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ADM 's Intelligent IIoT Deployment

Dianomic, AVEVA and Edge ML Delivers Surprising ROI

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At Dianomic We Believe

The Fourth Industrial Revolution Changes Manufacturing Forever

Changing how everything is produced and built. From fundamentals like food and energy to future products like self driving cars and autonomous robots.



Innovation powered by digital transformations from machine edge to the cloud is at the heart of tomorrow's better yields, quality, safety and efficiencies.



Sustainability for generations to come is a direct result of these Innovations and should be at the core of every manufacturer's mission.

This is why we exist...

To deliver edge computing innovations that deliver bottom line results and a healthier planet.



About Dianomic

- Supplier of FogLAMP and FogLAMP Manage
- World's Leading Open Intelligent IIoT Platform
- Founded 2017
- AVEVA/OSIsoft Investor and Board Member



About ADM

Food is Fundamental

It sustains us, fulfills us and fuels our well-being. It's the most basic need with the most critical impact. ADM is devoted to that impact every single day.

We believe...



Everyone has the right to the food they need to sustain their lives.



Food derived from nature is an important driver of health and wellness.



Access to nutrition has the power to solve many of the world's challenges.

This is why we exist...

To unlock the power of nature to enrich the quality of life.

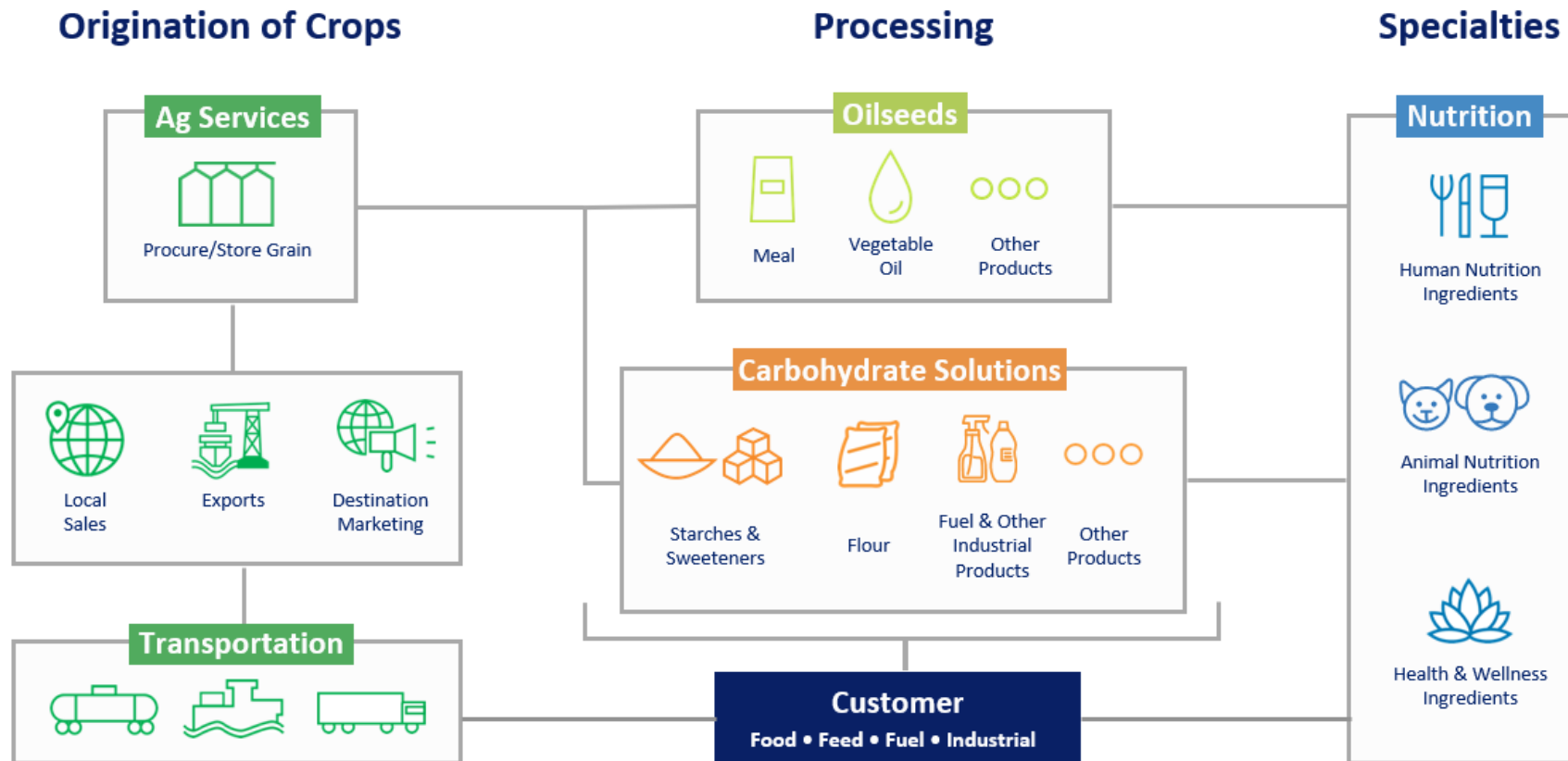
Proprietary business information of ADM.



