



AVEVAWORLD

ACCELERATE INDUSTRIAL INTELLIGENCE

AVEVA WORLD MILAN, MAY 2026

Weaving a resilient AVEVA connectivity fabric to support every data user

Ellery Murdock

Director, Product Management – PI Hybrid Enablement

AVEVA

AVEVA WORLD MILAN, MAY 2026

Agenda

Weaving a resilient AVEVA
connectivity fabric to support
every data user

Allianz MiCo
Milano

Data collection evolution

Identify your use case

Why AVEVA™ PI Data Infrastructure

Roadmap updates

The hybrid data foundation for AI-ready operations

Everything that comes next

grows from this foundation



AVEVA Edge Data Store

AVEVA PI Server

CONNECT

AVEVA PI Data Infrastructure

AVEVA

Evolve.

Trust.

Expand.

Industrial intelligence

Process optimization

Predictive maintenance

Workforce augmentation

Digital twins

Automation



AVEVA Edge Data Store

AVEVA PI Server

CONNECT

AVEVA PI Data Infrastructure

AVEVA

Why does data collection matter

What data is collected? *What data is useful?*

Prompt:

- How much organizational and industrial data is collected per day throughout the world?

Responses:

- **Copilot:** 403 million terabytes per day
- **ChatGPT:** 400 million terabytes per day
- **Gemini:** 403 million terabytes per day
- **Grok:** 403 million terabytes per day
- **ChatSonic:** Something went wrong. Please try again.

The foundation to your data infrastructure

Data collection *is* data infrastructure

Standardization

Reliability

Foundational

Scalability

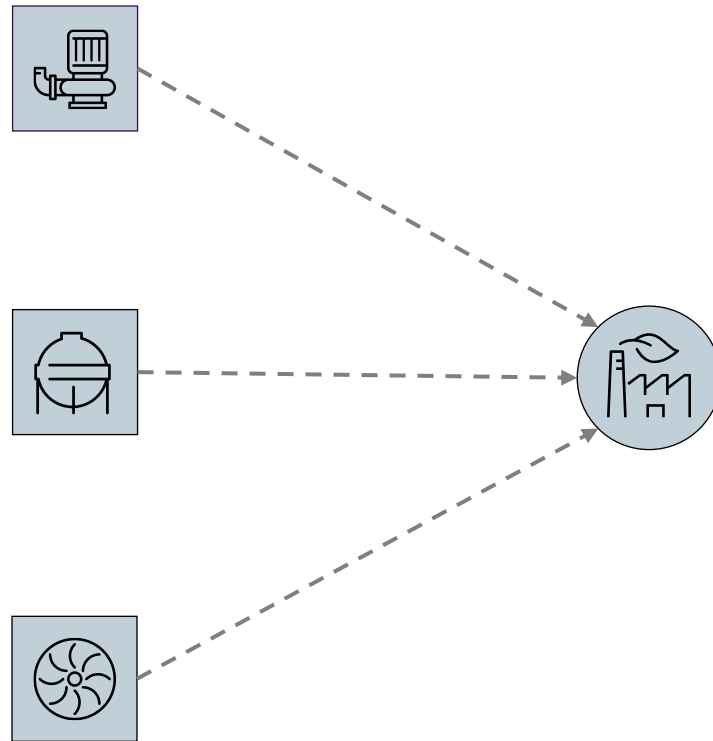
Hybridization

Essential
Protocols

The evolution of data collection

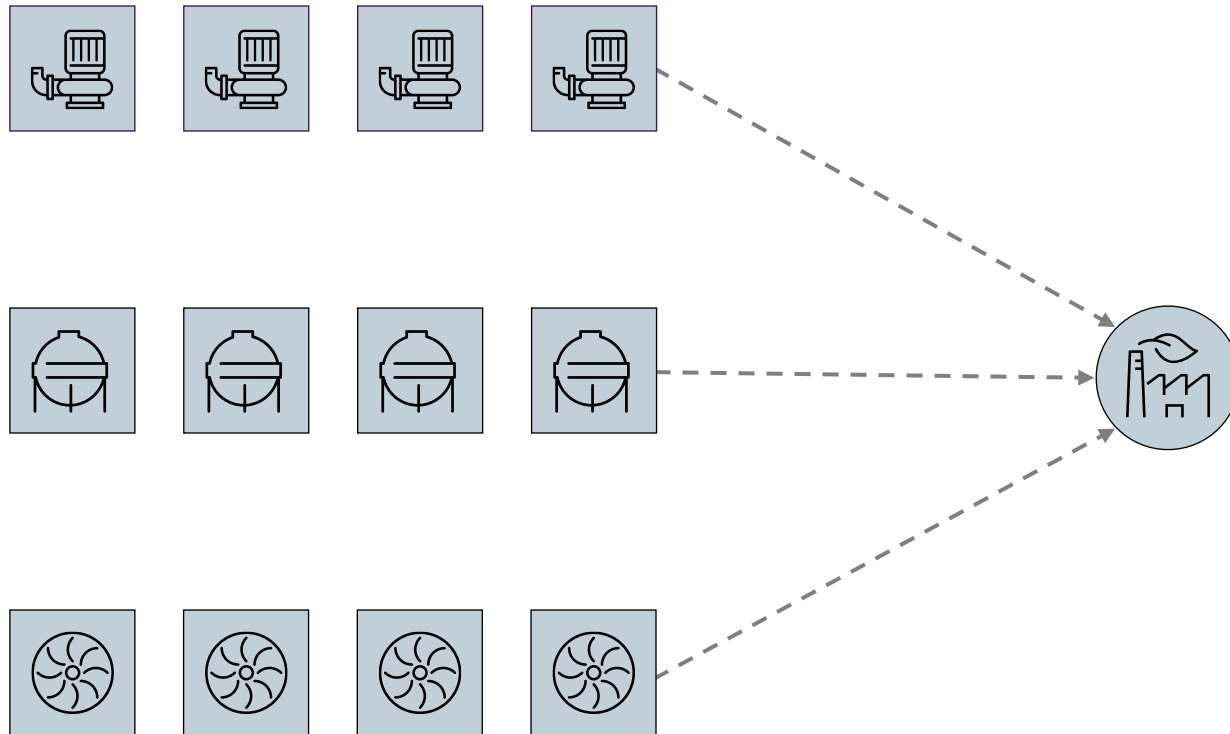
Local data collection

How do we support a single plant?



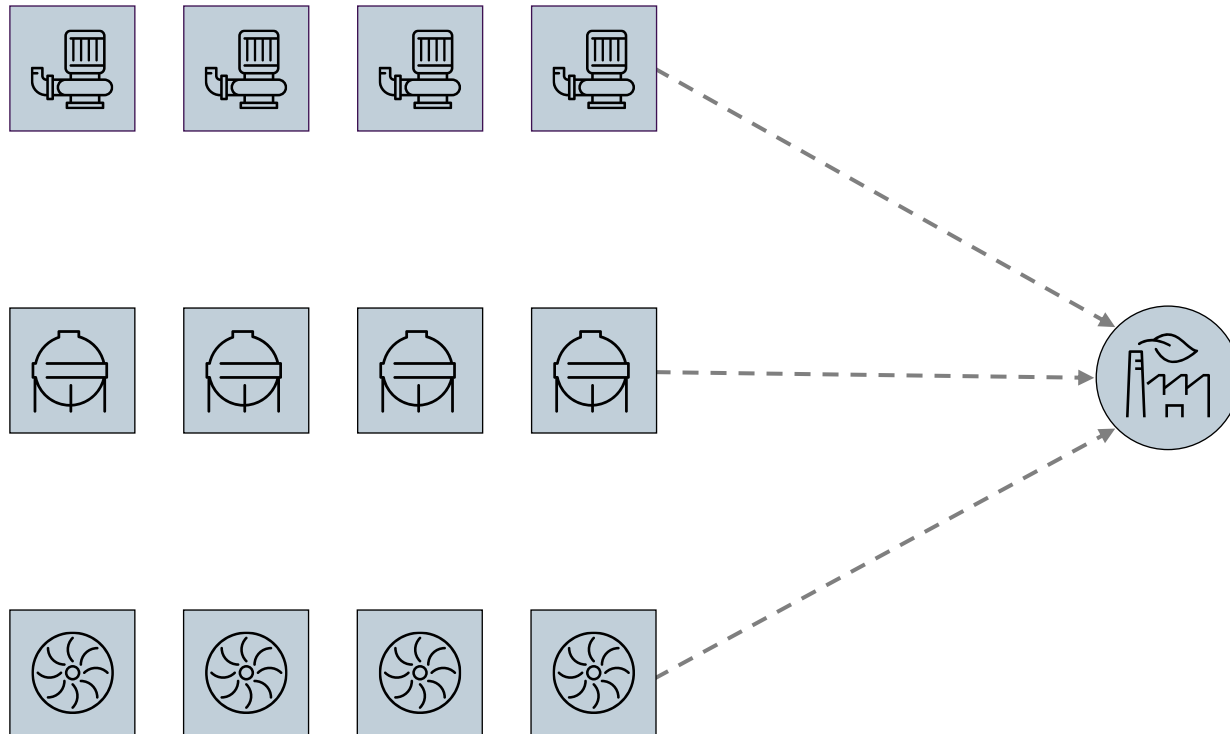
Scaling local data collection

Our system works. How do we grow our ability to make data-driven decisions?



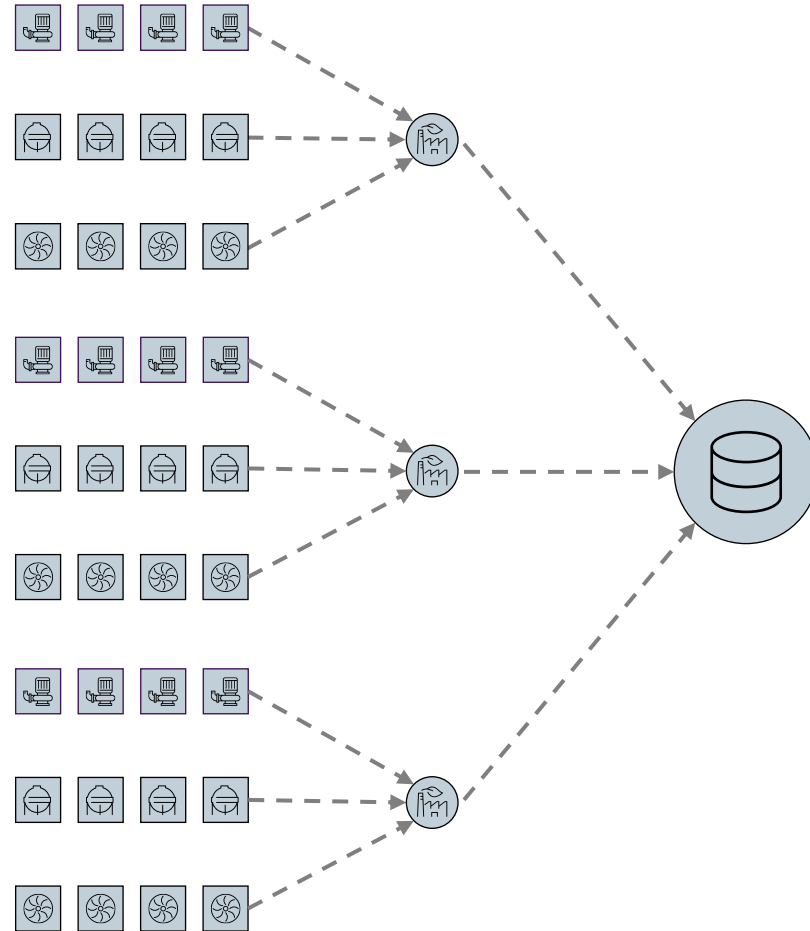
Scaling local data collection

Our system works. How do we grow our ability to make data-driven decisions?



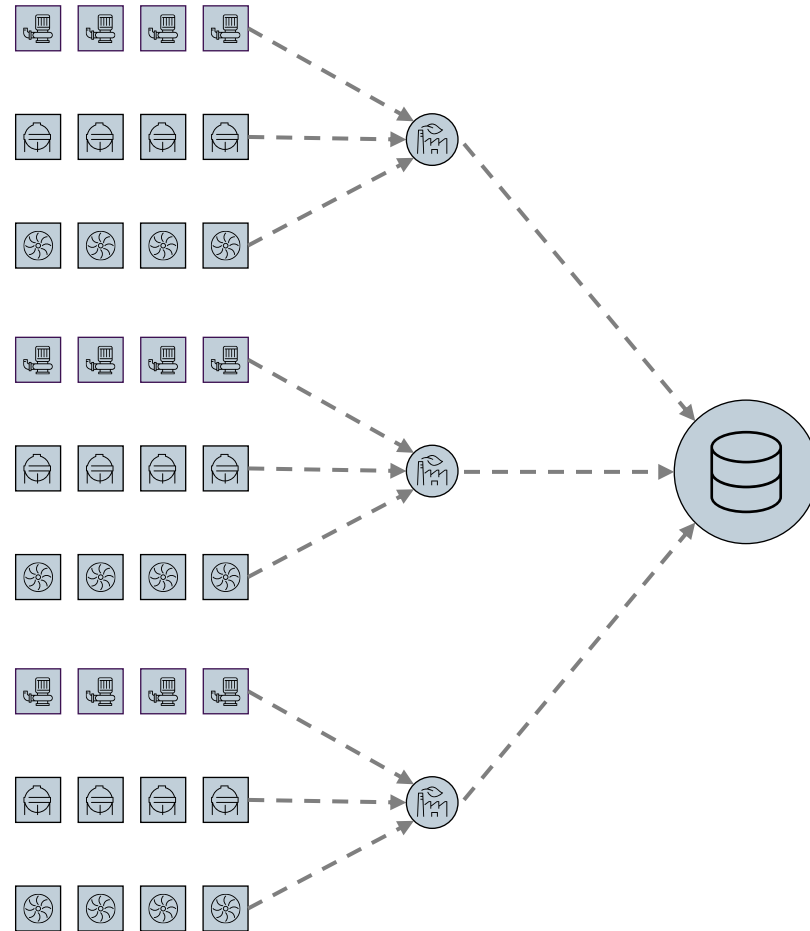
On-prem centralization and aggregation

We need to align across our entire organization. How do we monitor all sites?



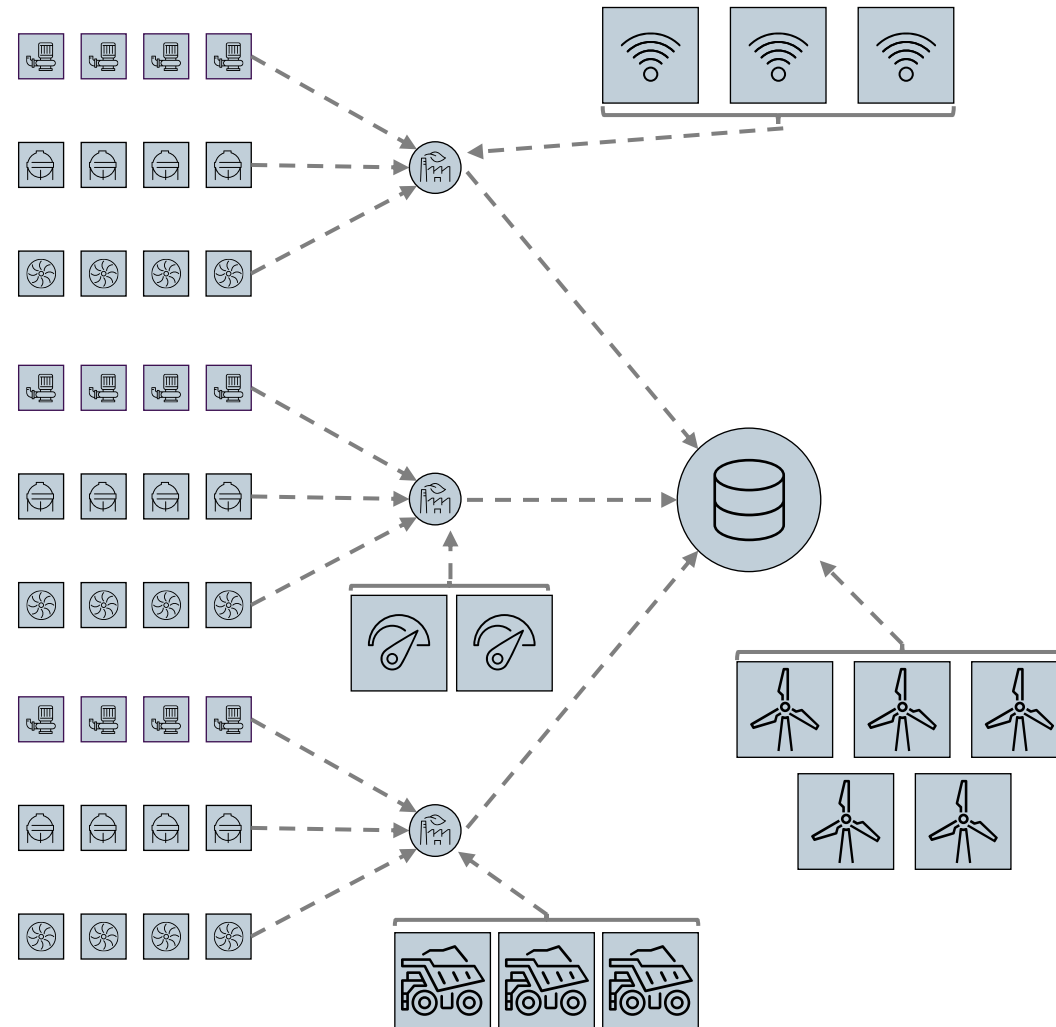
On-prem centralization and aggregation

We need to align across our entire organization. How do we monitor all sites?



