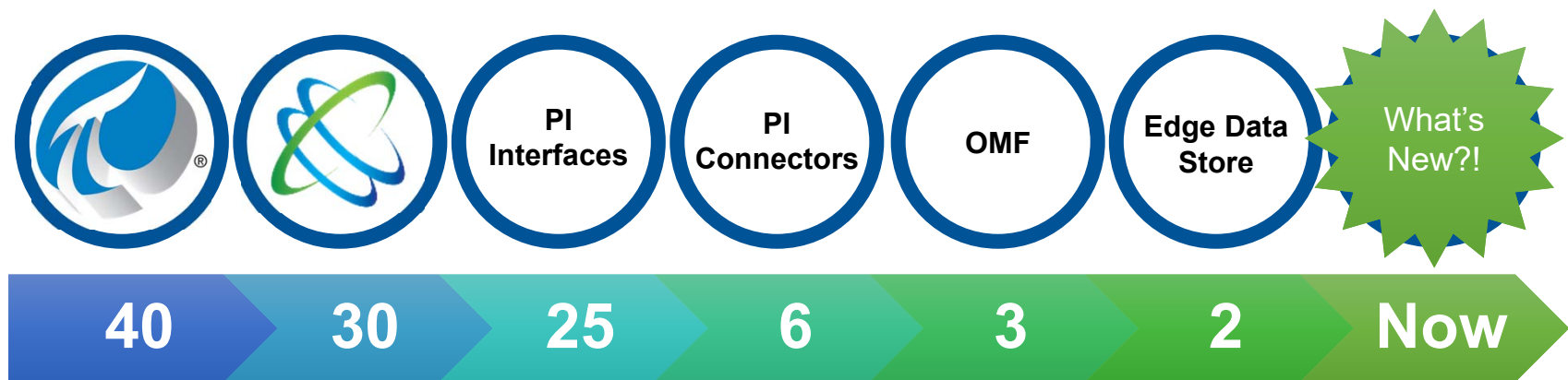
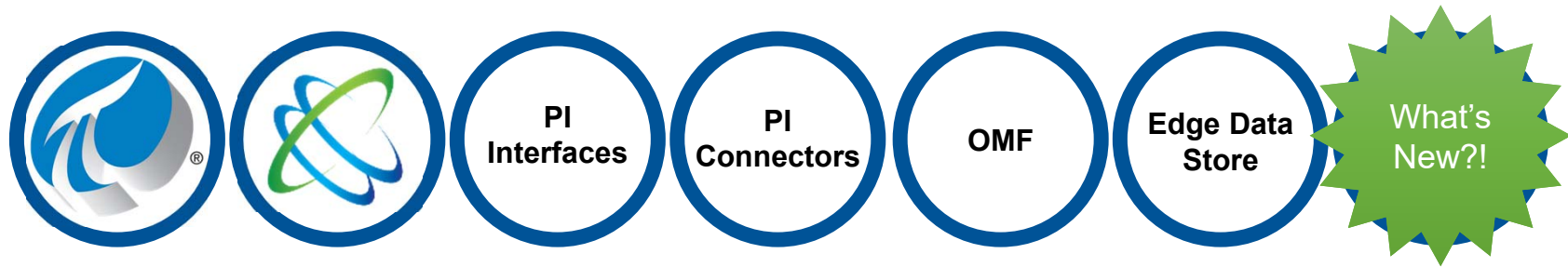


