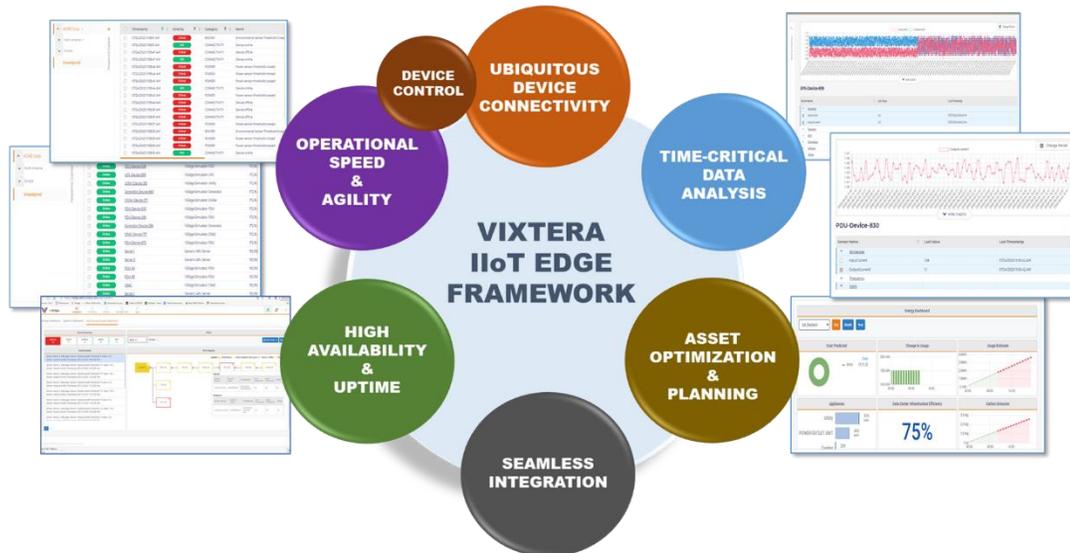# Vixtera IIoT Business Primer

Vixtera is a technology innovator and developer of IIoT edge software (ViEdge) and integrated solutions for industrial Enterprises.

The ViEdge software framework consists of defined set of products and applications utilizing Vixtera innovative patented algorithms and technologies to accelerate asset management and decision making, enhance operational visibility and reduce the cost of operation
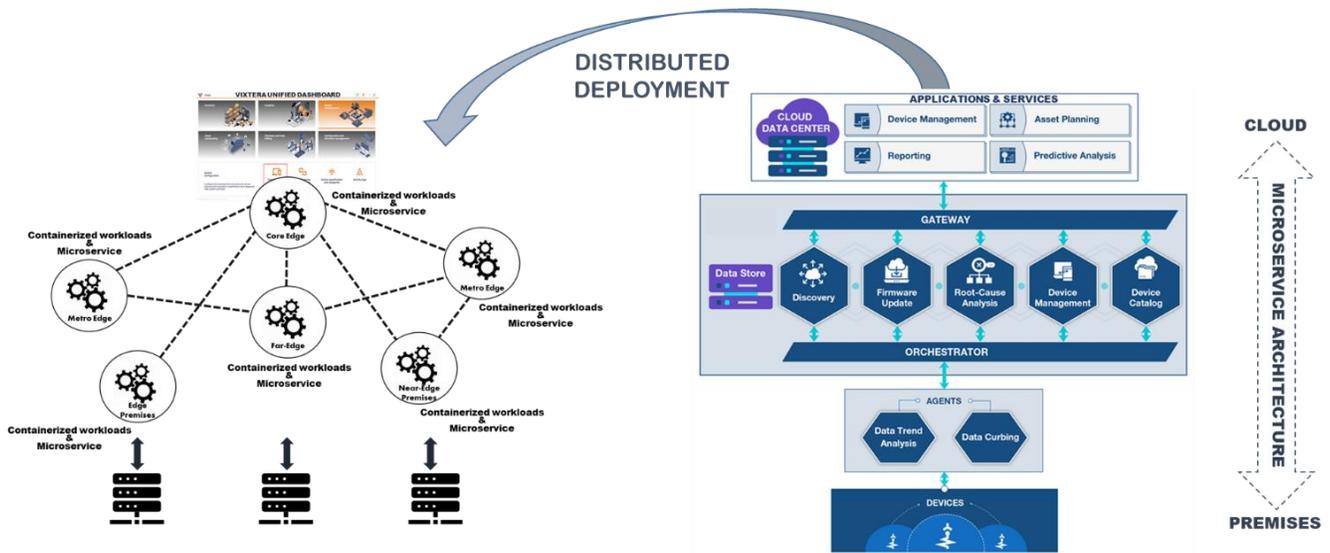
Key Technological Investments & Critical Components

The notable **unique value propositions** include:

- **Ubiquitous Connectivity and comprehensive device management**
  A patent-pending declarative protocol delivering 100x velocity of device on-boarding and maintenance across ANY communication and transport protocol, or device type/brand. No drivers, SDK or DIY software is required
- **Instant failure detection and prevention in plurality of connected ecosystem (patent issued June 2021)**
  A patented algorithm helping to promptly identify the root cause and a chain of events that's leading to a problem setting out the opportunity for speedy failure detection and prevention of potential breakdowns.
- **Auto-generation of AI/ML labeling reducing cost and complexity of predictive services**
  A patent-pending technique for trustworthy predictive analysis utilizing source of failure (and chain of events that's leading to a problem) as a reliable label (and patterns) for NN training and AI/DL modeling.
- **Hierarchical multilevel data curation with adaptive feedback instantly yielding meaningful insight**
  A patent-worthy innovative technique for instant event data collection, processing, and analysis at the edge. Eliminates duplication of metadata whereas reducing frequency and size of transmitted data; contextualizes and aggregates relevant event data providing granular, timely and reliable insight across IIoT ecosystem
- **Rapid insight and decision making delivering quick and resolute actions**
  A descriptive mechanism for instant extraction, aggregation, and classification of meaningful event and data at the edge. A "drag-n-drop" Query Builder UIs for rapid delivery of custom analytics and applications.
- **Asset visualization improving planning, productivity and efficiency of industrial enterprises**
  A mechanism of gauging and optimizing the use of asset that offers comparative digital analysis between existing and new asset perspectives, would it be new location, product or operating condition.
- **Seamless integration with external analytics platforms, cloud and applications**
  A mechanism for cohesive physical to logical interconnectivity across single data plane between ANY device, system, platform, application or cloud without needs for frequent patches, proprietary "interpreter" software and endless integration

The cloud-native ViEdge software is **architected as a collection of connected microservices** and container-based workloads unified by purposely-built processes and functions. It galvanizes interdependencies between devices and applications and, in doing so, it enables full-featured processes to drive self-contained operation in the cloud or on the edge, yet stay connected anywhere across the network. The dynamic environment scales horizontally and vertically, and can be rapidly deployed anywhere within the ecosystem.

Vixtera's innovative software framework offers **ready-made package** of essential components helping to

accelerate and simplify IIoT deployment and operation. We empower it with **technical expertise** to customize, integrate and productize your solution.

Vixtera focuses on **Industrial Automation** within **asset-intensive industrial segments** like, Enterprises and Manufacturers, as well as Value-Added Resellers (VARs) and System Integrators (SIs) who support the former with this daunting effort.

Vixtera **go-to-market strategy** aligned with following business objectives:

a) **co-partner with leading IIoT/Analytics/Cloud-Provider's vendors**, platforms and manufacturers to enhance their product offerings utilizing Vixtera IPs and innovative technologies

b) **direct engagement with small and mid-size enterprises** using ready-made ViEdge framework and ability to quickly customize and productize the solution

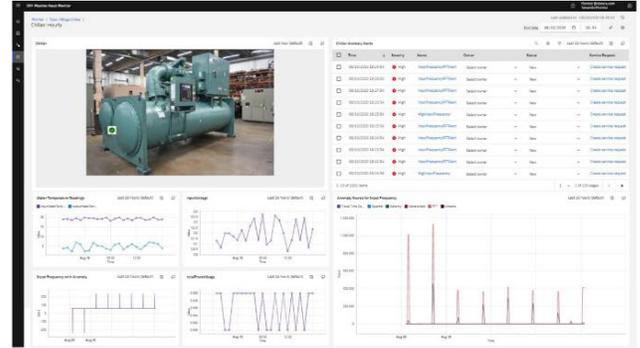c) **ISV technology partnership** with selected Solution Aggregators and System Integrators

Vixtera IIoT Business Primer

USE CASE #1:   High visibility/predictive maintenance -   Food-processing Enterprise

BENEFITS

* Continued operation
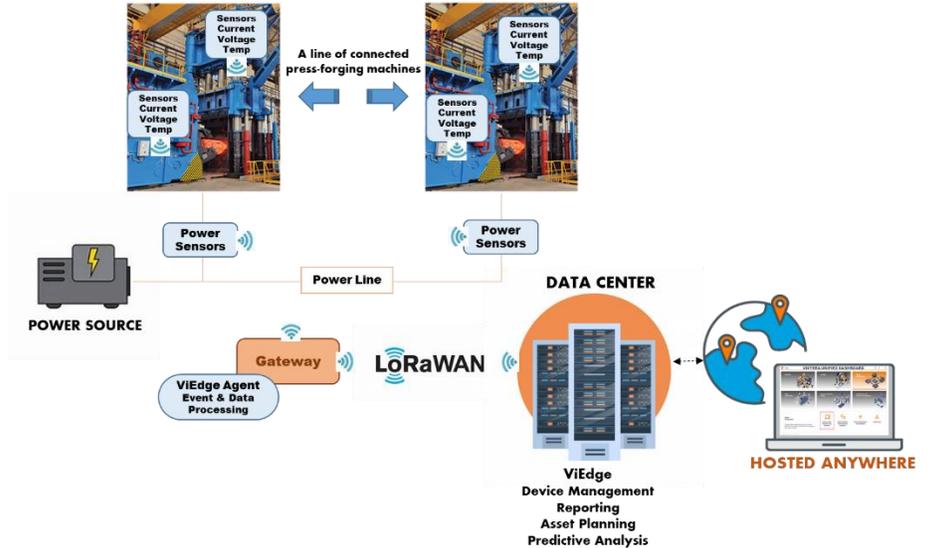* Eliminated breakdowns and costly repairs
* -100% in machine downtime

✓ **READY-MADE**

✓ **PLUG-N-PLAY**

USE CASE #2:   High visibility/real-time failure detection -   Press-forging Manufacturer

BENEFITS

* Improved visibility & control
* 2x in reduced operation downtime
* Reduced maintenance cost
* Improved productivity & efficiency

USE CASE #3:   Automated supply chain -   Stamping Manufacturer

BENEFITS * Automated supply chain   processes
* +40% time-to-market
* +70% forecasting accuracy
* -40% in machine downtime
* -30% in cost of inventory holding
* +50% in productivity