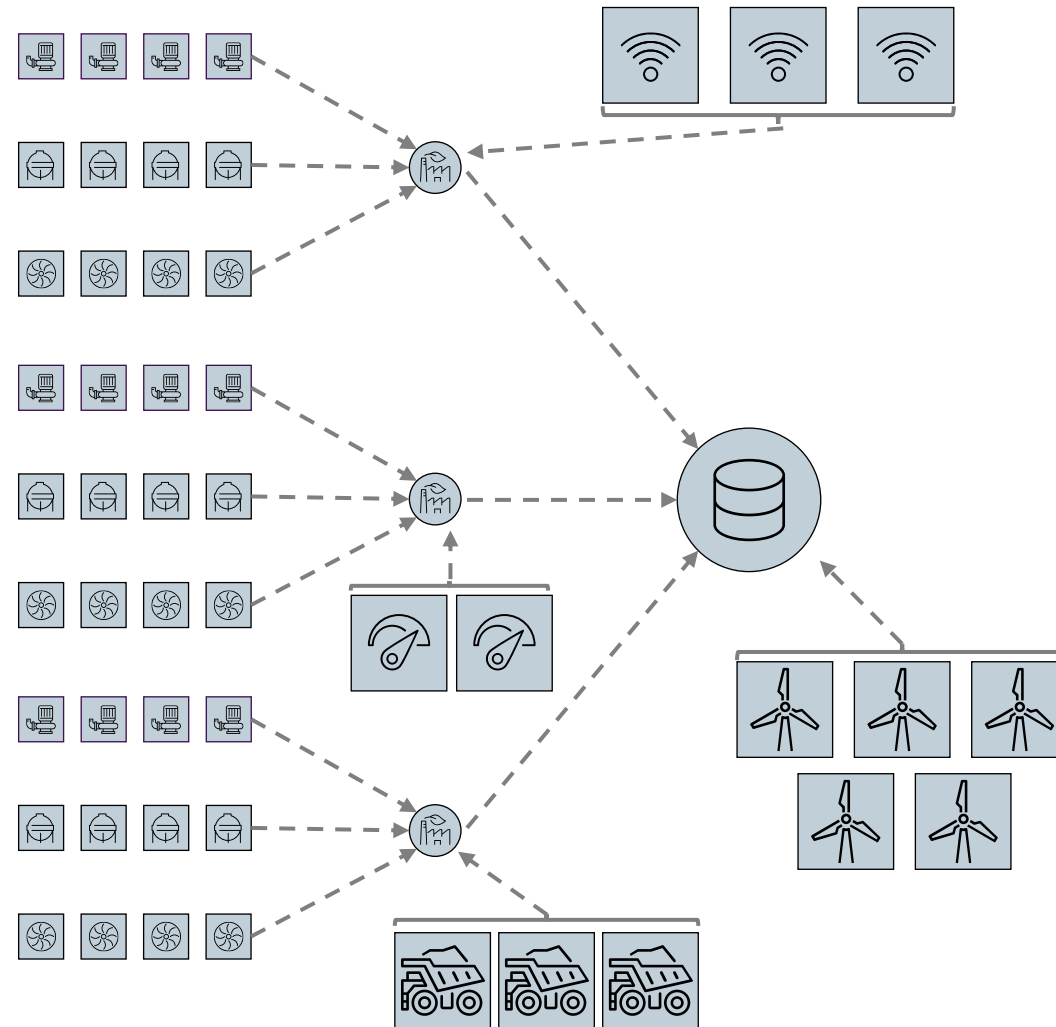
Push to the edge and support IoT data collection

How do we collect data from *all* data sources – even the hard-to-reach ones?



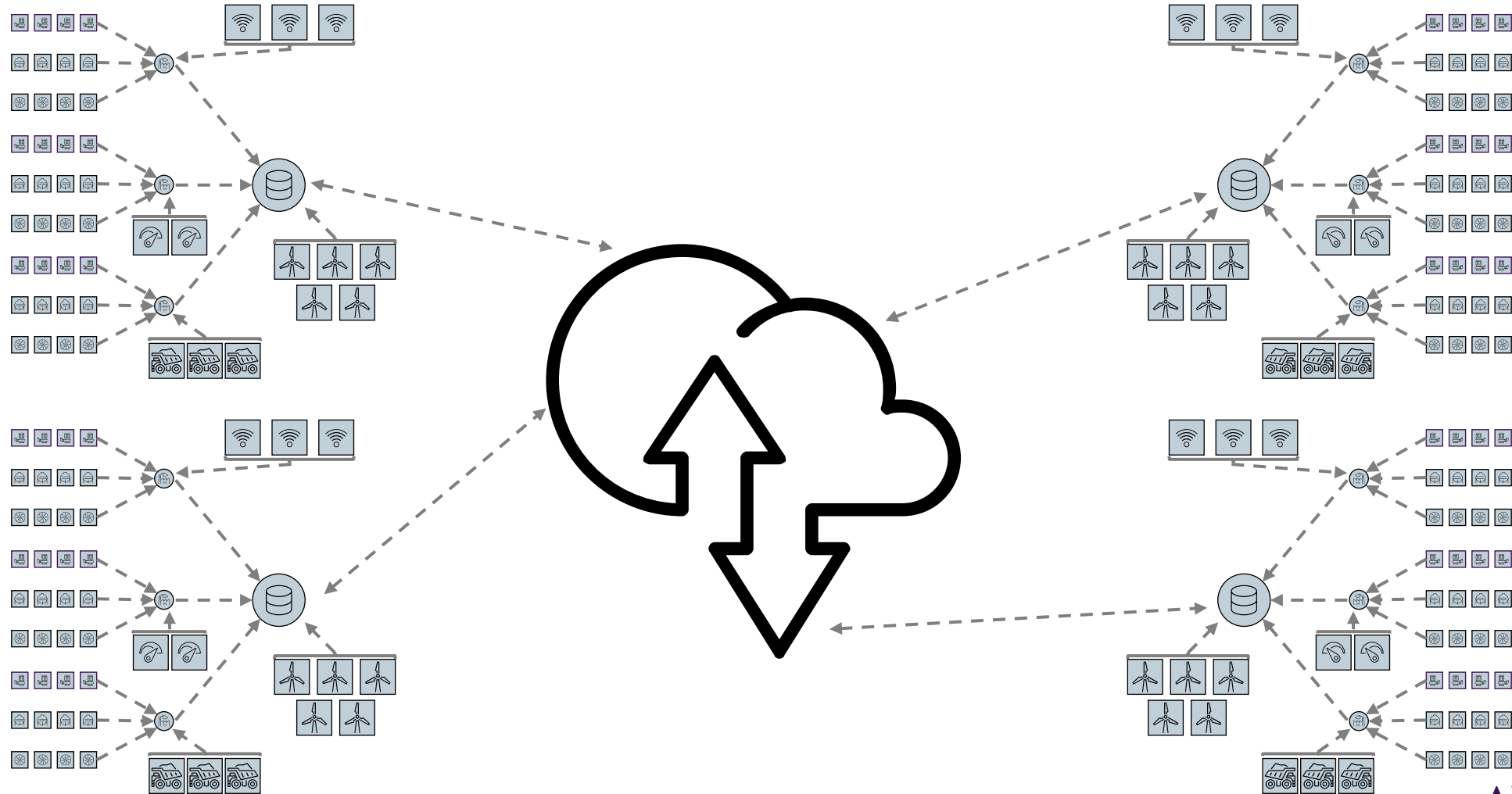
Push to the edge and support IoT data collection

How do we collect data from *all* data sources – even the hard-to-reach ones?



Cloud integration and scale for the ecosystem

How can we scale further to collect and share data from partners, customers, and vendors?



The foundation to your data infrastructure

Data collection *is* data infrastructure

Standardization

Reliability

Foundational

Scalability

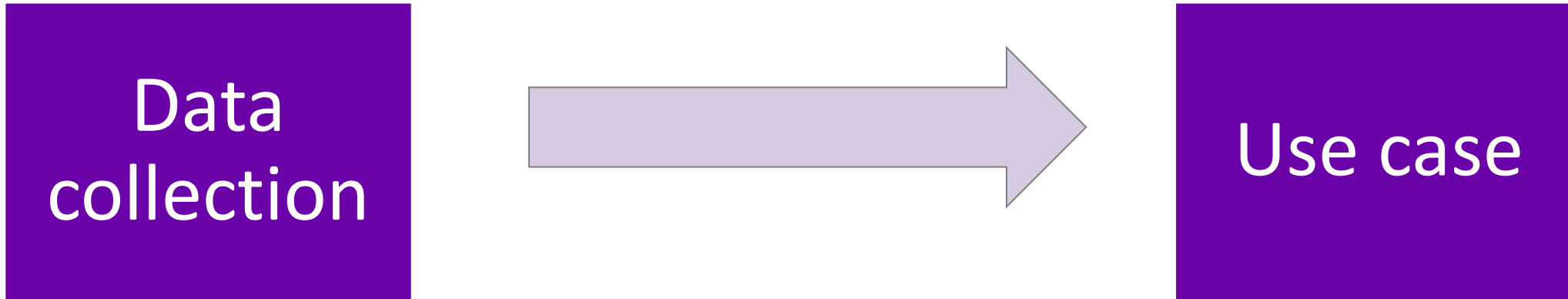
Hybridization

Essential
Protocols

Build your data foundation

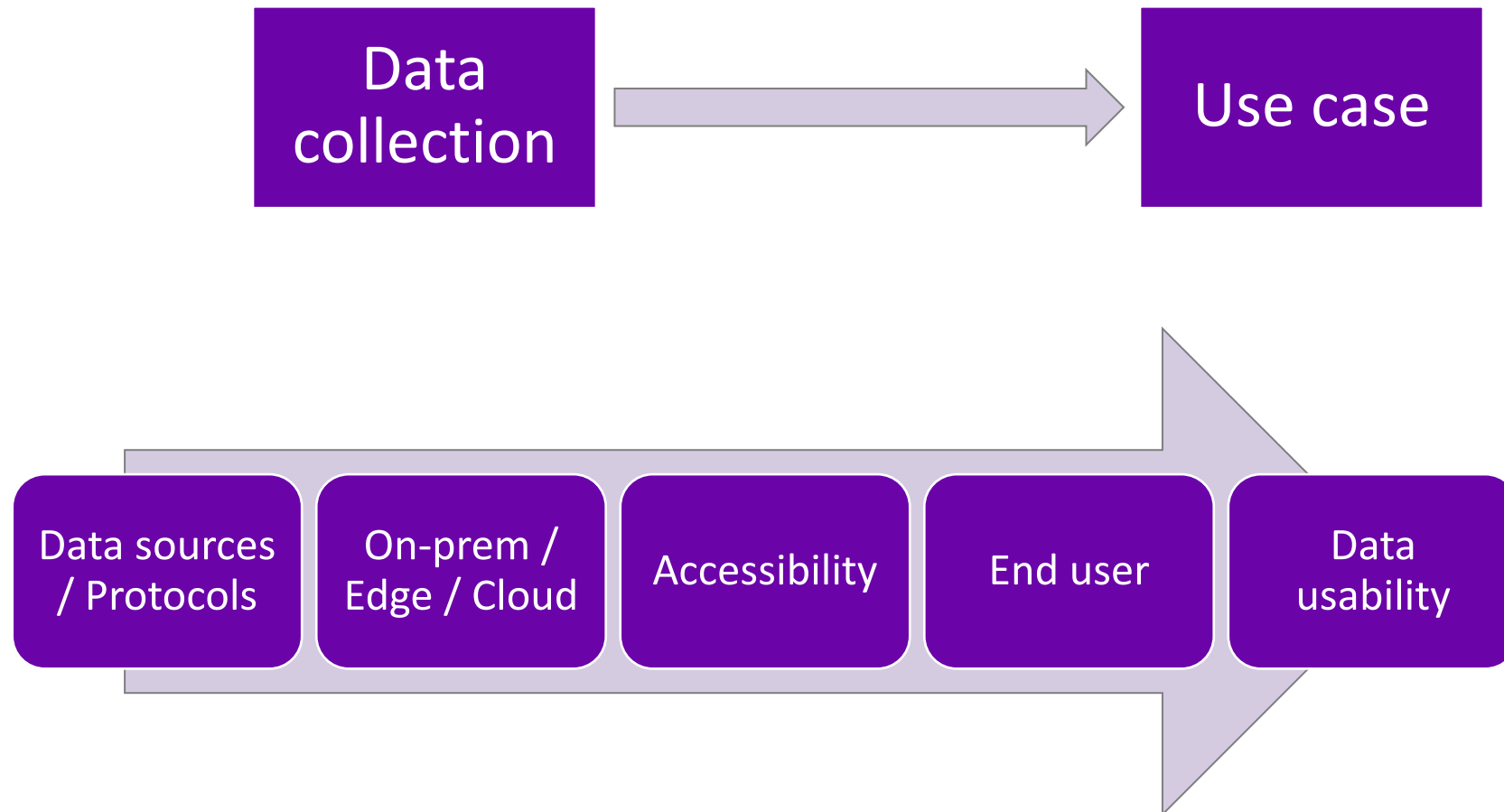
Start with your use case

What do you need from your data infrastructure?



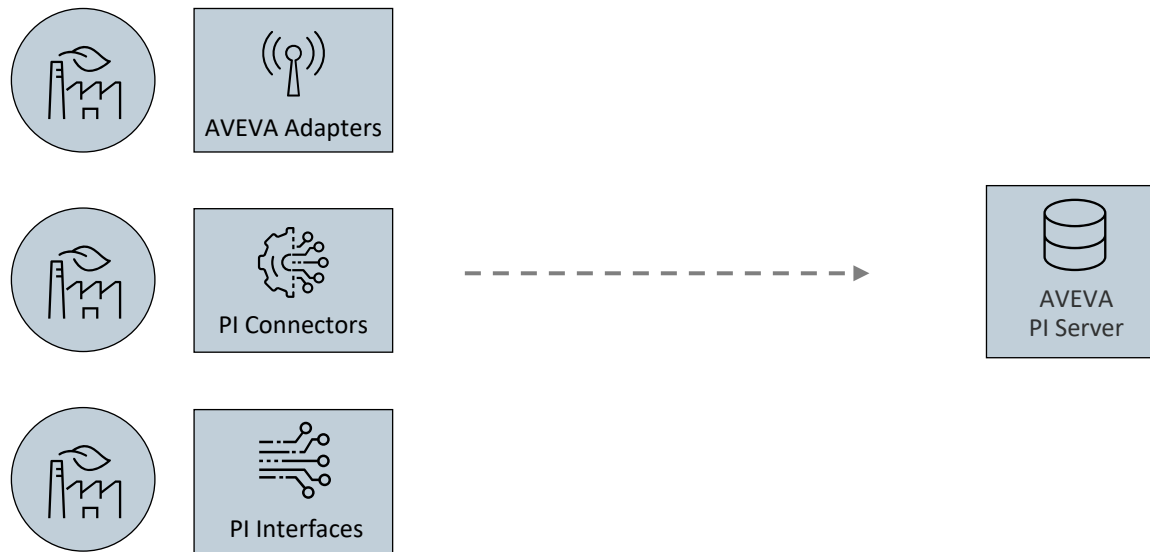
Start with your use case

What do you need from your data infrastructure?



