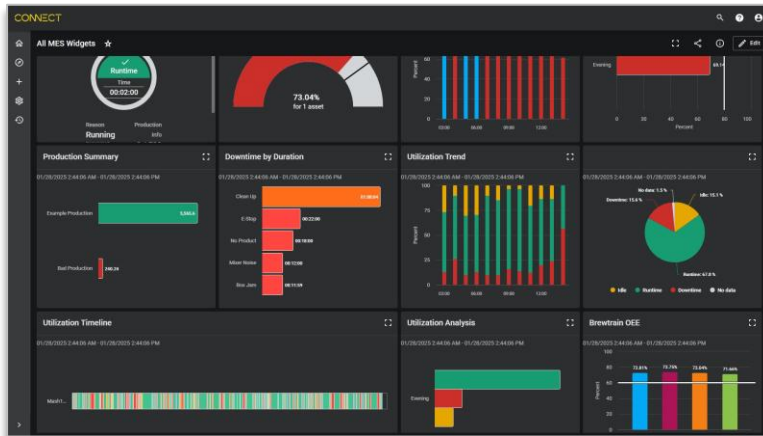
- Browse assets using Navigator (navigate asset relationships and hierarchy, 2D/3D)
- View time-series operational data
- Access engineering & reference information (documents, specs, drawings)
- See asset location on a map
- Create canvas visualization from Navigator
- Events, alarms, Point Cloud Manager, enhanced map - (full asset context in Navigator)
- Query builder for advanced filtering capabilities

- Embed third-party web content using iFrame widget
 - Databricks, Teamwork, AVEVA Advanced Analytics (Third-party security settings must allow embedding in CONNECT)
- Integrate external reports and dashboards (BI Tools, ESG reports, Maintenance systems, etc...)
- Combine CONNECT operational data with external systems (IT + OT + business context in one view)
 - Reduce tool switching and context loss

Visualization Deep Dive

Type of Visualizations

Choose from 3 distinct display formats: Grid, Canvas and Pane Layout (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

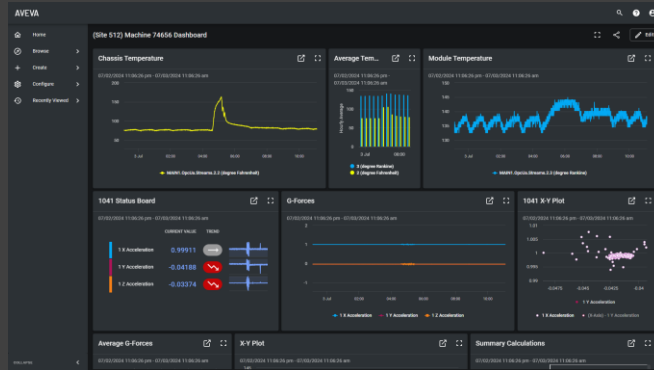
- ✓ Rich, interactive, application style visualization, with customizable navigation options
- ✓ Dynamically driven content, advanced functions and deep customization
- ✓ Increase visibility for a 360-degree, holistic view of operations, process, engineering data and more.

Type of Content

Time-series data visualization

Library of configurable time-series data content types:

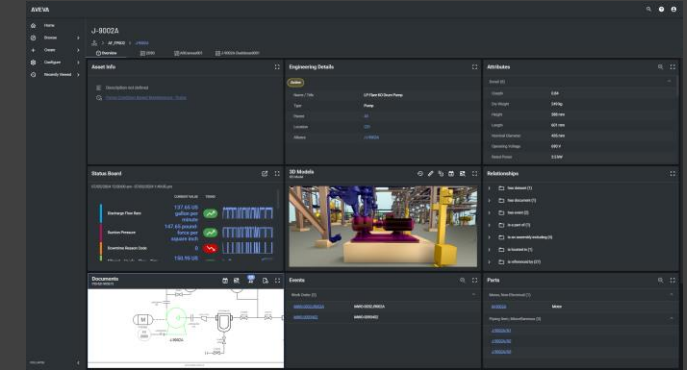
- Column chart
- Data grid
- Industrial graphic
- Line chart
- Pie chart
- Status board
- Summary chart
- Treemap
- XY Plot



