

(Not just) OpenShift Al: Demo

Why is Red Hat portfolio perfectly positioned for the age of Al

Red Hat Summit Connect

Warszawa

14.11.2024





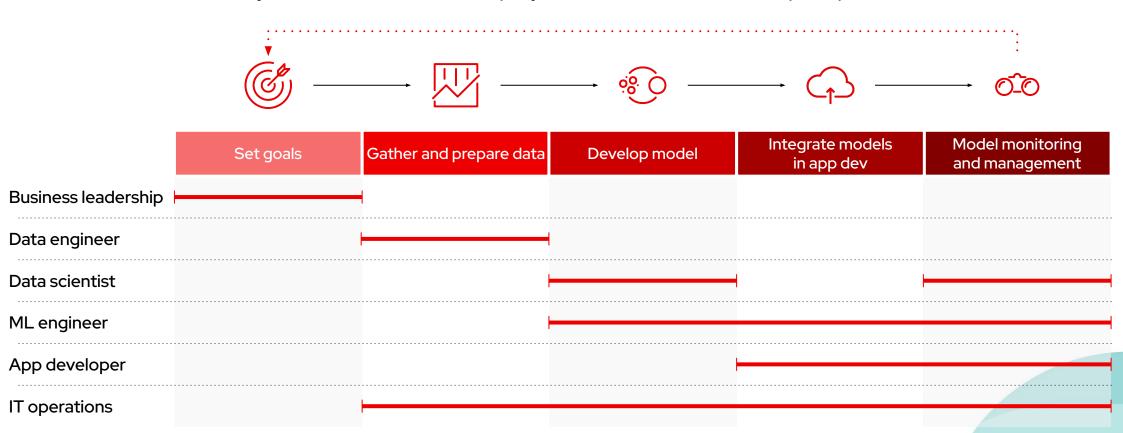
Anton Giertli

Senior Solution Architect Red Hat



Operationalizing AI/ML is not trivial

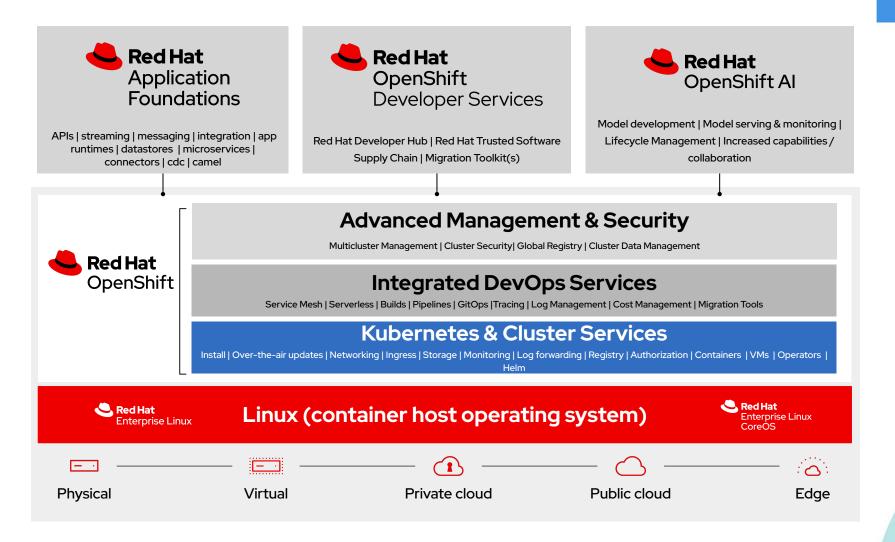
Every member of the team plays a critical role in a complex process





Boost the intelligence of your applications with Red Hat

Build an open, flexible foundation for Al/ML







Red Hat OpenShift Al

Hybrid MLOps platform

Collaborate within a common platform to bring IT, data science, and app dev teams together

Available as

- managed cloud service
- traditional software product on-prem or in the cloud!



Model development

Conduct exploratory data science in JupyterLab with access to core AI / ML libraries and frameworks including TensorFlow and PyTorch using our notebook images or your own.



Model serving & monitoring

Deploy models across any cloud, fully managed, and self-managed OpenShift footprint and centrally monitor their performance.



