



APPLICATION MODERNIZATION & MIGRATION

Master deck

THE CIO DILEMMA

Business Expectations become IT Challenges



Resources



Time



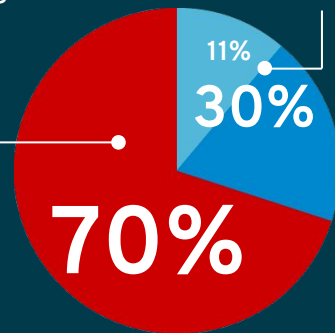
Budgets



Maintain current portfolio



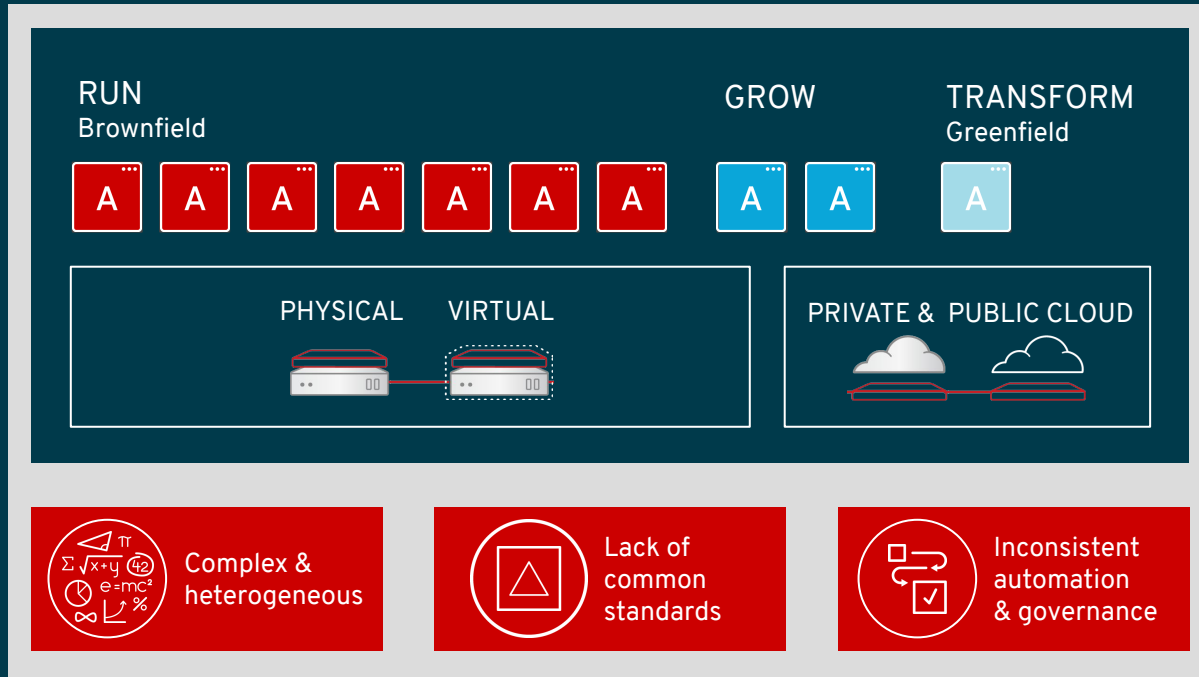
Innovation, Differentiation, Growth



RUN
GROW
TRANSFORM

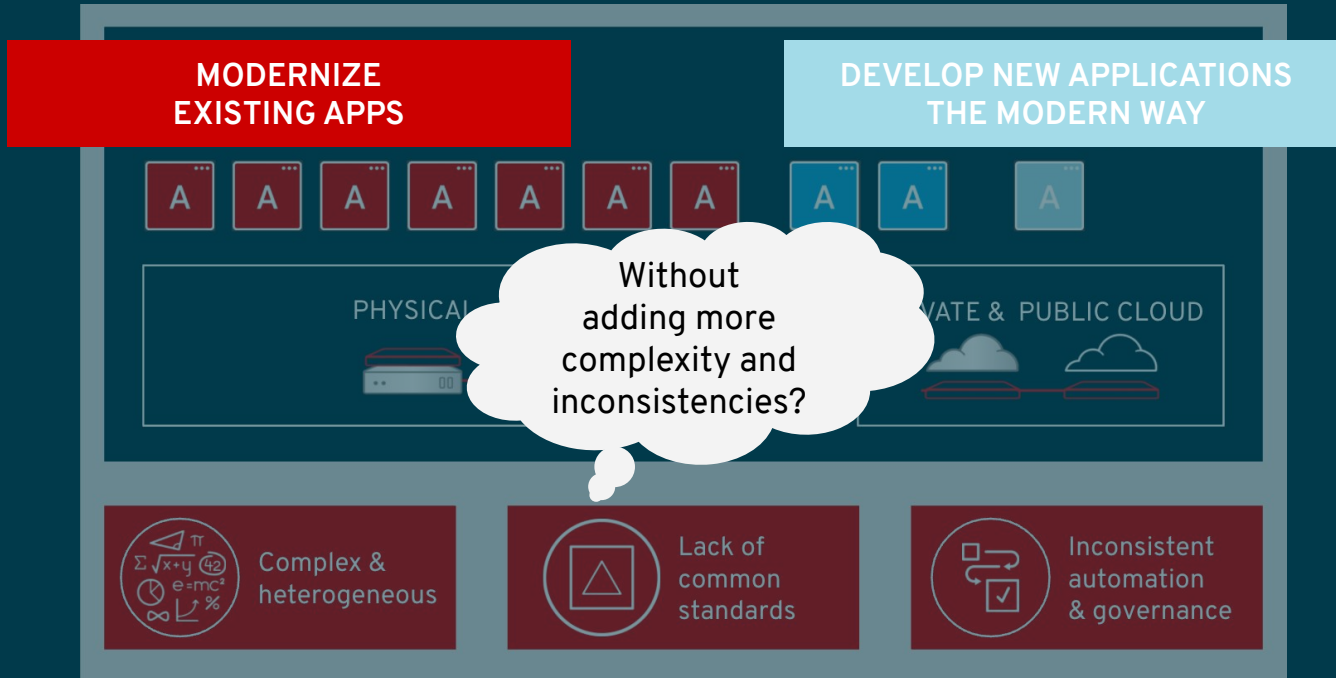
TYPICAL CUSTOMER LANDSCAPE TODAY

Where the journey starts...