Models, documents, and other data visualization

Library of configurable time-series data content types:

- 3D viewer
- Doc viewer
- Point cloud viewer
- Properties
- Relationship explorer
- Relationship viewer
- Report viewer
- Microsoft Power BI
- Map



Event and asset efficiency data visualization

Library of configurable time-series data content types:

- Column chart
- Data grid
- Industrial graphic
- Line chart
- Pie chart
- Status board
- Summary chart
- Treemap
- XY Plot



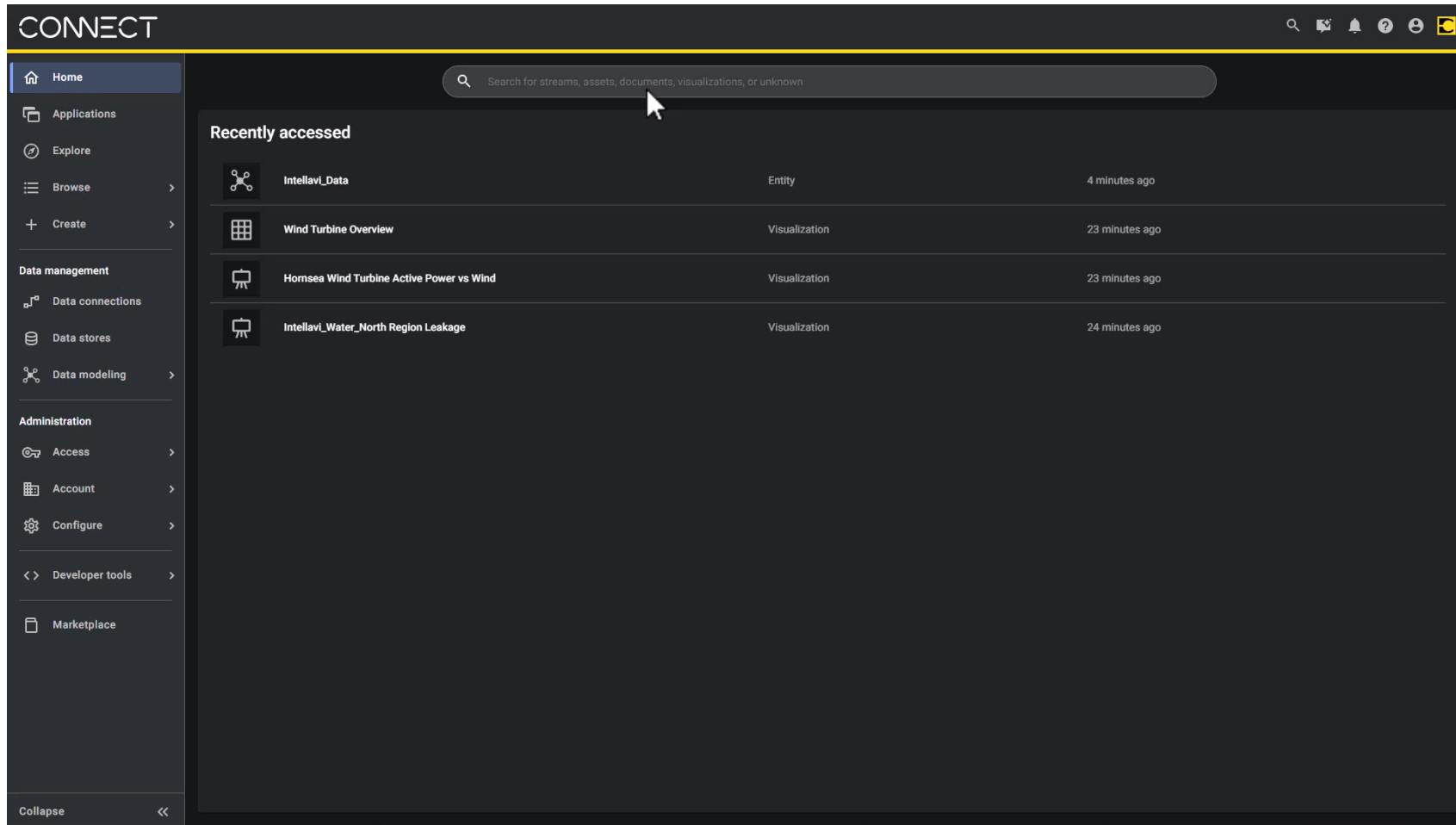
Graphics

Configurable & Custom



CONNECT's Navigator

Using the Navigator to explore relationships in your industrial data



Features:

