APRIL 2024

AVEVA's Big Picture – CONNECT

The industrial cloud platform to accelerate digital transformation with real-time data, rich AI, and robust insights

Mike Norton - Solution Consultant



500

of all industrial data was created in the last two years.

In 2024, that will still be true.

Source: <u>Statista</u>, Sept 2022

38%

of new operational data will be stored and processed in the cloud.

An increase of 16% in just two years.

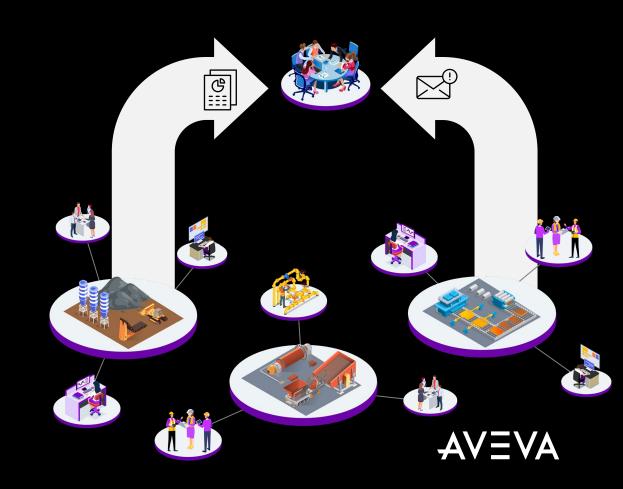
Source: IDC, "Worldwide IT/OT Convergence Survey, 2022", Jonathan Lang, Sept 2022.



The changing workspace

Information silos, inconsistency and slow responsiveness

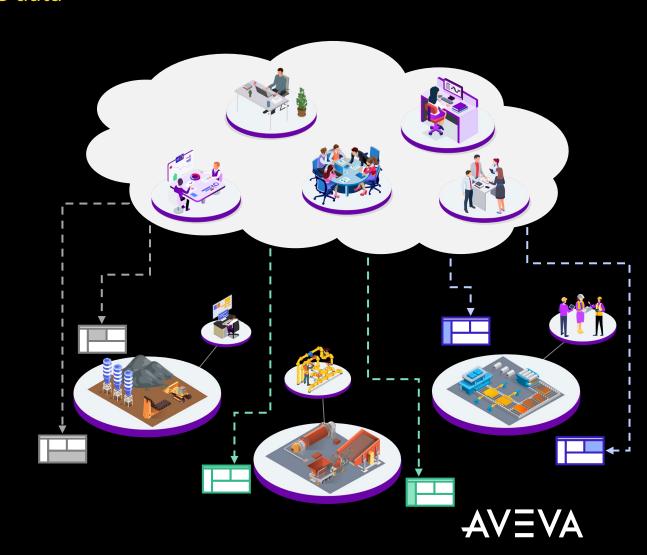
- Local teams primarily own access to information and spend time manipulating the data into other forms
- Offsite stakeholders must wait for report and insight delivery
- Access often depends on a select few experts
- Limited ability to enhance data digitally for more value
- Further inquiries or inconsistencies require restarting the information cycle



The changing workspace

Remote and virtual teams still need access to reliable data

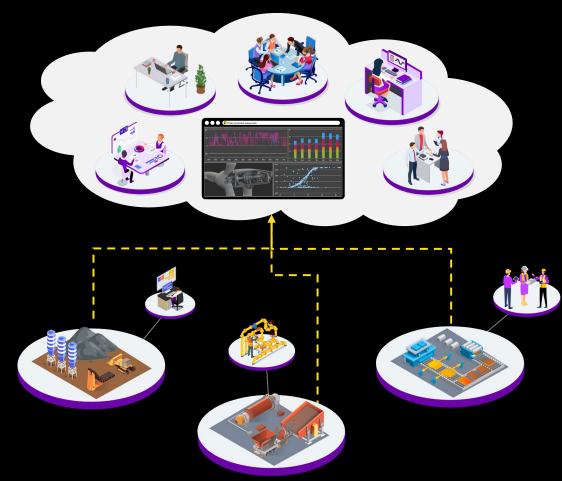
- Labor shortages, costs, and other dynamics are shifting workforces offsite
- These remote and virtual teams still require access to on-premises generated information
- Scale and complexity of data alignment impedes progress
- Tunneling into on-premises applications can present cybersecurity, accessibility, and maintenance challenges
- Users might still need to spend time extracting and manipulating data from on-premises tools



How to address the changing workspace?

