Red Hat Summit

Accelera la modernizzazione con Red Hat

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Red Hat

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Presidenza del Consiglio dei Ministri
Dipartimento della Protezione Civile

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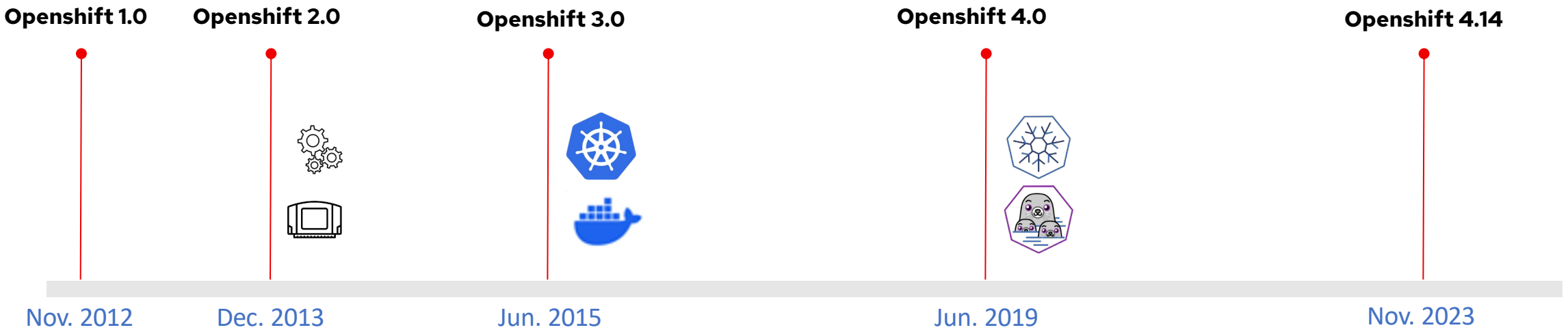
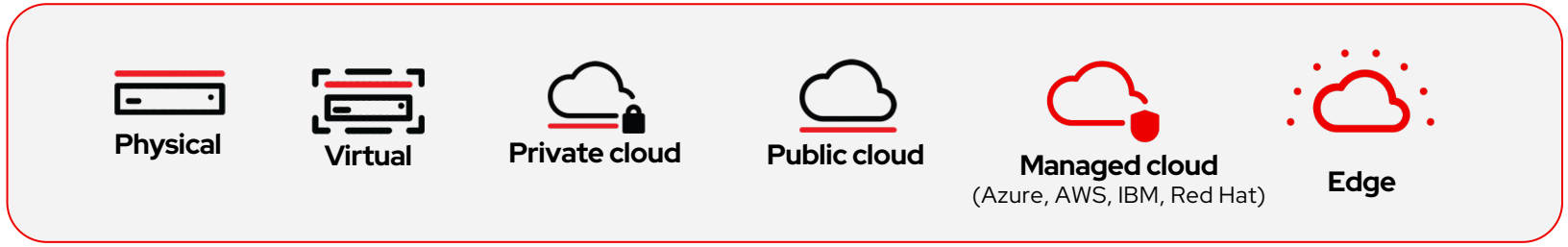
Openshift Timeline