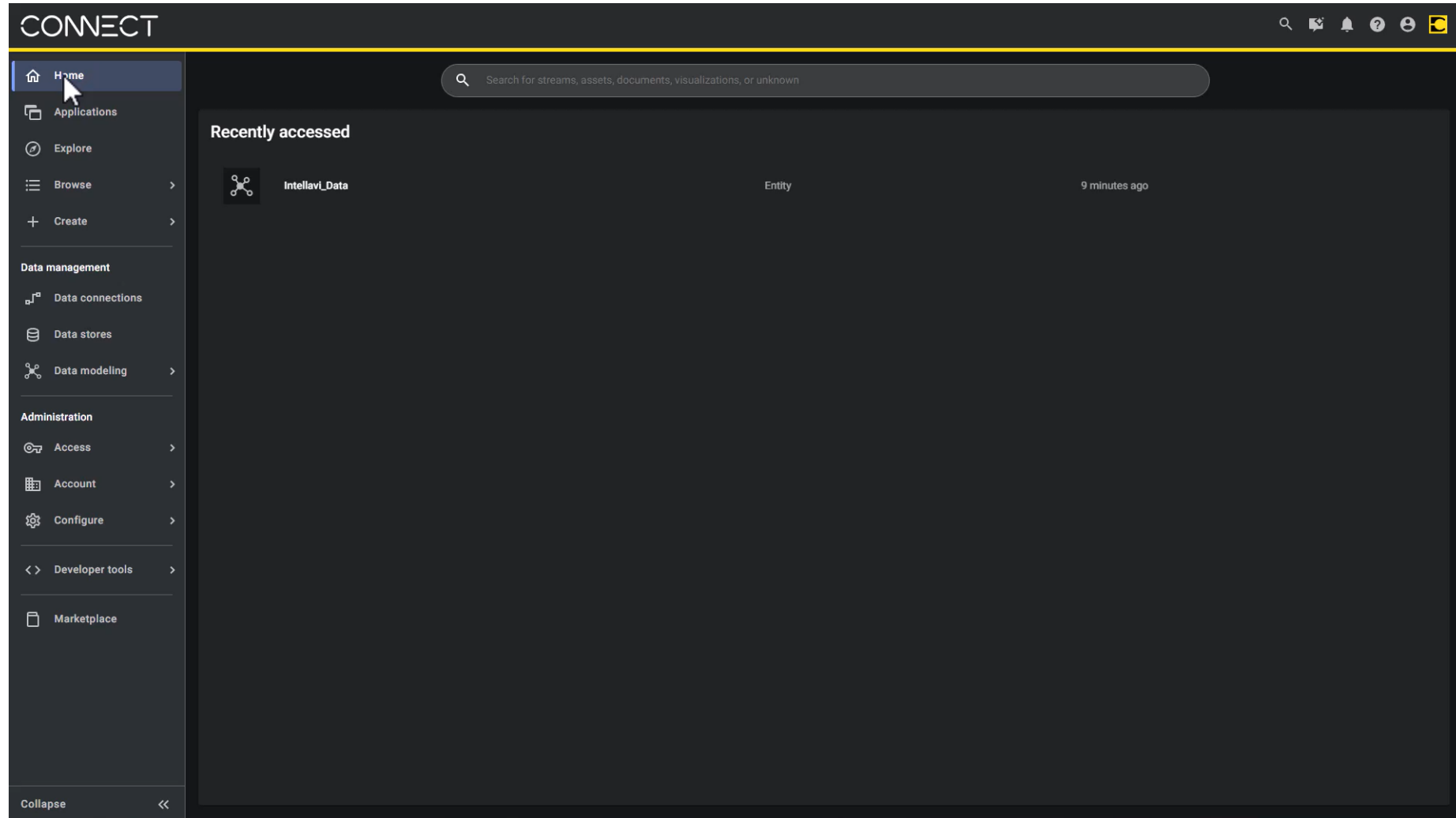
- Contextual aware, visually intuitive, relationship driven exploration
- Knowledge graph, hierarchy, list with sort and filtering capabilities
- Map, 3D model, streams, visualizations
- 2D documents such as P&ID's, work instructions or procedures

