La vida de una aplicación

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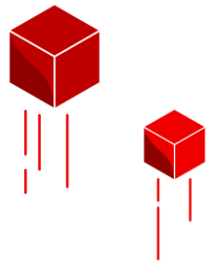
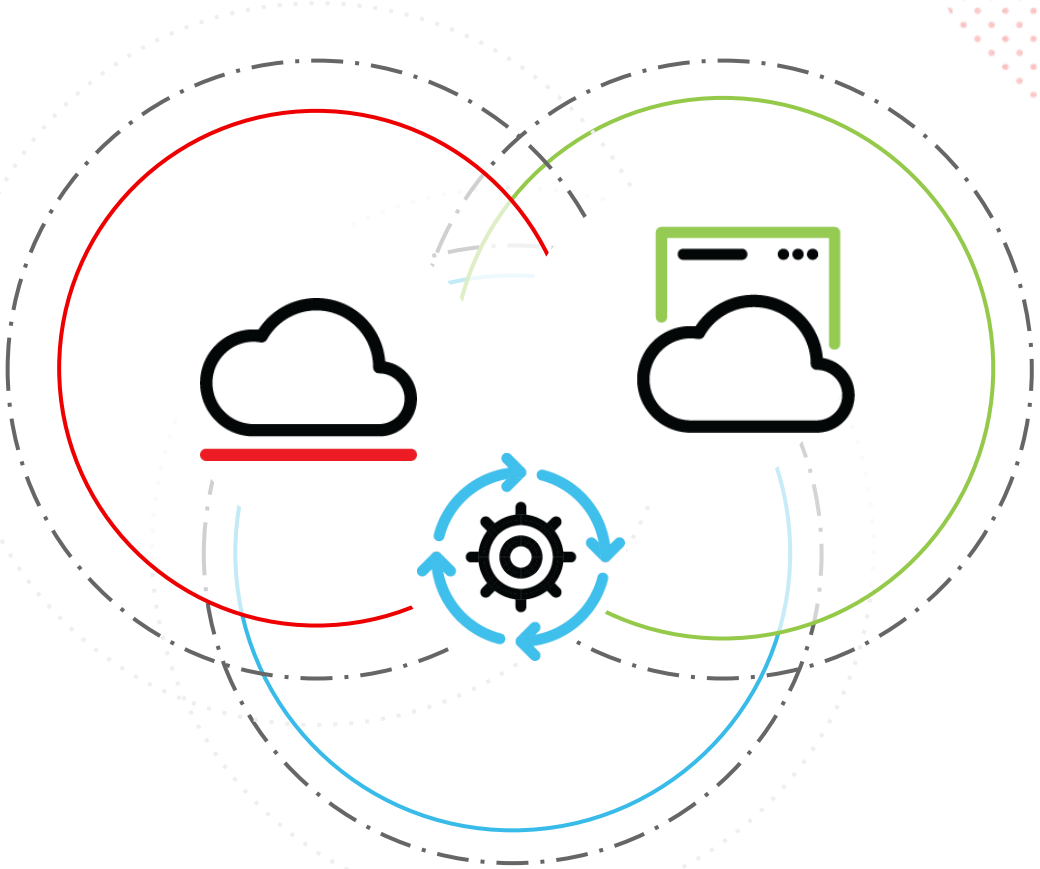


Los **tres pilares** de la *Open Hybrid Cloud*

Infraestructura Nube Híbrida

Optimiza costes de infraestructura mediante la **construcción** o el uso de entornos **híbridos**



Desarrollo Nativo Nube

Desarrolla, **implementa** y **administra** cualquier **aplicación**, en cualquier entorno y proporciona a los **desarrolladores** lo que necesitan para innovar

Gestión y Automatización

Mayor eficiencia y seguridad al automatizar la infraestructura y la gestión de la aplicación

Red Hat | intel


Hi, I'm
Red
Hi, I'm
Hat

BEBÉ

Decisiones, decisiones y más decisiones

Red Hat

Primera decisión **tecnológica**: INTERCOMUNICADOR

Evolución constante e imparable

Our Strategy

- Ubiquitous Compute
- Pervasive Connectivity
- Cloud to Edge Infrastructure
- Artificial Intelligence

Product Leadership	Lead and democratize compute with Intel x86 and XPU
Open Platforms	Deliver open & secure SW & HW platforms driving industry-shaping standards
Manufacturing at Scale	Create world-changing technology and at-scale manufacturing and services with IDM 2.0

Manufacturing at scale

Intel Foundry Services

Up to **€80 billion** investment over the next decade. From R&D to design, advanced chip packaging to manufacturing, and foundry services.

€33 billion investment in phase one:

Germany

Leading edge-Fab

Ireland

Fab-extension

France

New R&D & design hub

Italy

Poland

Spain

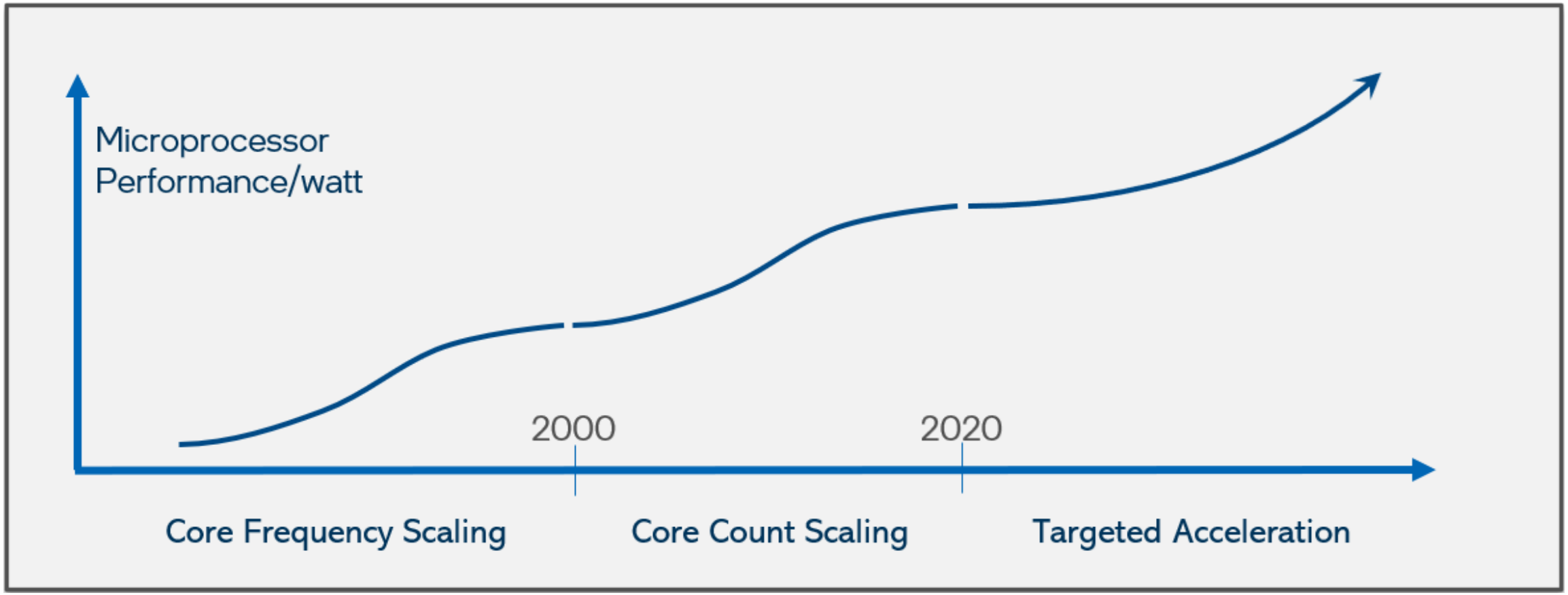
Belgium

Netherlands

Expanding capabilities in R&D, manufacturing, state-of-the-art packaging technologies & foundry services