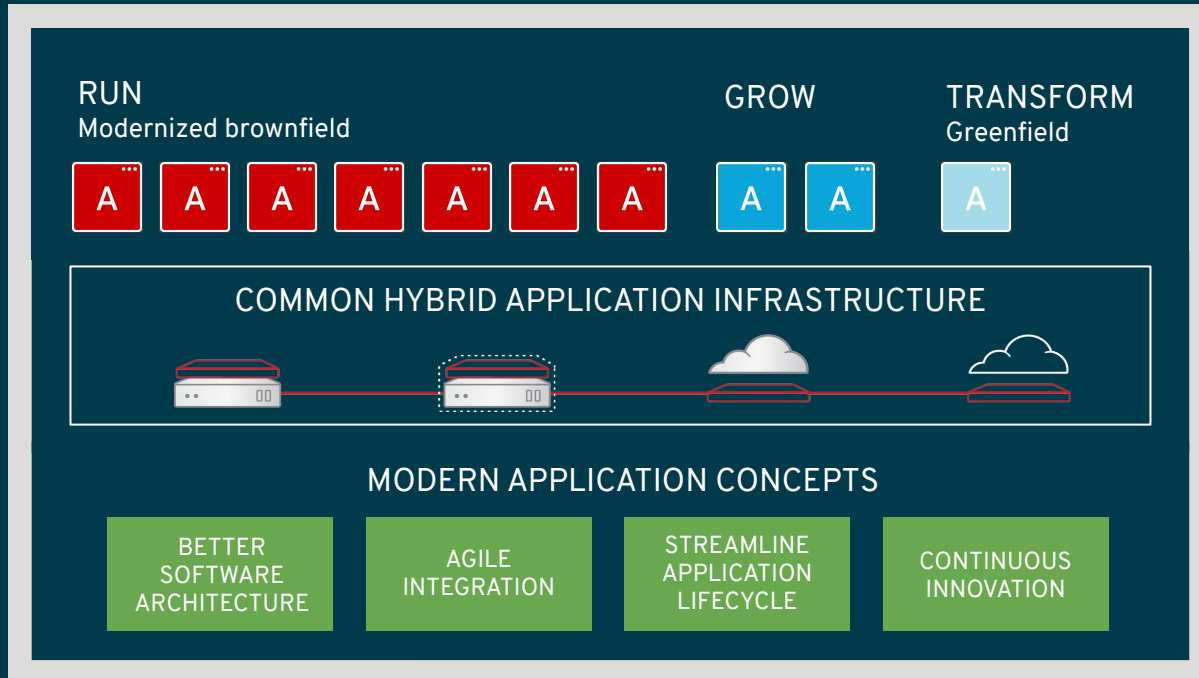
TYPICAL CUSTOMER LANDSCAPE TODAY

Where the journey starts...