Local on-prem data collection

Interfaces / Connectors / Adapters → PI Server



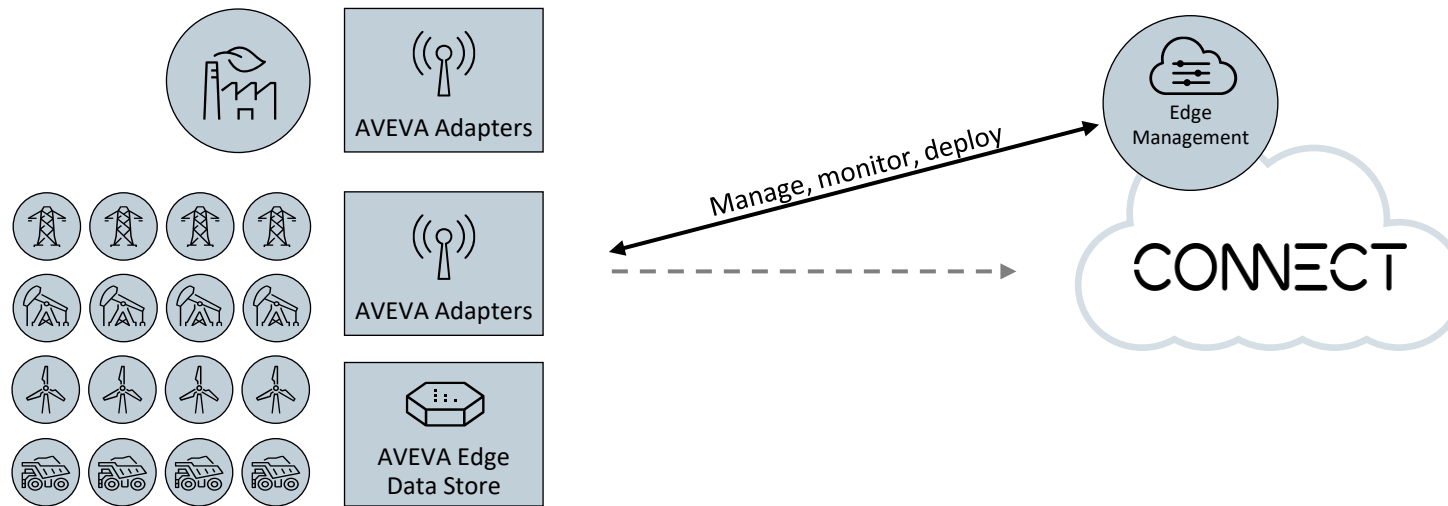
Local on-prem data collection

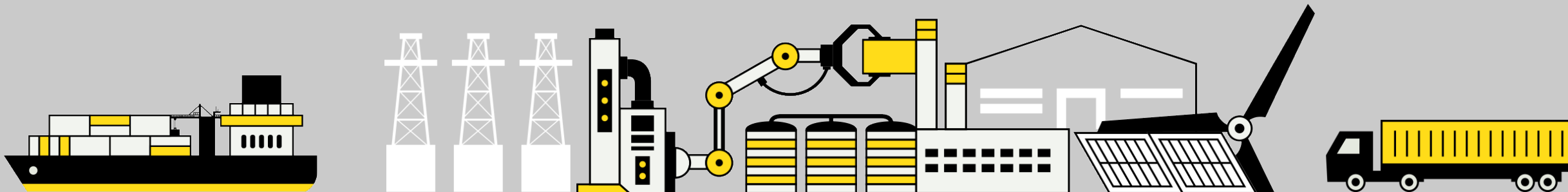
What are Interfaces, Connectors, and Adapters?

	Adapters	Connectors	Interfaces
Operating system	Windows/Linux	Windows	Windows
Data destination	PI Server / CONNECT	PI Server	PI Server
PI Tag creation	Automatic	Automatic	Manual
Element creation	Health	Automatic	N/A
Failover support	Adapter-level (7 protocols) Server-level (3 protocols)	OPC UA	UniInt Failover
Key protocols	OPC UA, MQTT, Modbus TCP, RDBMS, SDF, DNP3, BacNet, Azure Event Hubs	OPC UA, MQTT Sparkplug, PI System, UFL, Ethernet/IP, 61850, etc.	OPC DA, OPC HDA, DNP3, RDBMS, UFL, Perfmon, SNMP, etc.

Remote data collection

Adapters / Edge Data Store → CONNECT





CONNECT

Unifying the industrial ecosystem with data, AI and deep domain expertise for greater sustainability and efficiency

TRUSTED INTELLIGENCE

Single source of truth
for proven applications

ACTIONABLE INSIGHT

Closing the loop for
real-world impact

UNIFIED EXPERIENCE

Hundreds of perspectives.
One shared reality.

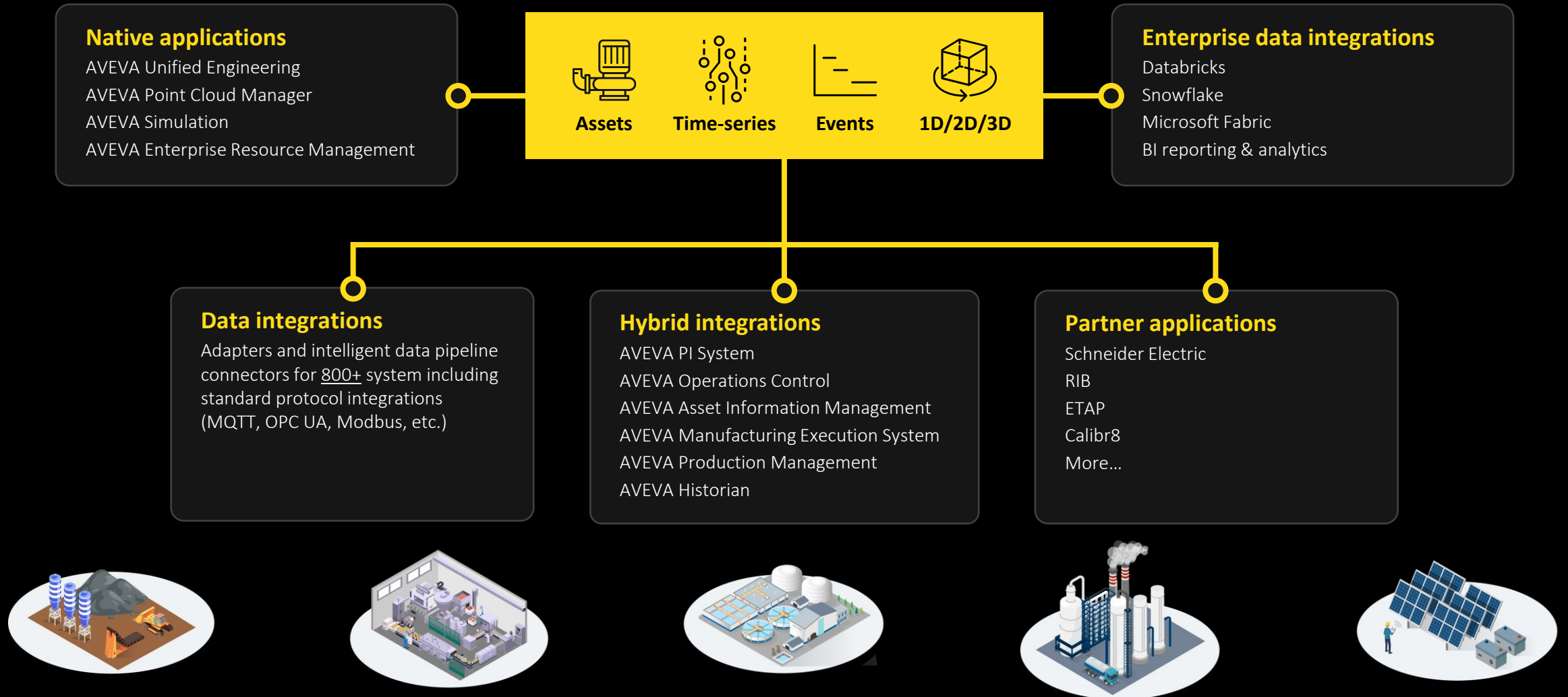
EMPOWERED ECOSYSTEM

Accelerating collaboration
across the value chain

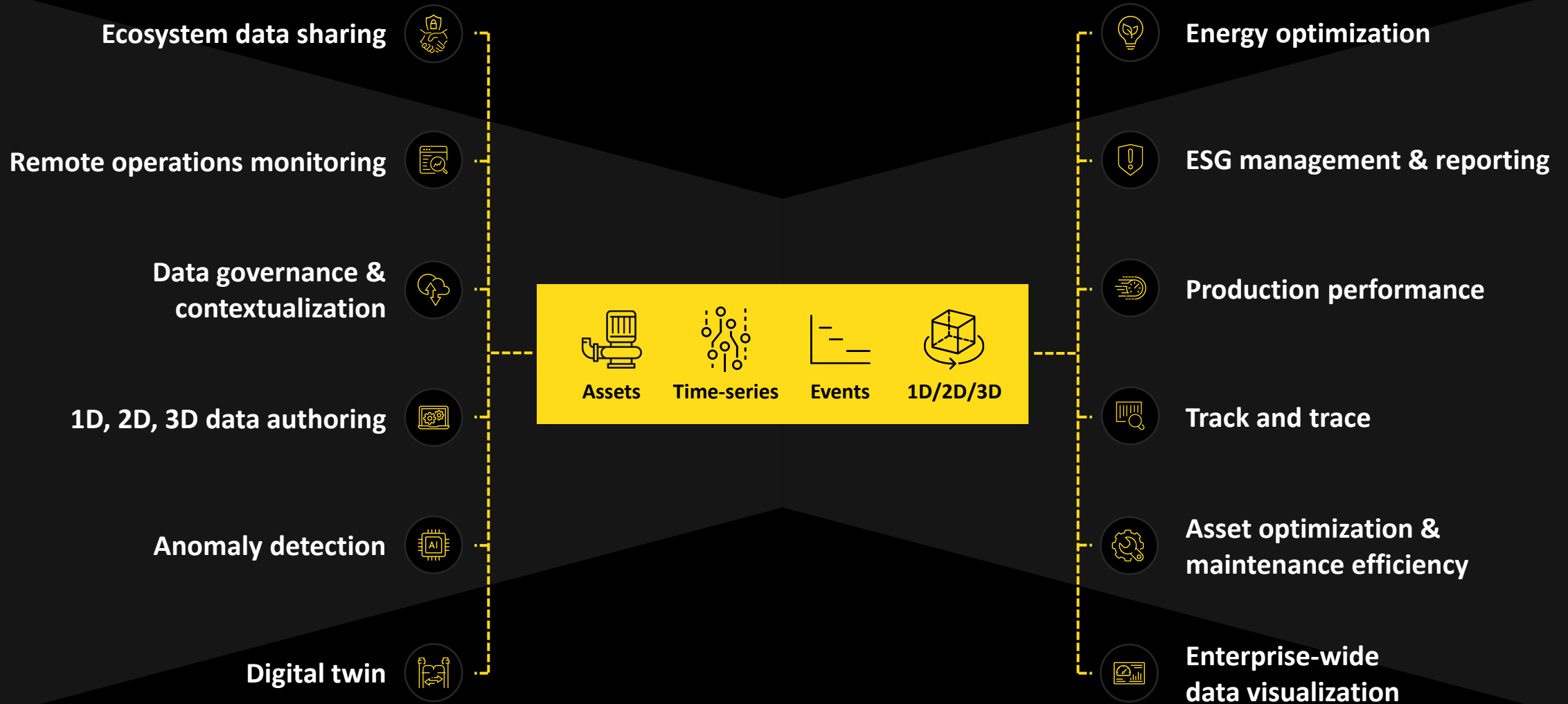


CONNECT

Data foundation for multi-site & system centralization



Data foundation for unlocking impactful outcomes



Remote data collection

What is AVEVA Edge Data Store? How does AVEVA Edge Management work?

AVEVA Edge Data Store

Flexible storage at the edge of your operations

- Operating System: Windows / Linux
- Data Destination: PI Server / CONNECT
- Internal Capabilities: Hosts OMF endpoint
- Inbound Connectivity:
 - Bundled with OPC UA and Modbus TCP adapter
 - AVEVA Adapters
 - Custom connectivity via OMF endpoint

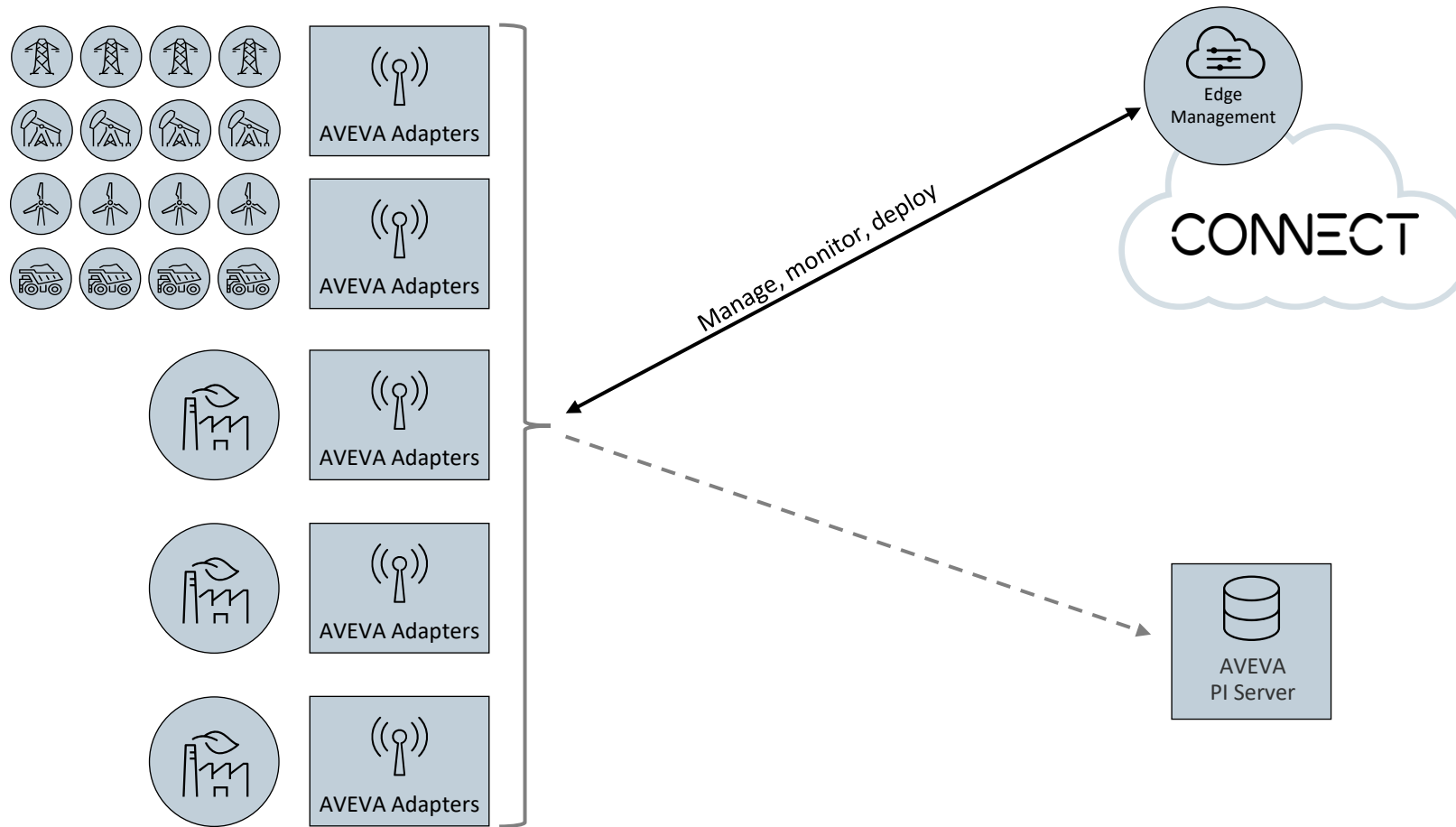
AVEVA Edge Management

Remotely deploy, update, manage, and monitor AVEVA Adapters and AVEVA Edge Data Store

- Creation of digital twin
- Enables remote software installation, configuration, and version control
- Utilize configuration templates for scalability
- Lowers total cost of ownership / increases usability

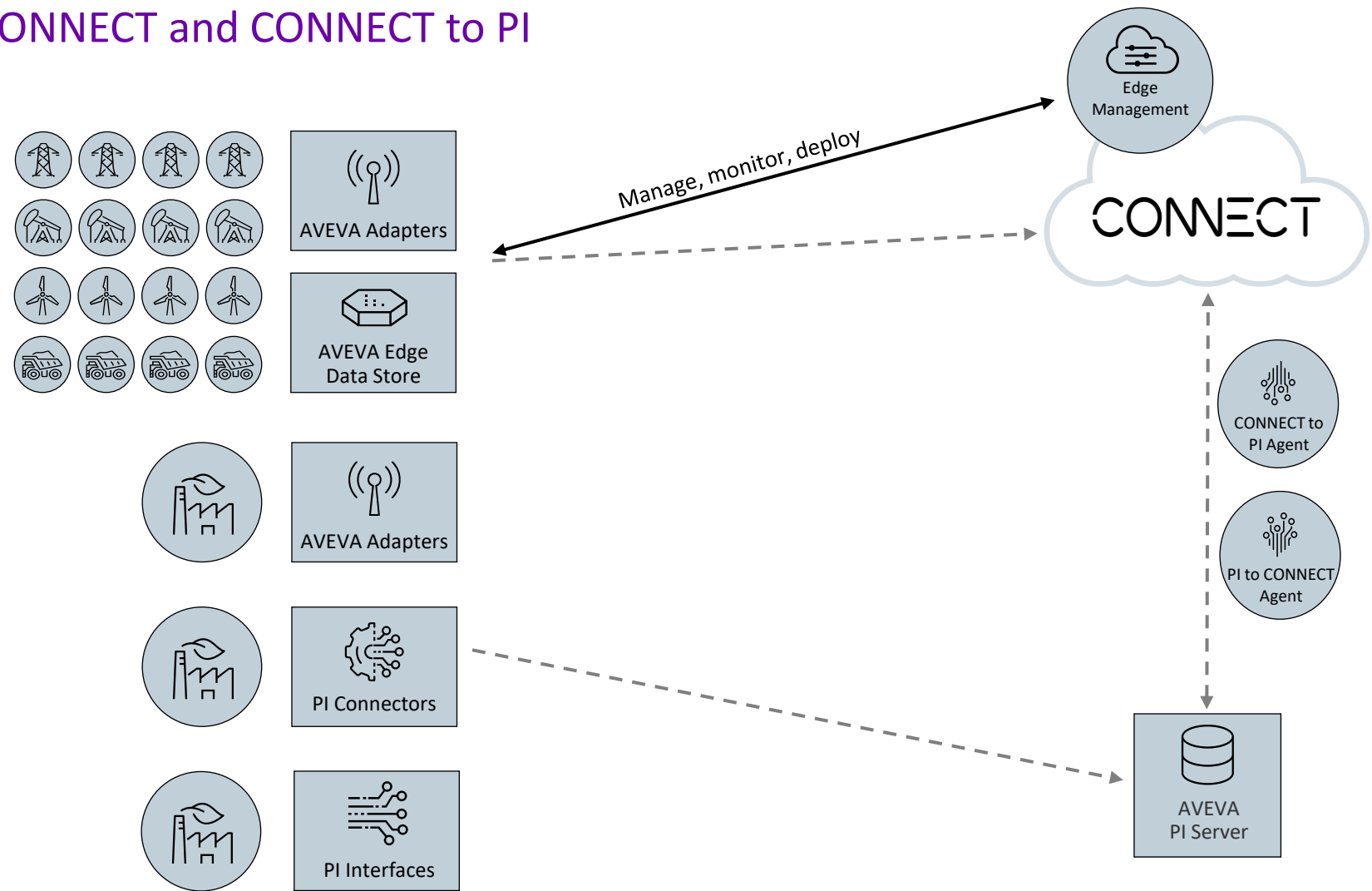
Manage on-prem connectivity from a central location

Adapters (featuring Edge Management) → PI Server



Hybrid interconnectivity with PI Agents

PI to CONNECT and CONNECT to PI

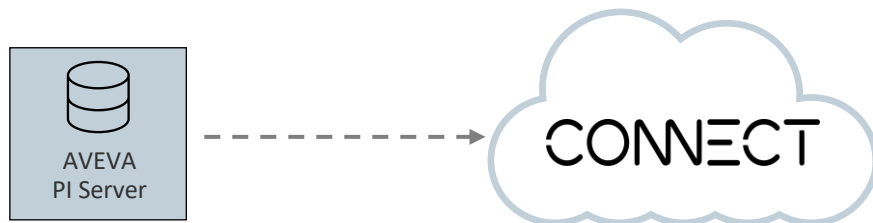


Hybrid interconnectivity with PI Agents

What use cases are enabled by sharing data between on-prem and cloud environments?