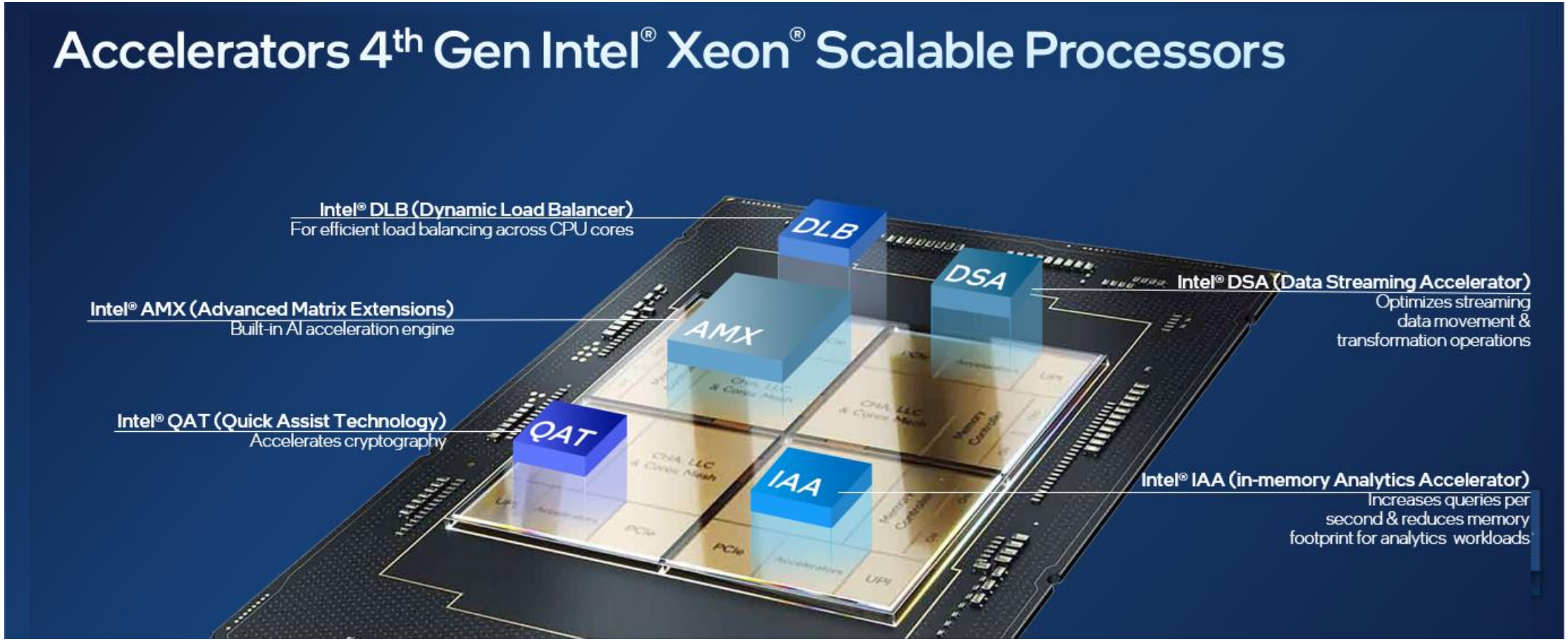
Product leadership

Beyond the general purpose

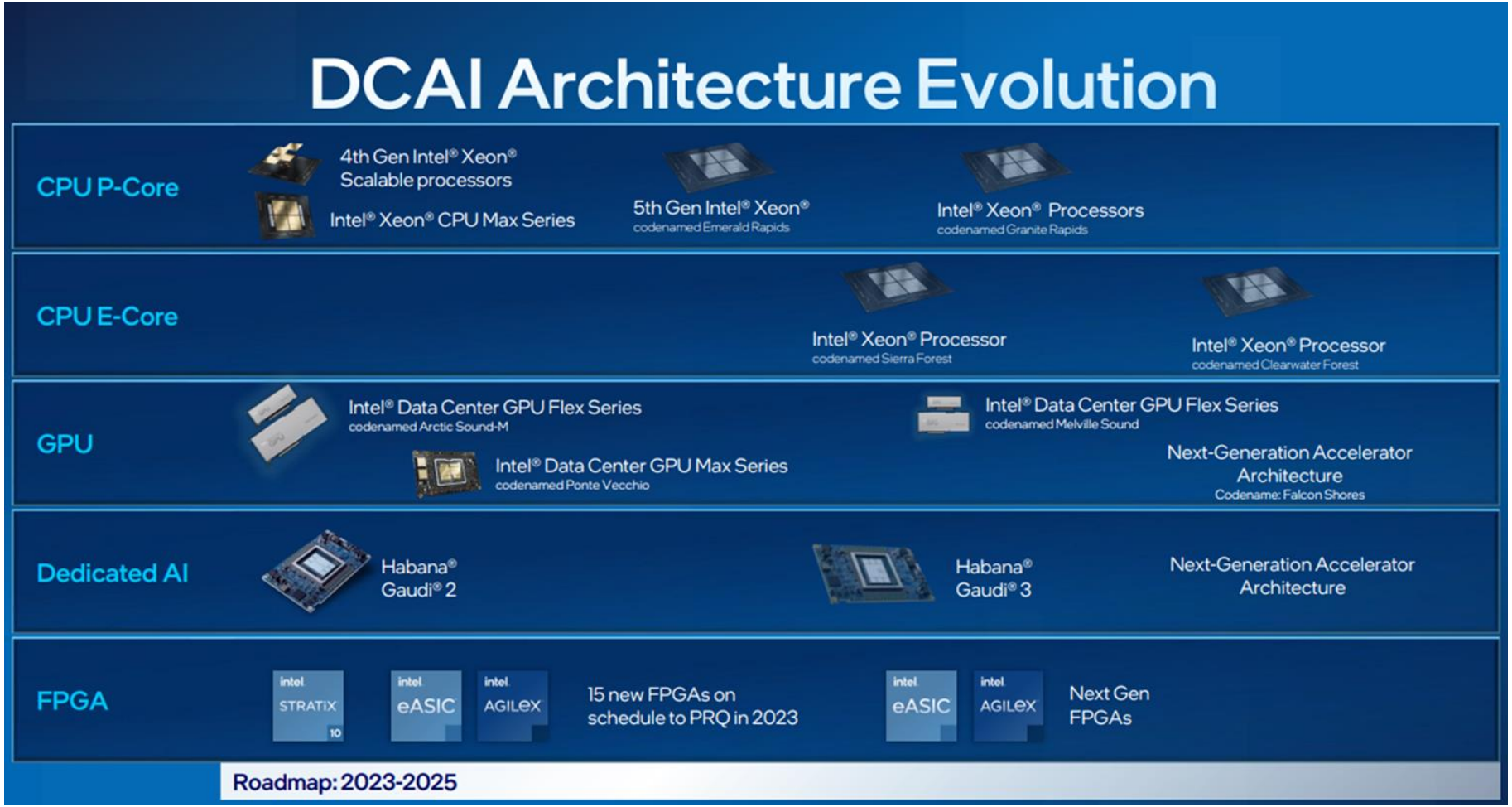


Compute demands are bigger than ever before

In the data center, in the network and at the edge



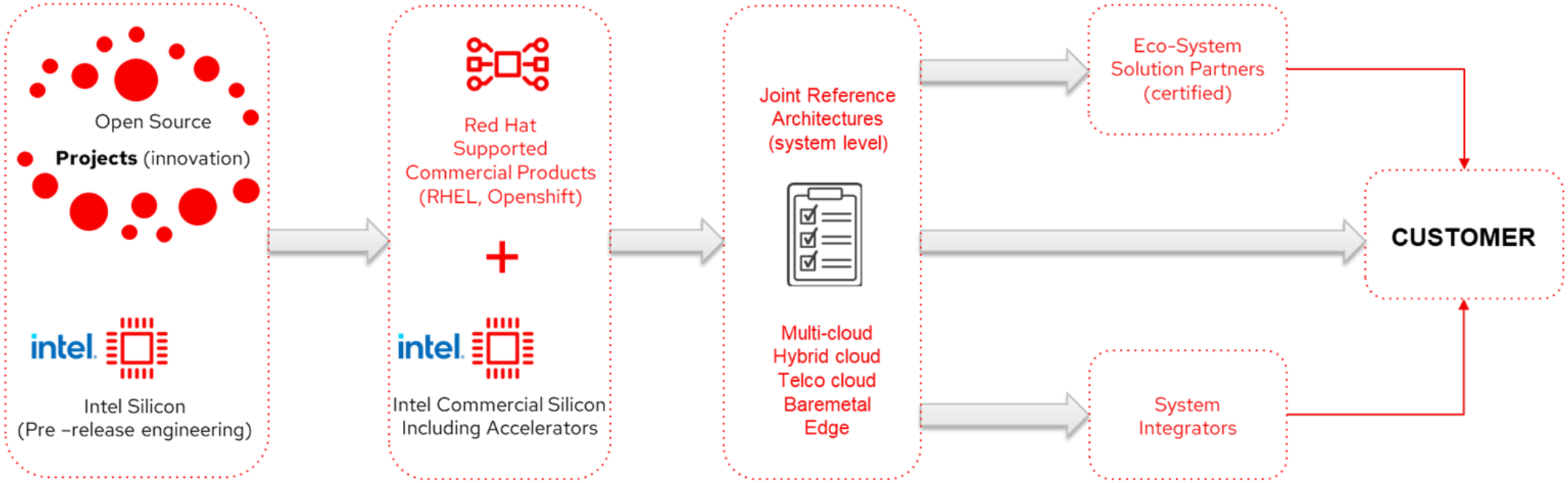
Product leadership in the data center



Open platforms

Long history of innovation and stability

Red Hat & Intel the default platform for Digital Transformation



Leveraging our joint partner ecosystem and *developer* communities

Decisiones

- Nombres
- Cunas
- Escuela infantil
- Habitación

Red Hat Runtimes

QUARKUS

Red Hat JBoss Enterprise Application Platform

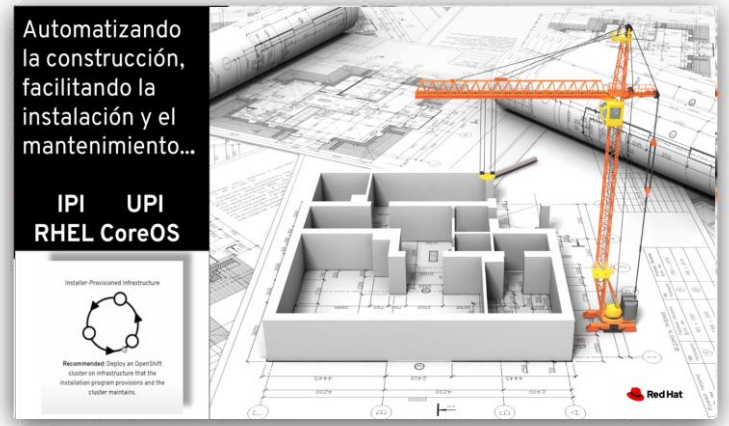
Apache Tomcat

Red Hat JBoss Web Server