Lifecycle Management

Create repeatable data science pipelines for model training and validation and integrate them with devops pipelines for delivery of models across your enterprise.



Increased capabilities / collaboration

Create projects and share them across teams. Combine Red Hat components, open source software, and ISV certified software.





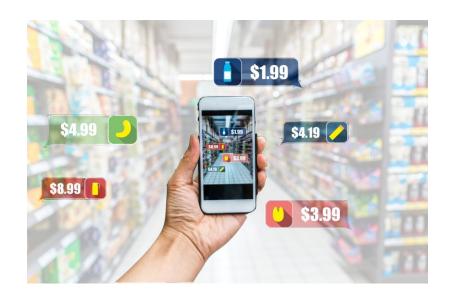
Generated by ChatGPT



Use case: Superstores

Shoppers & Staff handsets

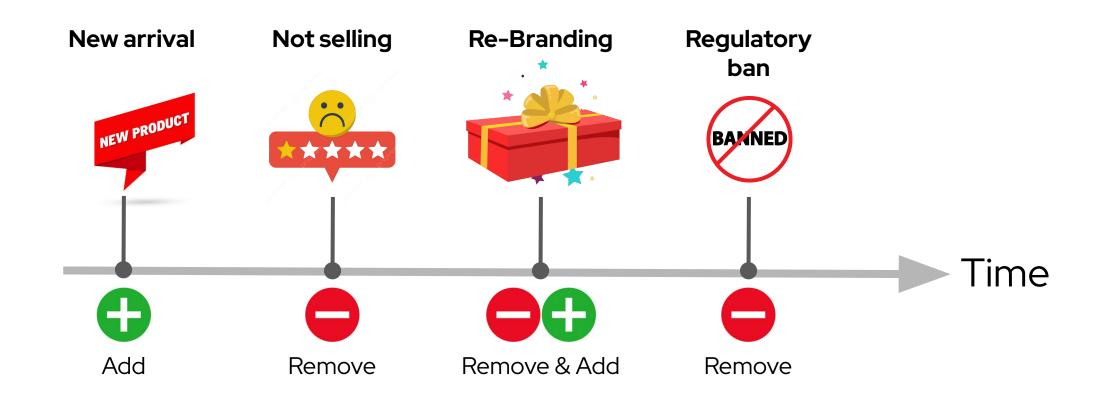
Price check on articles







Product Catalogue over time







Building Intelligent Applications and Data Pipelines

Application Services Components



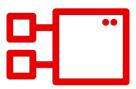
Events

Simplifies the deployment, configuration, management of Apache **Kafka** on OpenShift & enables Change Data Capture



Store and Forward

High-performance messaging implementation based on **ActiveMQ** for edge protocols like MQTT and AMQP



Integration

Solve integration problems by applying known patterns and components running **Apache Camel** on Quarkus or

