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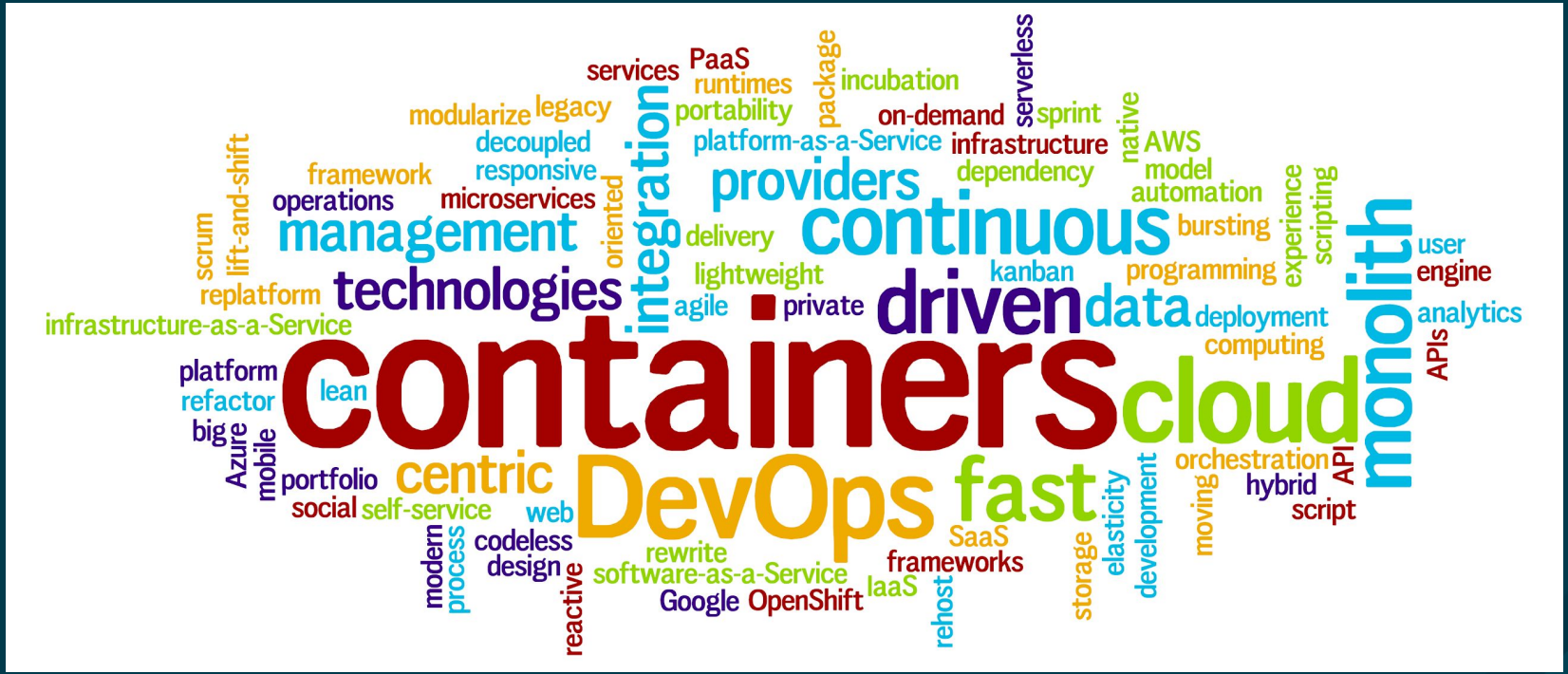
APPLICATION MODERNIZATION & MIGRATION

TECHNICAL INITIATIVES

How do we run and build applications in the new world?