Benefits:

- Provides a holistic view of your data, without silos or blind spots
- Elimination of fragmented, dead-end workflows

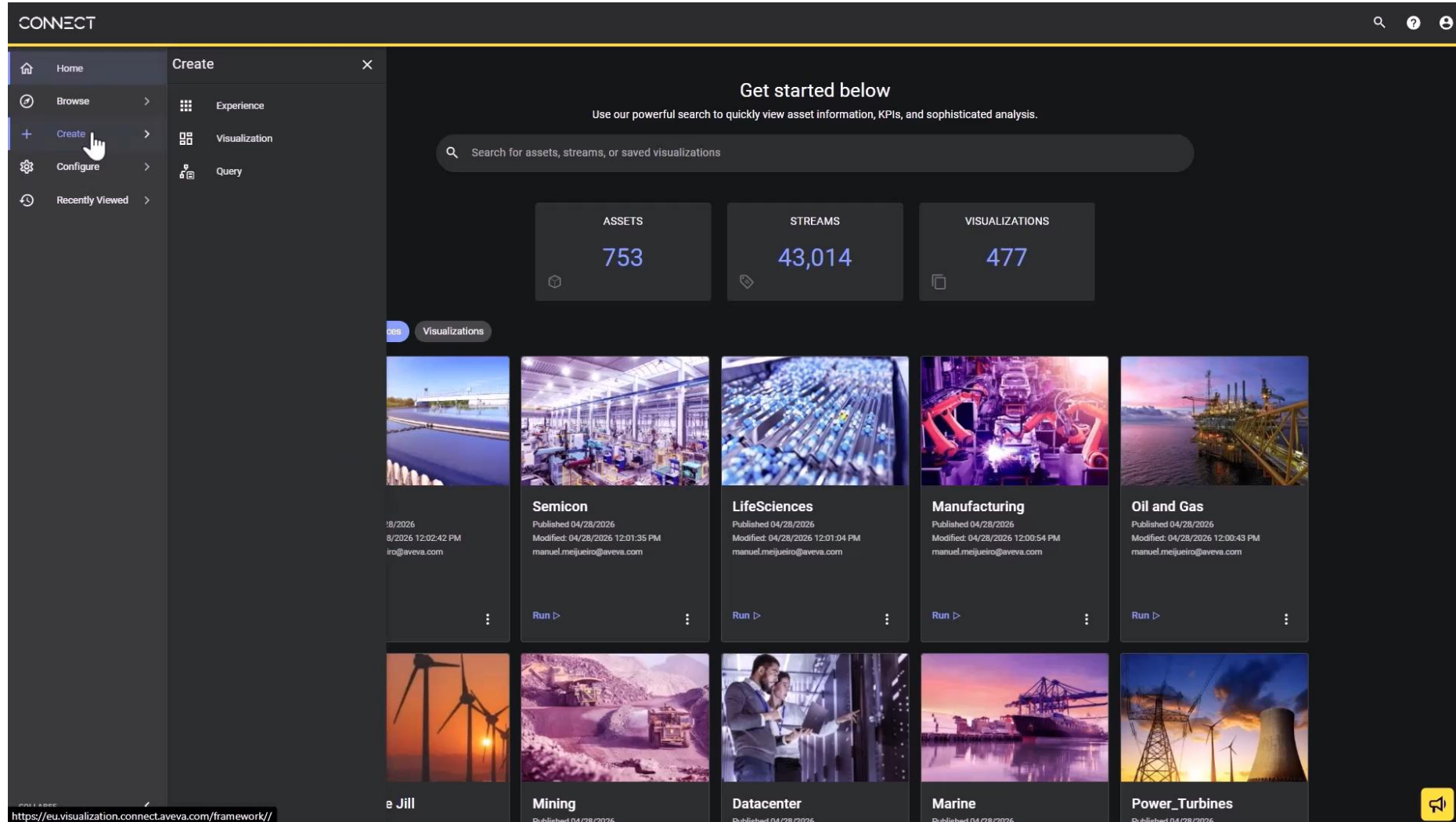
Creating visualizations in CONNECT

Visualization designer used for assembling Grid and Canvas visualizations



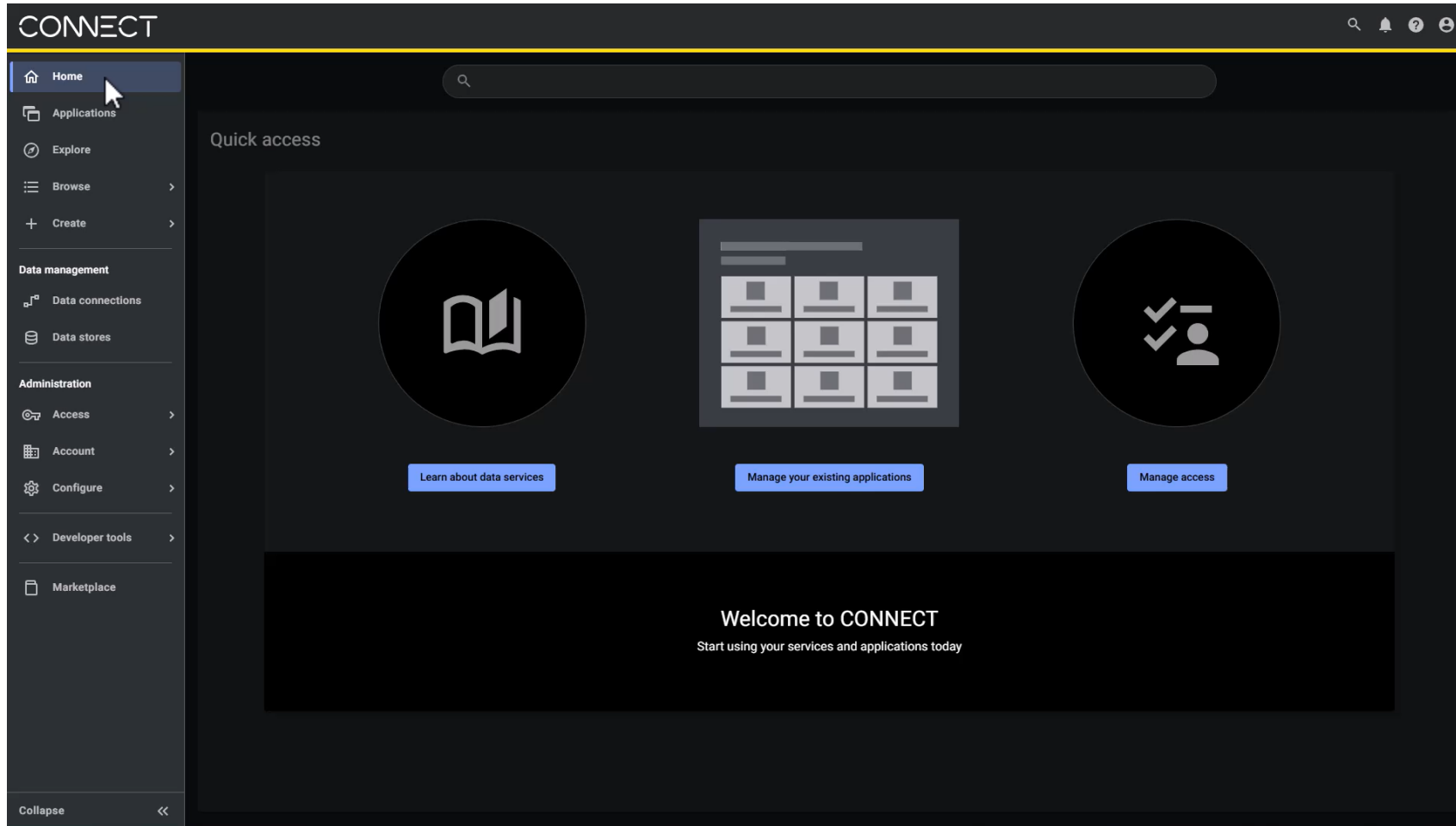
Creating experiences in CONNECT

Used for assembling the more advanced Experience visualizations



PI Vision displays in CONNECT

View your operational displays alongside additional CONNECT data + visualization



Features:

- Seamlessly publish PI Vision displays to CONNECT
- New agent architecture to search, select, evaluate, and publish displays at scale
- Automatic mapping of PI data and AF attribute references to corresponding CONNECT streams and entities
- PI Vision-to-CONNECT change synchronization

Benefits:

- Break down silos by unifying PI Vision displays with enterprise and third-party cloud data
- Speed time-to-value and preserve prior investments

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and experience some of the new
capabilities coming this year.