APPLICATION PORTFOLIO MODERNIZATION

One platform to support you today and tomorrow

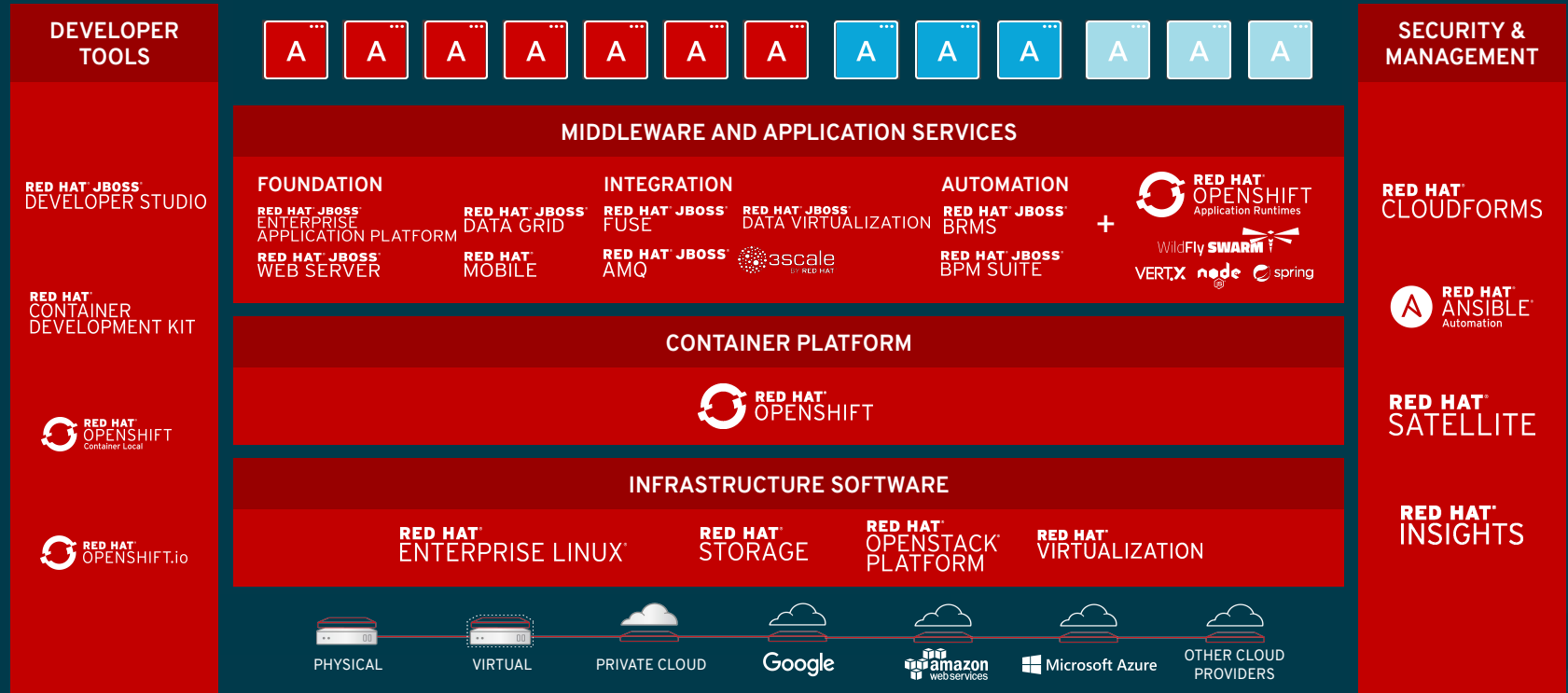


APPLICATION MODERNIZATION & MIGRATION:

WHY RED HAT?

IT'S ALL THERE!

COMPLETE TECHNOLOGY STACK FOR HYBRID CLOUD



WHY CHANGE WITH RED HAT?

Solutions for today and the future



RE-BALANCE
MAINTENANCE
AND
INNOVATION



DECREASE
COMPLEXITY,
INCREASE
EFFICIENCY



REDUCE / AVOID
VENDOR LOCK-IN,
INFLEXIBLE
LICENSE MODELS



INCREASE SPEED &
BECOME
MORE
PRODUCTIVE



REMOVE
TECHNICAL
DEBT &
RISK



ADOPT
AGILE
METHODOLOGIES,
DEVOPS

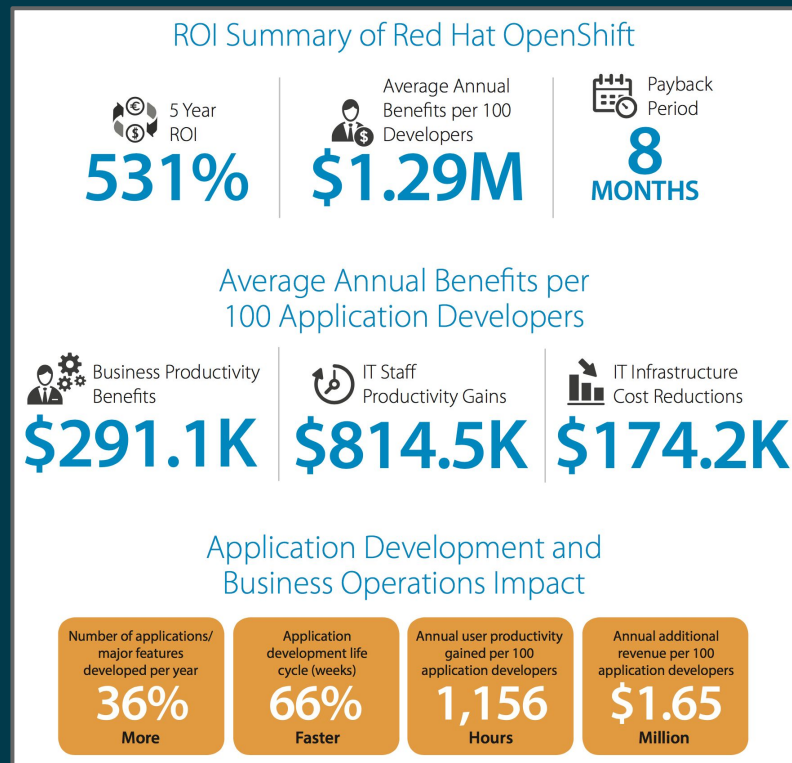
WHY MODERNIZE?