PI to CONNECT

- Transfer data from PI Server to CONNECT
 - Auto-sync PI Tags, assets, and values
 - Stream real-time data
 - Perform history recovery
- Track transfer health and status
- Report usage for aggregate tag customers



CONNECT to PI

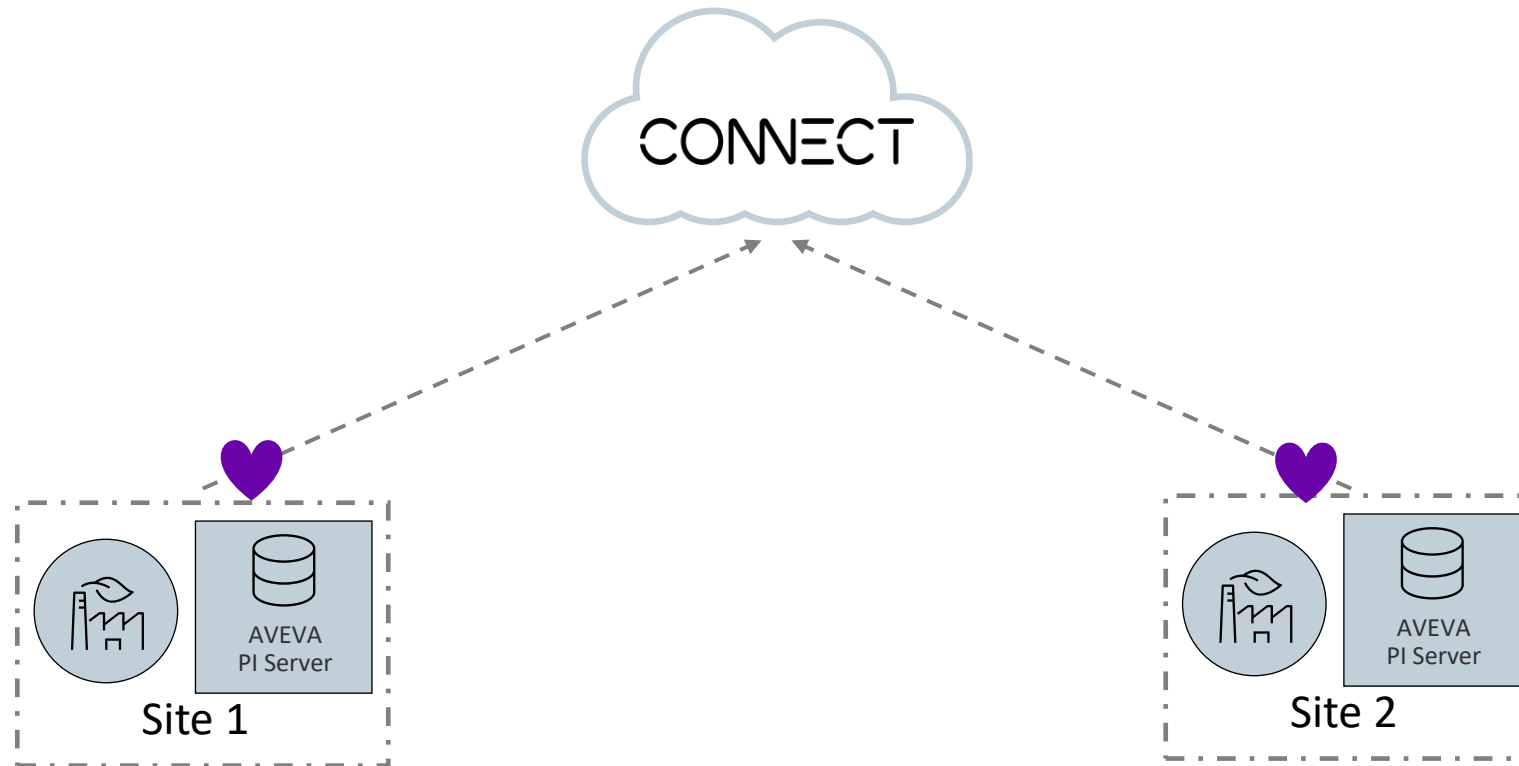
- Transfer data from CONNECT streams to PI Tags
 - Auto-sync CONNECT streams
 - Stream real-time data
 - Perform history recovery
- Track transfer and health status
- Authenticate via OIDC, Kerberos or basic