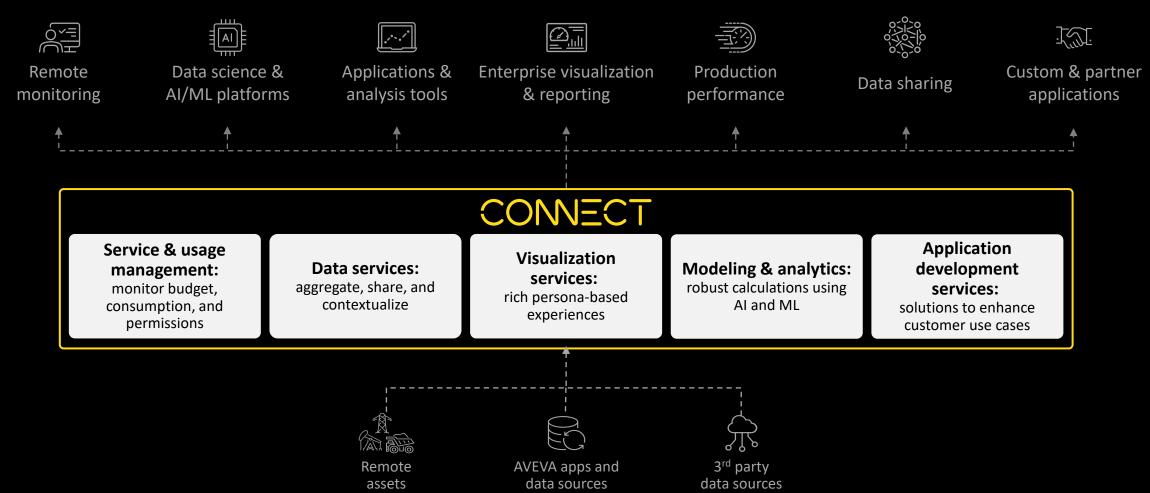
Aggregated data with a cloud-based platform provides seamless access

- Utilizing the cloud to aggregate and display information reduces on-premises data gathering hurdles
- Diverse teams across operations, reliability, sustainability and others can access the information that matters most to them
- Users can customize and retain the structure, design and format of their work
- Data can be enhanced with AI and data sharing capabilities for new value-providing use cases
- Scalability of the cloud ensures short time to value with the ability to grow systematically as ROI justifies



CONNECT, our industrial intelligence platform

Open and neutral, providing rich data insights for your unified industrial ecosystem



CONNECT service & usage management

A single interface for both cloud and on-premises applications



Consume

- Access the full portfolio of AVEVA software
- Subscribe and configure your solutions
- Rapid deployment and provisioning of cloud services
- Manage your budget and monitor your consumption through the AVEVA[™] Flex subscription program



Access

- Guaranteed >99% uptime
- Centralized user management and permissions
- Import credentials directly into CONNECT from Microsoft™ Azure Active Directory



Analyze

- Management reporting offers a central hub of information and insights about Flex credit consumption, usage and adoption, and audit logs
- Subscribe to alerts from the status dashboard for notifications of planned and unplanned events



Integrate

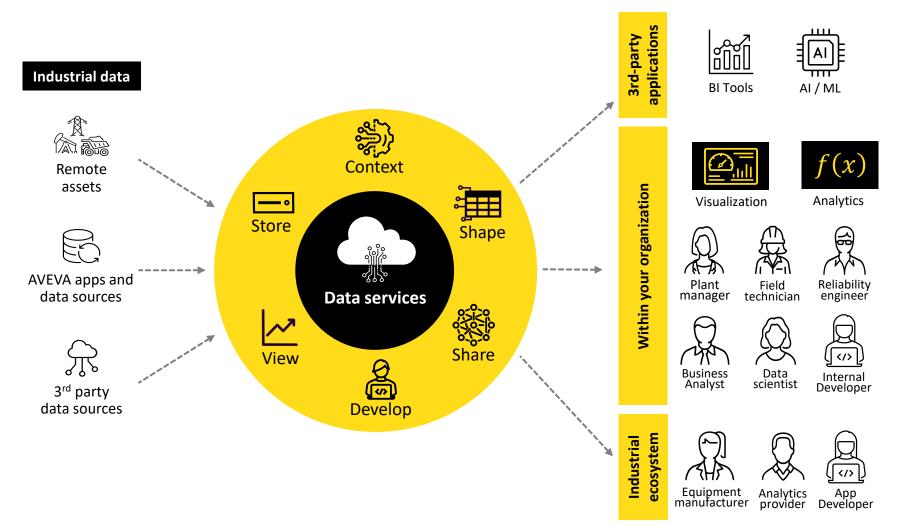
- Manage and configure integrations between CONNECT services, partner and other thirdparty applications from cloud to edge
- Leverage shared services for cloud storage, applications, licensing and entitlement