AVEVA

About ADM

Serving Customers Across the Value Chain with Unmatched Products & Services



Proprietary business information of ADM.



AVEVA

About ADM

ADM by the Numbers

FUNDAMENTALS



~800

Facilities



59

Innovation
Centers



317

Food & Feed
Processing Locations



>200

Countries Served



453

Crop Procurement
Locations



41,100

Employees

FINANCIALS



\$85B

CY21 Revenue



~\$38B

Market Cap
as of 12/31/2021



\$4.8B

Adjusted Segment OP
for CY21



90

Years of
Consecutive Dividends



\$4.9B

of Adjusted
EBITDA in CY21



\$5.19

Adjusted EPS
in CY21

CREDENTIALS



1902

Founded



ADM

NYSE Since 1924



A

Credit Rating

Proprietary business information of ADM.



AVEVA

Edge ML Increasing Yield And Quality - IIoT Success Story



Challenges

- Increase Yield and Quality in Oil Production
- Reduce Waste for Greater Sustainability
- Transparent Factories

Solution

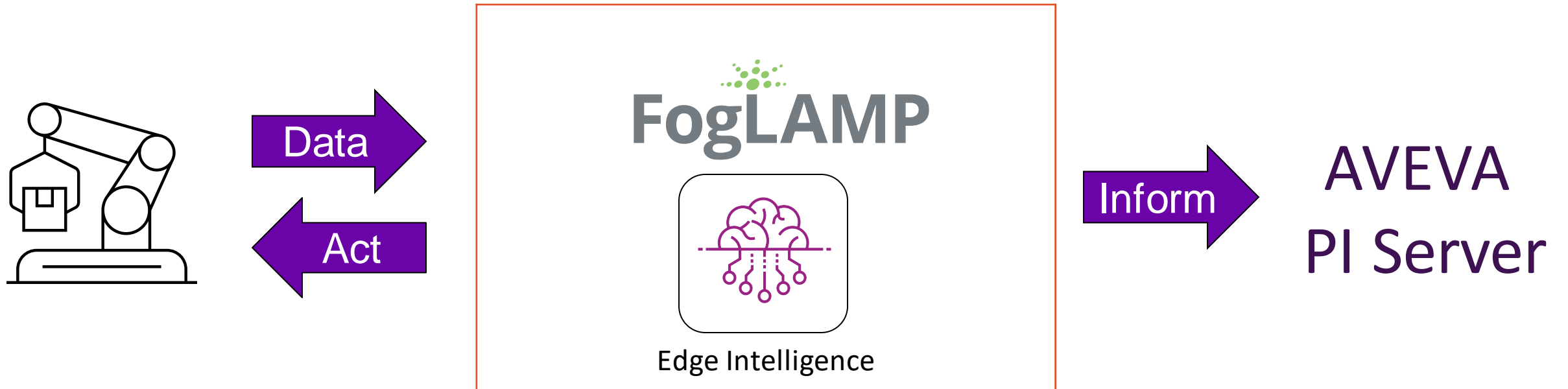
- Integrate
- AVEVA PI System (AF, PI Vision)
 - Dianomic's IIoT Platform FogLAMP, FogLAMP Manager
 - Google Machine Learning