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THE CIO DILEMMA

Business Expectations become IT Challenges

Resources

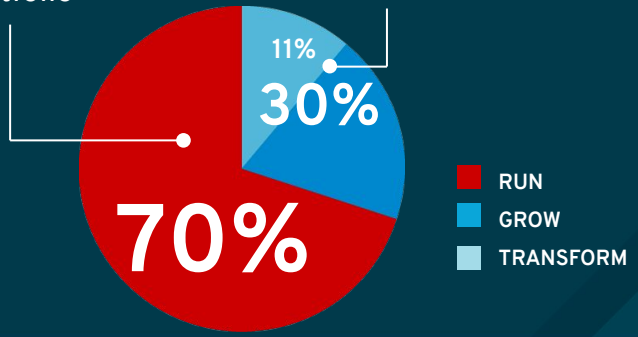
Time

Budgets

Maintain current portfolio

Innovation, Differentiation, Growth

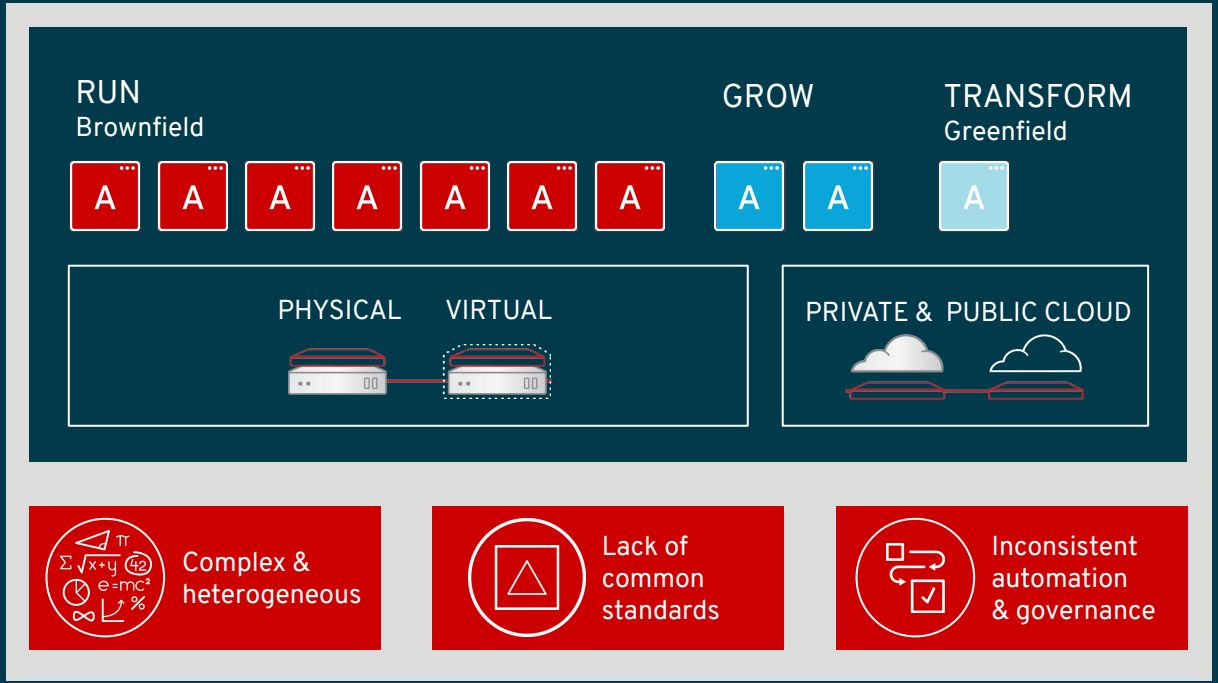
?



Source: Graph created by Red Hat based on Gartner research. Potter, Kurt, Sanil Solanki, and Ken McGee, *Run, Grow and Transform the Business IT Spending: Approaches to Categorization and Interpretation.* Gartner G00308477, 27 June 2016

TYPICAL CUSTOMER LANDSCAPE TODAY

Where the journey starts...



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TYPICAL CUSTOMER LANDSCAPE TODAY