OPENSHIFT





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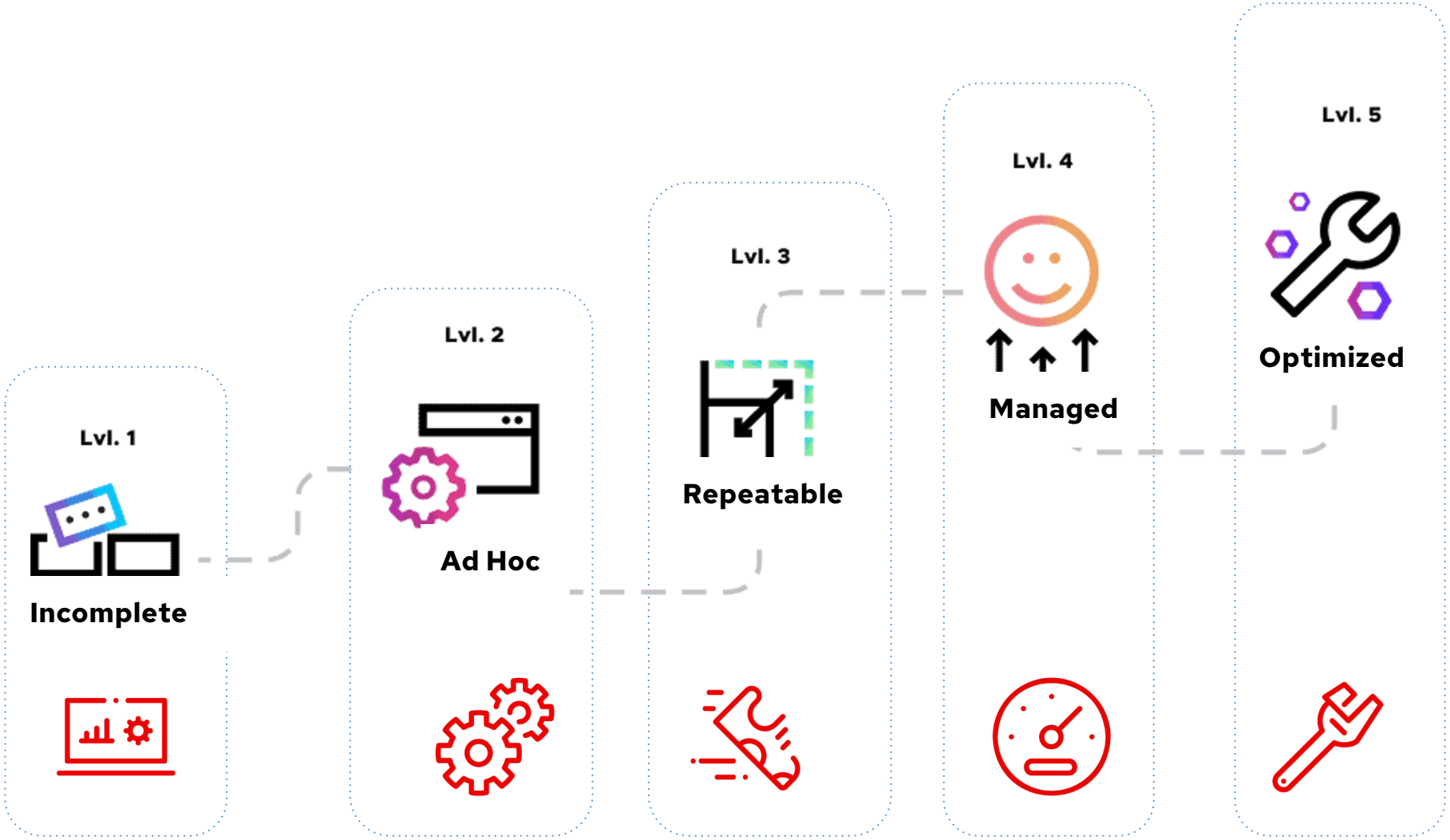
Maturity levels according to CNCF

CLOUD NATIVE
COMPUTING FOUNDATION



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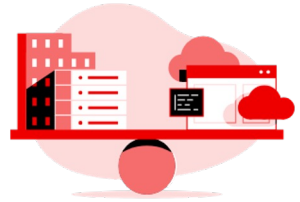
We are Red Hat Services



Cloud Native Application

- Design Thinking approach with Domain Driven Design
- 12 factor apps
- Contemporary Technologies and Runtimes

Containers

- Containerization (Value for the time and effort)
- Advanced Deployment Strategies
- Disparate sources

