

The future of store digitalization





Curated and stocked



Convenient and frictionless



Timely and insightful service

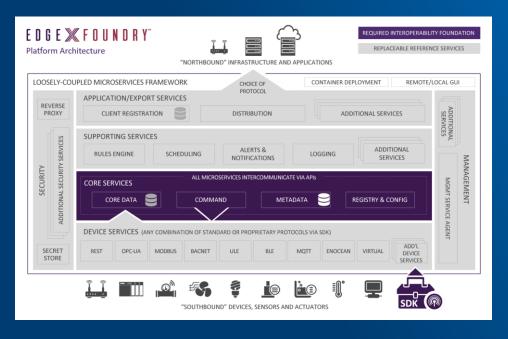
Pillars of experiential retail

Focuses of Open Retail Initiative with Edge-X

ChallengeFocusIntegrationMiddlewareSimplificationFuture Ready ComputeInnovationAl Ready

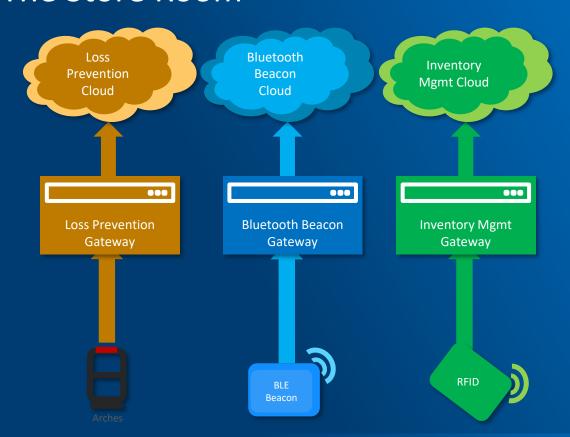
The framework for our work is focused on three challenges that focus on specific components of technology.

Why EdgeX Foundry

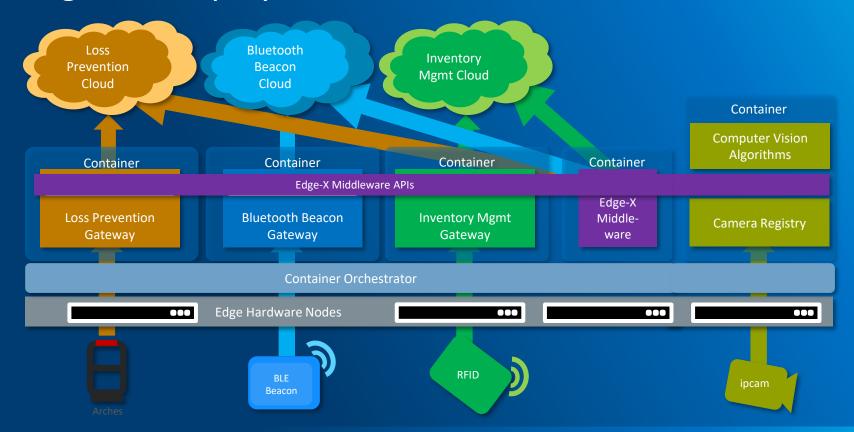


- Truly open, full transparency
- Long-term durability to address scale and growth needs
- EdgeX Foundry momentum continues for IoT interoperability across multiple industries
- Linux Foundation mindshare and infrastructure – largest and most pervasive open source software project
- Marathon vs. Short Sprint learn, leverage and lead