OpenShift



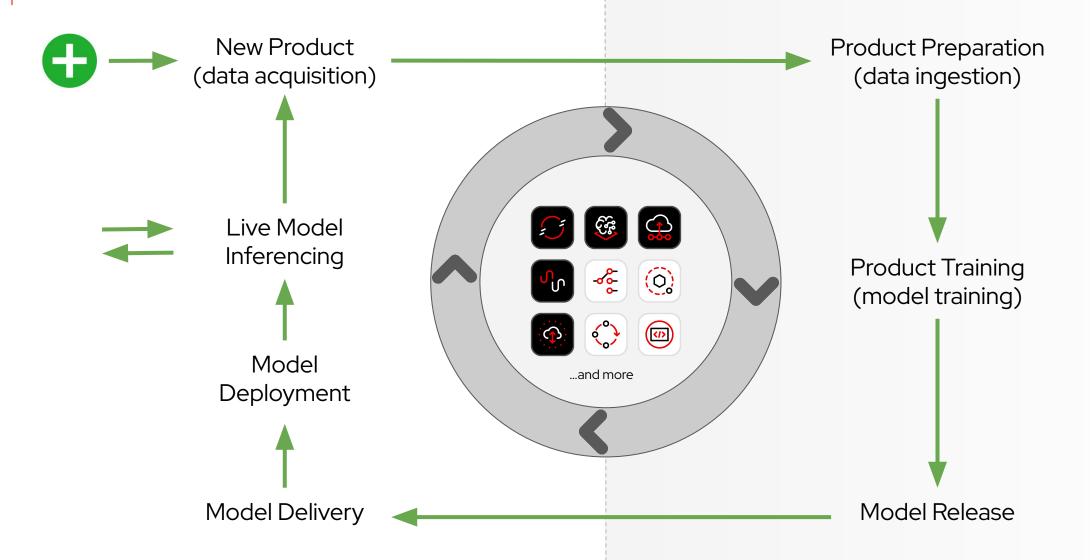
Service Network

Router to build large-scale service networks and create a redundant application-level services across locations with

Service Interconnect
(Skupper)