Platforming

- DevOps, SRE, Platform Engineering
- Holistic prioritization of time and effort
- Software delivery Engine
- Platform as a Product

Automation

- Self Service Infrastructure Delivery
- Automated life cycle management
- Infrastructure as Code with gitOps

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Successful organizations invest a majority of time and effort into

~~Technology~~

People & Process

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Successful IT organizations focus on

~~Technology~~

User Journeys

Making the Right Things Easy

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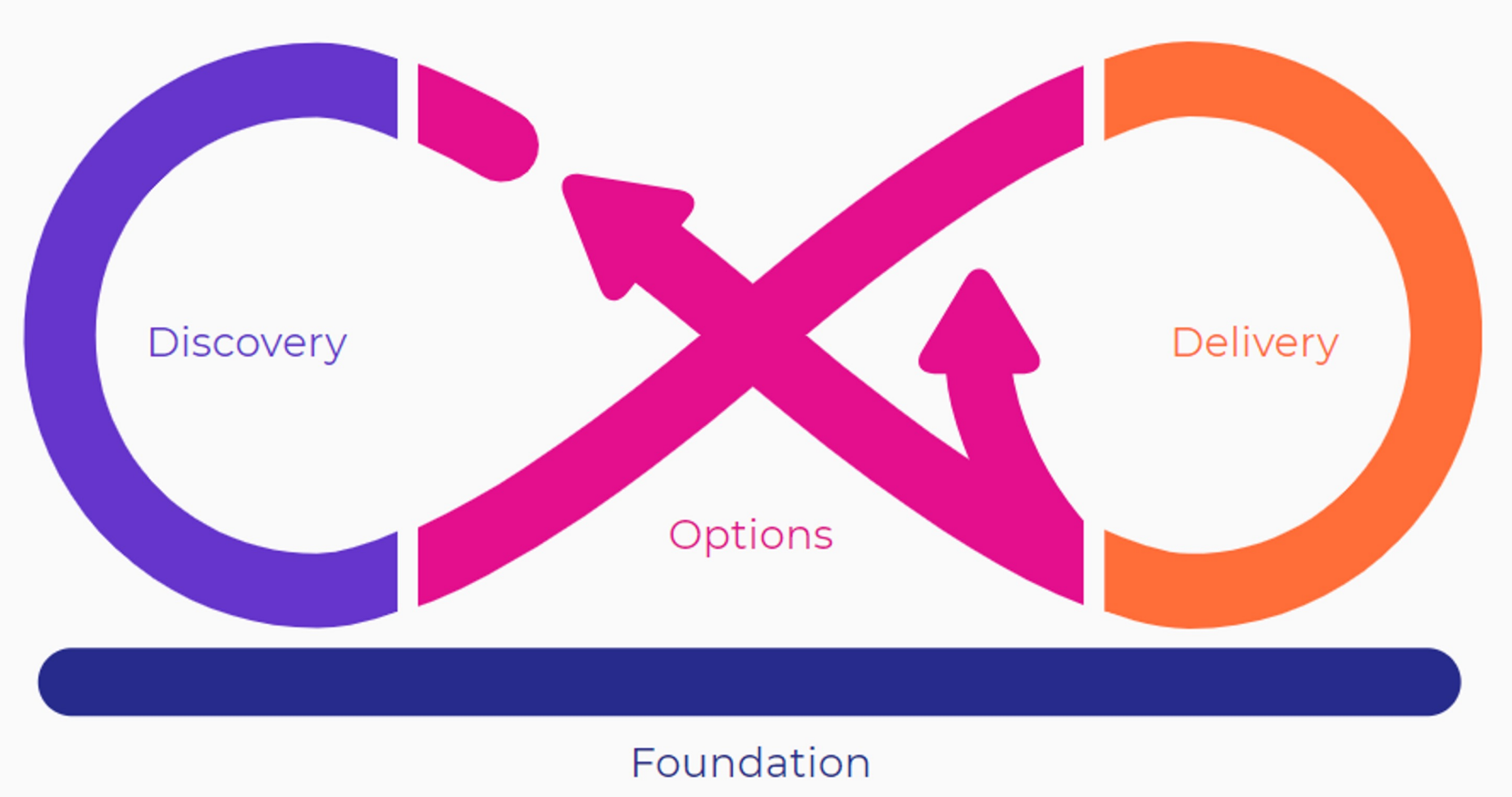
Innovation happens in steps ...