- Accelerate time to value with flexible, scalable, and trusted industrial hybrid SaaS solutions
- Optimize your industrial software investments centrally
- Extend your ecosystem of teams and partners with a purpose-built industrial cloud platform



CONNECT data services (AVEVA Data Hub)

Aggregate, contextualize, and share real-time industrial data



A cloud-native industrial platform designed for aggregating, storing, enriching, accessing, analyzing, and securely sharing real-time operations data from historians, edge devices, and more

- Remote monitoring
- Reporting and dashboarding
- Data science & Al/ML platforms
- 3rd party analytic tools
- Data sharing with business partners
- Custom & partner applications



Why CONNECT data services (AVEVA Data Hub)?

AVEVA Data Hub is the data services layer within CONNECT

Makes it easier to aggregate, store, enrich, access, analyze, and securely share real-time to improve efficiency, sustainability and drive digital transformation.

Strengths/Differentiators

Ready to use SaaS, requires no development or integration and can start delivering value in hours, not months

Provides the easiest path to get industrial operations data to the cloud & optimized for OT data, at scale

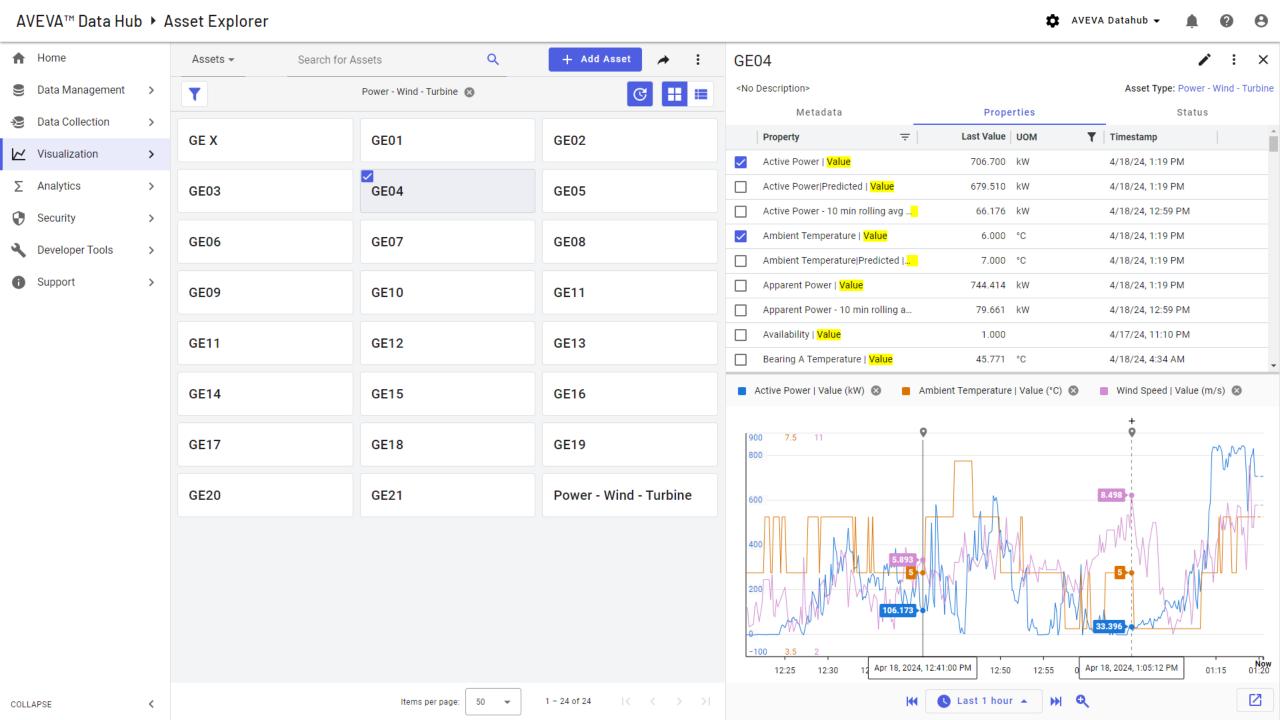
Handles any kind of sequential data and allows raw data streams contextualization to support users from any functional area