Red Hat OpenShift Container Platform benefits

Benefits experienced introducing Red Hat OpenShift:

- Fast Return on Investment (ROI)
- High increase in business productivity
- More features developed
- Faster development live cycle
- Increased developer productivity

Study available at [“IDC - The business value of Red Hat OpenShift”](#)



SOME CUSTOMERS

Application Modernization customers



Government of the Netherlands



THE UNIVERSITY
of NORTH CAROLINA
at CHAPEL HILL



APPLICATION MODERNIZATION:

APPROACH AND BEST PRACTICES

OPPORTUNITIES FOR CHANGE

Application Modernization and Migration

CORE MIGRATION

EXISTING & NEW
WORKLOADS

APPLICATION
SERVERS

ESB & INTEGRATION
PLATFORMS

BPM & DECISION
MANAGEMENT

APPLICATION
INFRASTRUCTURE

MODERNIZATION INITIATIVES

ENABLING BUSINESS
VELOCITY

BETTER
SOFTWARE
ARCHITECTURE

AGILE
INTEGRATION

STREAMLINE
APPLICATION
LIFECYCLE

CONTINUOUS
INNOVATION

CORE PLATFORM MIGRATION

Source & target platforms

APPLICATION SERVER

Java EE workloads

FROM:

IBM WebSphere, Oracle WebLogic, Glassfish, Apache Tomcat, JBoss AS Community, Oracle Coherence

TO:

JBoss Enterprise Application Platform, JBoss Web Server, JBoss Data Grid

ESB & INTEGRATION PLATFORMS

Functional & data integration

FROM:

TIBCO, JCAPS, Sonic ESB, Mule ESB, Software AG WebMethods, Oracle ESB, IBM Message Broker, Cordys ESB

TO:

JBoss Fuse, JBoss Data Virtualization, JBoss AMQ

BPM & DECISION MANAGEMENT

Business rules & processes

FROM:

IBM WODM / ILOG, IBM BPM, Appian, TIBCO ActiveMatrix, Pega, Bonita, Oracle BPM Suite, Oracle Business Rules

TO:

JBoss BPM Suite
JBoss BRMS

APPLICATION INFRASTRUCTURE

Open hybrid cloud & containers

FROM:

Mainframe to Linux/Java, bare metal, Unix/Solaris/Windows to Linux, virtualization, hardware storage solutions

TO:

Red Hat Enterprise Linux, Red Hat Virtualization, Red Hat Cloud and Containers (OpenShift, OpenStack, CloudForms), Ansible Tower, Red Hat Storage (Ceph, Gluster)

MODERN APPLICATION CONCEPTS

Enhancing applications, platform & processes

BETTER SOFTWARE ARCHITECTURE

Future-proof applications

Modularize

Adopt standards

Reuse instead of reinvent

Clean technical debt & risk

AGILE INTEGRATION

Bridge old and new

Decouple, expose & integrate APIs, services & applications

Need hybrid-cloud-enabled integration platform

STREAMLINE APPLICATION LIFECYCLE

Speed up your business

Accelerate time from idea to production

Continuous Integration & Delivery (CI/CD)

Automation & self-service

Container technology

CONTINUOUS INNOVATION

Foster an agile culture

Agile methodology

DevOps principles

Collaboration

CORE PLATFORM MIGRATION

Application and web server migration

APPLICATION SERVER

Java EE workloads

FROM:

IBM WebSphere, Oracle WebLogic,
Glassfish, Apache Tomcat, JBoss AS
Community, Oracle Coherence

TO:

JBoss Enterprise Application Platform,
JBoss Web Server,
JBoss Data Grid

- **Low risk**
 - Hundreds of customers. Myriad of apps ported.
 - All potential issues already solved.
- **Excellent ROI**
 - Dramatical license cost savings
 - Low efforts (mainly testing)
- **Enables modern app dev**
 - Standard IT of 2017 vs. 1999 (skills, landscape)
 - Perfect to combine additional transformations

DEFINING YOUR OWN PATH

... to super-power your business and adopt a state-of-the-art IT landscape

CORE MIGRATION

EXISTING & NEW
WORKLOADS

APPLICATION
SERVERS

ESB & INTEGRATION
PLATFORMS

BPM & DECISION
MANAGEMENT

APPLICATION
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MODERNIZATION INITIATIVES

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CONTINUOUS
INNOVATION

MOST WANTED ANSWERS

Approaching a large-scale application modernization



How do I ...

- predict the needed man-days and ROI upfront?
- identify and mitigate risks?
- implement best practices to save cost and catalyze the process?
- maximize my business benefits?