Software Delivery Metrics

Enter new Markets

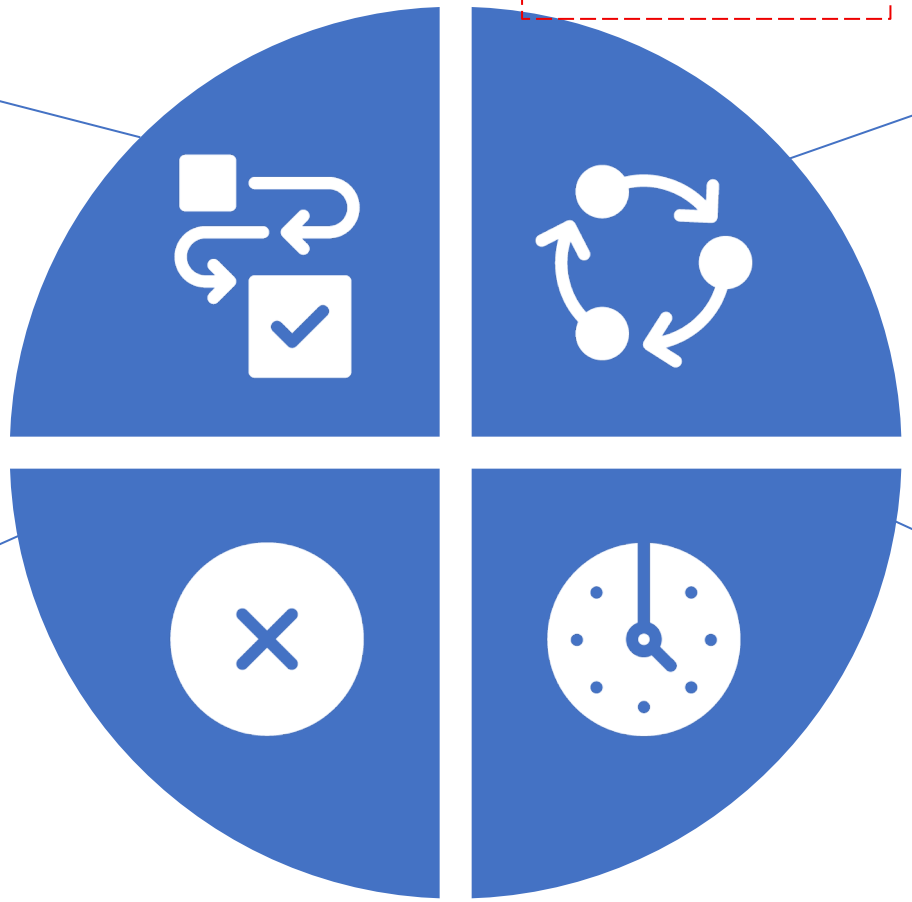
Increase Market Share

Lead time to change

Time from code committed to deployed to production

Deployment frequency

How often does an app deploy to production



Change failure rate

Percentage of deployments requiring rollback and/or fixes

Mean time to restore

How long it takes systems to restore after a failure in production

Reduce Costs

Attract and Retain Talent

As defined by Nicole Forsgren, PhD, Jez Humble and Gene Kim in ***Accelerate***

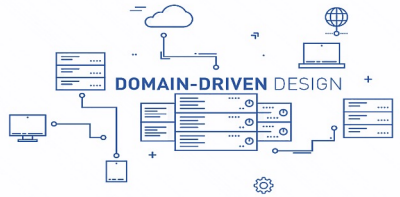
Cloud Native Maturity Model

CLOUD NATIVE COMPUTING FOUNDATION

Lvl 0. **Legacy**

Journey to Application Modernization

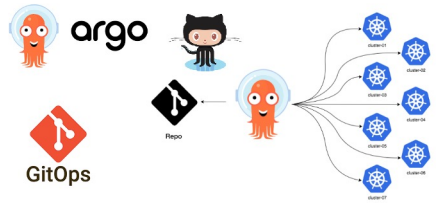
Modernize a legacy application using Microservices patterns.
Build a cloud native application using DDD adopting an agile methodologies.



Lvl 1. **Incomplete**

Journey to GitOps

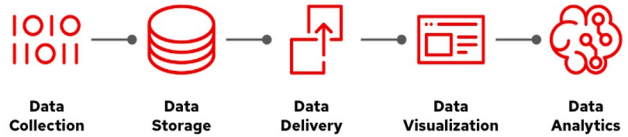
Centralize and automate management of openshift configurations and application deployments using Argocd and ACM.



Lvl 2. **Ad Hoc**

Journey to Observability

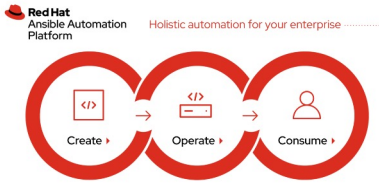
Correlation of data from various sources, with the goal of answering questions about the running system, troubleshooting and optimizing the system.



Lvl 3. **Repeatable**

Journey to Automation

Playbook development, testing, and integration for streamlined automation, ultimately leading to increased efficiency and agility in IT operations.