spring boot

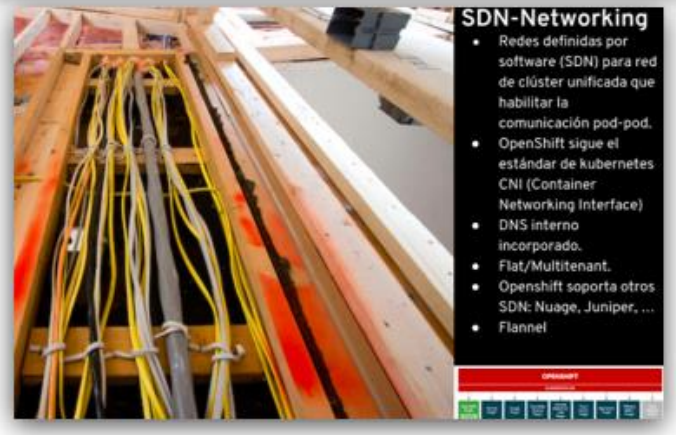
KEYCLOAK

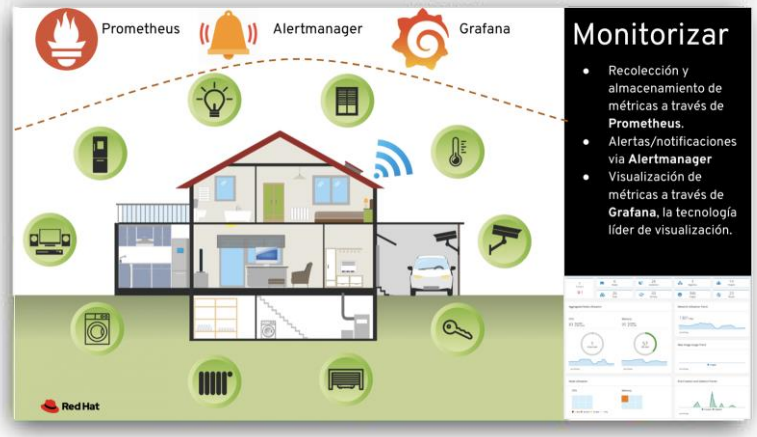

RHEL
SO preferido para el cloud público
SO más seguro
SO adaptado para los contenedores
SO para cada ocasión
FÍSICO
VIRTUAL
PRIVADA
HÍBRIDA
PÚBLICA

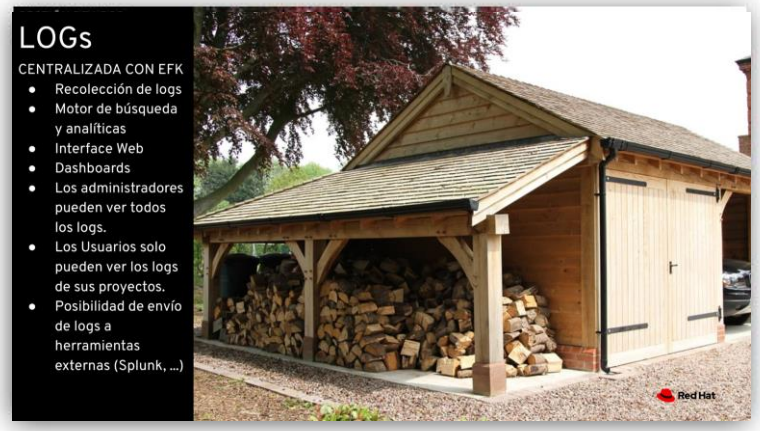

Automatizando la construcción, facilitando la instalación y el mantenimiento...
IPI
UPI
RHEL CoreOS
Red Hat


HAProxy
ENRUTADO Y BALANCEO DE CARGA
Arquitectura de enrutado "Pluggable":
HAProxy Router
F5 Router
Multiple-routers con particionado de tráfico
Protocolos de Router soportados:
HTTP/HTTPS
WebSockets
TLS con SNI
División de Tráfico entre servicios para: Tests A/B, Despliegues Blue/Green y Canary
Ingress/Egress