Data Collection for Critical Operations

Extending to the edge

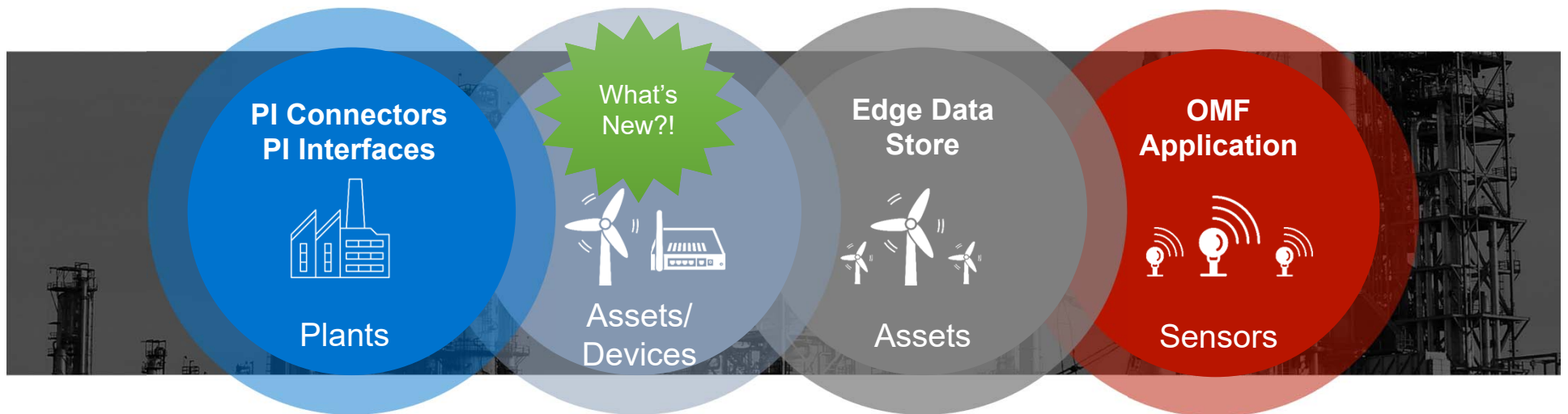






Ensuring no matter where your operational data resides, there are OSIsoft technologies available to collect and store this data

OSIsoft Data Collection



Seamless Infrastructure

Community



Enterprise



Plant



Assets



Sensors





PI
Connectors
PI Interfaces





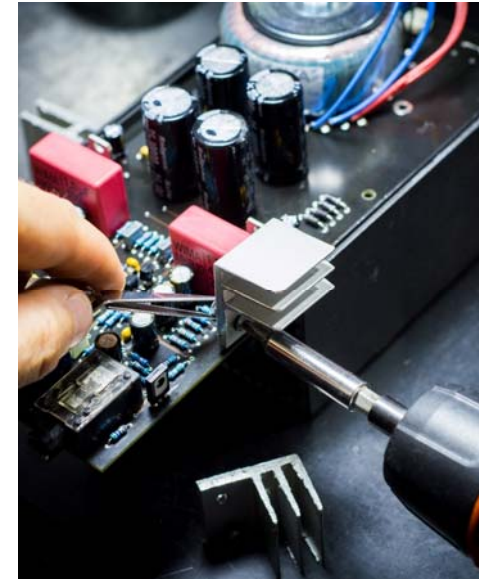
Your scenario dictates how data needs to be collected



Large Volumes of Data
High Frequency Measurements
Continuous collection



Unreliable Power & Network
Hardware Constraints
No Local IT Staff



Control Over Connectivity
OS & Language Autonomy
Free from Backend Implementation



Why:
There is a large volume of data from a wide variety of assets within your primary control network



Large Volumes of
Data



High Frequency
Measurements



Continuous Collection

PI Interfaces and PI Connectors



**PI Interfaces
PI Connectors**


Plants

-  Ready Off-The-Shelf
-  Available Now
-  Secure Architecture
-  High Performance

PI Interfaces



Most of data collection today

More than 30 years of development and support

Optimized for time-series data

Highly configurable for tag data in the PI Data Archive

Hundreds of available protocols

Popular: OPC DA, OPC HDA, PI-to-PI, UFL, MODBUS and RDBMS

New PI Interfaces

PI Interface	Market
Rockwell Pharmasuite MES	Pharmaceuticals
Landis+Gyr HES	AMI – Electrical Distribution

PI Connectors



Streamlined Configuration

Auto create PI Points with rules-based data selection

Auto discover data, now and later

PI Connectors monitor the source so you don't have to

Unified Admin Experience

A one-stop shop to manage data collection across your sources

New PI Connectors

PI Connector	Market
PI MT Connect	Horizontal Market Reach
GE e-terrahabitat	Power Transmission

Continued Development and Support

50+ Releases since 2019

5 brand new releases

Investment in Core Components

Data Collection Enablement

Critical Decisions

Trustworthy, Reliable Data

Standardization

Diverse,
Turnkey
Connectivity

Dependable
Performance

Enhanced
Support

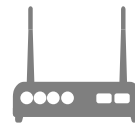
Why: Valuable data is stranded in remote environments



