

The background of the image is a deep purple with a network of glowing, intersecting diagonal lines in shades of cyan and magenta, creating a diamond-shaped pattern. Centered in the middle is the text "AVEVAWORLD" in a white, bold, sans-serif font. The letter "E" is stylized with three horizontal bars.

AVEVAWORLD

ACCELERATE INDUSTRIAL INTELLIGENCE

CONNECT



MAY 2026

CONNECT + Databricks: Unlocking the power of Virtual Tables

Presented by: Adam Fink

Presenter

Sr. Software Developer – Product Readiness

AVEVA

Adam Fink

adam.fink@aveva.com



- Why CONNECT + Databricks
- Architecture
- Workflow
- Data views
- Virtual tables (integrate with Databricks)
- Write back to CONNECT

Why CONNECT + Databricks matters

Combine operational and enterprise data

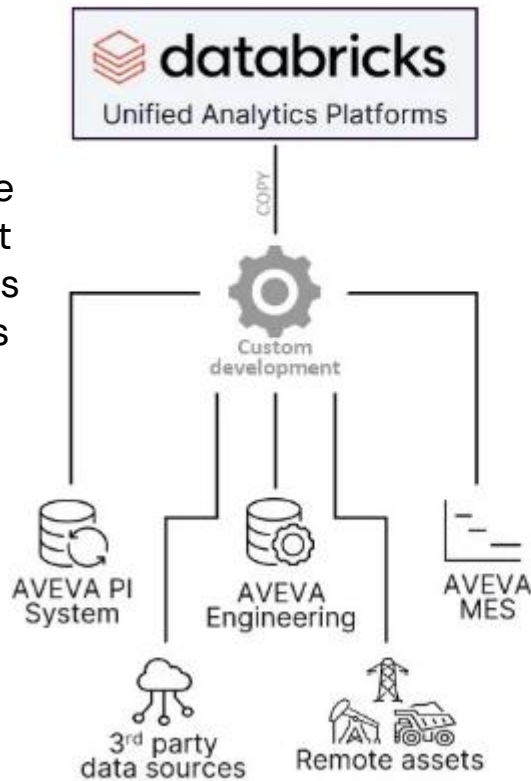
1. No code, unified approach provides holistic view of business and operations
2. Improved decision-making, collaboration and innovation

Real-world applications

1. Financial forecasting
2. Predictive maintenance
3. Maximize production/minimize waste
4. Improve quality control
5. Ensure safety

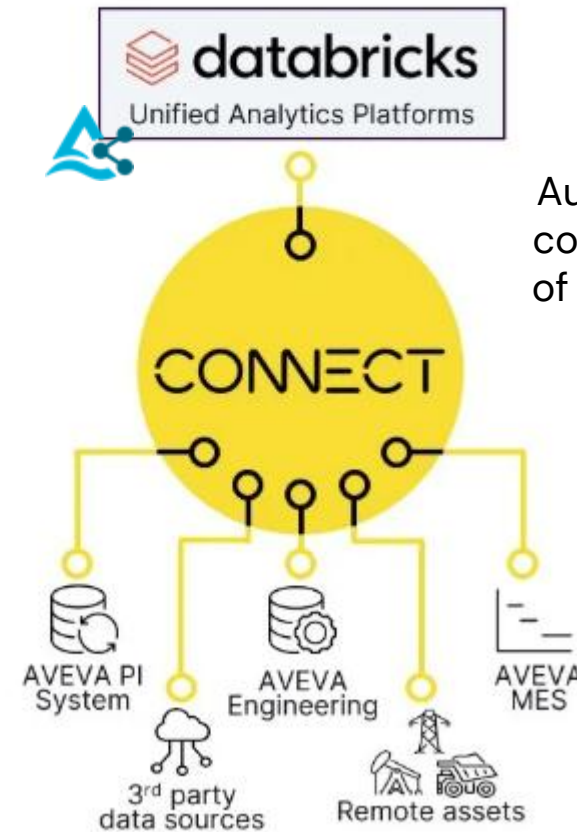


In-House Solutions



Customers responsible for reliable, performant data ingestion pipelines (or buy 3rd party tools that don't scale)