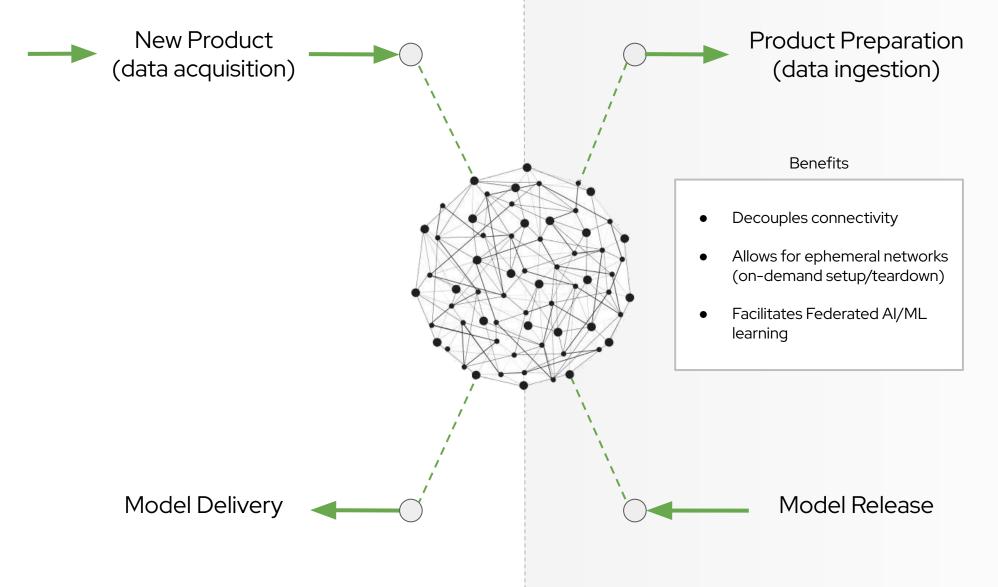


Data Pipelines Circle



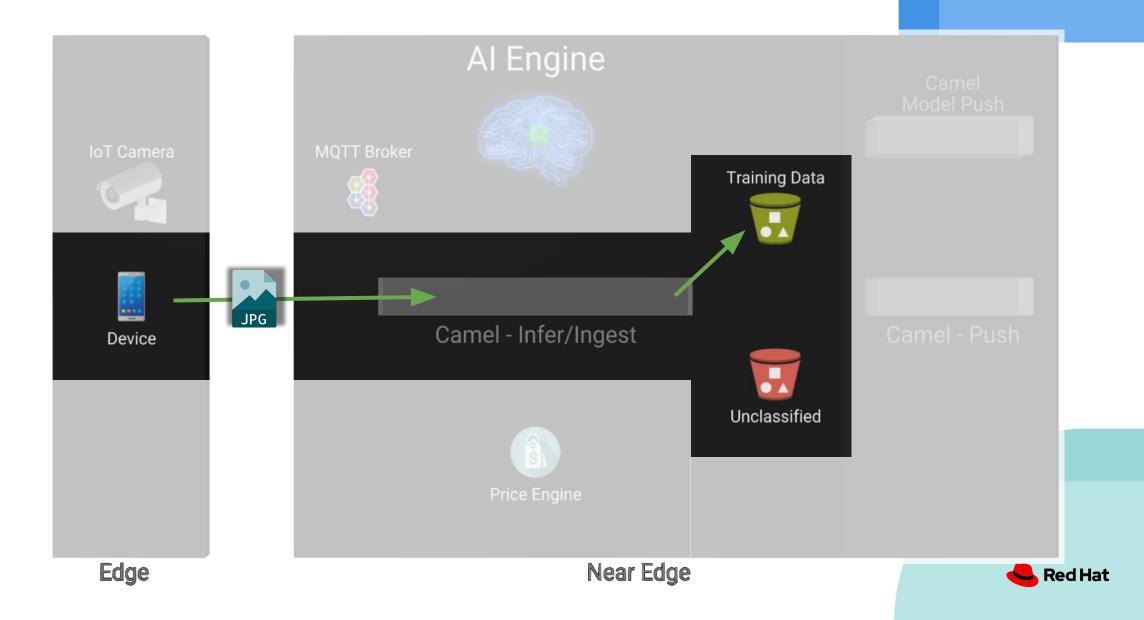


Edge to Cloud: Service Interconnect

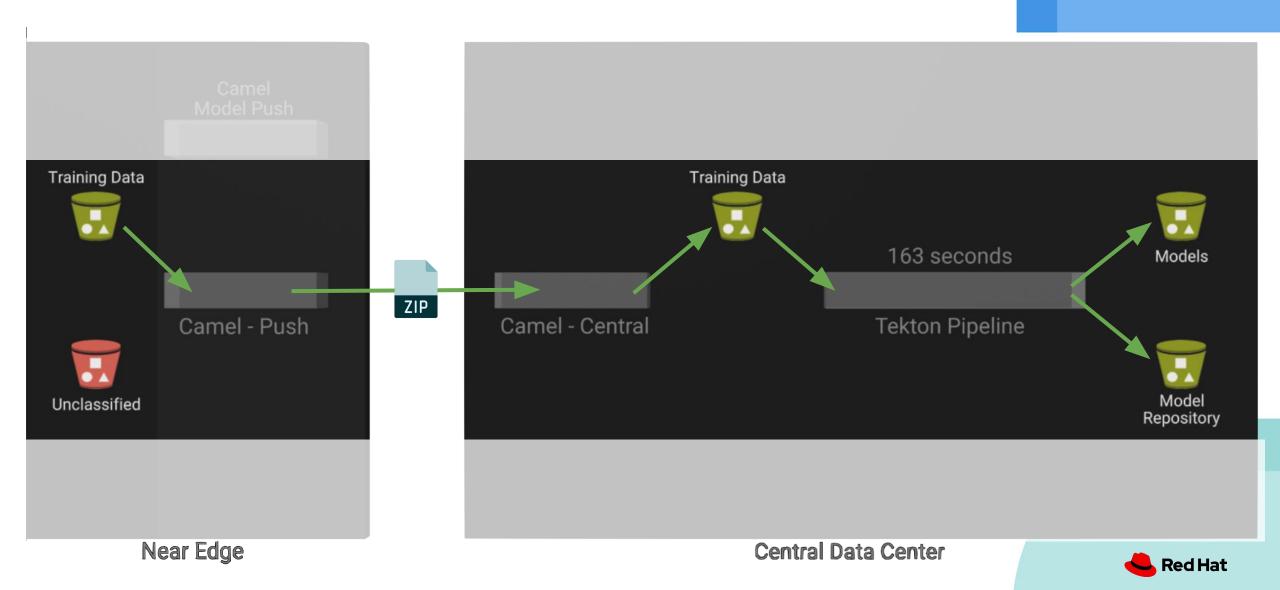




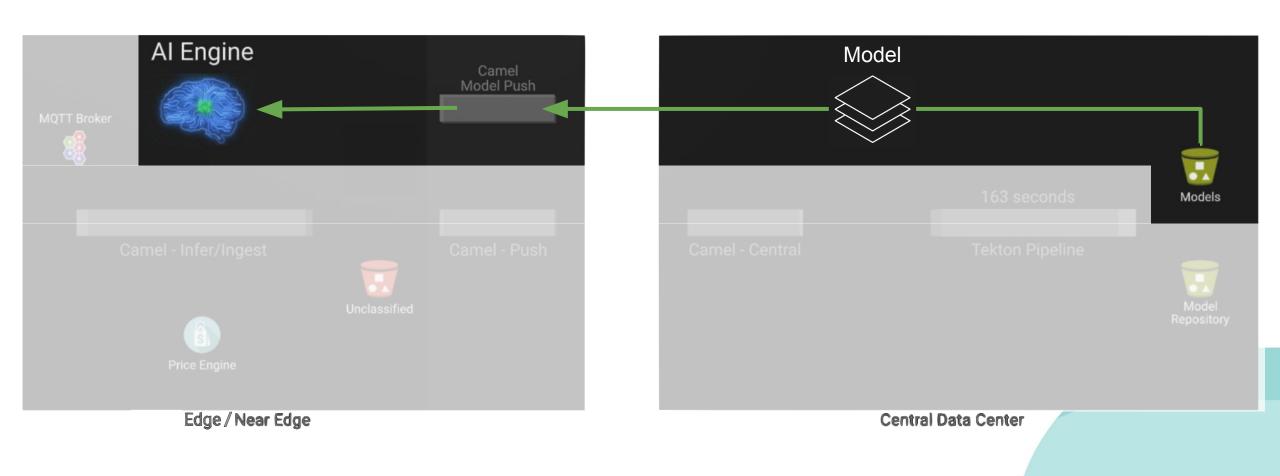
Data acquisition



Data preparation & modeling

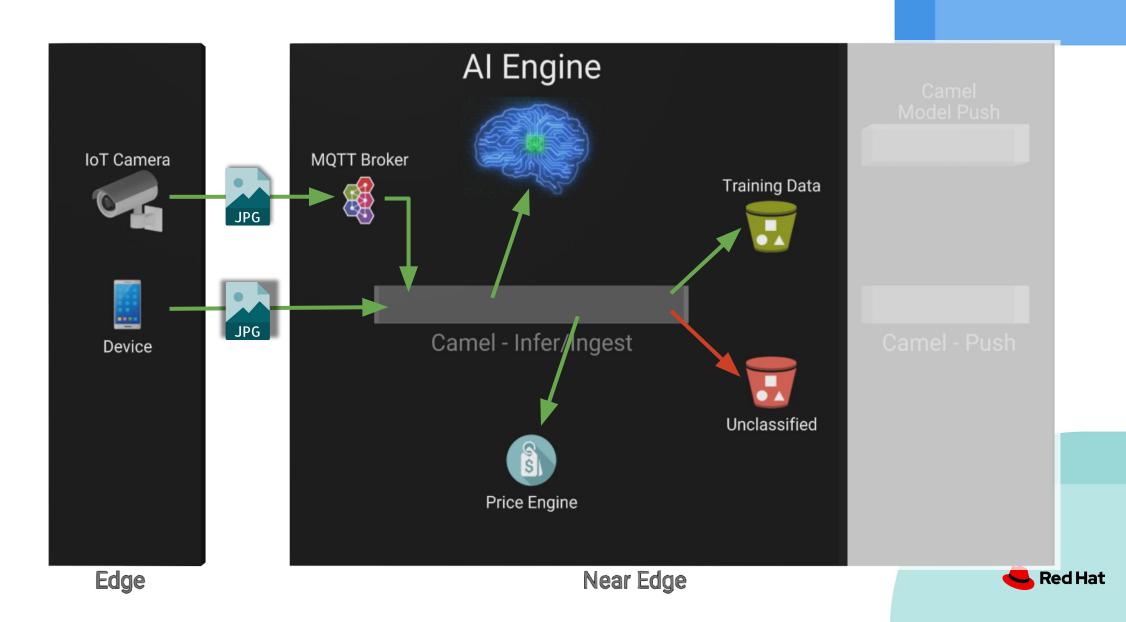


App Dev & Delivery