No Access to
Automation System

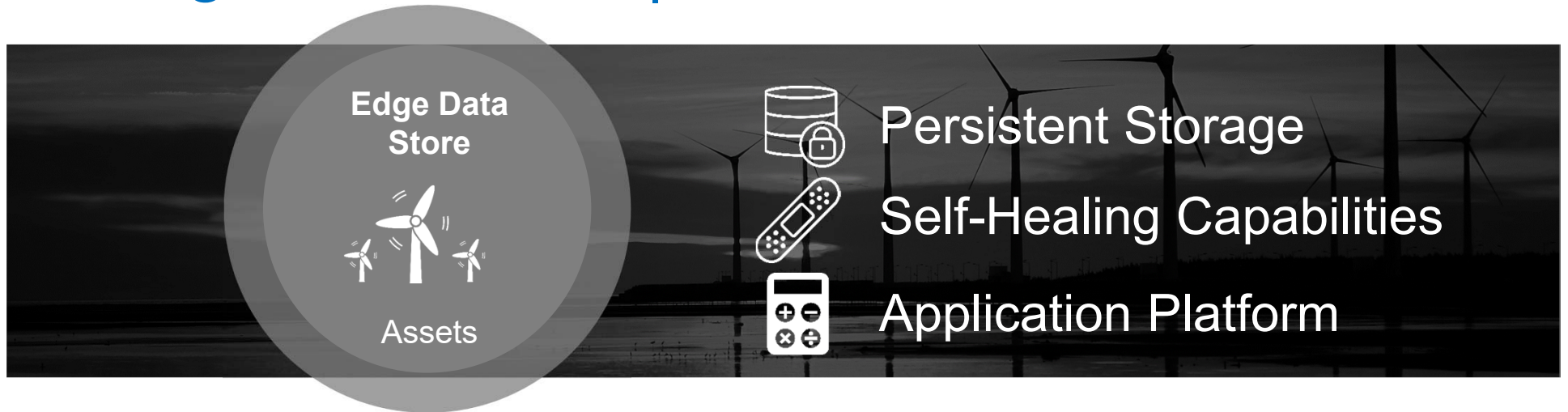


Unreliable Network
Conditions



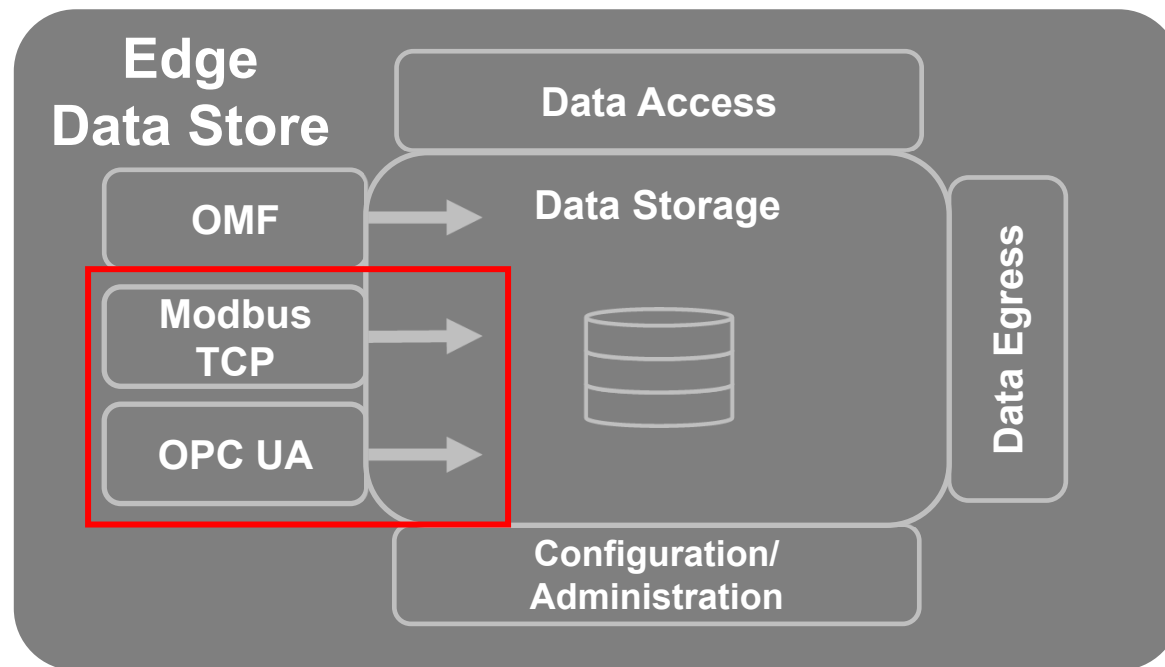
Need cheap, rugged devices

Edge Data Store | EDS



- Cross Platform (Windows, Linux)
- Data Collection from Multiple Data Sources
- Analytics Ready
- Egress to PI Server and OSIsoft Cloud Services
- Developed, Sold, and Supported by OSIsoft