METHODOLOGY

Iterative, managed service, factory scale up.

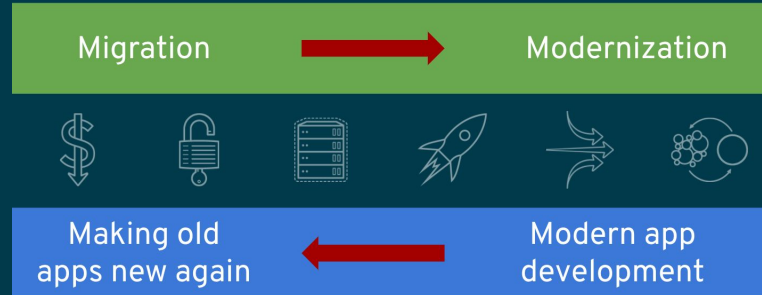


METHODOLOGY

Iterative, managed service, factory scale up.

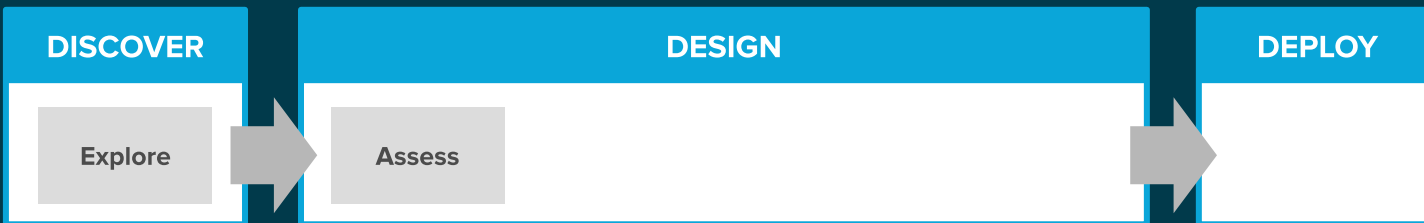


- Interactive workshop with deciders and technical leads
- Focus on existing challenges and business needs



METHODOLOGY

Iterative, managed service, factory scale up.

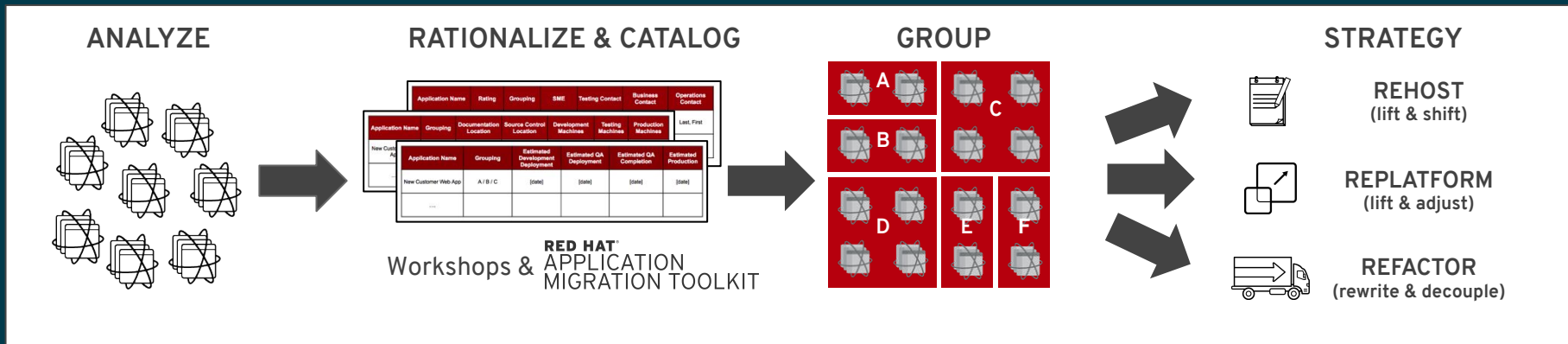
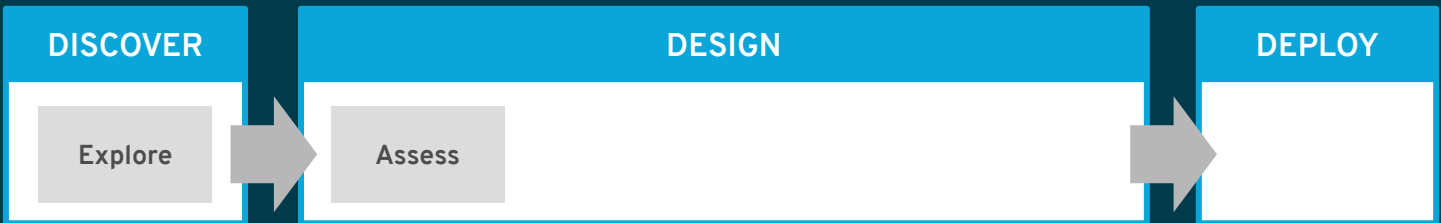