Protects control networks with a separate data layer and one-way communication Is a more secure, multi-tenant way of sharing data with granular control over what data is shared to which partners Is a SaaS available via CONNECT and fully managed by AVEVA; nothing for you to manage or maintain

- Purpose-built for OT from the leader in industrial software solutions, ready for the enterprise
- Native integration to AVEVA PI System, AVEVA Historian, Edge Data Store, & connectivity to other data sources

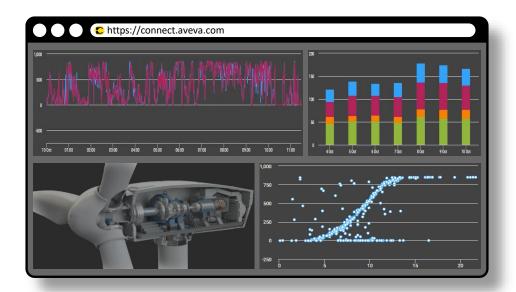




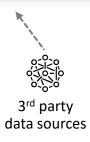


CONNECT visualization

Visualize industrial data using self-service and pre-defined dashboards







Self-service

- Editable dashboards
- Arrange various content types
- No code experience
- Search for content
- Adjustable historical view

Pre-defined

- Custom developed experiences
- Rich animations and dynamic styling
- Asset driven navigation
- Complex interactions
- Holistic operations view

- Visually relate disparate data sources & systems in context to each other
- Gather insights between applications and across data types quickly and easily
- Share actionable information with operations, reliability, business, and other teams, anywhere through a browser



Мар

Home

Operations

Maintenance

Forecasting

Revenue

Collaboration



HSE

Activities

CONNECT modeling & analytics

(AVEVA Advanced Analytics)

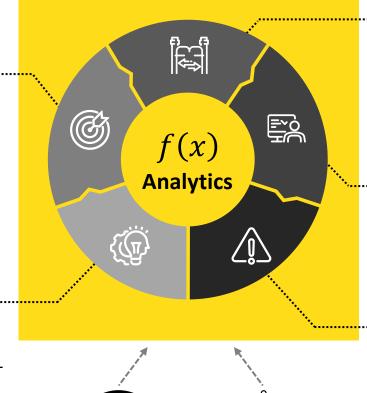
Combine existing data with AI for faster and smarter decisions

Solve

Consolidate learnings and apply solutions that mitigate problems and improve performance

Learn

Automate investigations and understanding of performance drivers with ML



3rd party data sources

Model

Combine data from multiple sources to mirror physical assets & processes on digital twins