EDS Adapters: Real-Time Connectivity

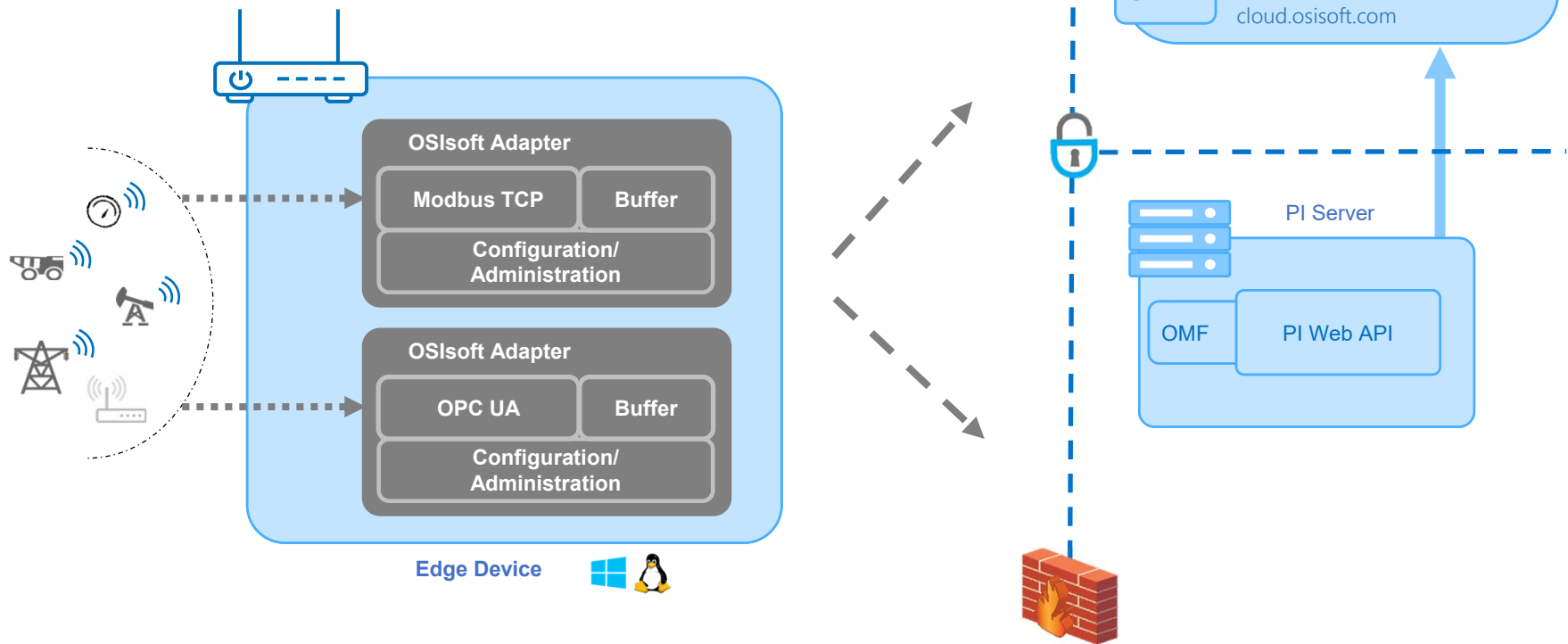


OSIsoft Adapters

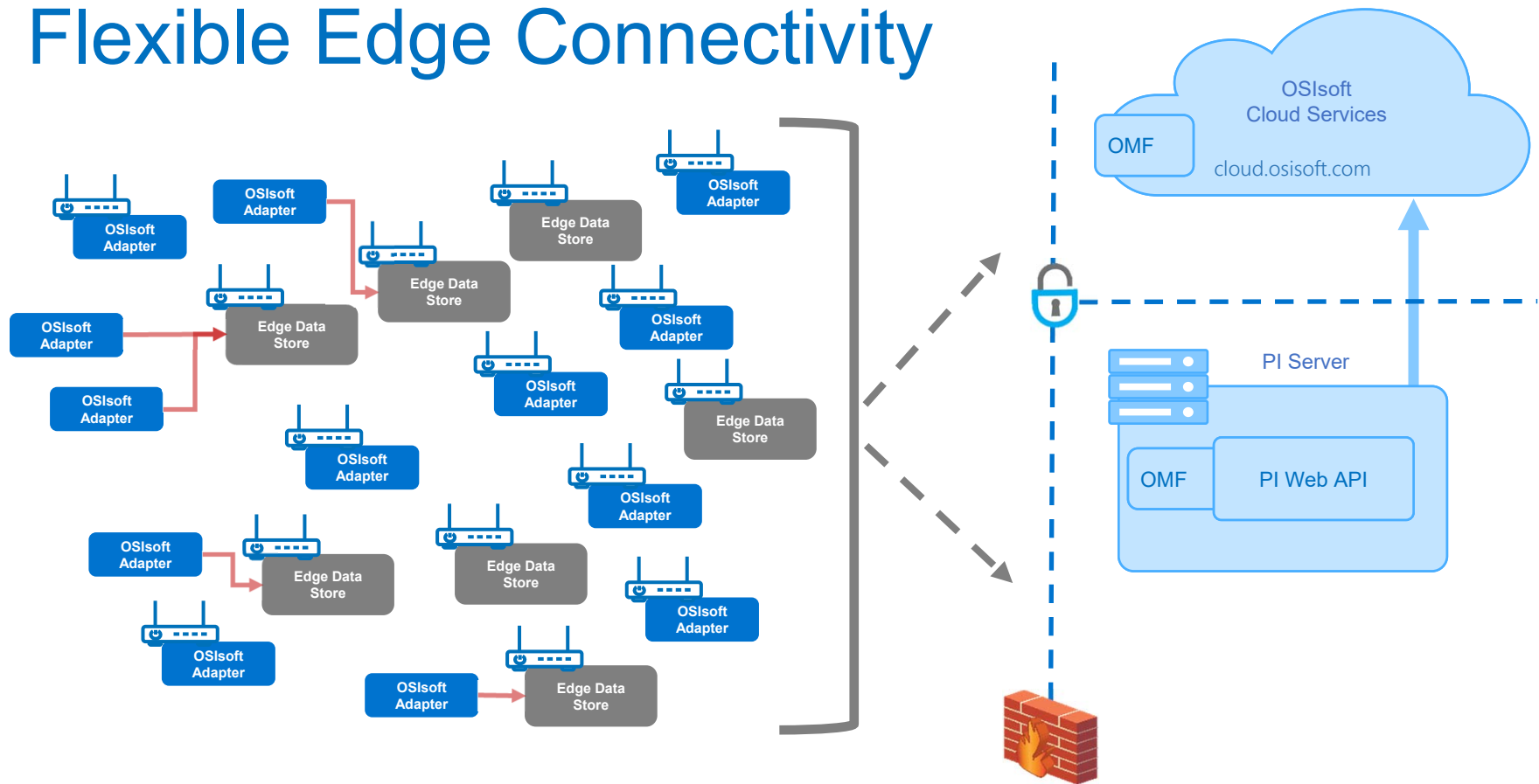


- Windows and Linux device interoperability
- Scalable architecture
- Connectivity to Edge Data Store, PI Server, and OSIsoft Cloud Services
- Sold and Supported by OSIsoft