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Questions?



- Please wait for the microphone
- State your name and company

Please remember to...

Navigate to this session in the mobile app to complete the survey

Visit us at the CONNECT booths in the Innovation Zone

Thank you!

Upcoming CONNECT sessions

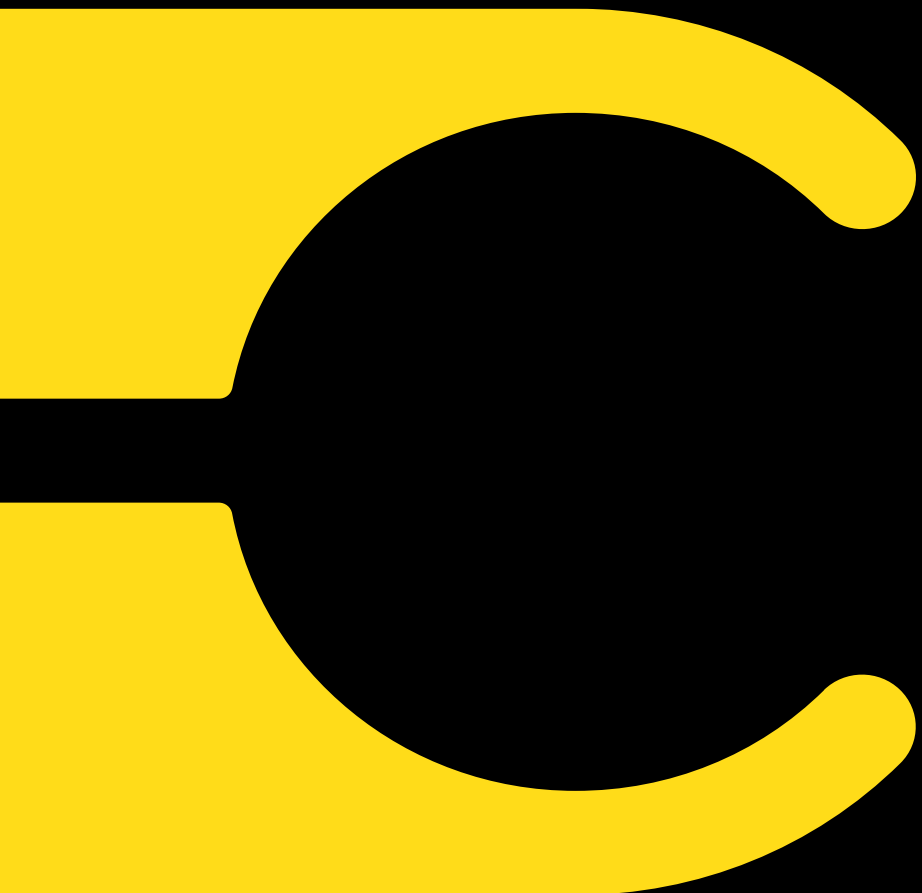
- **Agnico Eagle: From Analytics to Enterprise Intelligence: How Agnico Eagle Scaled CONNECT Across Mining Ops**
Tomorrow, 10:30a – 11:00a, Amber 4
- **From Data to Decisions: Advanced Industrial Analytics and Machine Learning with CONNECT**
Tomorrow, 09:45a – 10:15a, Brown 2
- **AVEVA AI: Empowering Decisions for the Next Industrial Era**
Tomorrow, 10:30a – 11:00a, Brown 2
- **Plugging In: Integrating CONNECT with the Enterprise Data Stack**
Tomorrow, 11:15a – 11:45a, Brown 2
- **Data Everywhere: Modern Edge-to-Cloud Connectivity (Roundtable)**
Tomorrow, 11:15a – 12:00p, Amber 6



CONNECT

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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.

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