INTEGRATION

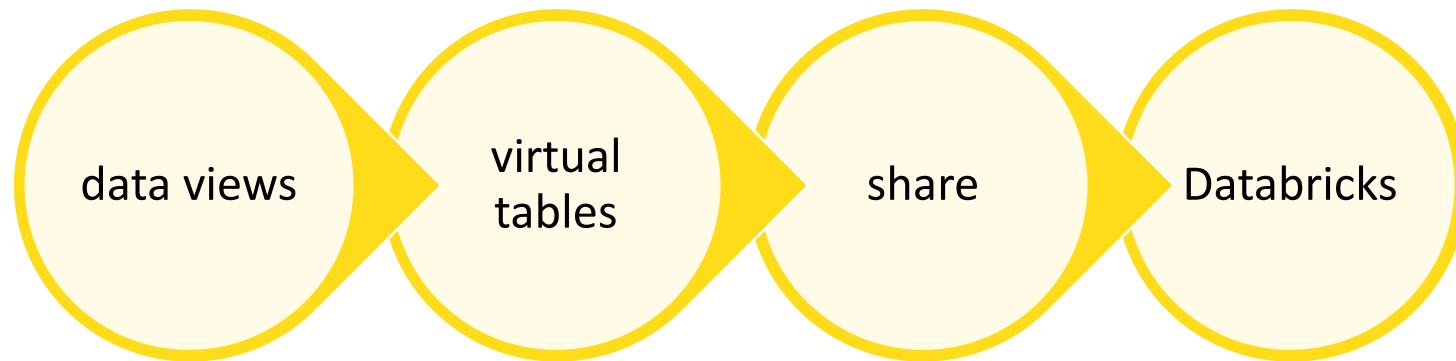


Authoritative, high quality, contextualized live sharing of data between OT and IT environments

Virtual tables workflow

Combine OT/IT data in data science platforms

1. **Data views** organize your stream data into structured, repeatable views
2. **Virtual tables** expose your data view to a share
3. **Shares** create a connection between CONNECT and a third-party analytics platform, like Databricks



<https://docs.aveva.com/bundle/connect-data-services/page/1469347.html>



Data views

Data views

Curate and normalize your data

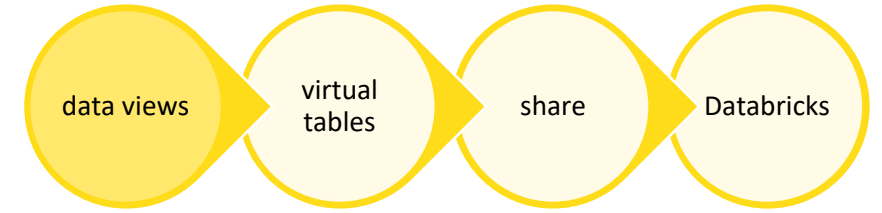
- Deliver shaped data ready for consumption that is aligned and contextualized
- Access subsets of data items in data driven applications for data science enablement
- Support for both streams and entity queries