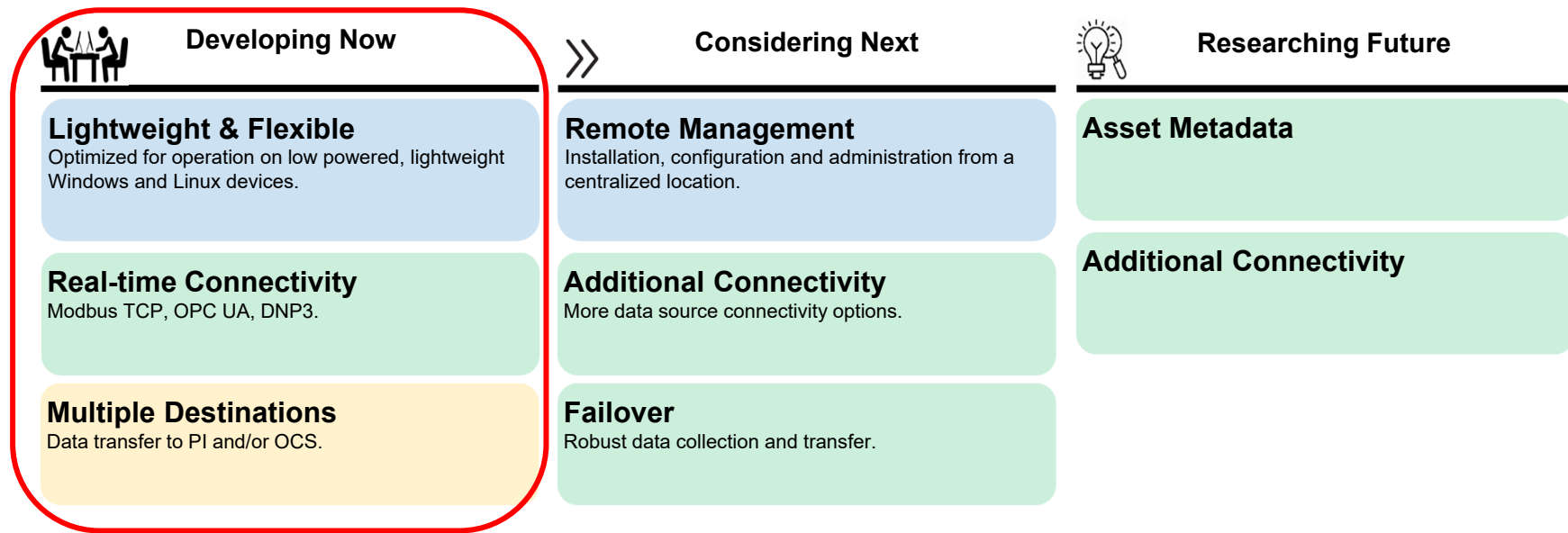
OSIsoft Adapters



Flexible Edge Connectivity



OSIsoft Adapters Roadmap



Available in Q1 2020 through the OSIsoft Adapter Lighthouse Program



Why:
Strength in data accessibility



Control over
connectivity

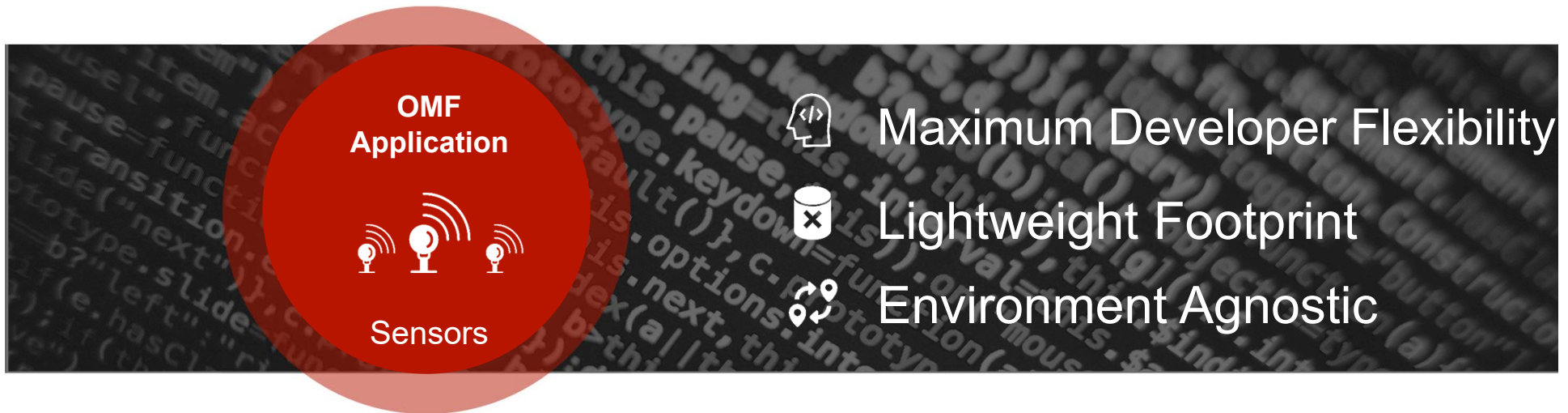


OS & language autonomy



Free from
backend implementation







OSIsoft Message Format



- Flexible Any Hardware
- Any Operating System
- Any Development Tools
- Data Ingress to Edge Data Store, PI Server, and OSIsoft Cloud Services
- Finished Product Developed, Sold and Supported by 3rd Parties