OPENSHIFT ama CI/CD
Tekton as a Service en OCP
Despliegue del CI/CD existente
ArgoCD para despliegues (GitOps)
TEKTON

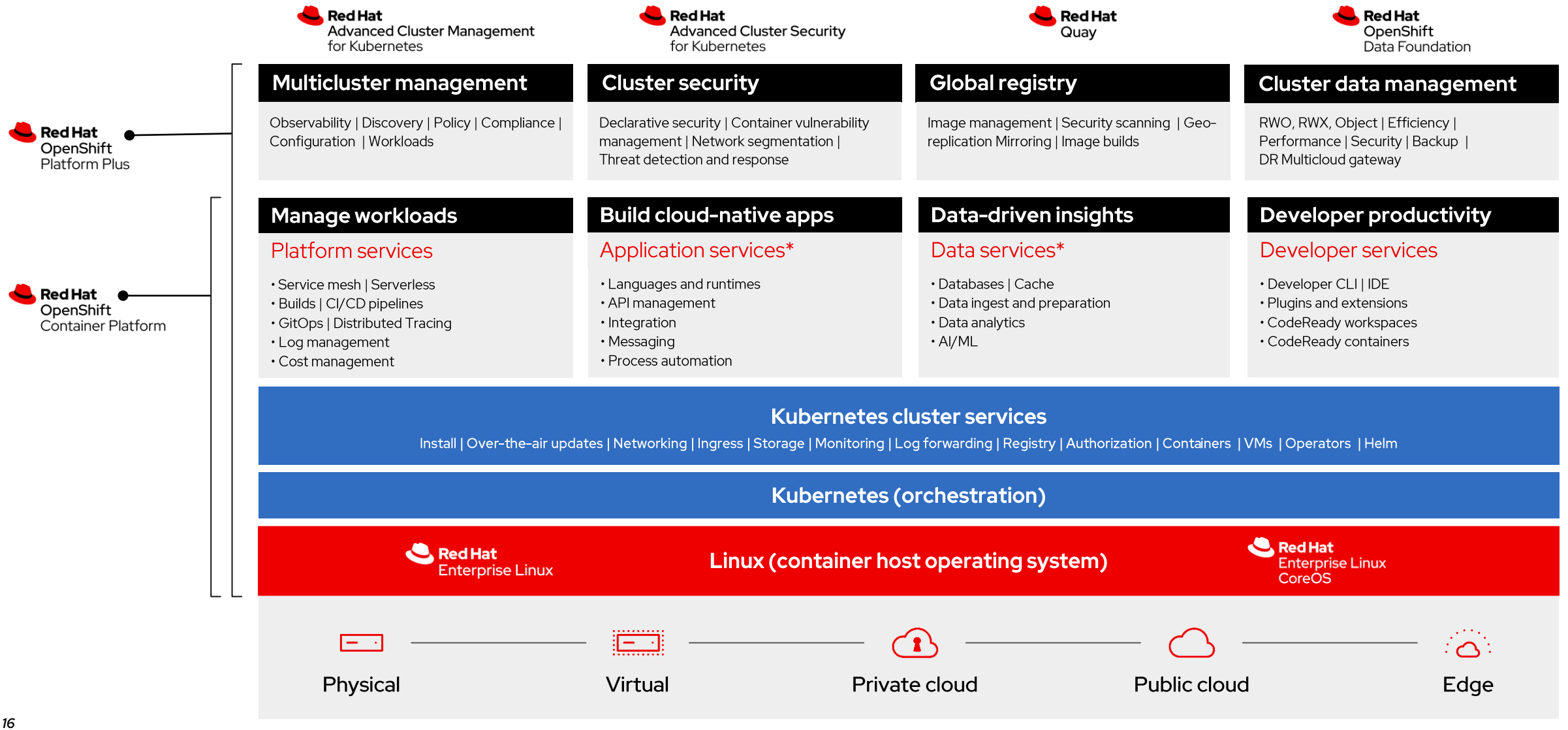

SDN-Networking
Redes definidas por software (SDN) para red de clúster unificada que habilitar la comunicación pod-pod.
OpenShift sigue el estándar de kubernetes CNI (Container Networking Interface)
DNS interno incorporado.
Flat/Multitenant.
Openshift soporta otros SDN: Nuage, Juniper, ...
Flannel


Prometheus
Alertmanager
Grafana
Monitorizar
Recolección y almacenamiento de métricas a través de Prometheus.
Alertas/notificaciones via Alertmanager
Visualización de métricas a través de Grafana, la tecnología líder de visualización.
Red Hat


LOGs
CENTRALIZADA CON EFK
Recolección de logs
Motor de búsqueda y analíticas
Interface Web
Dashboards
Los administradores pueden ver todos los logs.
Los Usuarios solo pueden ver los logs de sus proyectos.
Posibilidad de envío de logs a herramientas externas (Splunk, ...)
Red Hat


Single Sign On: RH-SSO
Permite proteger las aplicaciones web y APIs:
SSO basado en estándares como SAML 2.0, OpenID Connect y OAuth 2.0.
Federación de IDPs como LDAP y AD
Red Hat

Red Hat open hybrid cloud platform



* Red Hat OpenShift® includes supported runtimes for popular languages/frameworks/databases. Additional capabilities listed are from the Red Hat Application Services and Red Hat Data Services portfolios.

** Disaster recovery, volume and multicloud encryption, key management service, and support for multiple clusters and off-cluster workloads requires OpenShift Data Foundation Advanced

INFANCIA

Crecimiento, preparándoles para el futuro

Red Hat

Open Tour

¡Qué rápido crecen!

- Ambiente estudio
- Extraescolares
- Locura
- Variedad

Red Hat | intel

La habitación de la aplicación

Red Hat Application Foundations

Red Hat Application Foundations

Red Hat Application Foundations

Red Hat Application Foundations

Red Hat Application Foundations

Llega la locura!!!! TOCA GESTIONARSE

Red Hat | intel.

OpenShift DevSecOps

Imágenes de contenedores a partir del código fuente con las herramientas de Kubernetes

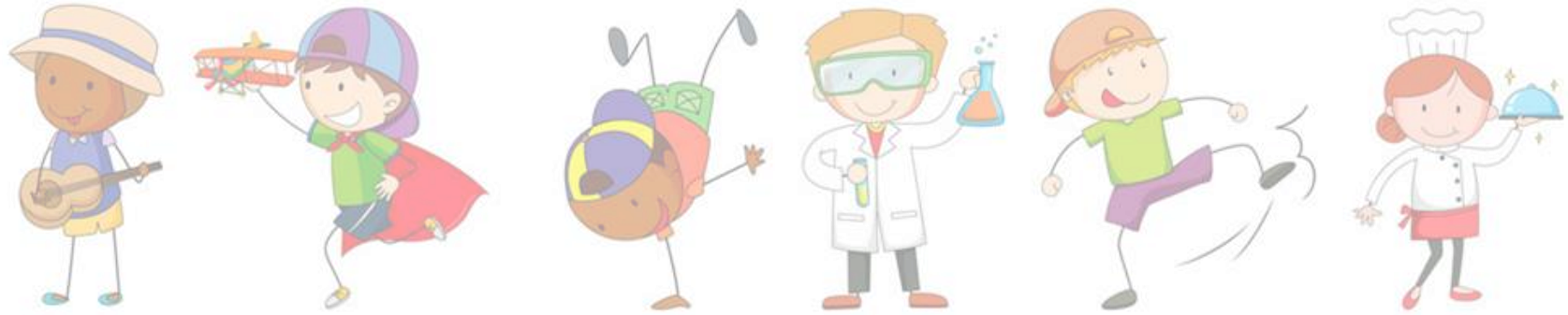
CI/CD tradicional y nativo Kubernetes

GitOps declarativo para entrega continua de múltiples clústeres

OpenShift Builds | **OpenShift Pipelines** | **OpenShift GitOps**

OpenShift

ACTIVIDADES EXTRAESCOLARES



Red Hat | intel

ADOLESCENCIA

El pánico de la “puesta en producción”

Red Hat

Salen a producción

- Control
- Seguridad

Red Hat | intel.