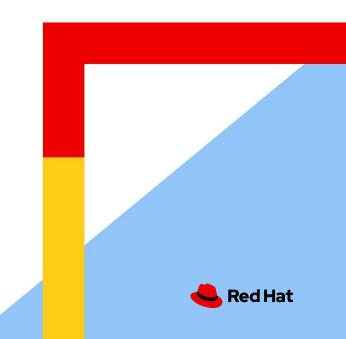


Red Hat

ML Inferencing

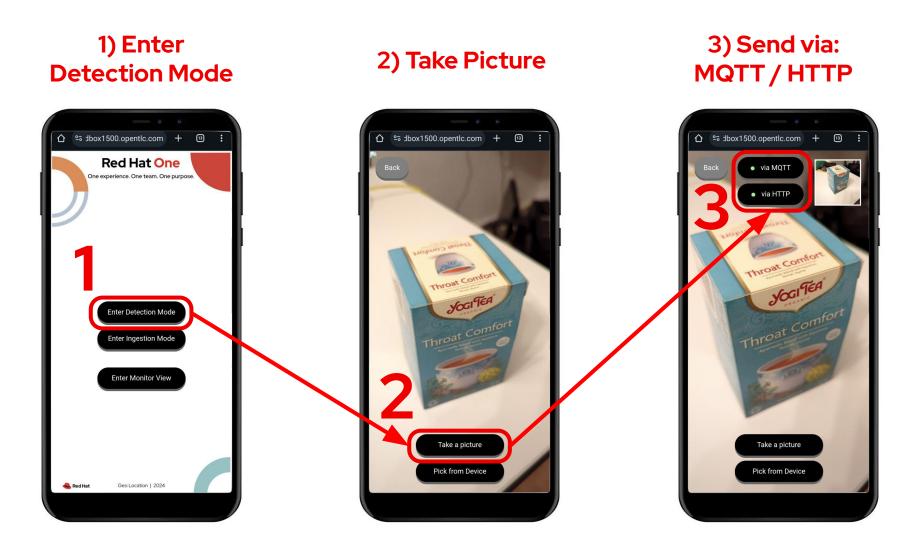


Let's jump to the environment



Detection Mode

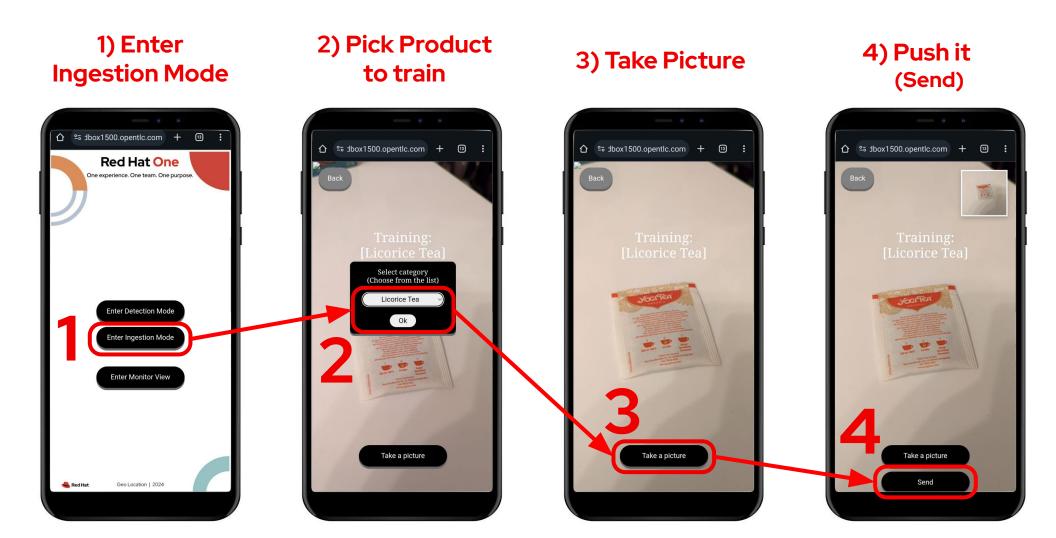
(Get price tag for Product)





Ingestion Mode

(Push Training Data for Product)



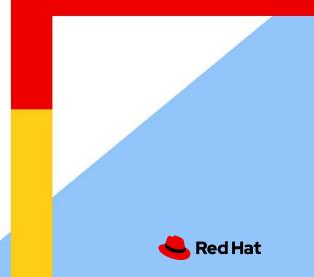


Short Link:

red.ht/shopper

QR code





Summary





Al-powered intelligent software applications help achieve key business goals



But there are challenges

People, process, and technology challenges can delay deployments. This can have a negative business impact.



Red Hat can help

We have capabilities to help speed up AI/ML initiatives, allowing faster delivery of intelligent software applications.