Benefits

- ROI <3 Months / Centrifuge
- Replicable to a large number of Centrifuges.
- AVEVA PI System + FogLAMP is a modern IIoT Platform.
- Further increasing Yield, Quality, Safety and Efficiency. ADM's path toward a **Transparent Factory**

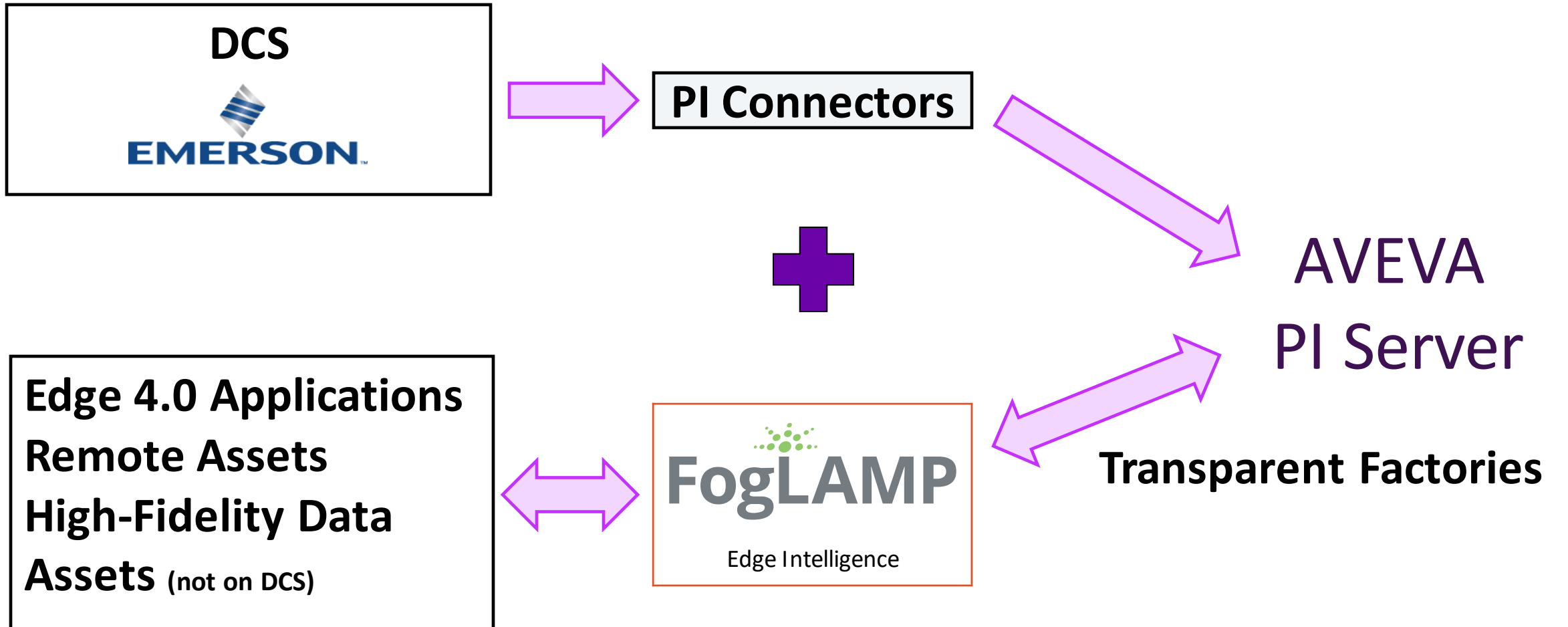


Intelligent IIoT 4.0 Platform