Timestamp	GE01 Model ⓘ	GE01 Active Power Value kW ⓘ	GE01 Wind Speed Value m/s ⓘ	GE01 Nacelle Position Value ° ⓘ	GE01 Rotor Speed Value rpm ⓘ	GE02 Model ⓘ	GE02 Active Power Value kW ⓘ
Apr 19, 2026, 12:00:00 AM	T95-2MW	687.8335	9.915415	212.99155	18.090647	1.5 csCWE	1128.5073
Apr 19, 2026, 1:00:00 AM	T95-2MW	844.0696	10.028729	227.58453	19.491657	1.5 csCWE	986.9006
Apr 19, 2026, 2:00:00 AM	T95-2MW	309.57654	6.638737	220.48042	13.884283	1.5 csCWE	672.06964
Apr 19, 2026, 3:00:00 AM	T95-2MW	846.08673	9.496932	229.10663	19.733307	1.5 csCWE	809.47675
Apr 19, 2026, 4:00:00 AM	T95-2MW	279.23492	5.342765	227.92778	13.677976	1.5 csCWE	663.6671
Apr 19, 2026, 5:00:00 AM	T95-2MW	52.90638	4.19659	224.42206	11.99902	1.5 csCWE	201.78003
Apr 19, 2026, 6:00:00 AM	T95-2MW	19.136555	3.511363	230.66614	11.941503	1.5 csCWE	3.4457178
Apr 19, 2026, 7:00:00 AM	T95-2MW	111.56239	1.7818766	157.39726	0.22412533	1.5 csCWE	-9.073141
Apr 19, 2026, 8:00:00 AM	T95-2MW	244.87329	3.7036202	113.56023	13.855733	1.5 csCWE	-6.0305276
Apr 19, 2026, 9:00:00 AM	T95-2MW	127.66968	5.3309236	115.46125	12.18295	1.5 csCWE	272.78928
Apr 19, 2026, 10:00:00 AM	T95-2MW	558.12445	8.263877	120.90979	16.788641	1.5 csCWE	723.1838
Apr 19, 2026, 11:00:00 AM	T95-2MW	935.55396	10.176411	128.02083	19.76098	1.5 csCWE	570.7067