Communities



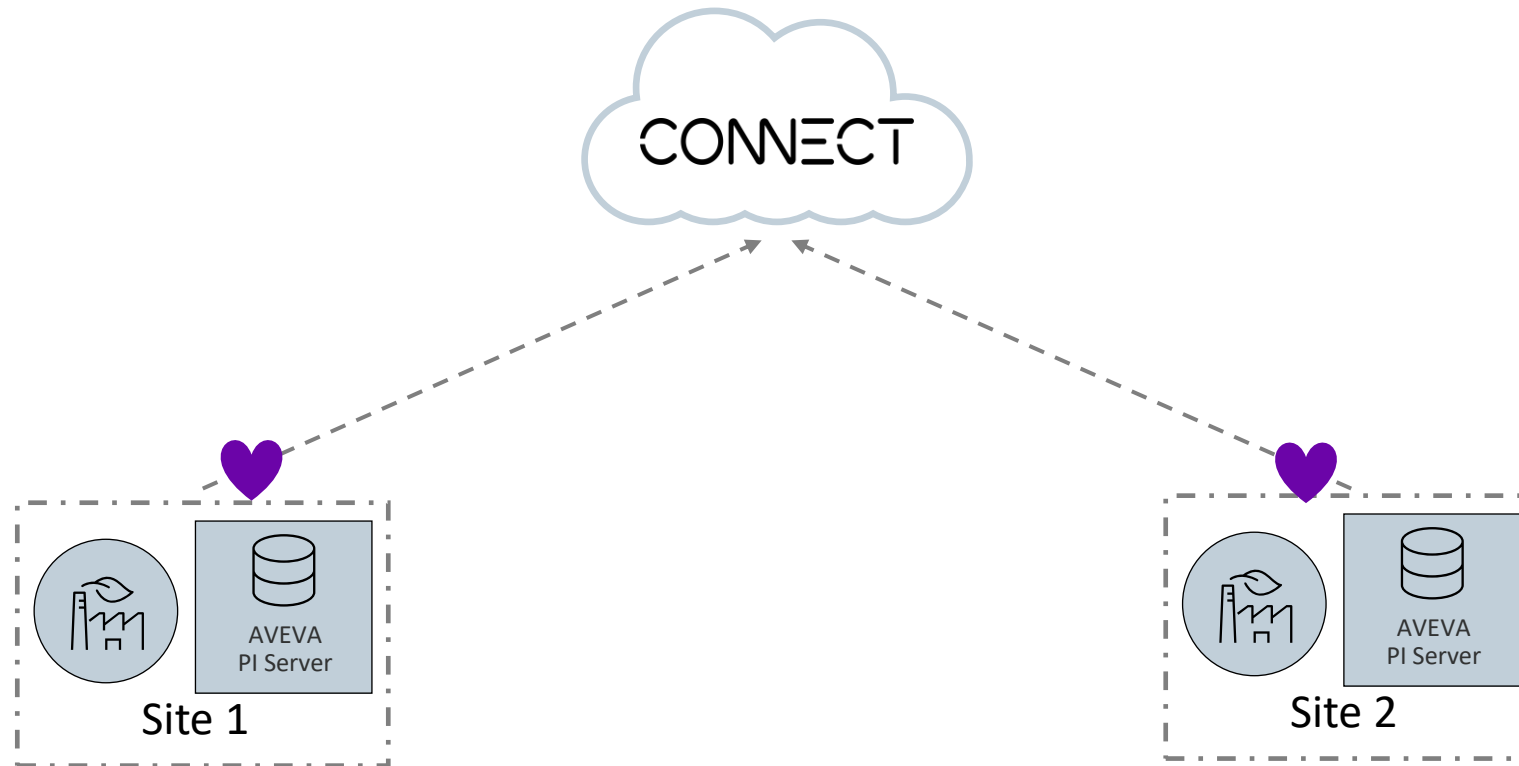
Enabling aggregate tag licensing model

Leverage PI to CONNECT to report usage statistics to CONNECT



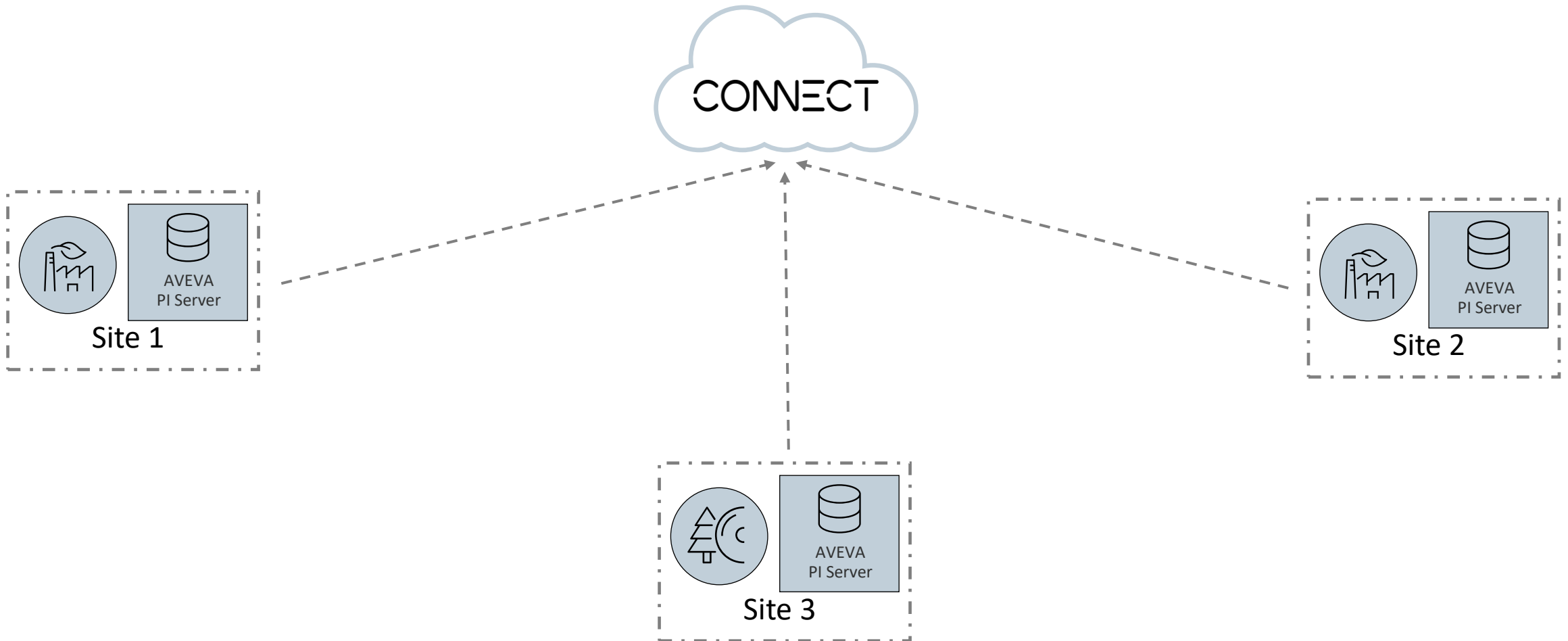
Enabling aggregate tag licensing model

Leverage PI to CONNECT to report usage statistics to CONNECT



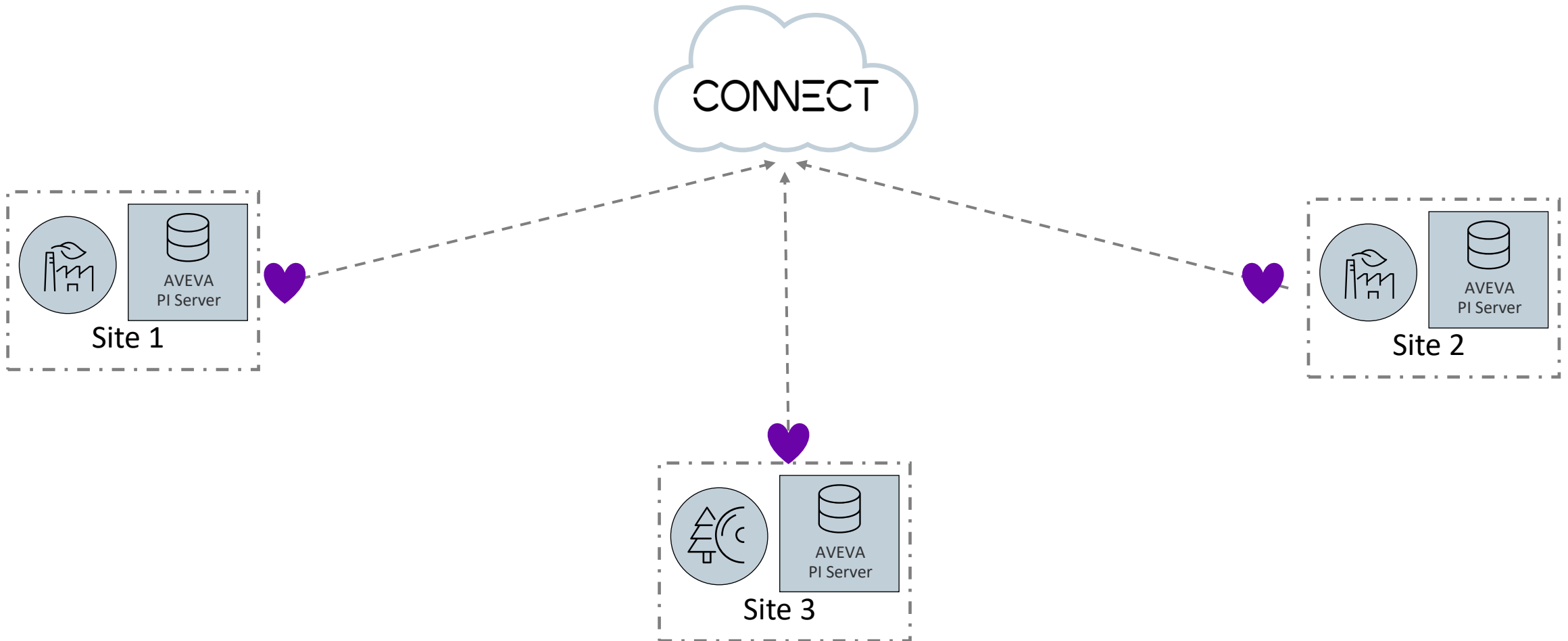
Enabling aggregate tag licensing model

Leverage PI to CONNECT to report usage statistics to CONNECT



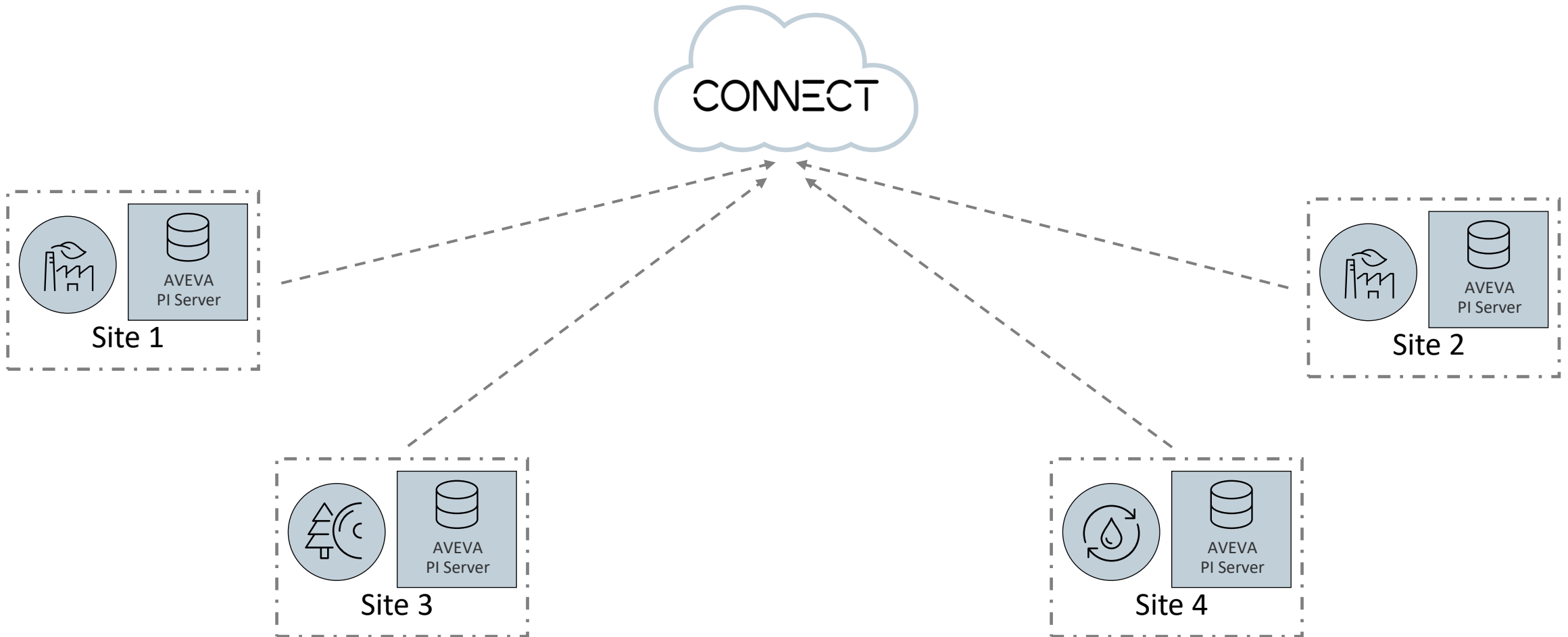
Enabling aggregate tag licensing model

Leverage PI to CONNECT to report usage statistics to CONNECT



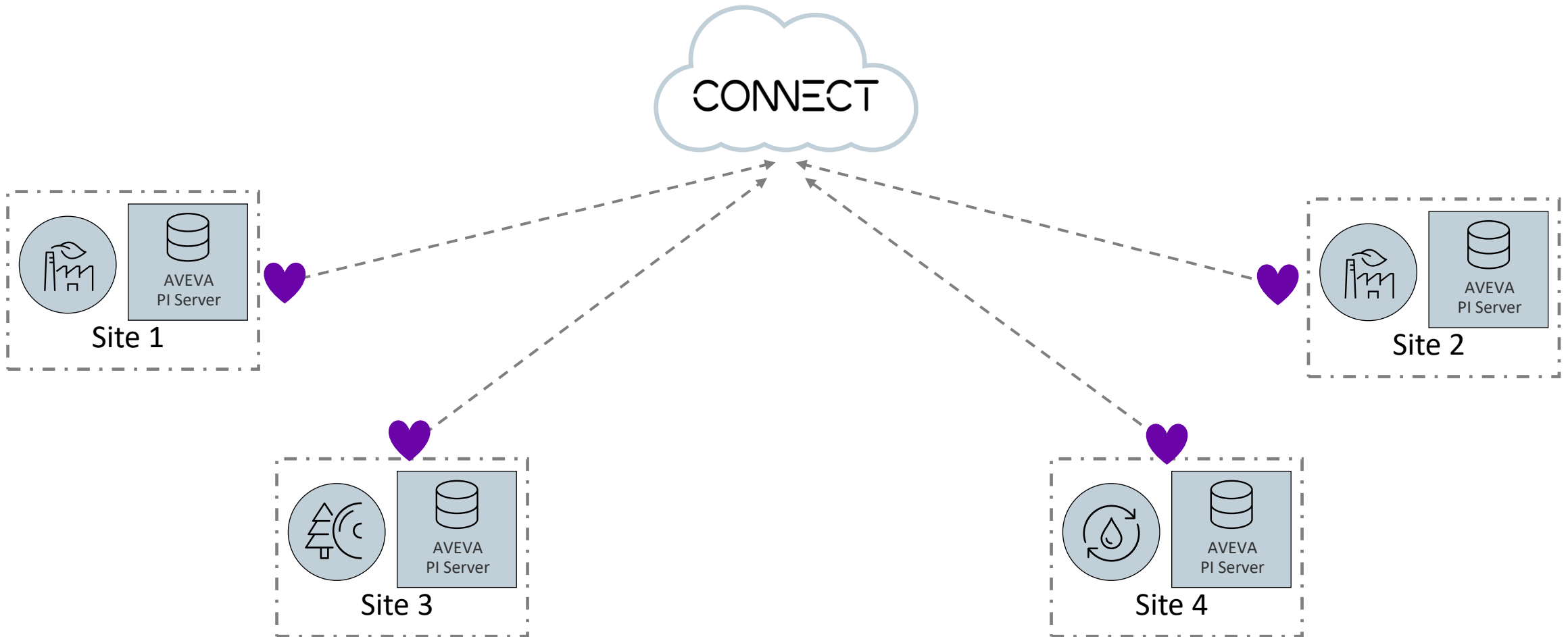
Enabling aggregate tag licensing model

Leverage PI to CONNECT to report usage statistics to CONNECT



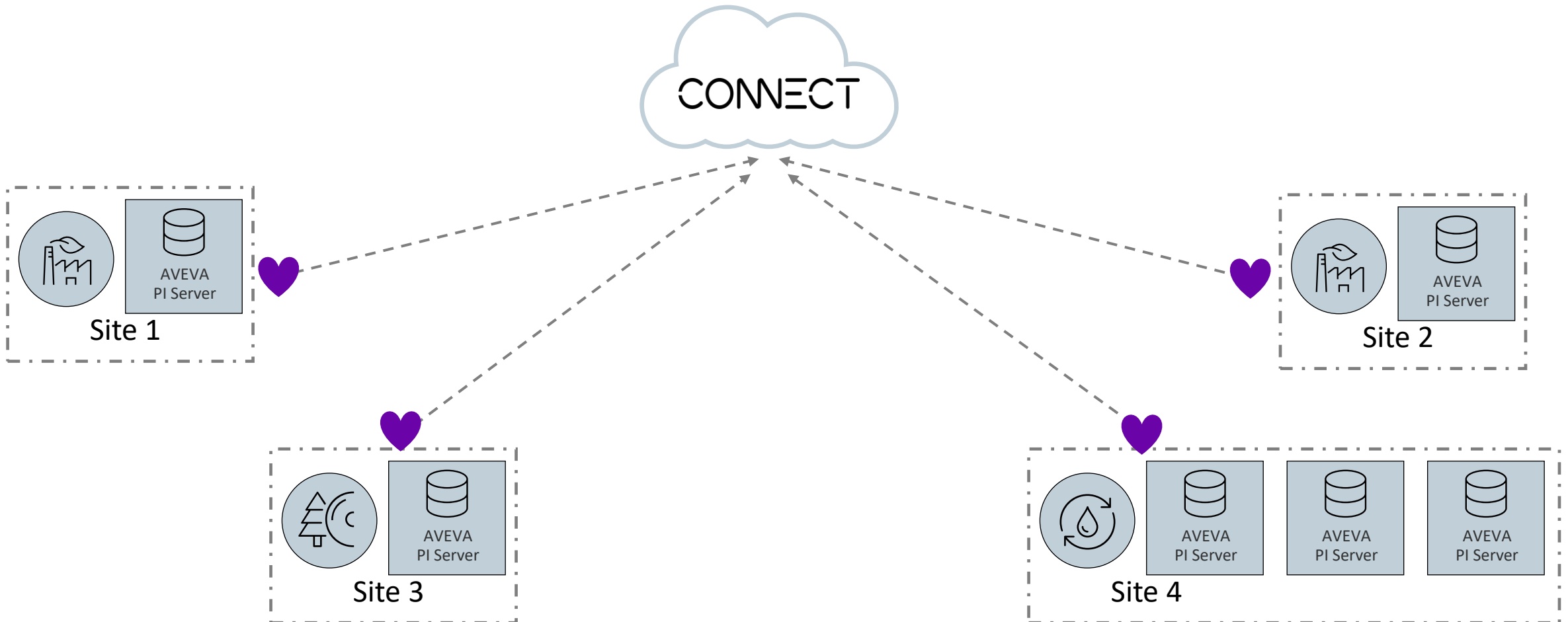
Enabling aggregate tag licensing model

Leverage PI to CONNECT to report usage statistics to CONNECT



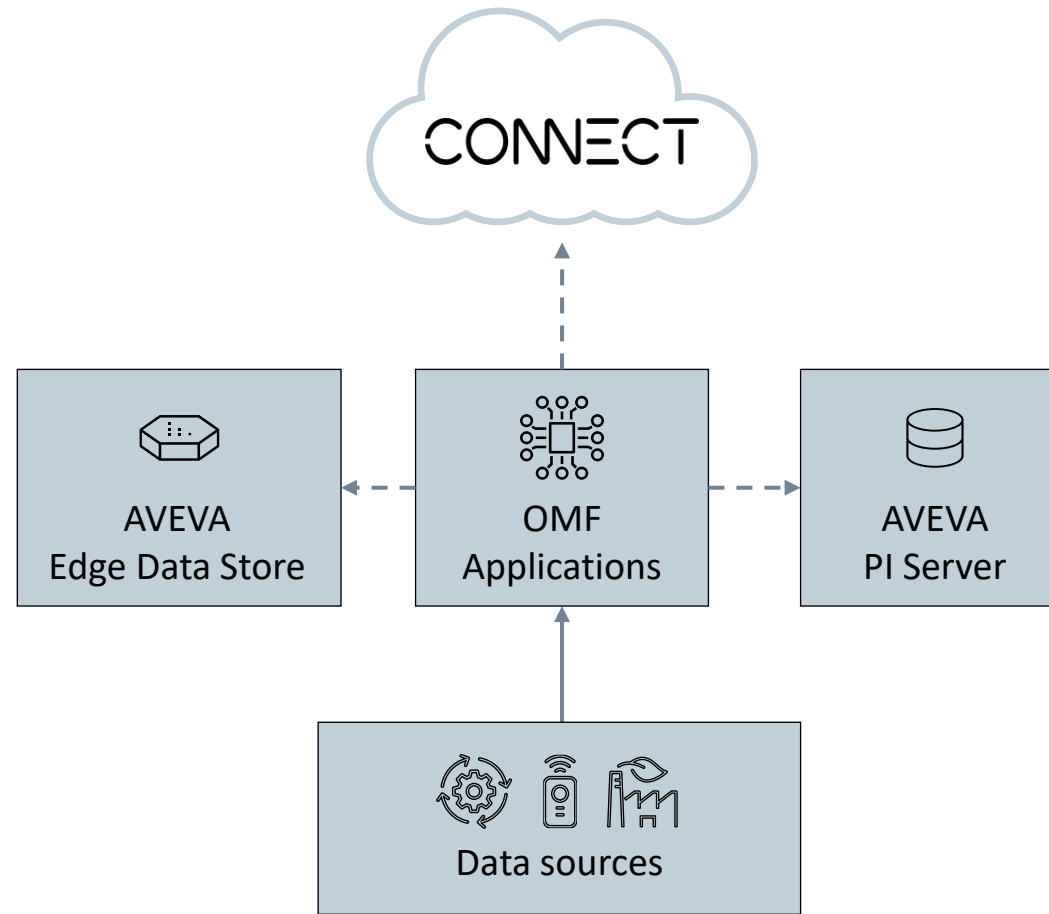
Enabling aggregate tag licensing model

Leverage PI to CONNECT to report usage statistics to CONNECT



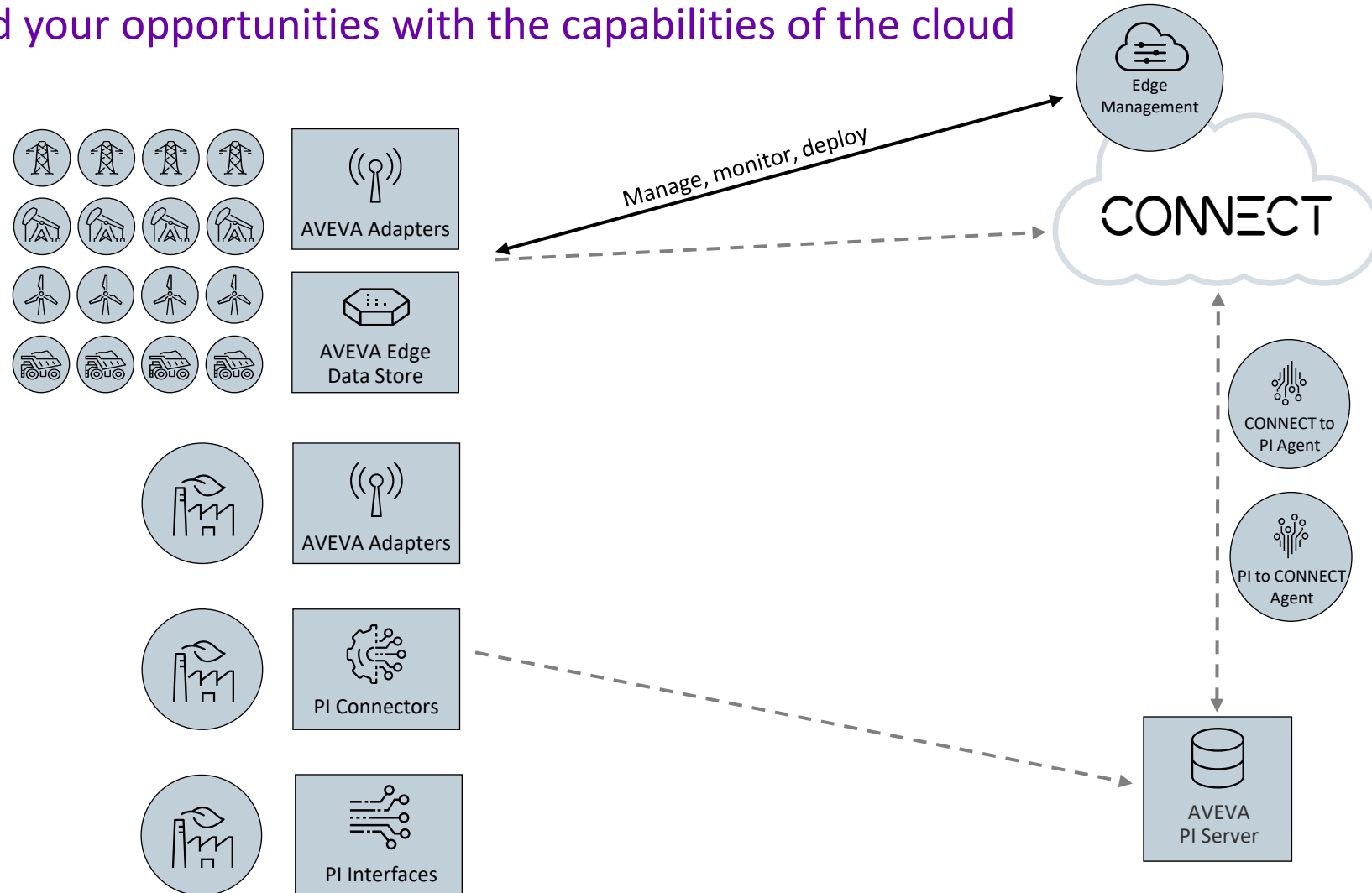
Homogenous connectivity to AVEVA systems

Open Message Format (OMF) | Scalable application development spanning edge-to-cloud