Red Hat Advanced Cluster Management for Kubernetes

Controls clusters and applications from a single console, with built-in security policies, deploying legacy and cloud native applications, enabling day-2 tasks... across multiple clusters at scale.

Red Hat Advanced Cluster Security for Kubernetes

Provide a K8-native architecture protecting your vital applications across build, deploy and runtime, integrating it with your DevOps tooling and workflows to deliver better security and compliance.

Red Hat Quay

Trusted open source container registry platform that runs everywhere: on-prem, cloud, K8s...
Global governance and security controls, with image vulnerability scanning, access control, geo-replication...

Red Hat OpenShift Data Foundation

Delivers resilient and persistent software-defined storage based on Ceph running on-premise or public cloud, providing file, block and object storage, enabling a wide range of data modalities and workloads.

Red Hat Advanced Cluster Management for Kubernetes

Controls clusters and applications from a single console, with built-in security policies, deploying legacy and cloud native applications, enabling day-2 tasks... across multiple clusters at scale.

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Red Hat OpenShift Platform Plus

Red Hat Quay

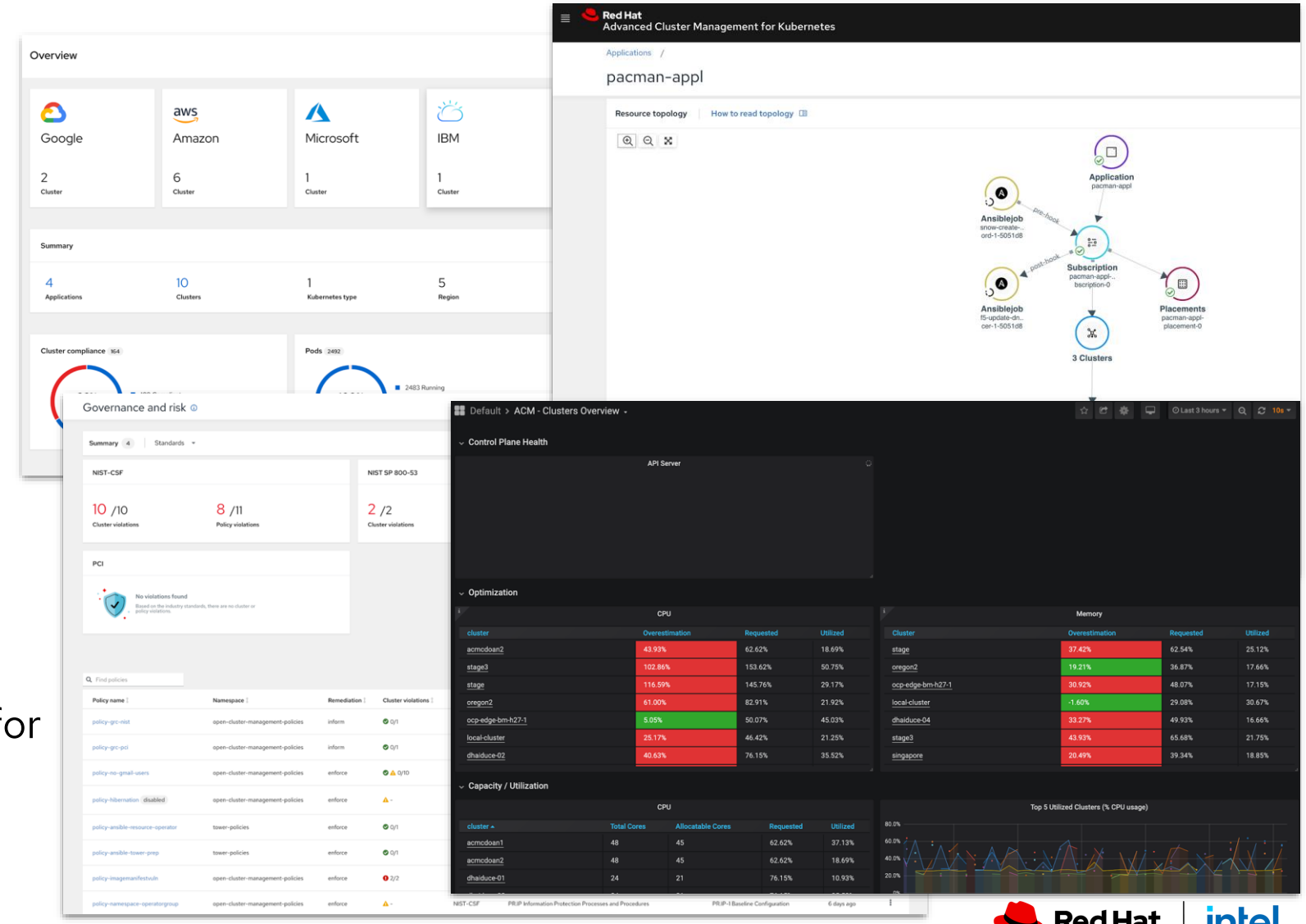
Trusted open source container registry platform that runs everywhere: on-prem, cloud, K8s...
Global governance and security controls, with image vulnerability scanning, access control, geo-replication...