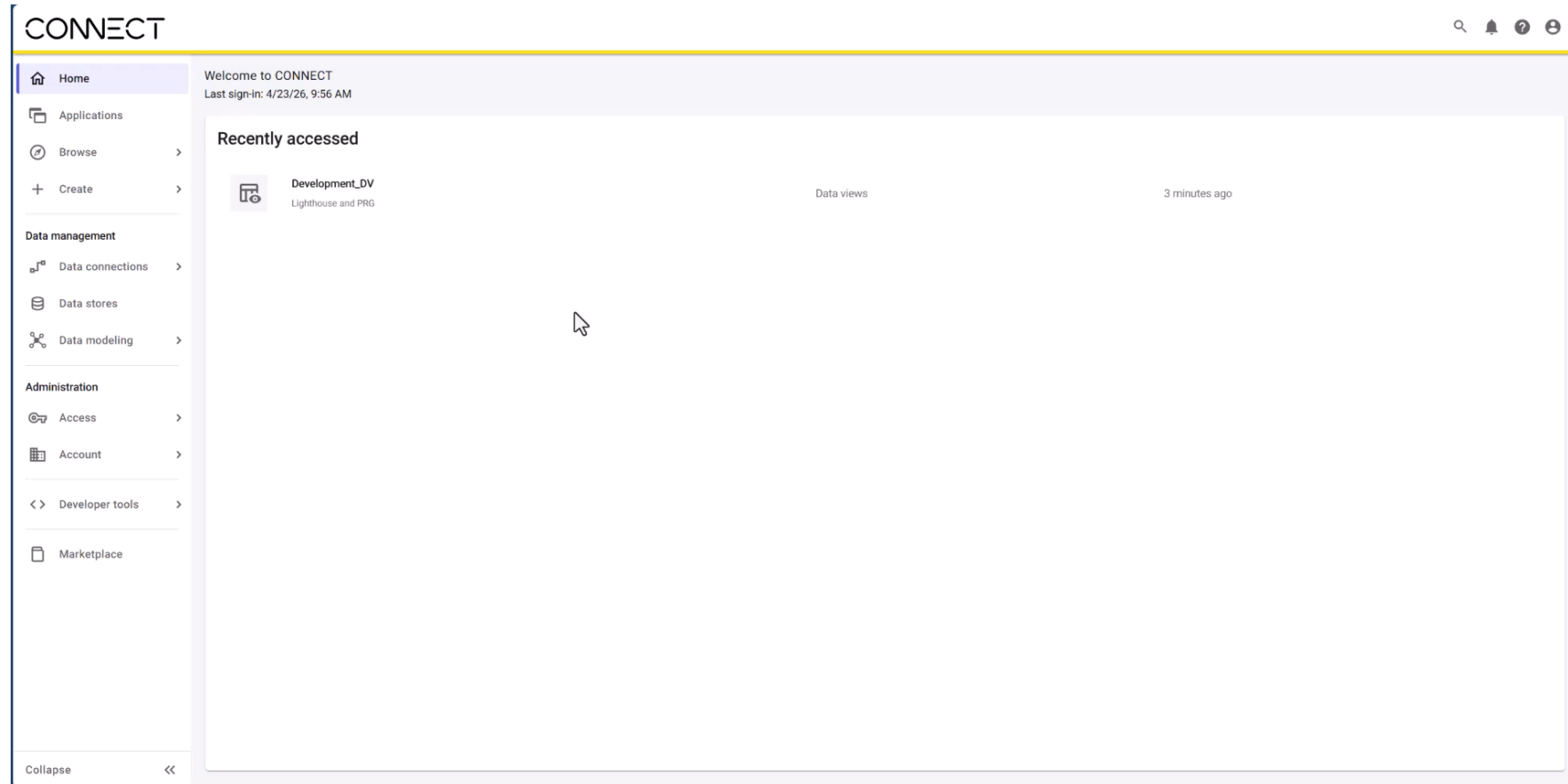
Rows per page 50 1~50 < >

Create a data view

Demo



- Build data view to compare active power and windspeed for a set of GE turbines

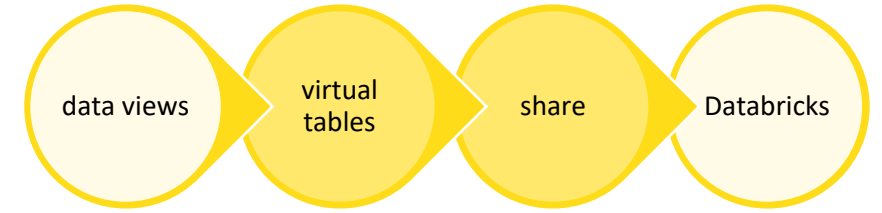




Virtual tables

Create a share and virtual table

Demo



- Configure virtual table to share data view to Databricks

CONNECT

Data Views: Development_DV [Change instance](#)

Development_DV [Copy ID](#)

Filter by keyword

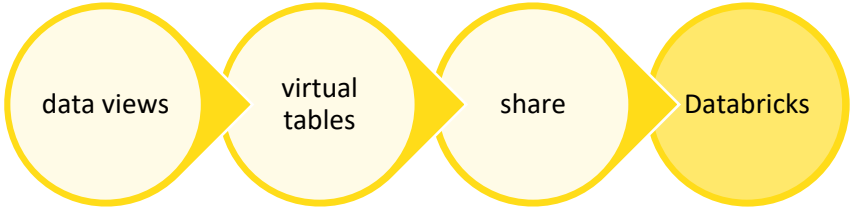
Create data view

Id ↑	Name	Description	Query Sources
GE Turbine Power Data	GE Turbine Power Data	GE Turbine Power Data	Development

Items per page: 50 1 - 1 of 1

Shared CONNECT data in Databricks

Demo



- Explore shared data in Databricks

CONNECT

Home

Applications

Browse

Create

Data management

Data connections

Data stores

Data modeling

Administration

Access

Account

Configure

Developer tools

Marketplace

Collapse

Virtual tables: Development_VT

Change instance

Development_VT

Copy ID

Virtual tables

Shares

Job history

Filter by keyword

Create virtual table

Name ↑	Id	Source data view	Status
GETurbineDataVT	e6ed35d5-576c-4426-bf68-fccd8ebb70ce	GE Turbine Power Data	Running

Items per page: 50 1 - 1 of 1

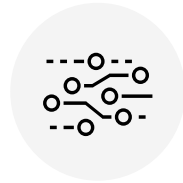


Write data back to
CONNECT

Write-back to CONNECT

Two of many options:

Flows



- No code option
- Visual data pipeline allowing users to connect, process, and act on data from various sources
- Built-in Databricks and CONNECT modules

Custom python code in Databricks



- Databricks notebook
- Can schedule executions
- Python code to send data directly to CONNECT streams or via OMF APIs
- Helpful samples provided on [AVEVA Samples GitHub page](#)

Related Sessions

Plugging In: Integrating CONNECT with the Enterprise Data Stack

Learn how to enable seamless data exchange between plant systems and enterprise cloud platforms such as Databricks, Snowflake and more.