4 Monitor

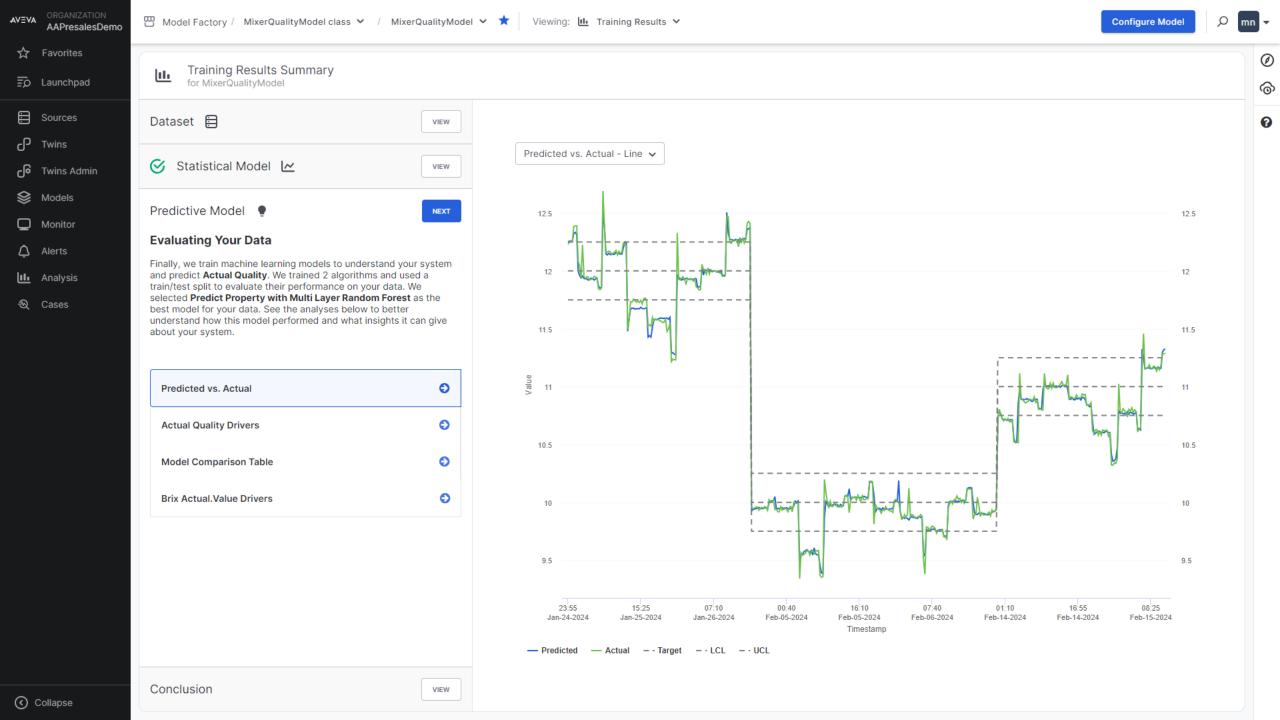
Apply algorithms & logic to continuously assess performance

5 Alert

Give early warnings of performance issues with improvement suggestions

- Utilize AI and ML to improve process efficiency
- Understand production outcomes and get recommended corrective actions
- Collaborate with trusted partners to enable crosscompany collaboration and discover new opportunities





CONNECT application development services

Build solutions that extend and enhance use cases



Development environment and development tools



Technical enablement materials



Technical support and consulting services



"It's been so prosperous. We're seeing such benefit from this [partnership]. The intersection of what we can do for AVEVA clients and the value they can get out of this will be tremendous for all parties involved."

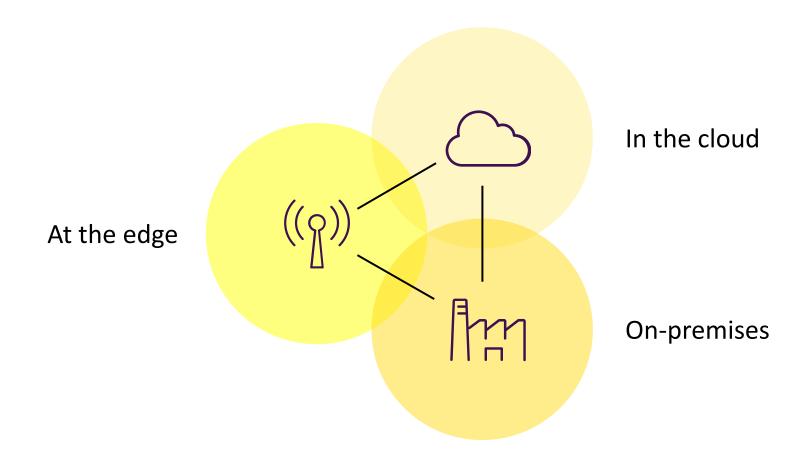
- Gary Robinson, CEO, Lityx

- Empowering partners and developers to build solutions that extend and enhance use cases
- Gain access to development toolsets, exclusive events, and industrial solution expertise
- Out-of-the-box data-sharing infrastructure enabling design and provisioning of value-added solutions



The industrial world is hybrid

An integrated, edge-plant-cloud architecture supports OT, IT and IIoT use cases







Thank you!



CONNECT

This presentation may include predictions, estimates, intentions, beliefs and other statements that are or may be construed as being forward-looking. While these forward-looking statements represent our current judgment on what the future holds, they are subject to risks and uncertainties that could result in actual outcomes differing materially from those projected in these statements. No statement contained herein constitutes a commitment by AVEVA to perform any particular action or to deliver any particular product or product features. Readers are cautioned not to place undue reliance on these forward-looking statements, which reflect our opinions only as of the date of this presentation.

The Company shall not be obliged to disclose any revision to these forward-looking statements to reflect events or circumstances occurring after the date on which they are made or to reflect the occurrence of future events.