Red Hat OpenShift Data Foundation

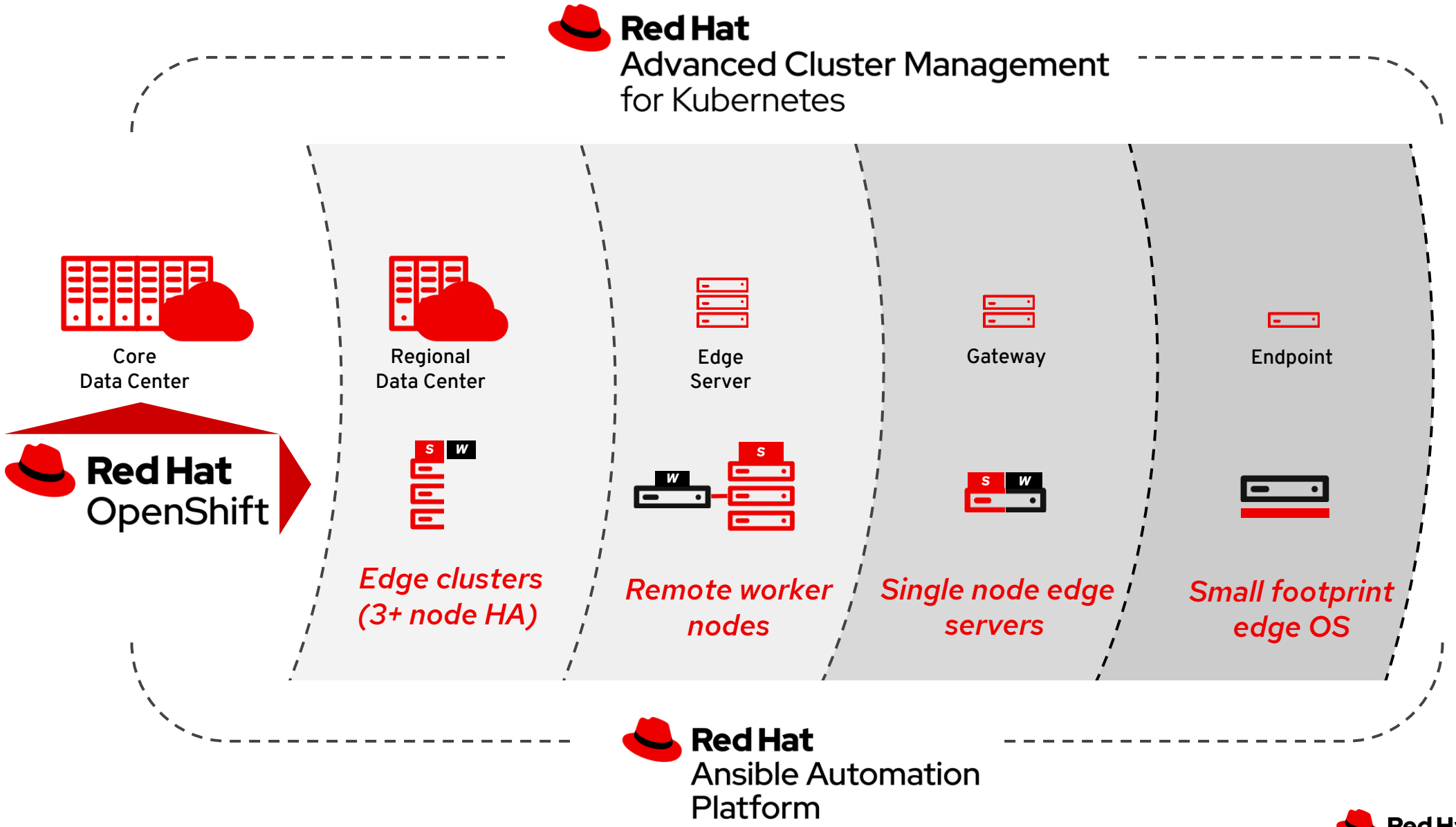
Delivers resilient and persistent software-defined storage based on Ceph running on-premise or public cloud, providing file, block and object storage, enabling a wide range of data modalities and workloads.

Red Hat Advanced Cluster Management for Kubernetes

- Multicluster lifecycle management
- Policy driven governance, risk, and compliance
- Advanced application lifecycle management
- Multicluster observability for health and optimization