Lvl 4. **Managed**

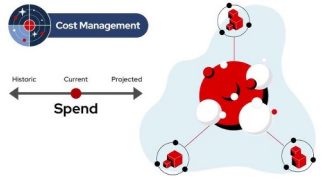
Journey to Application Security

Introduce DAST and SAST in your project, fix security issues and prevent potential breaches with ACS.

Lvl 5. **Optimized**

Journey to Cost Management

Involves the process of efficiently overseeing and optimizing the expenses associated with cloud computing resources



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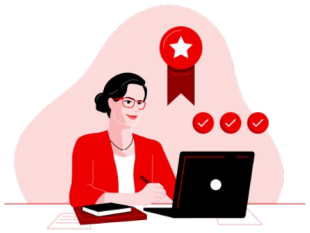
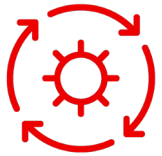
Creating a Learning Organization



How do we enable the transition to a platform operating model?



Transformation Office

Vision | Change Management | Coaching

Leadership

Mentor Leadership
Psychological Safety
Intent

Product

Customer Focus
Steering Committee
MVP

Teams

Empowered
Dedicated
Understand purpose

Communities

Organizational Learning
Advocacy
Giveback

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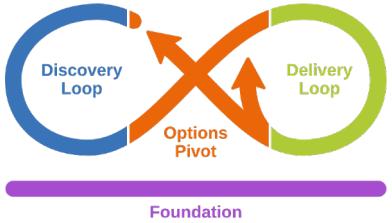
Take Away

1. Open practice library

Develop innovative solutions

Ideate with the Red Hat Open Practice Library



2. Software Delivery Metrics

Create high-performing teams

Work side-by-side with open source experts

3. User Journeys

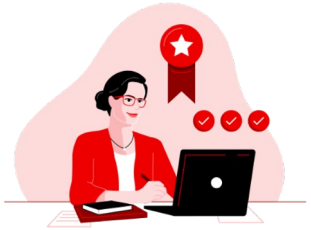
Build new skills

Learn through pairing and mentoring

4. Learning Organization

Achieve your vision and business outcomes

Through our solutions and culture



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