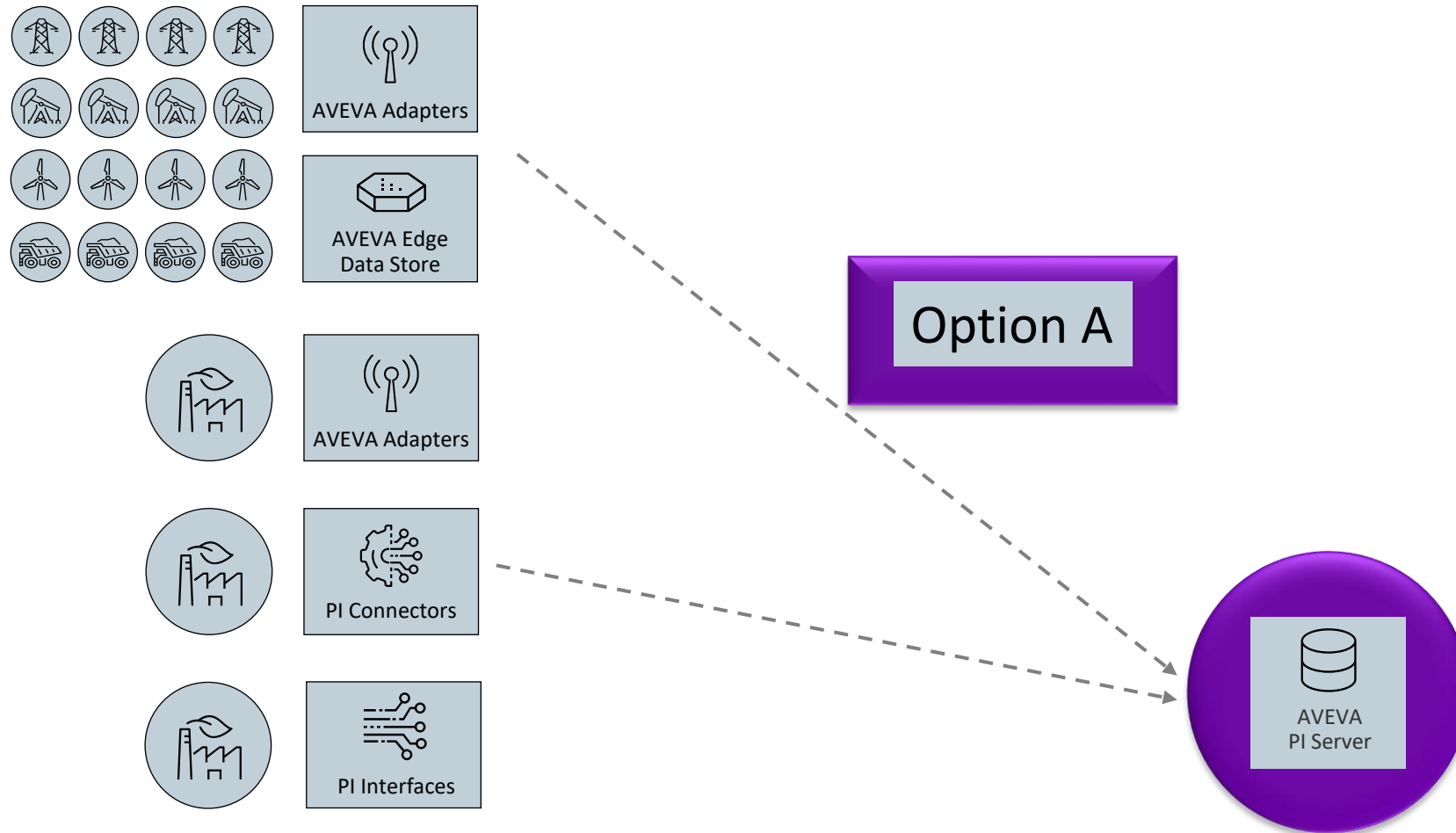
Unlock the power of AVEVA PI Data Infrastructure

Expand your opportunities with the capabilities of the cloud



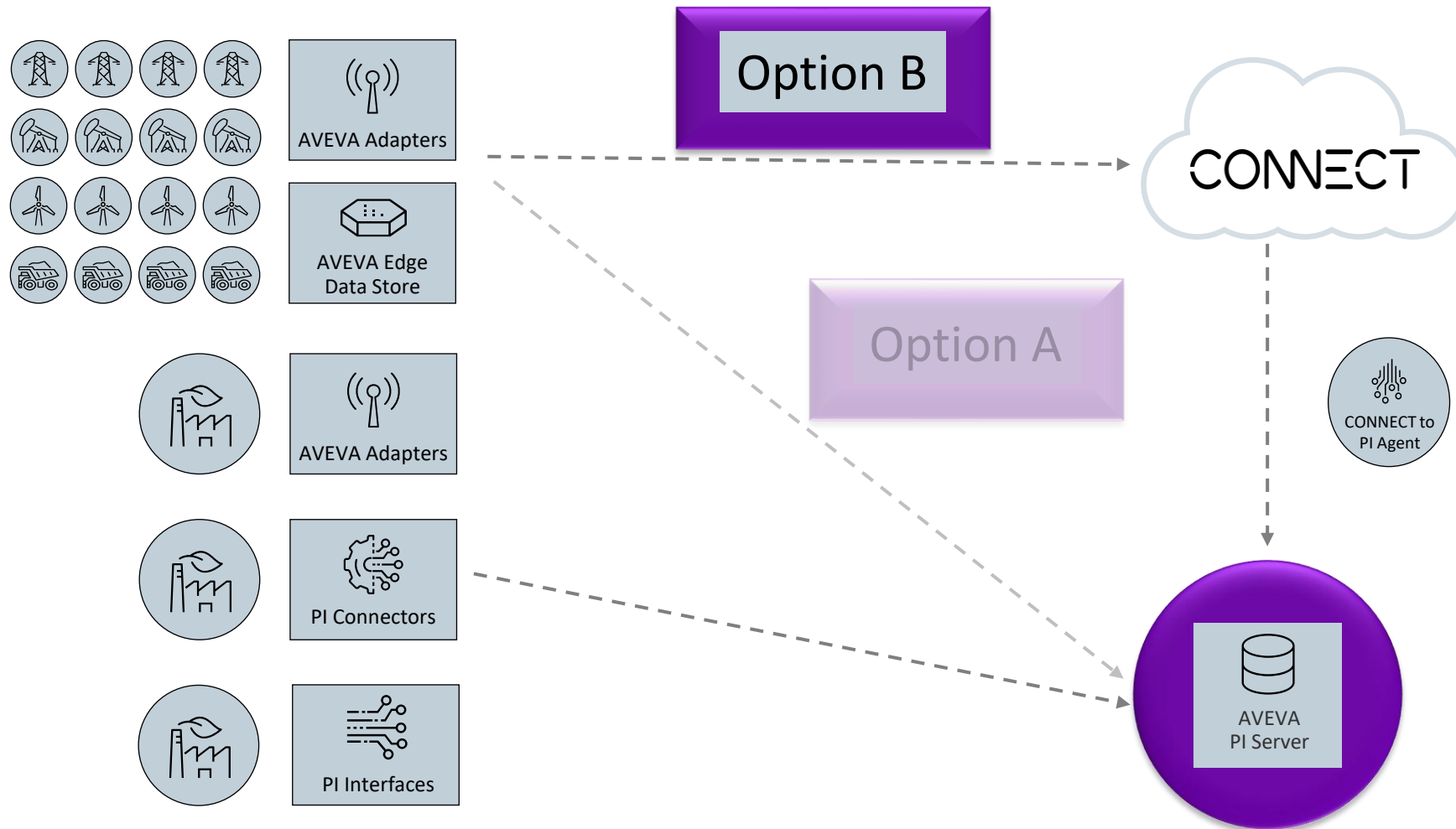
Complex PI Server use cases

Meet data where it's made. Send data to where it's most useful.



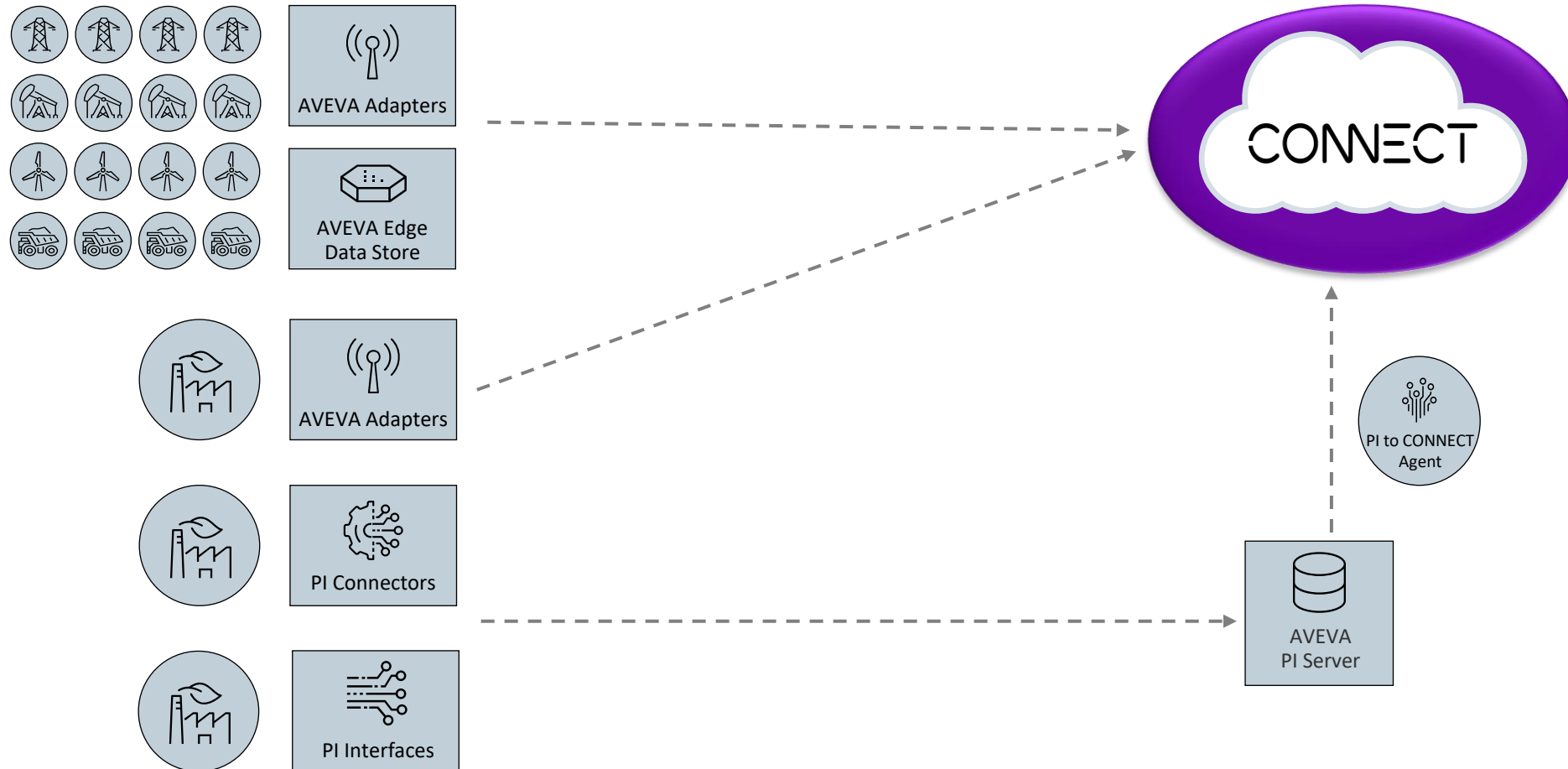
Complex PI Server use cases

Meet data where it's made. Send data to where it's most useful.



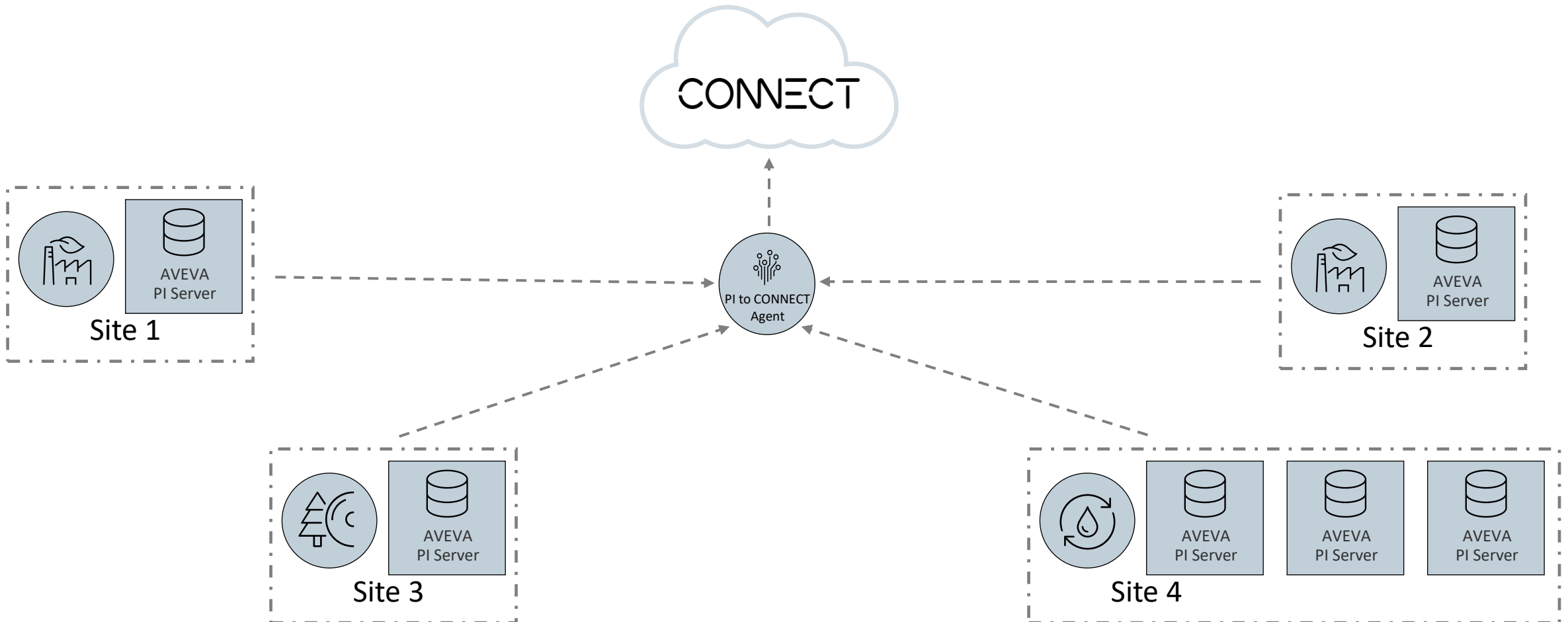
Complex CONNECT use cases

Meet data where it's made. Send data to where it's most useful.



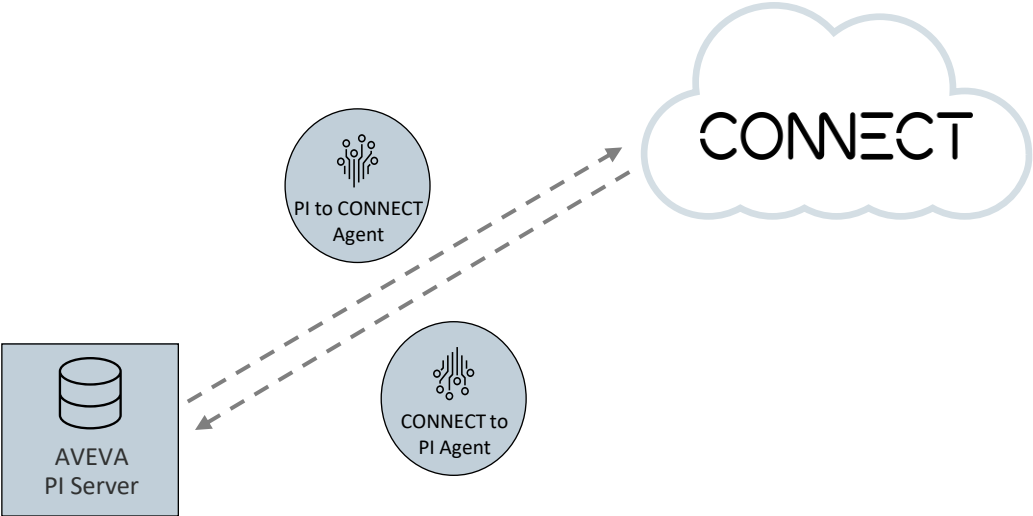
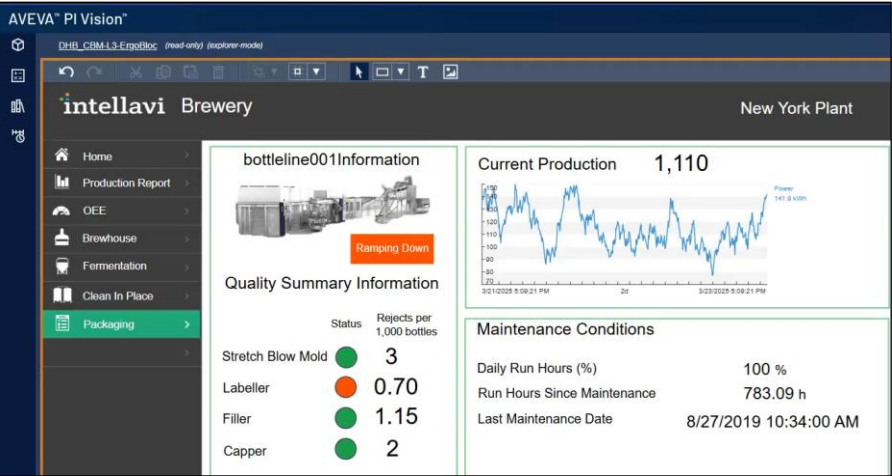
Complex use cases