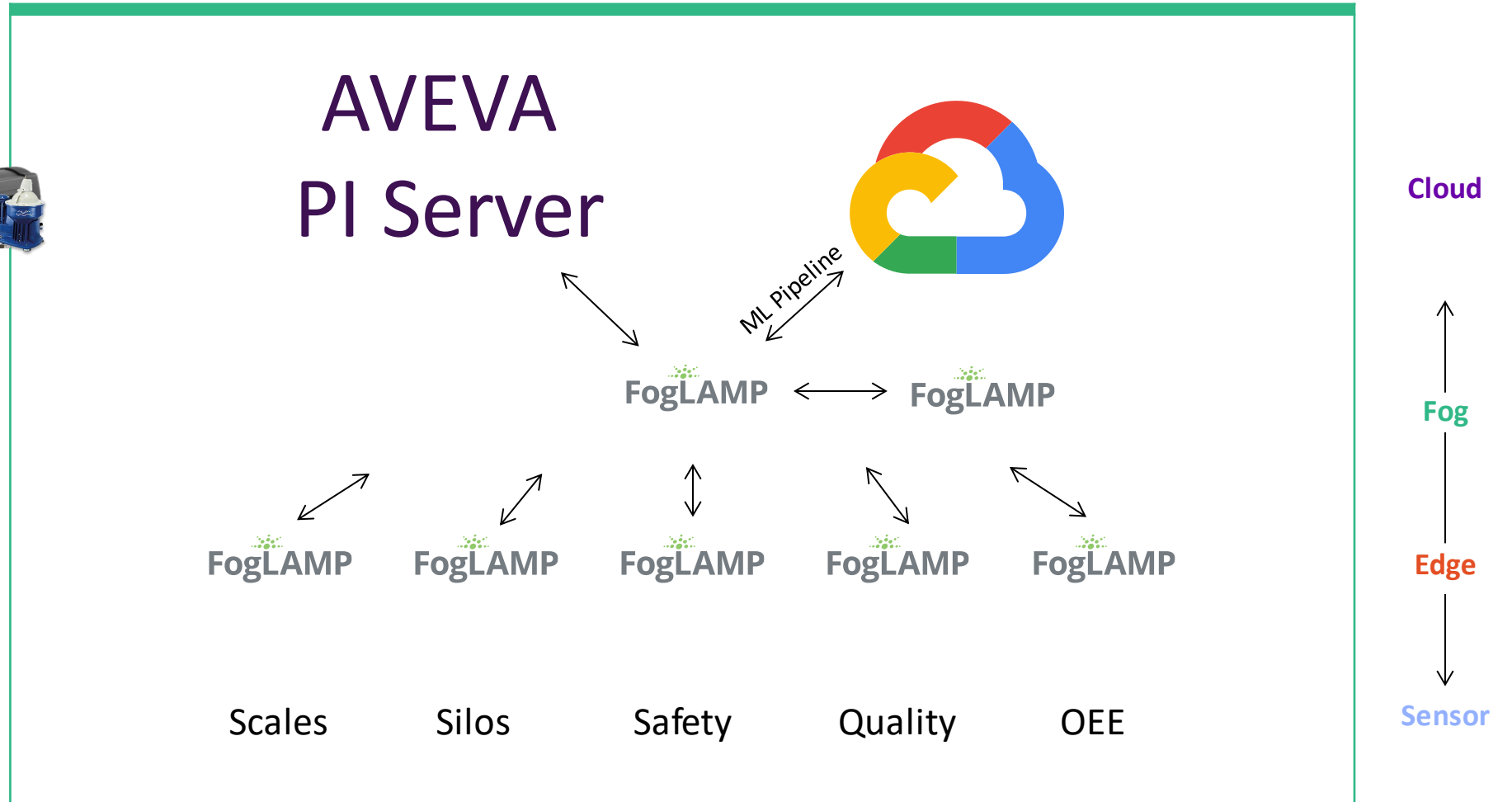


Latency, Data Volume, Control, Network, Security, Compliance, Cost

Intelligent IIoT 4.0 Integrations



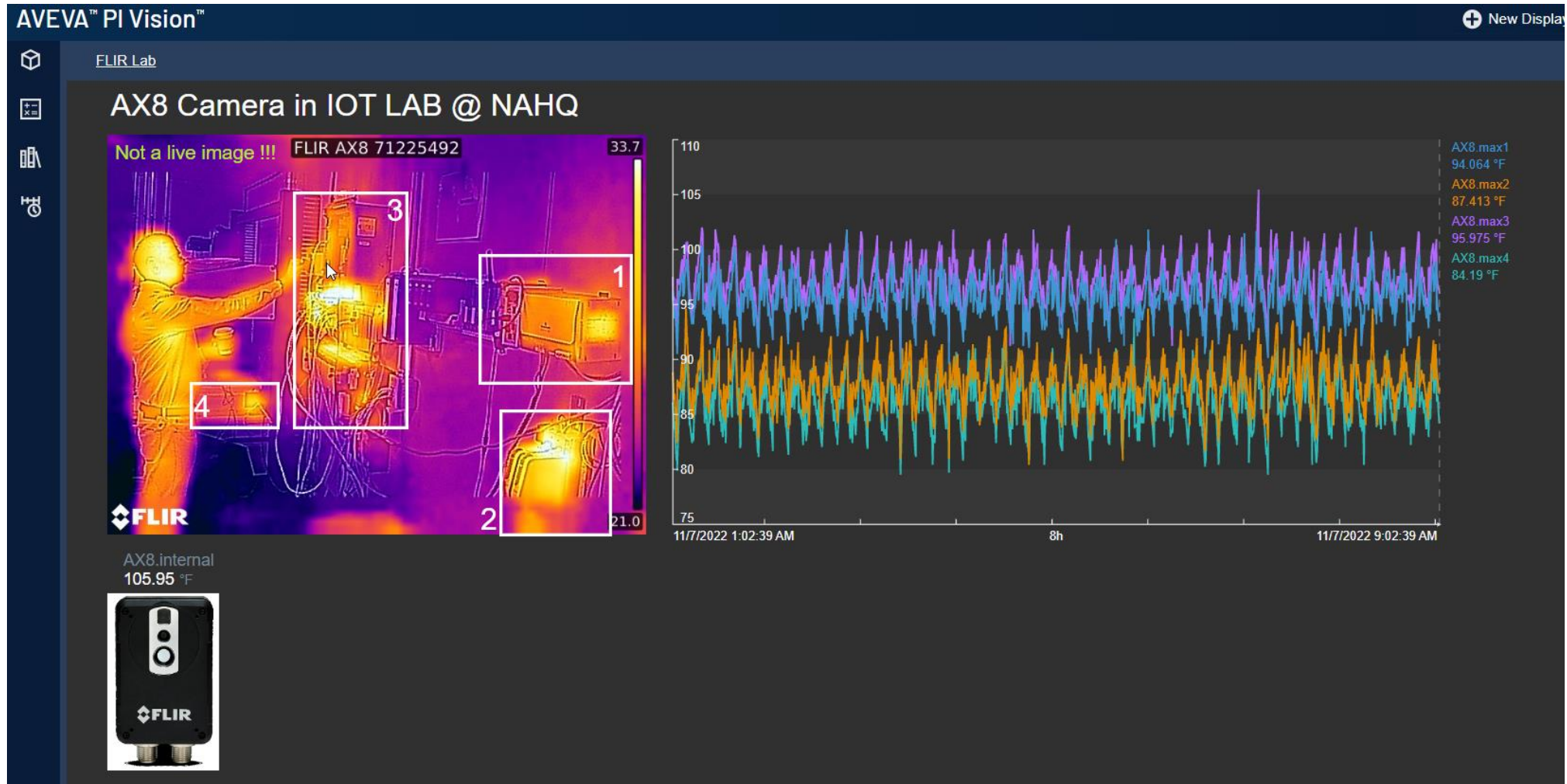
Intelligent 4.0 Edge Deployment (scale, management)



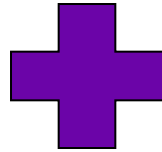
Grain Silos and Piles



IR Camera and data available in AVEVA PI Vision



FogLAMP's Edge ML Delivers



FogLAMP



Edge Intelligence



< 3 Month ROI
Centrifuge



Vibration Sensors, PLC data

“The actionable insights that FogLAMP’s Edge ML has delivered to our centrifuge operations team are a game changer.