The Store Room



Integrate, Simplify and Innovate

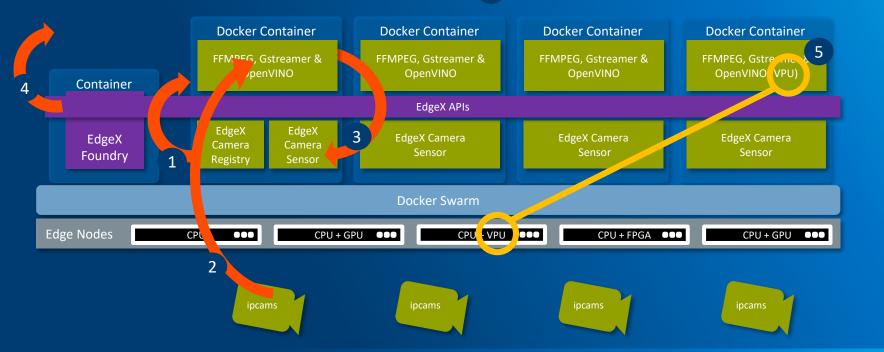


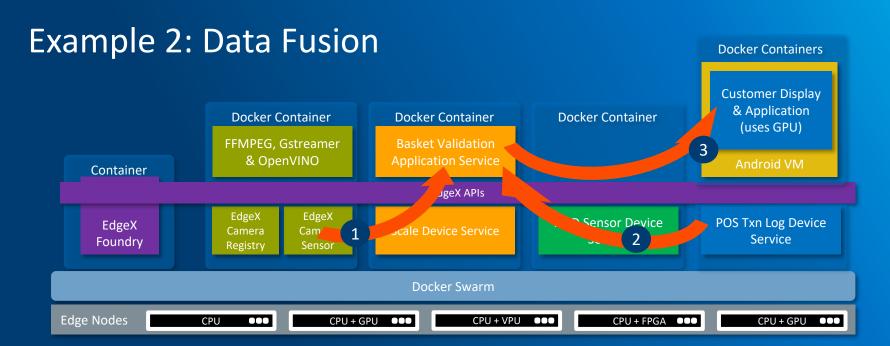
IOT



Example 1: Computer Vision

- 1 Gstreamer pipelines are spun up based on camera tags
- 2 IP cameras stream data to Gstreamer pipelines
- 3 Inference events are published to EdgeX
- 4 EdgeX makes inference available for apps and export
- 5 Containers utilize accelerators when available





- 1 Cameras are used as virtual sensors in the experience
- 2 Sensors such as scales and scanners feed the basket validation algorithms
- Data from separate sources, separate vendors, are utilized to guide the customer experience

EdgeX roadmap

Oct

Fuji

2019 Distribution support / east-west support, more management capability

Jun

Edinbur

2019

Support binary data, certification program, improved and more scalable northbound connectors / application services, additional southbound connectors to common protocols and devices

Oct

Delhi

2018

First manageability capabilities, Go / C device service SDKs & sample devices services, EdgeX UI

JUN 2018 Californi

First integration of security, Java to Go code base, run in <256MB RAM, come up in < 10 sec

Oct 2017

Barcelo

marroved fit and finish, formalized Core Service APIs, additional Device and Export Services, test apparatus

OEMs / ODMs ISVs and SIs RETAILERS Innovation use cases drive Modularized Efficient demand for Premium Simplified Future ready Able to easily sell Easily scale up to Simplification across full **Premium** additional capabilities enterprise Scale into brownfield and Focus more on value add Modular and nimble greenfield opportunities and less on commodity Flexible Speed of deployment components

Open Retail Initiative with EDGEX CREATE VALUE FOR ECO-SYSTEM

EdgeX Community members







Choose Your Participation

Commit

to the initiative

- Join and follow the progress
- Promote to your networks

Collaborate

on the Commerce Project

- Attend Commerce Project meetings
- Collaborate on project deliverables
- Promote to your networks

- 1. Code for the greater good
- 2. Use cases, components (and code)

Contribute

to EdgeX Foundry

- Become an EdgeX Foundry member and vote to shape standards
- On behalf of your company, contribute code and/or developer resources
- Promote to your networks

- 1. Code for the greater good
- 2. Use cases, components (and code)
- 3. Influence industry standards aligned to EdgeX



CALL FOR ACTION

- 1. Sign up for a free Linux Foundation account
 - a. Create an account at: https://identity.linuxfoundation.org/
- 2. Subscribe to the Commerce Project calendar meetings
 - a. Browse to: https://wiki.edgexfoundry.org/display/FA/EdgeX+TSC+Group+Calendar
 - b. Under the "Subscriptions" header, click on the "elipses"(...) that appears when you hover over the purple item labelled "EdgeX-TSC-Vertic..."
 - c. Choose "Subscribe" or "Export to iCalendar" depending on your preferred method of adding appointments to your calendar
- 3. Subscribe to the Commerce Project mailing list
 - a. Enroll at: https://lists.edgexfoundry.org/g/EdgeX-TSC-Vertical-Solutions/
 - b. Click on "+ Join this group"