- In-depth AS-IS analysis (catalog)
- TO-BE definition (rationalize)
- Risks identification
- Plan next steps, provide rough estimates and strategy



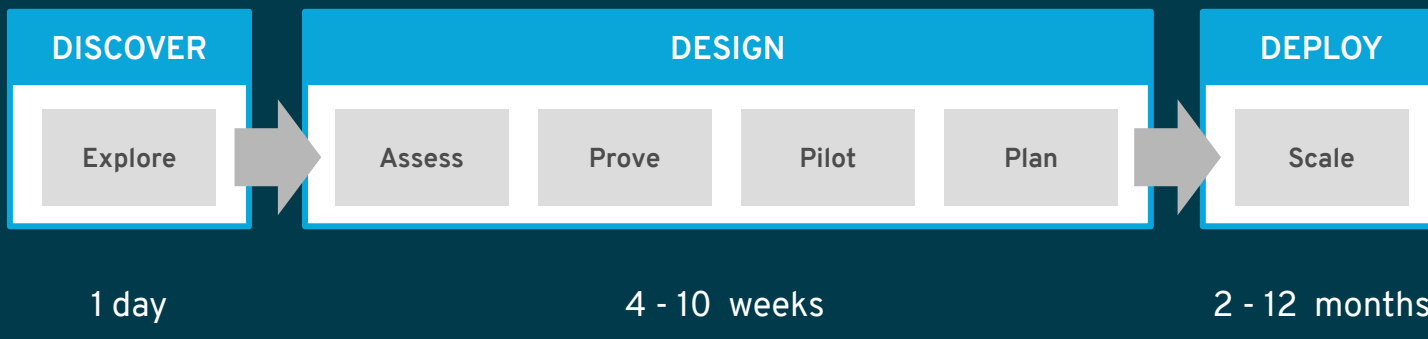
METHODOLOGY

Iterative, managed service, factory scale up.



METHODOLOGY

Iterative, managed service, factory scale up.



- Standard, proven, modular, repeatable, pragmatic methodology
- Step by step, low risk and highly efficient: no “big bang”
- Scale up with partners or client’s staff

FACTORY DELIVERY MODEL

Roles & Responsibilities



Technical lead / architect

Drive “DESIGN” phase (Assess, Proof, Pilot, Plan), govern and ensures quality in “DEPLOY”.

STEERING TEAM



Technical specialist / Subject matter expert

Support “DESIGN” phase (Proof, Pilot), catalyze/scale/support the “DEPLOY” delivery.



Project manager

Globally accountable for planning, communication, knowledge and risk management.

MIGRATION TEAMS



Application developer

High throughput application transformation in “DEPLOY” phase.

QUICK COMPARISON

DIY vs. Red Hat Methodology



MANUAL COST ASSESSMENT



20 APPLICATIONS

X



40 HOURS/APPLICATION

800 HOURS OR 20 WEEKS



RED HAT APPROACH

DESIGN

Assess

Prove

Pilot

Plan

4-8 WEEKS

- + YOU HAVE A PLAN IN PLACE
- + TECHNICAL RISKS IDENTIFIED & TESTED



THANK YOU



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