Centralization and aggregation of critical data across multiple sites



Complex use cases

Leverage AVEVA Advanced Analytics to empower on-prem decisions

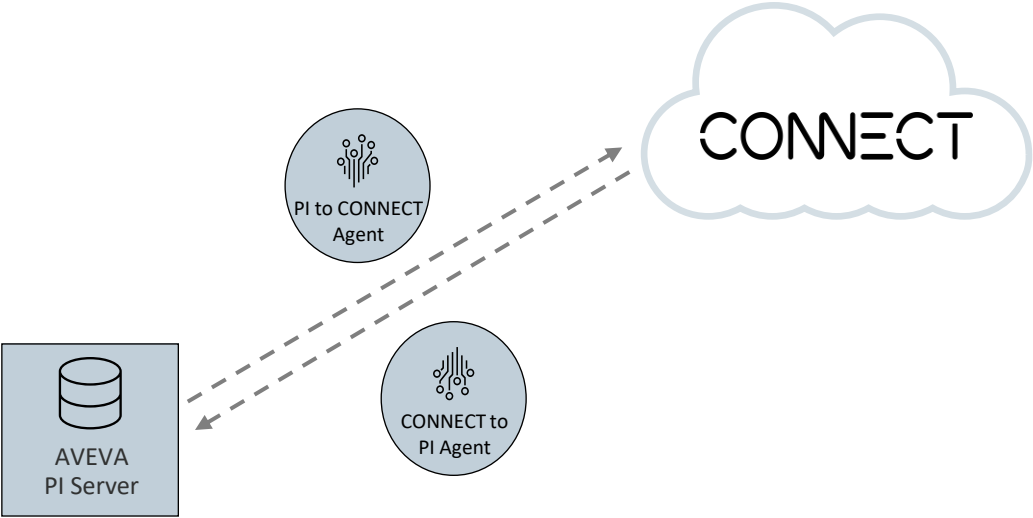
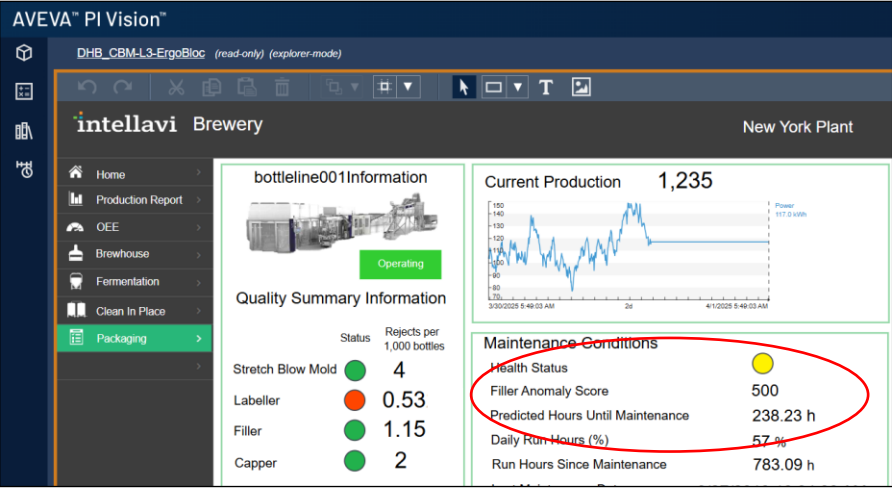
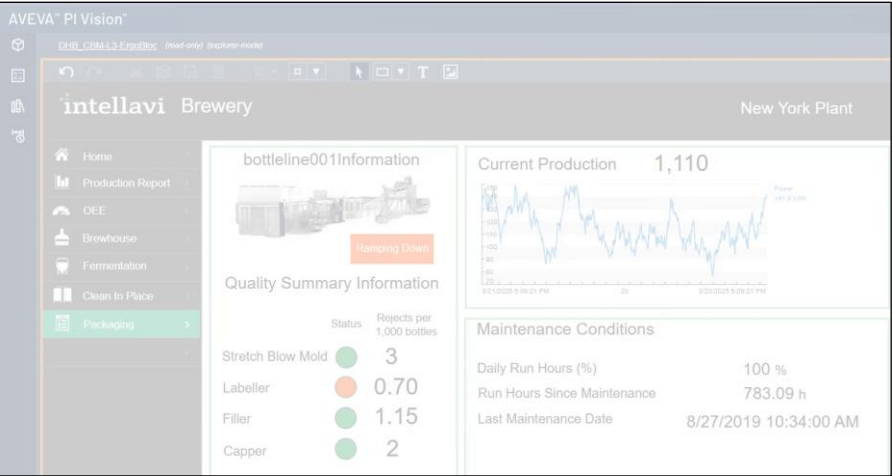


AVEVA Advanced Analytics



Complex use cases

Leverage AVEVA Advanced Analytics to empower on-prem decisions



AVEVA Advanced Analytics



AVEVA data collection roadmap

Adapter, Connector, and Interface releases

Delivering updates that continue to fuel your data infrastructure

	Adapters	Connectors	Interfaces
Released	RDBMS	PI System Connector Gen 2	RDBMS
	MQTT		PI to PI
Upcoming	AVEVA Adapter Configuration Utility	PI System Connector Gen 3	AVEVA Batch Management
	Open Sourcing Adapter Framework		Emerson DeltaV
			Werum PAS X

Enterprise-wide data replication at scale and performance

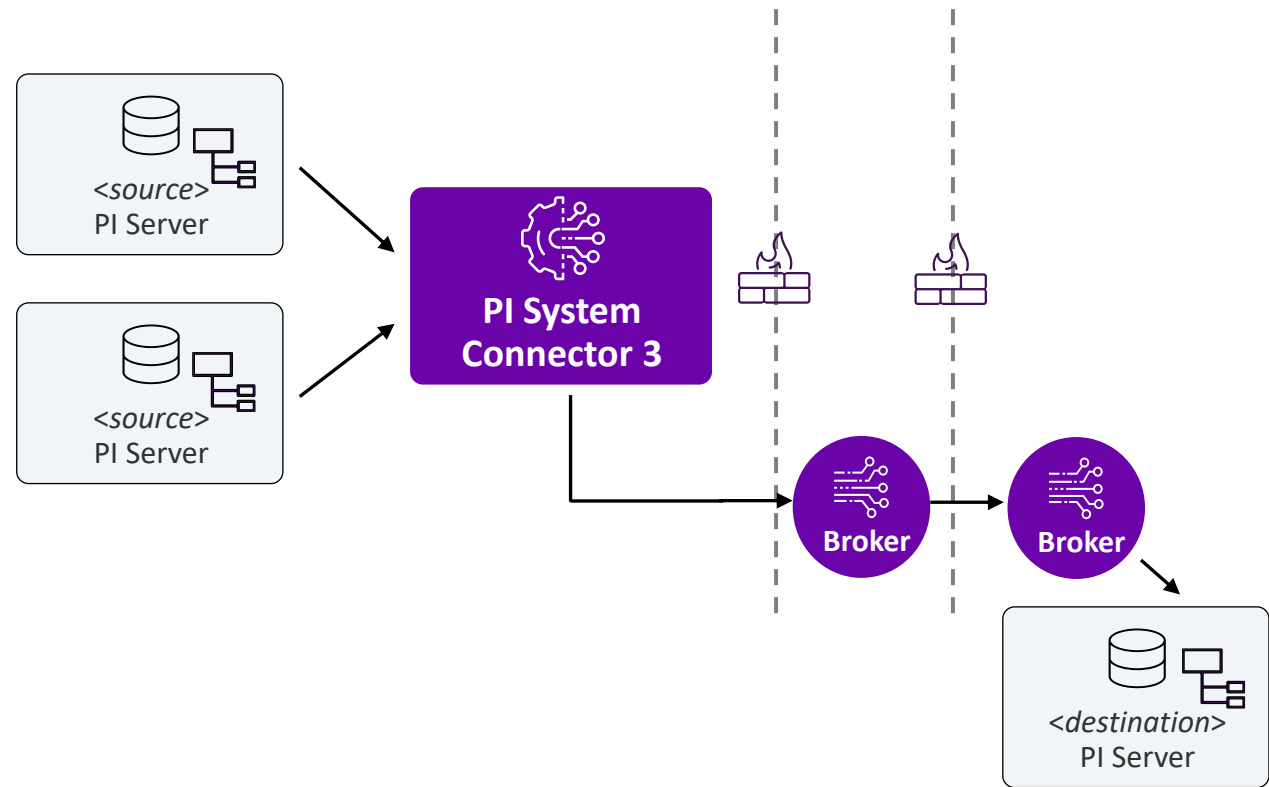
Upcoming: PI System Connector generation 3

Simplified network design
when data crosses network
boundaries

New client-broker
architecture

Simpler UI, less configuration,
easier management

Guided migration
experience from Gen 2



AVEVA Adapters: modern data connectivity for PI Data Infrastructure

Upcoming: Intuitively configure AVEVA Adapters

Easy-to-use web-based graphical user interface

Reduced time-to-deploy

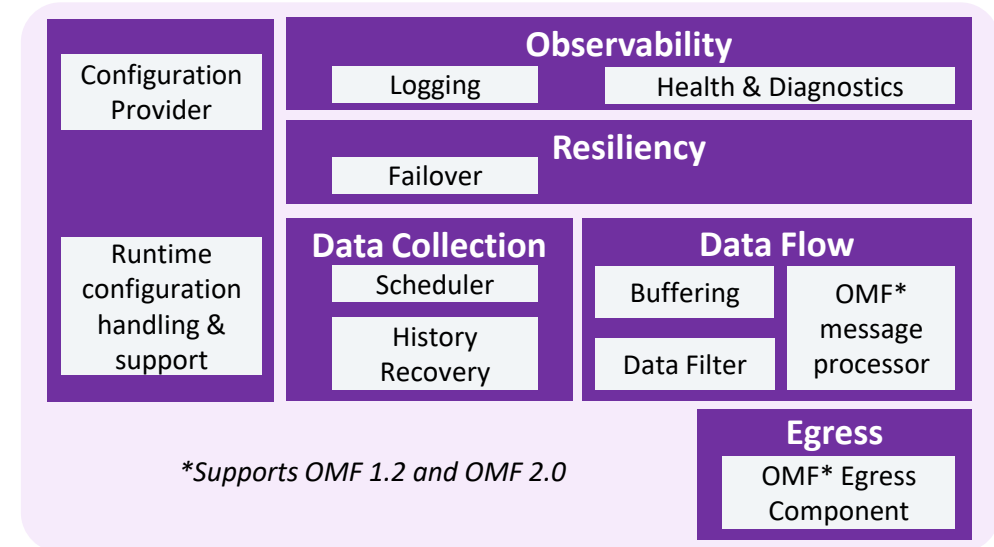
Instant configuration with quick-start guide

Import/export to scale fast

Upcoming: Open-sourced Adapter Framework

Production-grade foundation

Faster development



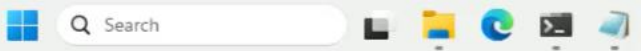
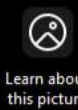
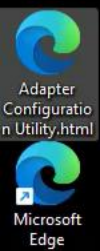
Demo: AVEVA Adapter Configuration Utility

Upcoming: Intuitively configure AVEVA Adapters

OPC UA adapter previously installed

Adapter Configuration Utility previously installed

Showcase quick-start functionality



Critical PI to CONNECT enhancements

Released: Plug into CONNECT with an expanded feature set

Feedback website

~210 votes

~50 customers

Added support

Collectives

Monitor Agent connection

Future PI Tags

Selective AF database indexing

Ease-of-use

Tuning parameters

Enhanced proxy support

Report tag count per PI Server

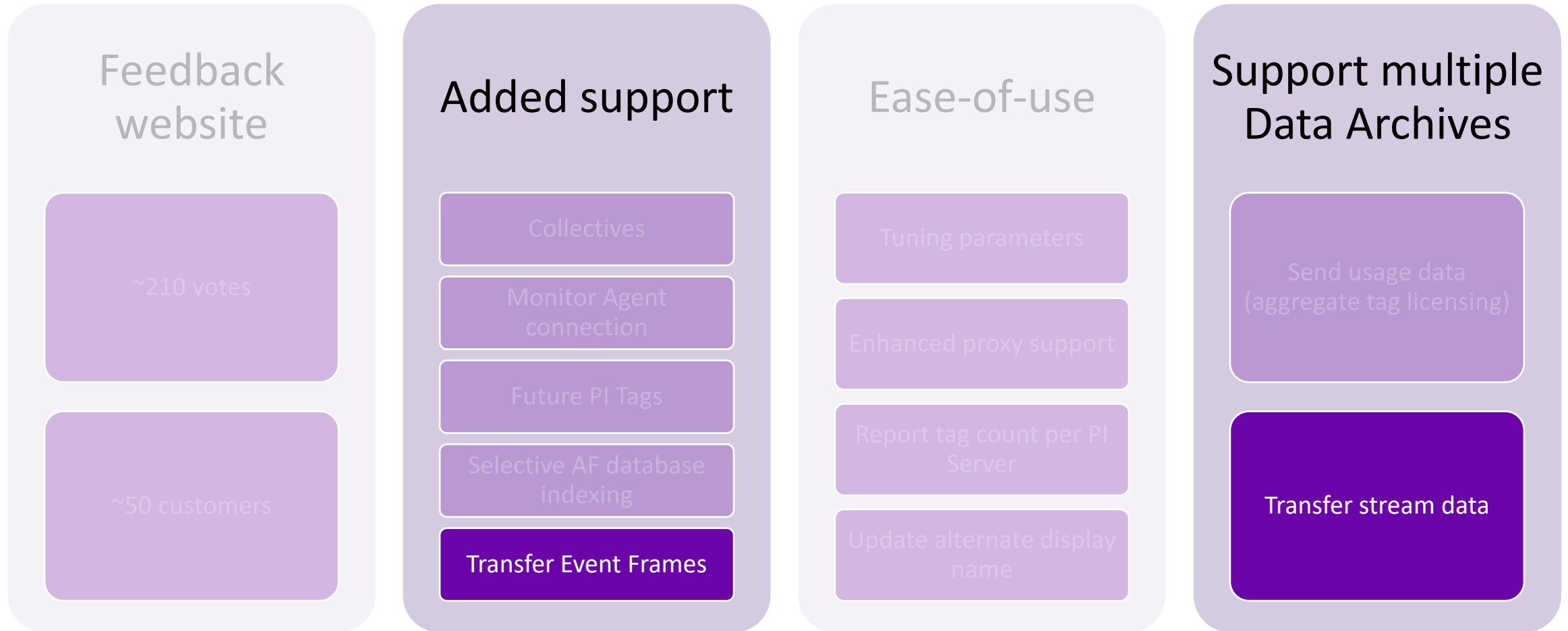
Update alternate display name

Support multiple Data Archives

Send usage data (aggregate tag licensing)

Critical PI to CONNECT enhancements

Upcoming: Transfer stream data from multiple data archives with a single PI Agent



Demo: View critical PI to CONNECT Agent health and connection info

Released: Create a stream in CONNECT to store and monitor Agent health and status

Released in v2.5.2827

PI to CONNECT previously installed

No transfer configured

View updated functionality in CONNECT portal

-  Home
-  Data Management
-  Data Collection
-  Visualization
-  Analytics
-  Security
-  Developer Tools
-  Support

 Customize

Latest Service Updates

Announcement: CONNECT and Databricks Integration is Now Available

Oct 16, 2025, 2:26:00 AM

The new **CONNECT and Databricks integration** enables industrial data from **AVEVA CONNECT** to be securely and seamlessly accessed in a **Databricks workspace**, without requiring data duplication or complex setup. Using **Delta Sharing**, customers can share curated datasets from **CONNECT Data Views** directly into Databricks environments enabled with **Unity Catalog**, creating a no-code, zero-copy bridge between OT and IT data.