With the support from Dianomic and AVEVA, our ADM team has been able to confidently improve our centrifuge process without concern of negative consequences to the machine health.”

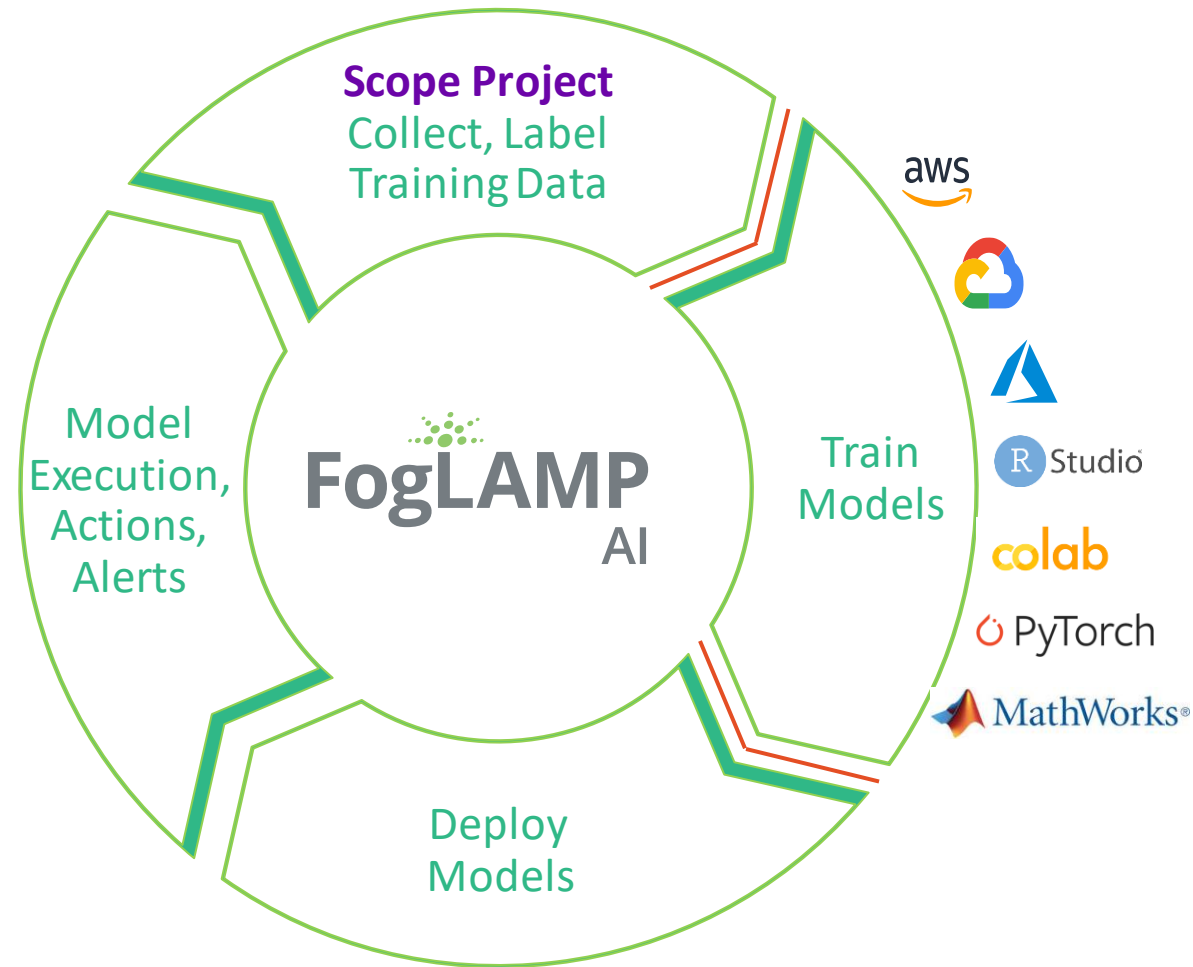
Jennifer Dominick, Director Focused Improvement and Analytics ADM