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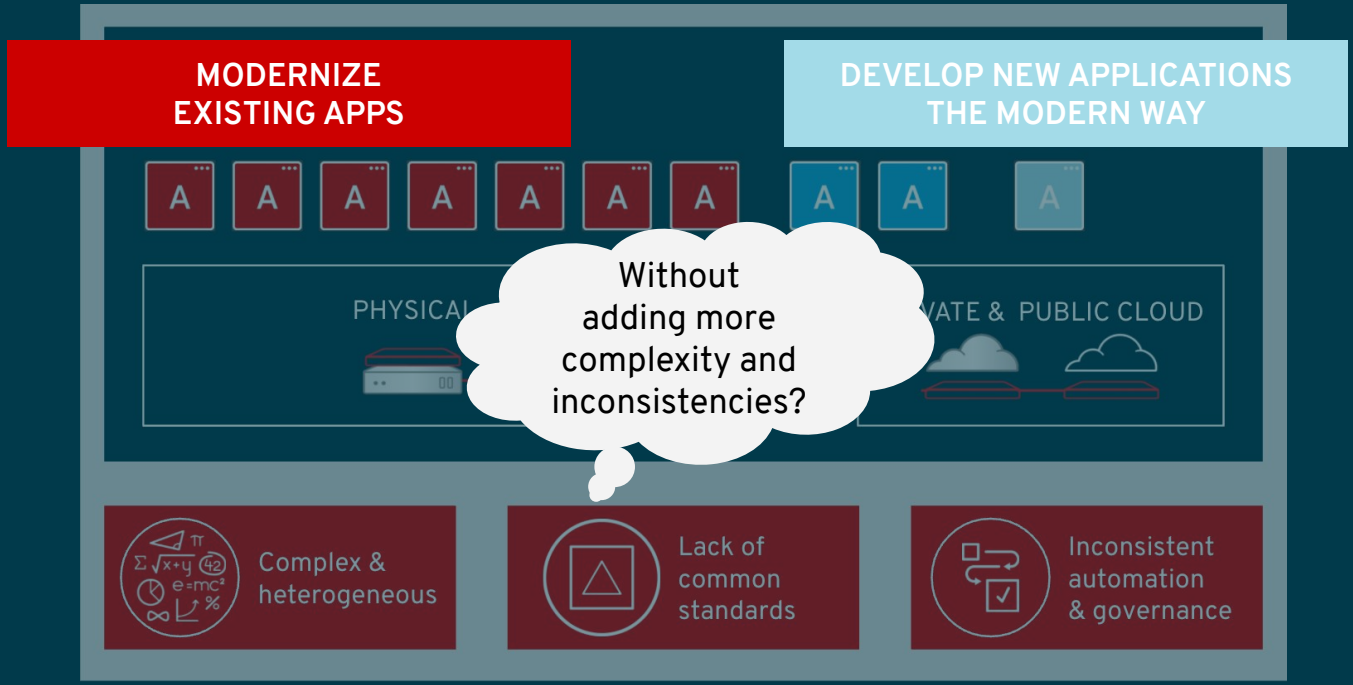
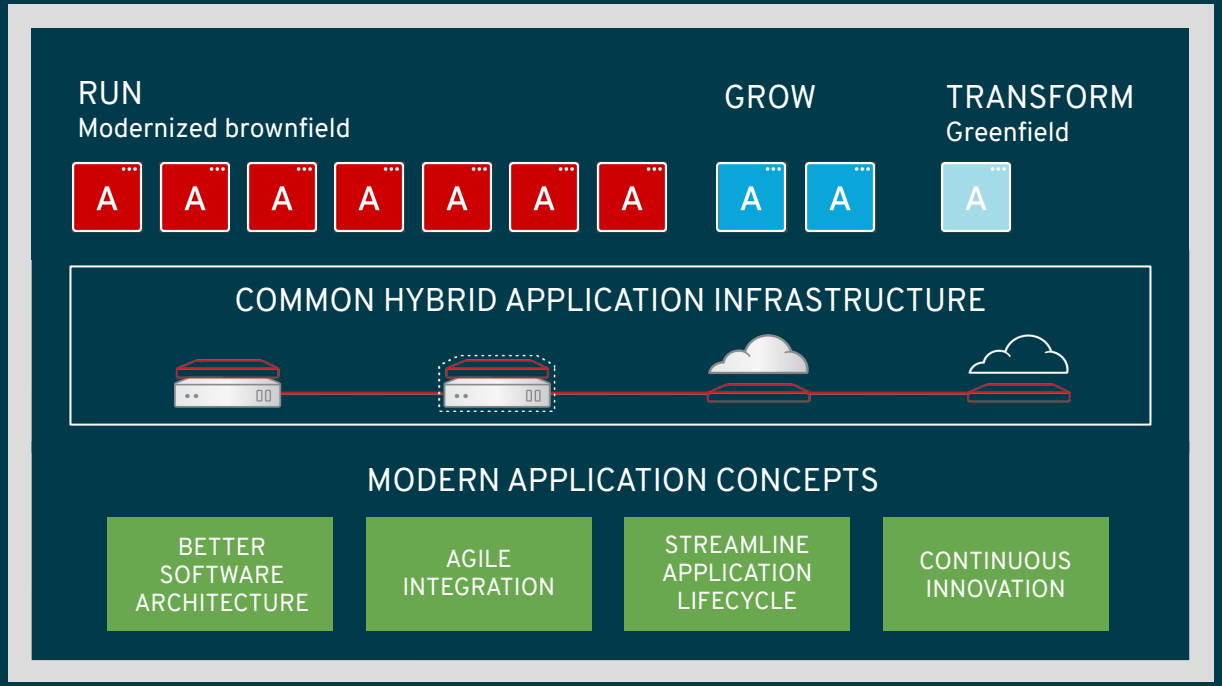