Day 2, May 20 @ 5:00 pm

Amber 2 – Level 2

CONNECT Flows Data Ingress: Bringing Data In, Fast and Easy

Learn how to ingress data into the CONNECT platform using Flows

Day 3, May 21 @ 10:15 am

CONNECT Lounge

CONNECT + Snowflake: Industrial Data, Seamlessly Connected

Learn more about CONNECT integration with Snowflake

Day 2, May 20 @ 3:15 pm

CONNECT Lounge



Join our Early Access Waitlist

Sign up and be the first to see
and experience some of the new
capabilities coming this year.

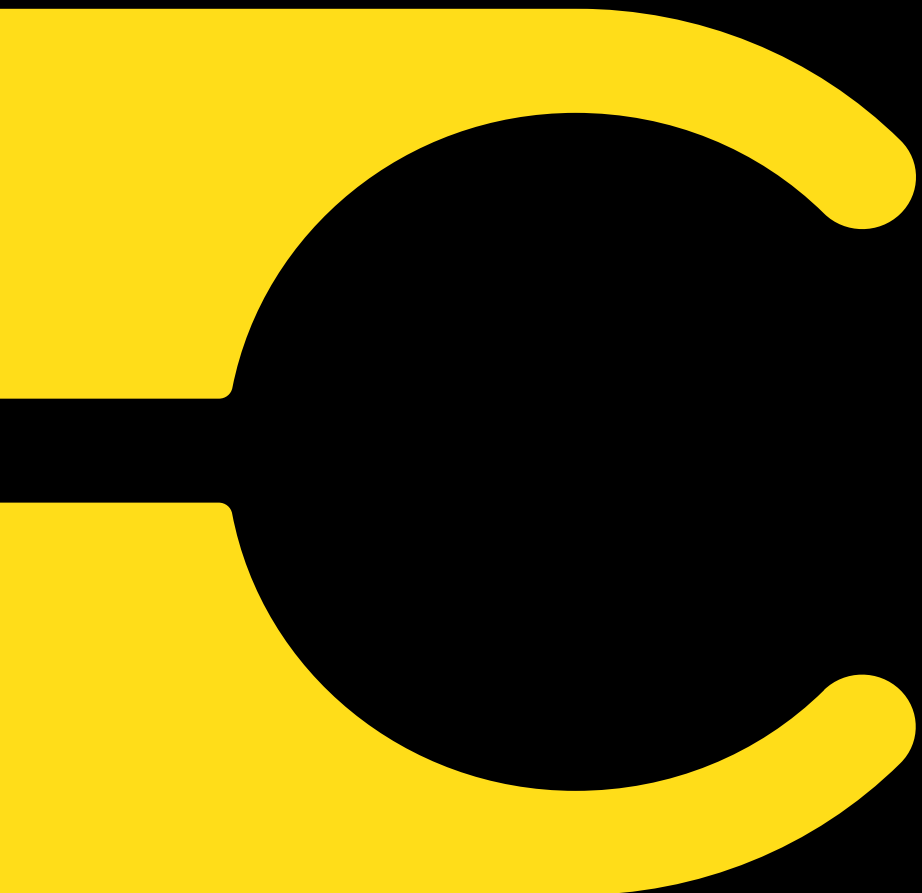
aveva.com/getCONNECT



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.



 [linkedin.com/company/aveva](https://www.linkedin.com/company/aveva)

 [@avevagroup](https://twitter.com/avevagroup)

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