FogLAMP: Intelligent Industrial Edge Platform

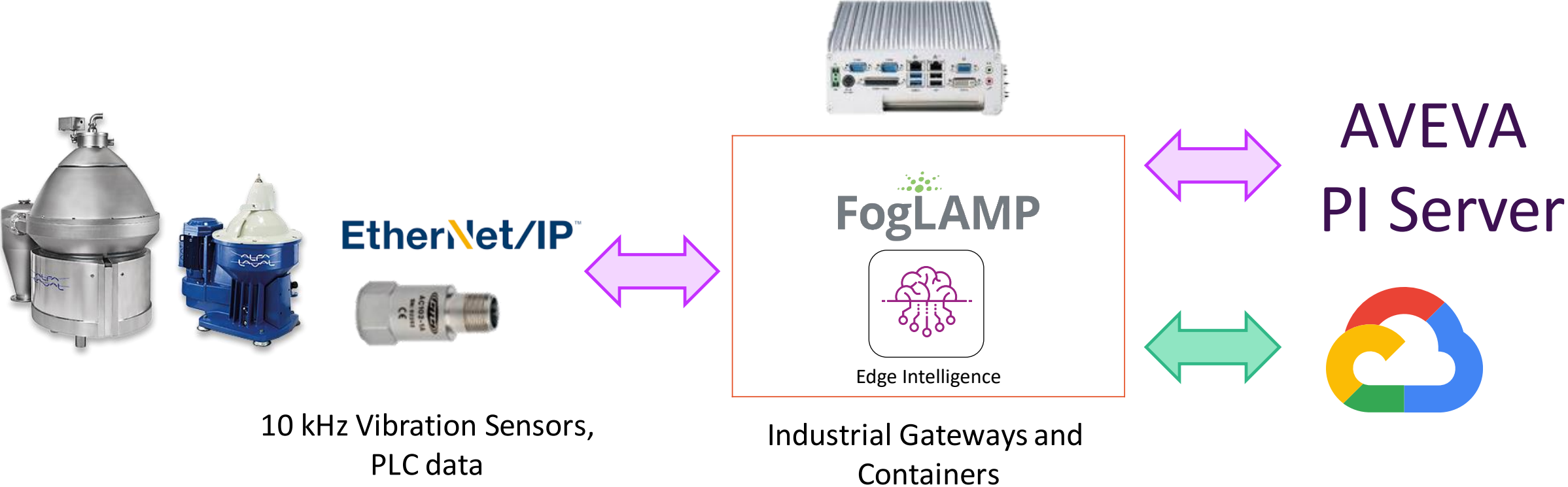
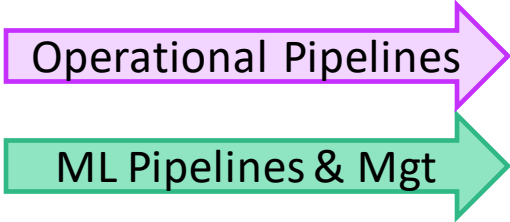
- Industrial Edge Applications
 - No Code / Low Code Capabilities
- Industrial Focus / Edge Focus
- Integration into existing systems
- Analytics on the edge
 - Machine Learning
 - Advanced signal processing
- Scalable, Secure