OSIsoft Message Format Overview

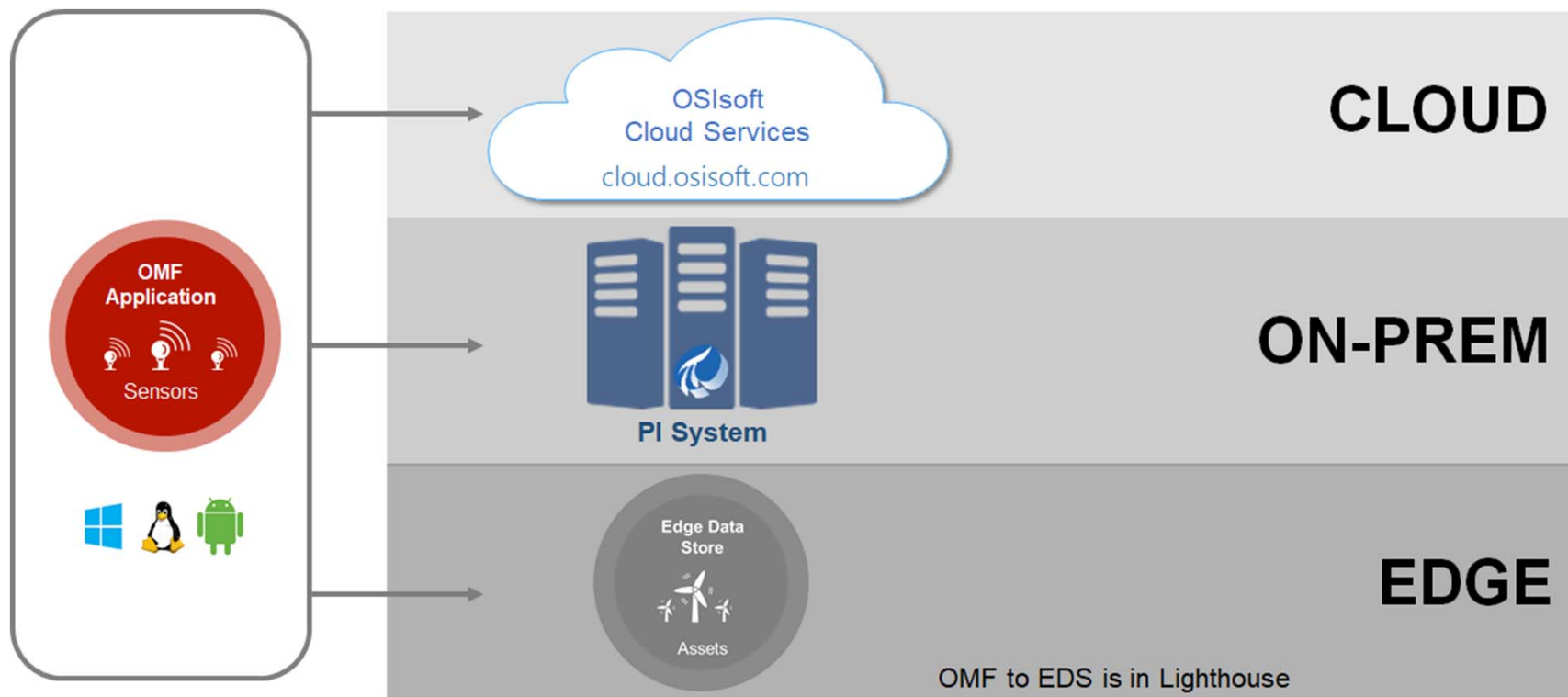
What is the OSIsoft Message Format (OMF)?

	Contract based message format for data ingress		Written specification and sample code		Supports streaming data & metadata
	Connectivity to PI Servers, OSIsoft Cloud Services and Edge Data Store		Enables application development by end customers, partners and 3 rd parties		Independent of operating system & programming language

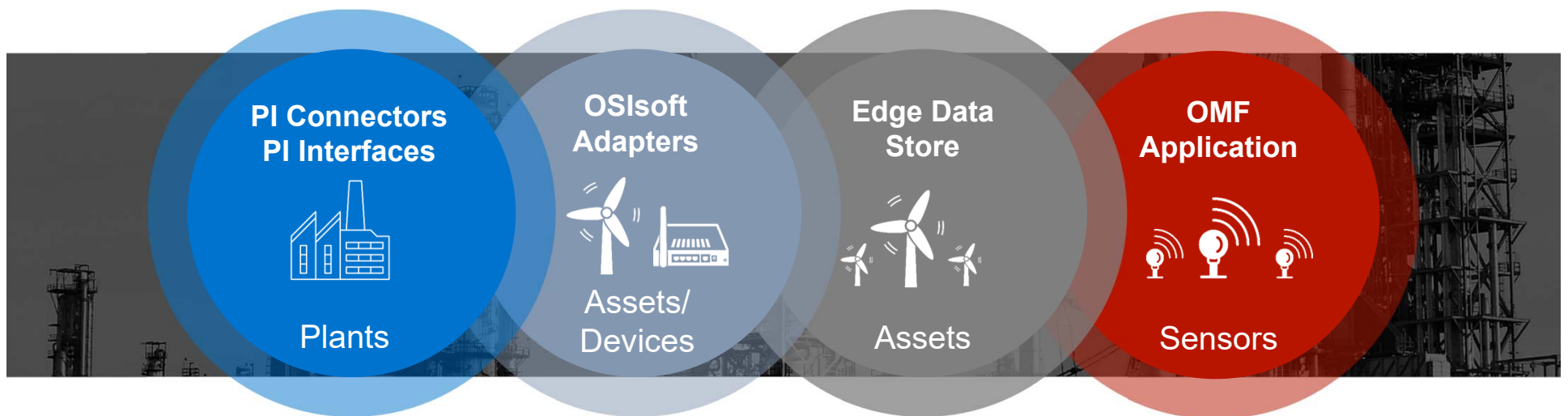
What OMF is not:

	A replacement for PI Web API, PI AF SDK or other OSIsoft API		An application development framework
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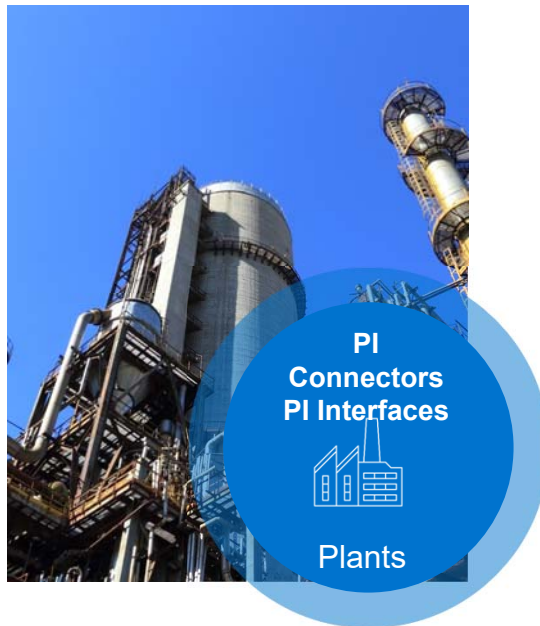
Connectivity to All OSIsoft Systems



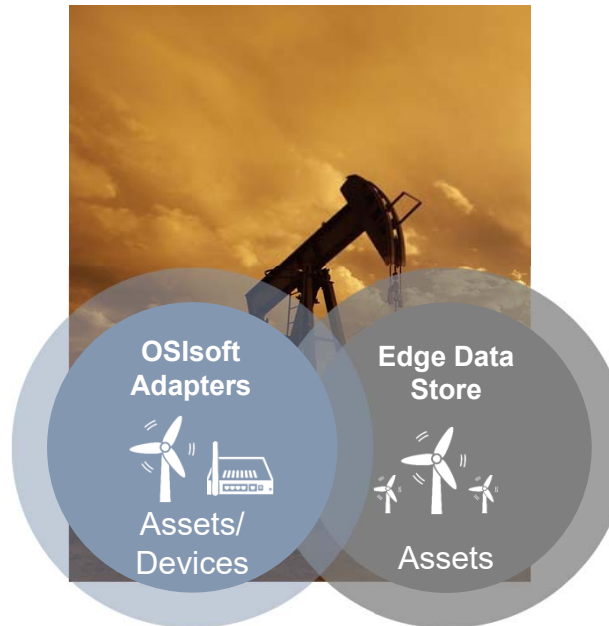
OSIsoft Data Collection



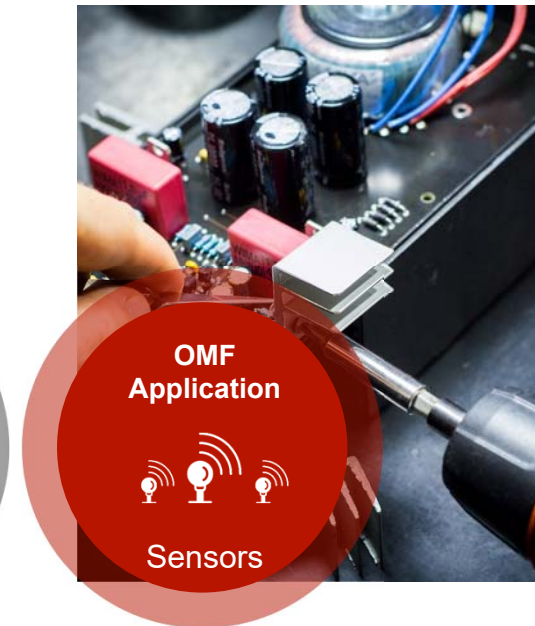
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OSIsoft Adapter Lighthouse Program

- OSIsoft provides:
 - OSIsoft Adapter software
 - Installation & configuration support
 - Technical support
 - Program management
- Participant provides:
 - Viable scenario
 - Resources to use OSIsoft Adapters
 - Feedback on use of OSIsoft Adapters
 - Willingness to document a success story and participate in a future PI World presentation

Communicate with OSIsoft Product Managers



<https://feedback.osisoft.com>

.....
If it is not shared on the feedback portal, it didn't happen!

Speakers



- Allison Muraski
- Product Manager | Data Collection
- OSIsoft
- amuraski@osisoft.com



- Ellery Murdock
- Product Manager | Data Collection
- OSIsoft
- wmurdock@osisoft.com