Edge computing con Red Hat: un caso de uso más de la Nube Híbrida



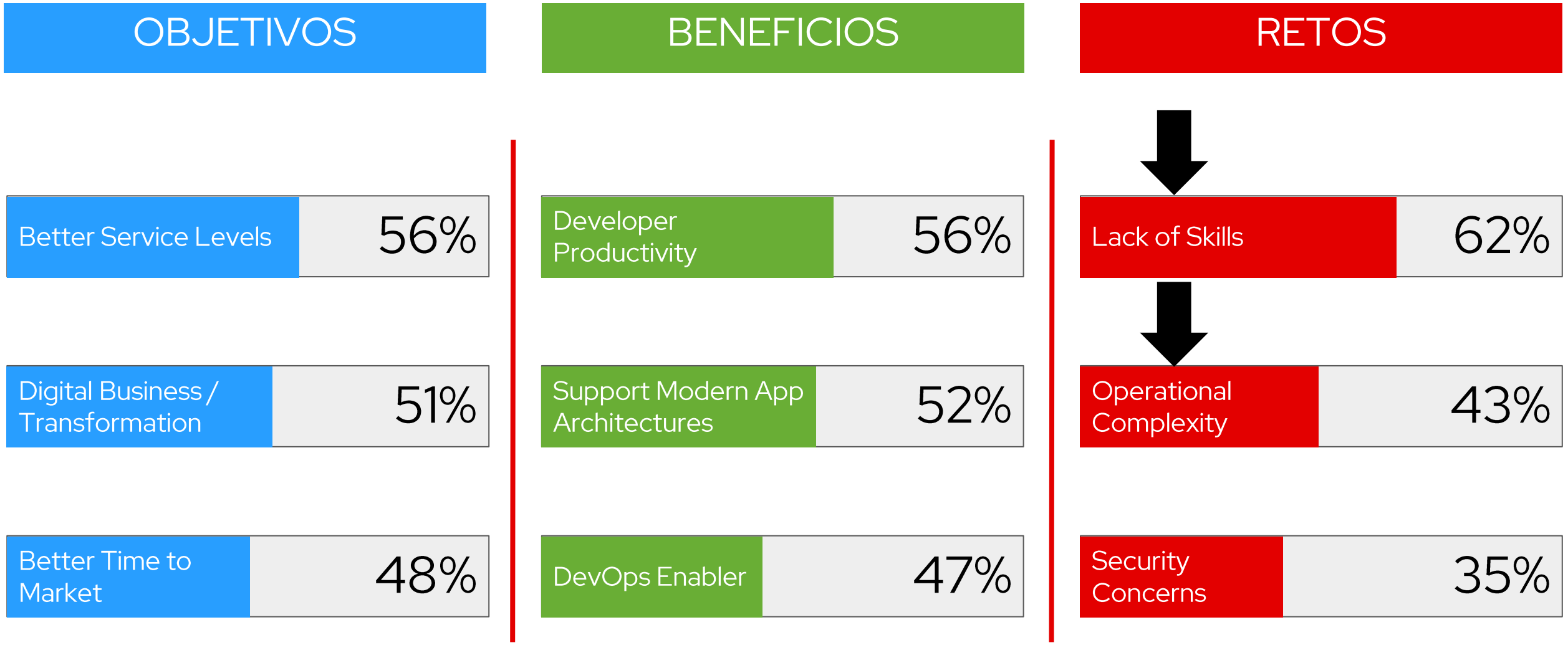
EMANCIPACIÓN

Ya solo vienen a comer

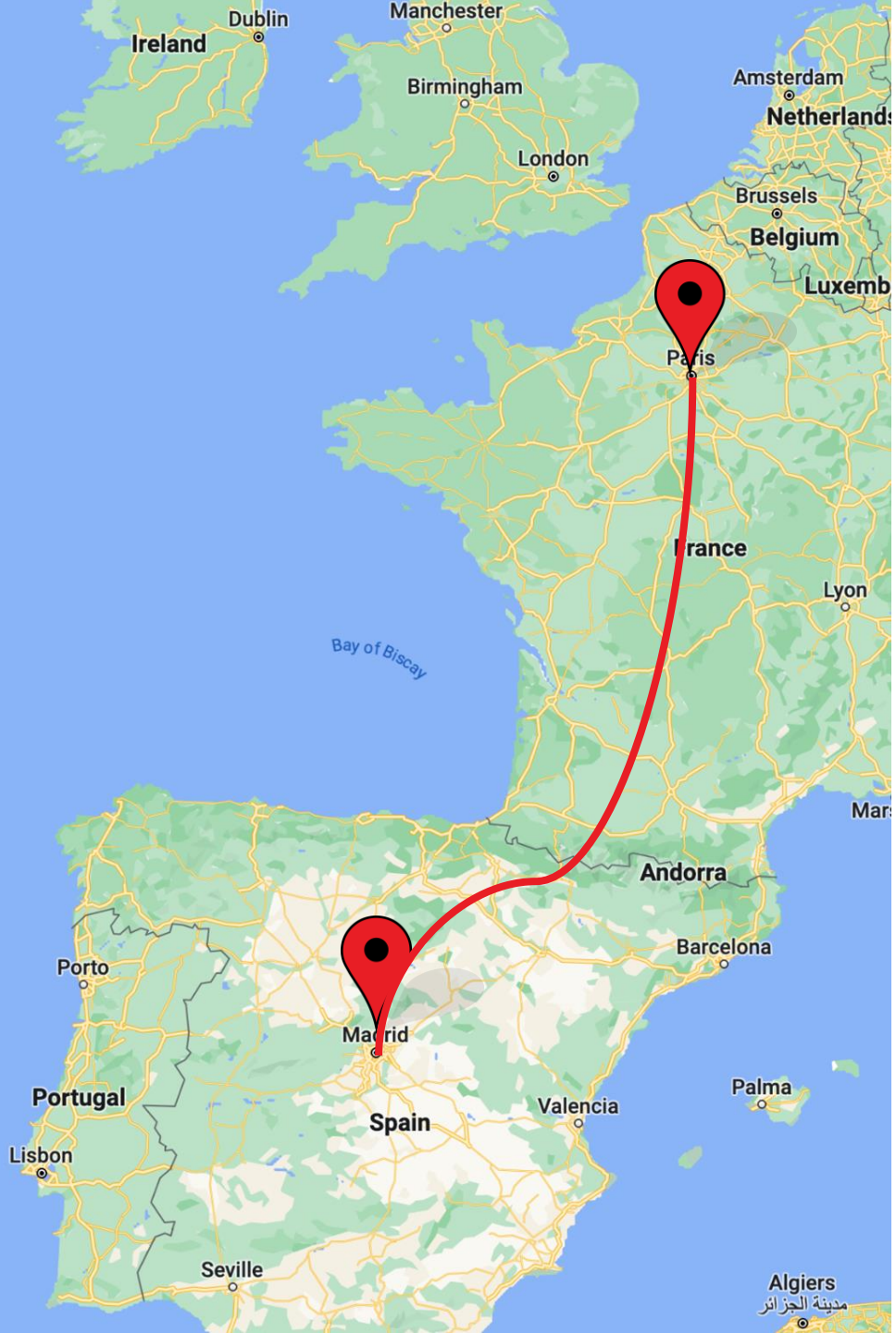
Red Hat

Viaje a la NUBE

Objetivos, Beneficios, y Retos de los Contenedores



Source: Gartner - Infographic: Container Adoption Trends 07/2021

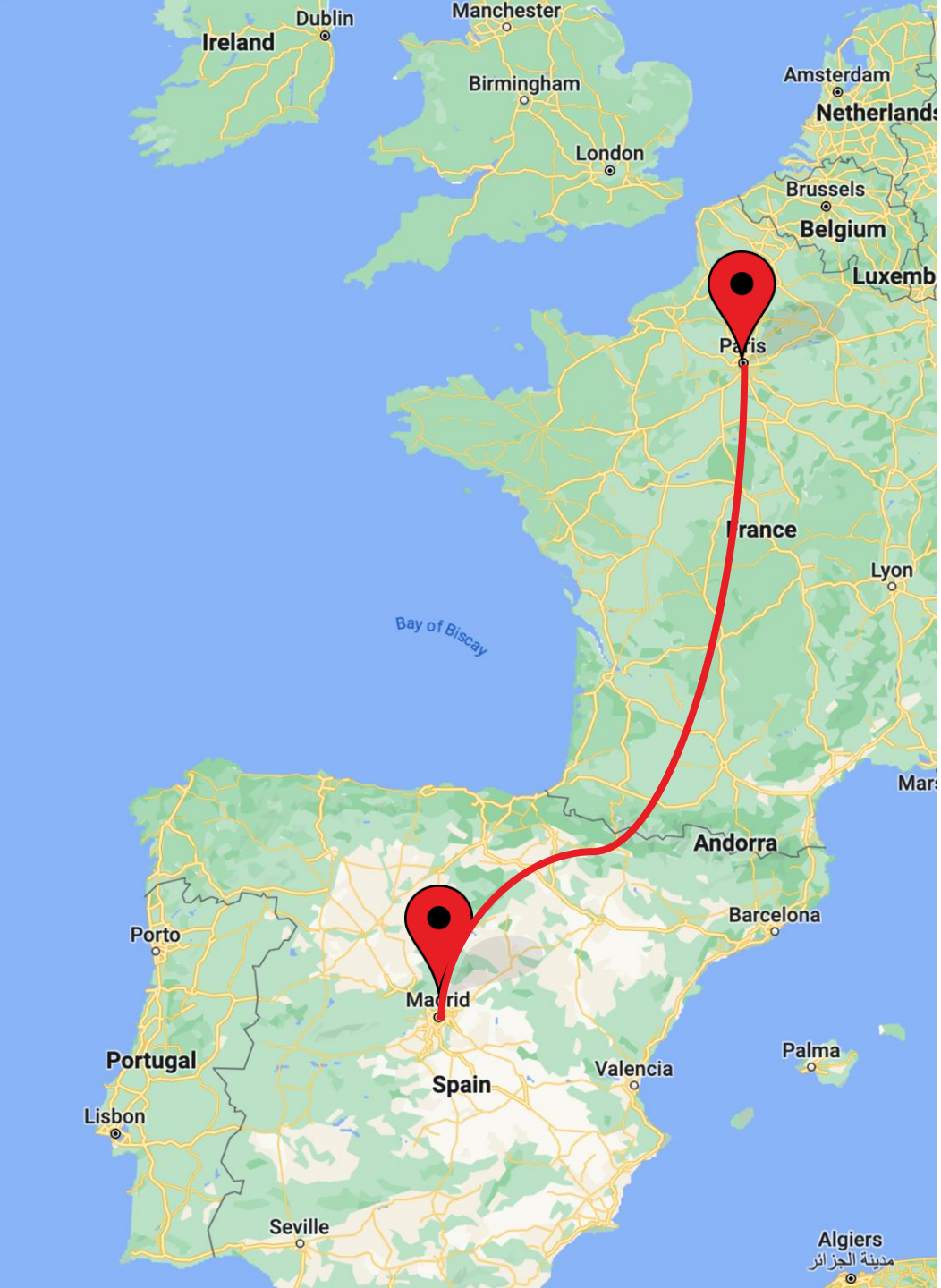


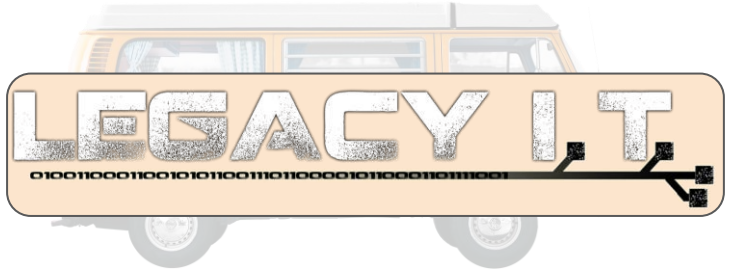
No agile
High time to value
No scalable
Unsecure
CapEx

Faster
No scalable (delivery lead time)
Skills required
CapEx
Pay even if not use
Limited freedom of choice infra (airport)

Faster
Scalable
Skill required: be able to sleep ;-)
Integral Security
Pay when you Use
Freedom of choice
Frequent Flier

Red Hat | intel.





Legacy
No agile
High time to value
No scalable
Unsecure
CapEx

Red Hat OpenShift Self Managed

Self Managed
Faster
No scalable (delivery lead time)
Skills required
CapEx
Pay even if not use
Limited freedom of choice infra (airport)

Red Hat Cloud Services

Managed
Faster
Scalable
Skill required: be able to sleep ;-)
Integral Security
Pay when you Use
Freedom of choice
Frequent Flier

Red Hat | intel.