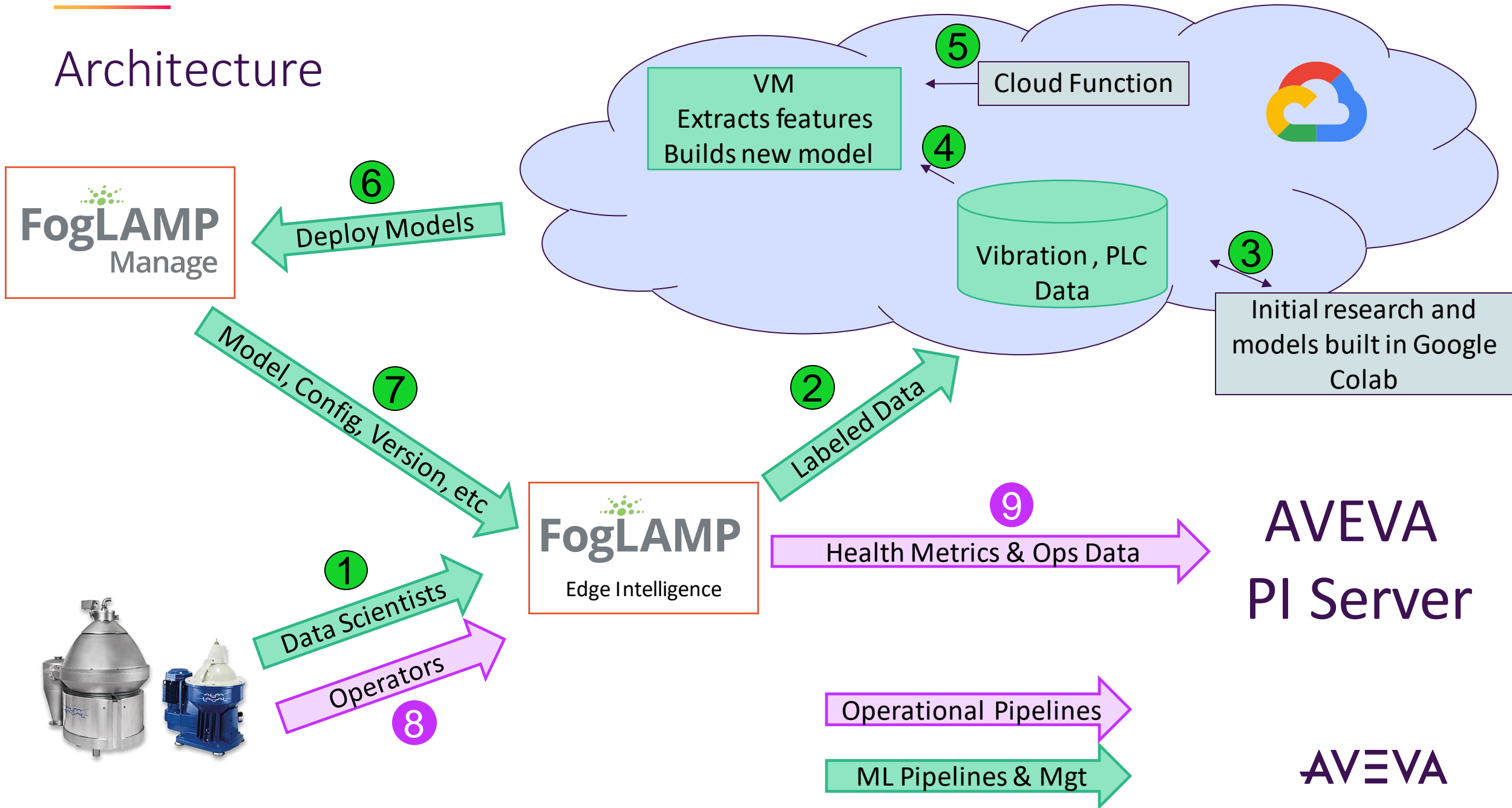
FogLAMP Edge MLOps



ADM Centrifuge OEE



Architecture



Centrifuge's Vibration and PLC Data in AVEVA PI System



Conclusion

- ADM – Food is Fundamental
- Challenge
 - Increase Yield, Quality, Safety, Sustainability
 - Get All the Data to AVEVA PI System
- Solution
 - Edge Intelligence via FogLAMP from Dianomic and AVEVA PI System from AVEVA
- Results: **FogLAMP to PI “is a Game Changer”**

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.



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Thank you!

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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.