With this integration:

Quick Links

-  [View API documentation](#)
-  [Explore working code samples provided in multiple programming languages](#)
-  [View service blog](#)
-  [Manage Users And User Access For Your Organization](#)
-  [Manage clients and secrets for securely accessing your data](#)
-  [Experiment with the REST API console](#)

Yesterday's Resource Usage

 May 11, 2026

Streams Stored	Streams Accessed	Shared Streams Accessed
226	8	0

System Health



Ok

PI to CONNECT Agents



All agents in good health

Systems

1

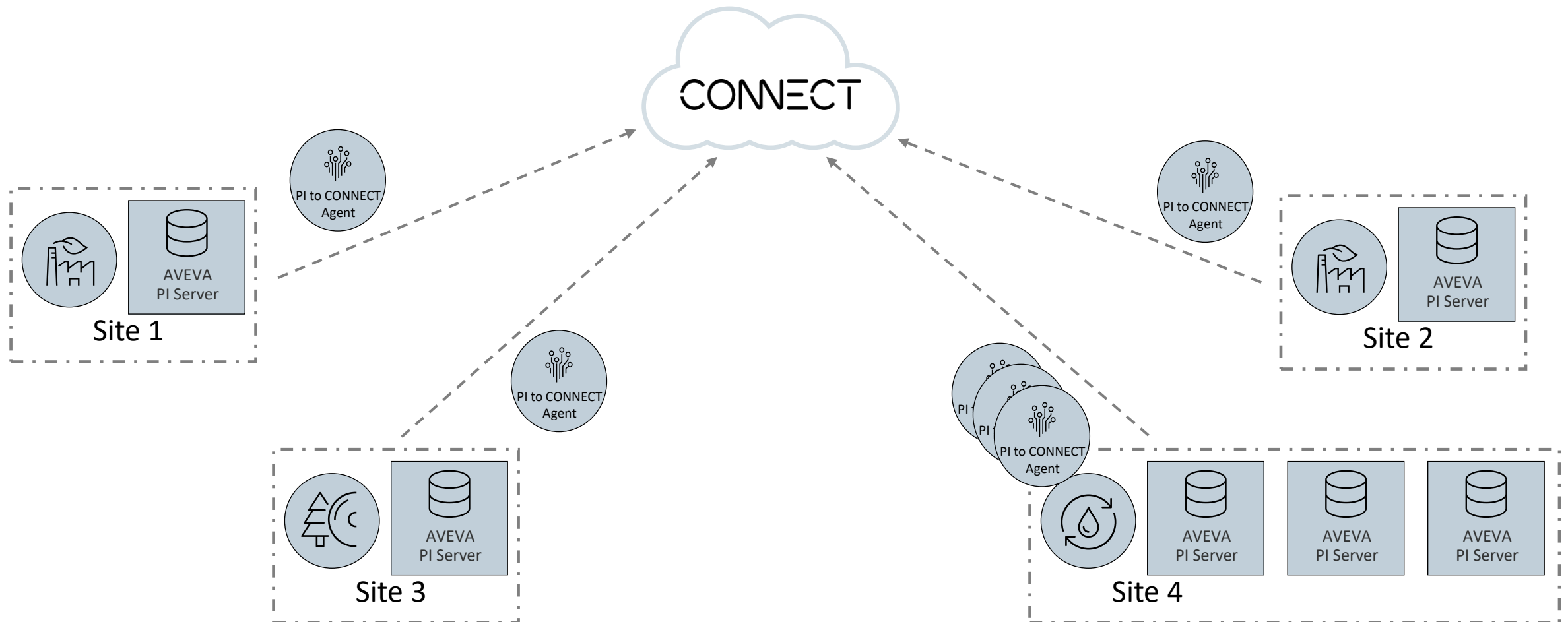
CONNECT to PI Agents

1

COLLAPSE 

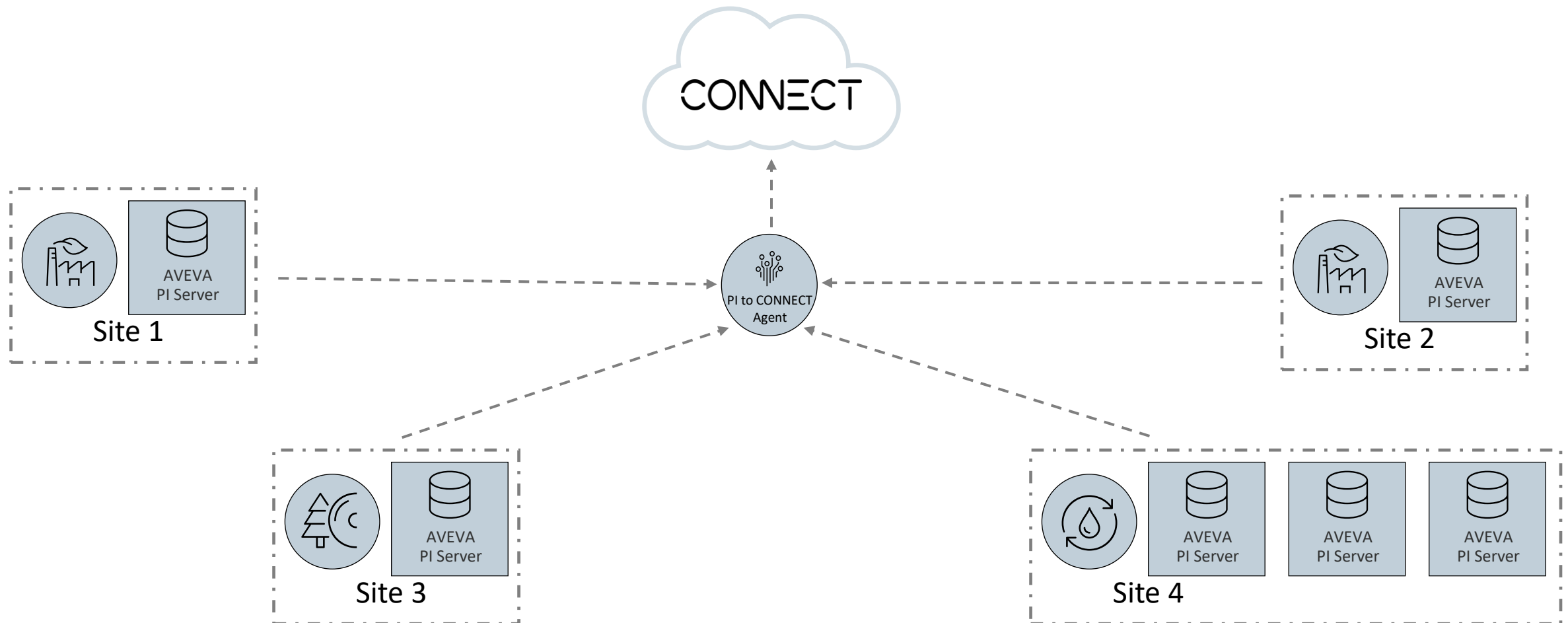
Lower total cost of ownership with PI to CONNECT

Released: PI to CONNECT supports sending usage data for multiple PI Servers from a single agent



Lower total cost of ownership with PI to CONNECT

Released: PI to CONNECT supports sending usage data for multiple PI Servers from a single agent



Demo: Lower total cost of ownership with PI to CONNECT

Released: Track PI Server usage across your enterprise with a single PI to CONNECT Agent

Released in v2.5.2827

PI to CONNECT Agent previously installed

Use Configuration Utility to add servers

Adding Roma, Milano, and Napoli PI Servers

Agent HostName	Agent Description	Agent Status	Agent State	Agent Version	Agent Service Account			
	AWC Demo	Running	Retrieving State...	2.5.2827.0	NT SERVICE\PIToDataHubAgent			

What kind of server do you want to add?



Back

Save

Exit

Demo: Transfer Event Frames to CONNECT

Upcoming: Centralize and aggregate critical event contexts in CONNECT

PI to CONNECT Agent previously installed

Create a new transfer

High Temperature, High Pressure, and High Flowrate alarms

View events in GraphQL, native CONNECT visualization

🏠 Home

📁 Applications

🕒 Explore

☰ Browse >

+ Create >

Data management

🔗 Data connections

📦 Data stores

Administration

🔑 Access >

📅 Account >

⚙️ Configure >

<> Developer tools >

📦 Marketplace

Quick access

Services health



Learn about data services



Manage your existing applications



Manage access

Welcome to CONNECT

Start using your services and applications today

2 Good

0 Stopped

[View all agents](#)

Bulk upload of PI Server data to CONNECT

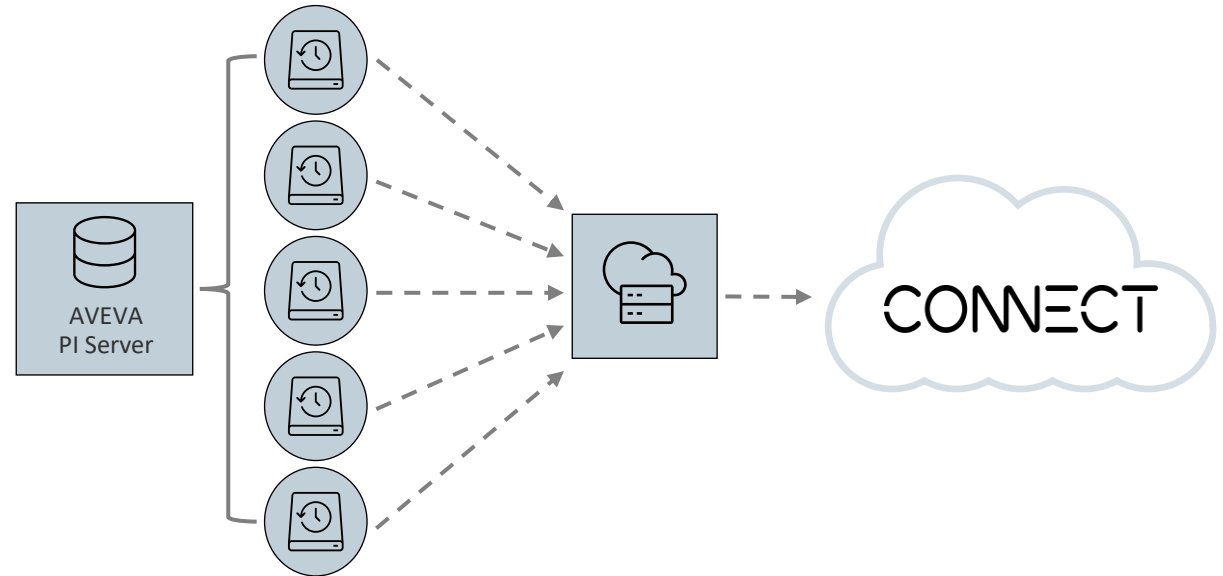
Upcoming: Kickstart data transfer with the ability to upload terabytes directly to CONNECT

- **Use case and problem statement:**

- Downstream CONNECT use cases involving tools such as Databricks or AVEVA Advanced Analytics can require years' worth of PI Server data
- What is the most efficient method to get this information into CONNECT?

- **Solution:**

- Temporarily upload raw archives into Azure
- Data from archives is extracted and processed into CONNECT
- PI to CONNECT continues to stream real-time data



AVEVA's data connectivity fabric

Evolve.

Trust.

Expand.

Industrial intelligence

Process optimization

Predictive maintenance

Workforce augmentation

Digital twins

Automation



AVEVA Edge Data Store

AVEVA PI Server

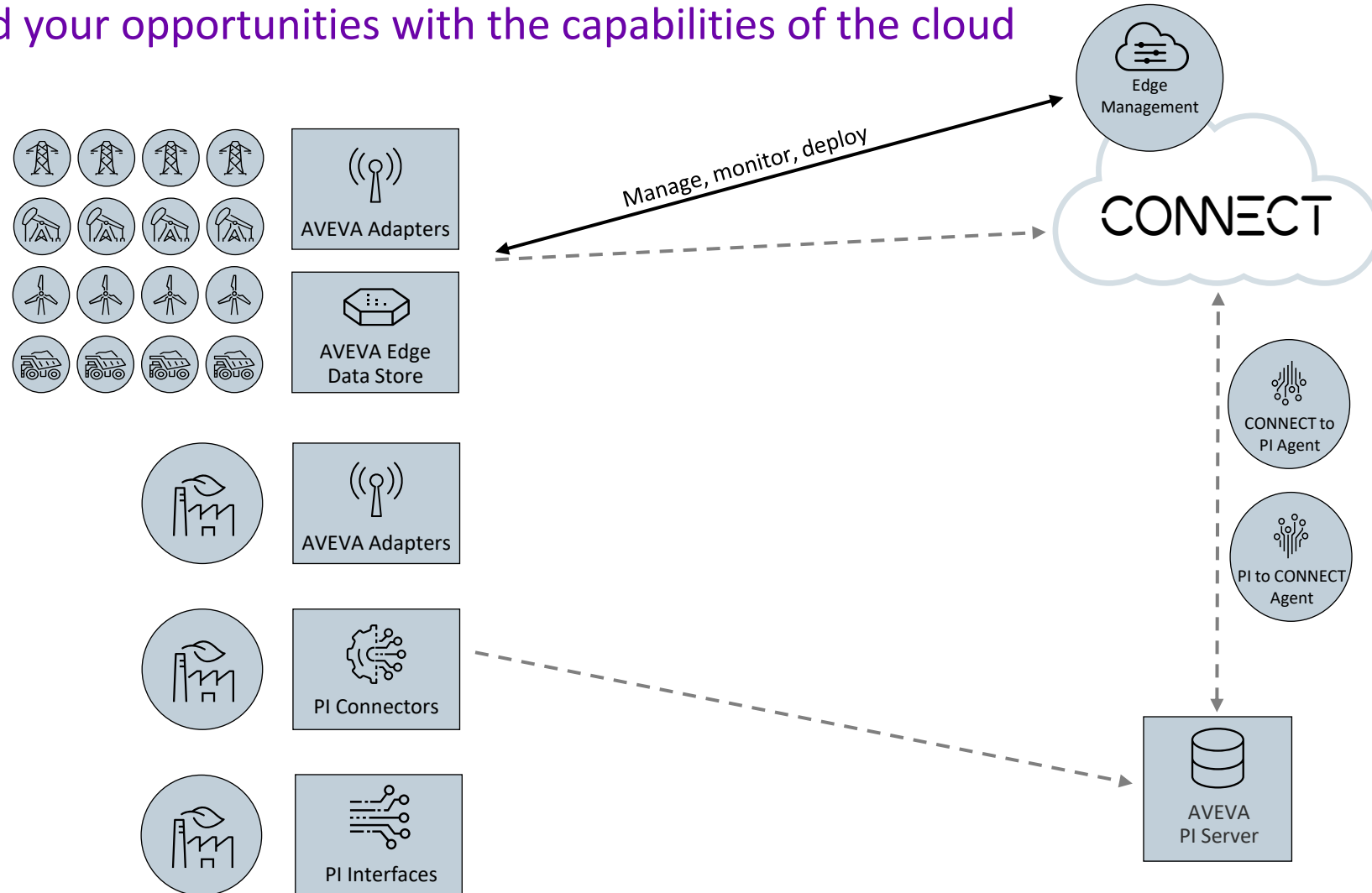
CONNECT

AVEVA PI Data Infrastructure

AVEVA

Unlock the power of PI Data Infrastructure

Expand your opportunities with the capabilities of the cloud



The foundation to your data infrastructure

Data collection *is* data infrastructure

Standardization

Reliability

Foundational

Scalability

Hybridization

Essential
Protocols

Roadmap summary

Continuing a trajectory of strong releases to grow the Data Infrastructure foundation

Released

- Multiple adapters, Connectors, and Interfaces
- PI to CONNECT:
 - 210 votes across 50 customers
 - Collectives
 - Future Data
 - Monitor Agent Health
 - Tuning Parameters

Upcoming

- PI System Connector Generation 3
- Batch Interface Releases
- Adapter Configuration Utility
- Bulk Upload Capabilities
- Event Frames to CONNECT
- Support multiple data archives with a single PI Agent

Ellery Murdock

Director, Product Management
PI Hybrid Enablement

AVEVA

william.murdock@aveva.com



AVEVA

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.

Thank you!

Exciting, modern &
engaging experience

5 key zones: CONNECT, operate &
optimize, design & build, industrial
sustainability, experiential zone
(hands-on activities)

45+ sponsor and exhibitor booths

CONNECT ecosystem partner kiosk

Partner solution sessions

Lightning Zone sessions

Guided tours by industry

Game and leisure areas



INNOVATION
ZONE

AVEVA

Sessions of Interest – Day 2, May 20th

Roadmap insights for AVEVA™ PI System™ and AVEVA™ PI Data Infrastructure

Roadmap and strategy

@ 10:45 am

Auditorium - Level 3

Expand the reach, scale and value of your operations data with AVEVA™ PI Server

AVEVA PI Server

@ 12:00 pm

Brown 3 - Level 2

AVEVA™ PI Vision™ roadmap: From self-service to strategic insight

AVEVA PI Vision

@ 12:45 pm

Brown 3 - Level 2

Weaving a resilient AVEVA connectivity fabric to support every data user

Industrial data connectivity

@ 3:30 pm

Brown 3 - Level 2

How AVEVA™ PI Data Infrastructure has accelerated analytics insight

High-performance analytics

@ 4:15 pm

Brown 3 - Level 2

Beyond the data stream: Compounding AVEVA PI System value with complementary AVEVA solutions

Increasing value of PI System data

@ 5:00 pm

Brown 3 – Level 2

BREAKOUTS & ROUNDTABLES

(Repeat) Your Workflow, Your Voice: Prioritizing AI for AVEVA PI System & AVEVA Operations Control

AVEVA Discussion Group

Options @ 1:45 pm & 2:45 pm

Amber 5 - Level 2 - "The Hive"

Roundtable (Hive & Hub)

AVEVA

Sessions of Interest – Day 3, May 21st

Standards for asset modeling with AVEVA™ PI Data Infrastructure

AVEVA PI Vision deep-dive

@ 9:00 am

Spotlight Theatre - Level 0

User-friendly AVEVA Adapter configuration

AVEVA Adapters

@ 9:30 am

Spotlight Theatre - Level 0

Accessing your AVEVA PI Server through OPC UA

AVEVA PI OPC UA Server

@ 10:30 am

Brown 3 - Level 2

Supporting expanding needs with AVEVA™ PI Vision™ 2025

Session topics

@ 11:15 am

Brown 3 - Level 2



BREAKOUTS

AVEVA

Visit Us!

Stop by these booths in the innovation zone for demos and additional information:

Transform real-time data into actionable information with AVEVA PI Server

AVEVA PI Data Infrastructure

AVEVA PI Server

Visualize your operations data with AVEVA PI Vision

AVEVA PI Data Infrastructure

AVEVA PI Vision

OT + IT data connectivity, securely between on-premises and cloud systems

Connectivity

Enterprise data integration

Databricks, Snowflake



Visit Us!

Stop by these booths in the innovation zone for demos and additional information:

Intelligent data processing flows for real-time cleansing, filtering, and transformation

AI & Analytics

Connectivity

Crosser

AVEVA Technical Communities

PI Square

Heroes HQ

CONNECT

Hands-on with CONNECT

Try it here

Cyber security and resiliency