Red Hat OpenShift
Managed Services Fleet

aws Red Hat OpenShift Service on AWS	Azure Azure Red Hat OpenShift	IBM Cloud Red Hat OpenShift on IBM Cloud	Google Cloud Red Hat OpenShift Dedicated	Telefónica Telefónica Red Hat OpenShift Service

Red Hat OpenShift Service on AWS

Azure Red Hat OpenShift

Red Hat OpenShift on IBM Cloud

Red Hat OpenShift Dedicated

Telefónica Red Hat OpenShift Service

Simplicity will be king.(1)

SIMPLE
Self-Service Deployment

- **Provision fully-managed clusters in minutes**
- Use OpenShift Cluster Manager for creating & viewing clusters
- **Flexible consumption-based pricing**
- Scale clusters on demand

SIMPLE ^2
Support & Security

- Fully monitored, managed and updated from infrastructure to daily operations
- Managed upgrades & patching
- Financially backed **99.95% SLA**
- 24x7 support from industry leading SRE team
- **Enterprise-grade security & compliance**

SIMPLE ^3
Service/Tools Integration

- Cluster services such as monitoring, logging, networking, etc. available
- **Native service integration** with Azure (ARO) & AWS (ROSA)
- Developer productivity tools; Service Mesh, CodeReady Workspaces, serverless etc.

SIMPLE^4
Cloud Choice & Flexibility

- Managed Kubernetes offerings on major public clouds
- Native joint offerings on Azure, AWS & IBM Cloud
- **Consistent OpenShift experience across clouds**
- Lower “ramp-up” by using familiar cloud technology

Red Hat | intel.

(1)**Consumption Economics:** The New Rules of Tech . BookMasters. *Wood, J. B.; Hewlin, Todd; Lah, Thomas.*

Simple^5

Cloud Hyperscalers are Procurement Aggregators

Use their DEBIT CARDS!!

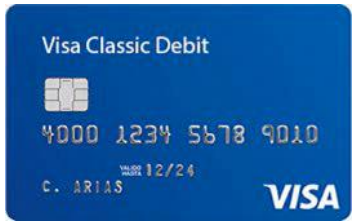
aws

Enterprise Discount Program (EDP)

Azure

Microsoft Azure Committed Contract (MACC)

IBM Cloud



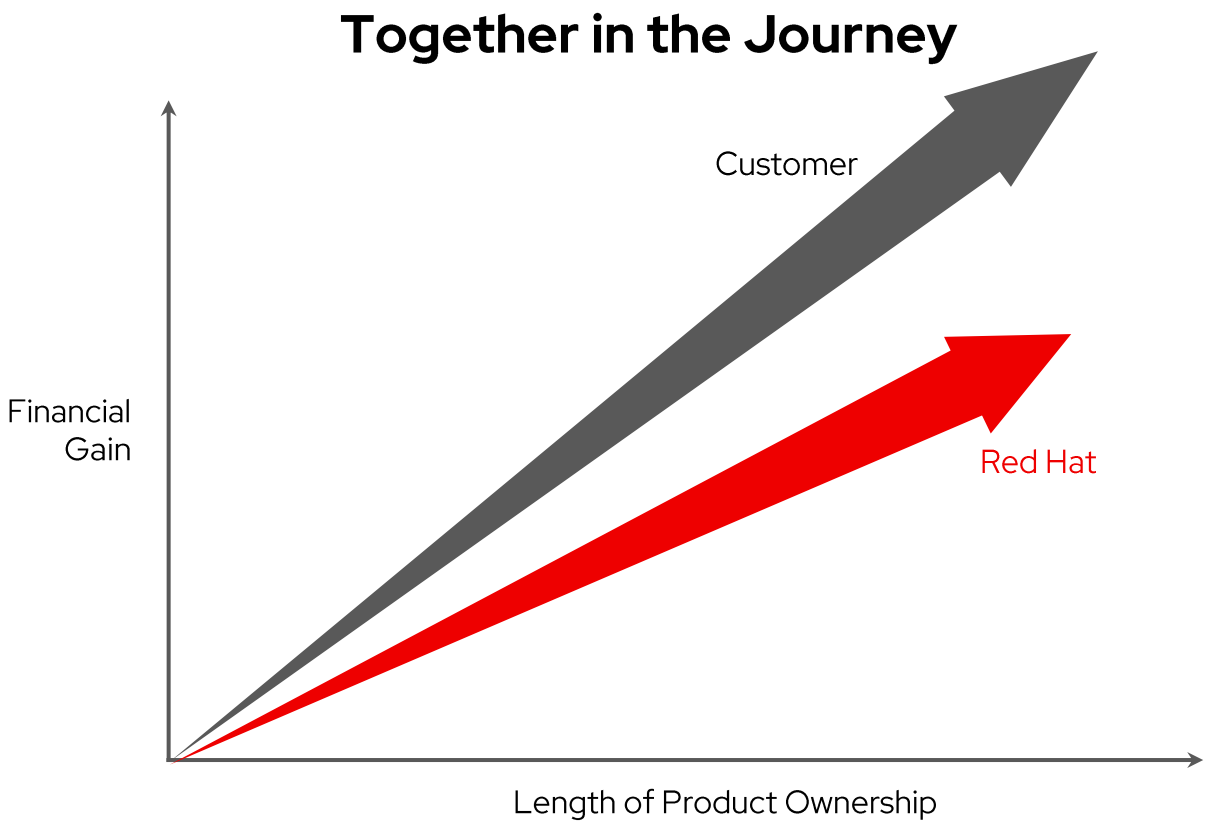
Hybrid Committed Spent (HCS)

Google Cloud

Committed Use Discount (CUD)

Telefónica

Telefónica Red Hat OpenShift Service



Red Hat Cloud Services Black Belts

- ***Guide and enable customers and RH stakeholders.***
- ***Remove technical, organizational and business blockers.***
- ***Improve the product with feedback to SRE, BU and PnT***

Red Hat Cloud Services Customer Success Executive/Architect

- ***Success Planning & Consumption Tracking***: Capturing customers' short and long-term objectives for ROSA or ARO, coordinating a strategy to achieve those objectives by positioning the right technical resources, and tracking the customers' cloud consumption over time.
- ***Onboarding***: Through proactive or digital outreach, helping customers navigate early milestones in their usage of Red Hat's Managed Cloud Services.
- ***Adoption Assessments***: Assessing customers' current adoption of our Cloud Services and establishing a mitigation plan.

Red Hat | intel

AUTOMATIZACIÓN

Red Hat

Ahorrar Tiempo:

- Todo
- Siempre

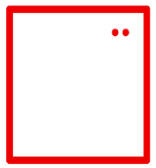
Red Hat | intel.

Red Hat Ansible Automation Platform

Automate everything you need

INFRASTRUCTURE

CLOUD



APPLICATIONS

NETWORK

SECURITY

EDGE

Red Hat Ansible Automation Platform

Automate everything you need

Do this...

Orchestrate	*Manage configurations*	*Deploy applications*	*Provision*	*Deliver continuously*	*Secure and comply*

On these...


Firewalls


Load balancers


Applications


Containers


Clouds


Servers


Infrastructure


Storage


Network devices


And more ...

One subscription. One platform.

Supported and certified content you can trust

140+

Certified Content Collections

60+

Certified technology partners

Infrastructure | Cloud | Network | Security | Edge

Red Hat | intel

Ansible Automation Platform hosting options

Red Hat Enterprise Linux

Red Hat Enterprise Linux 8.3+ x86_64 (physical, virtual)

Red Hat OpenShift

Red Hat OpenShift via dedicated Ansible Automation Platform operator (physical, virtual)

Azure

On Microsoft ***Azure marketplace***

aws

On Amazon ***AWS marketplace***

Google Cloud

On Google ***GCP marketplace***

Self Managed (on-premises or cloud)

Customer deployed
Managed by Red Hat*

Customer deployed, Self-managed

GRACIAS