APPLICATION PORTFOLIO MODERNIZATION

One platform to support you today and tomorrow

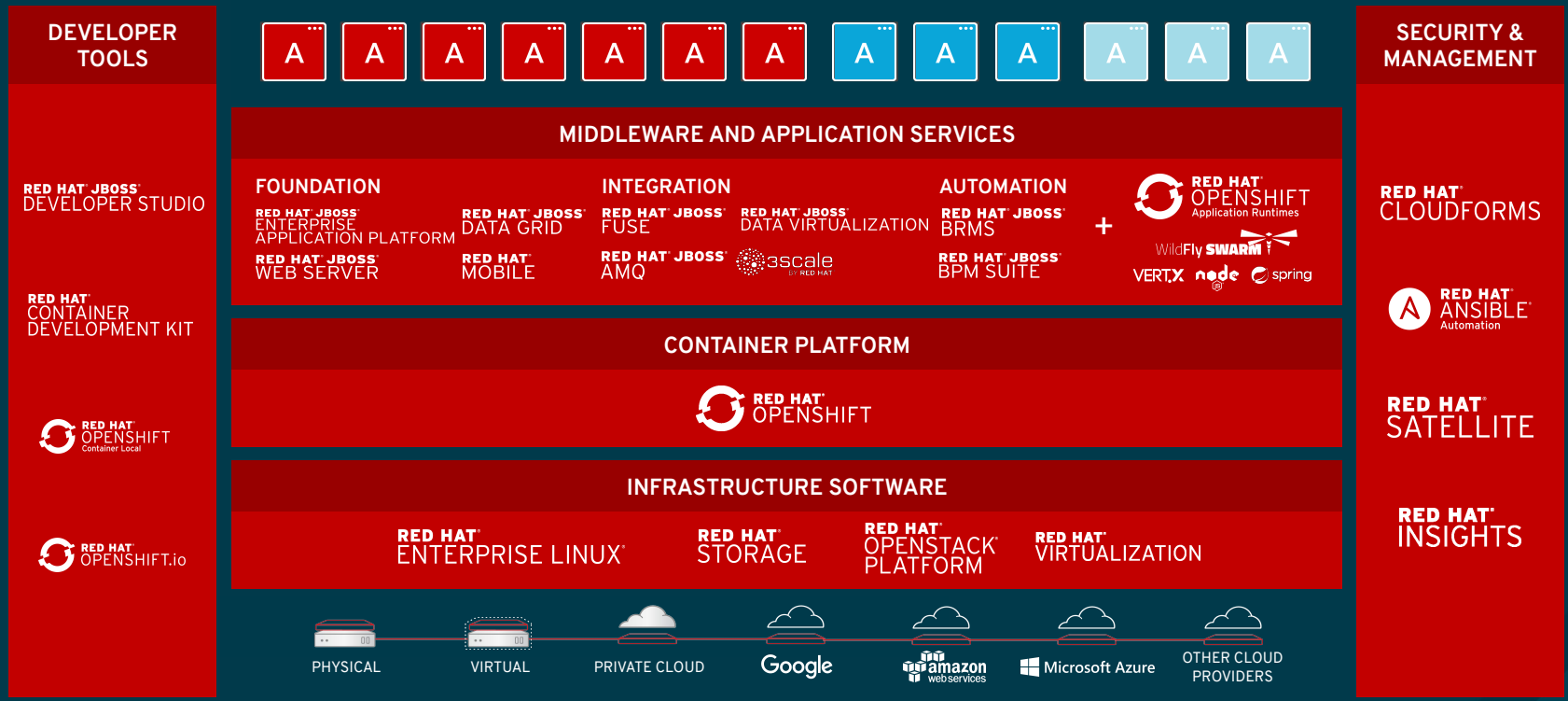


APPLICATION MODERNIZATION & MIGRATION:

WHY RED HAT?

IT'S ALL THERE!

COMPLETE TECHNOLOGY STACK FOR HYBRID CLOUD



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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

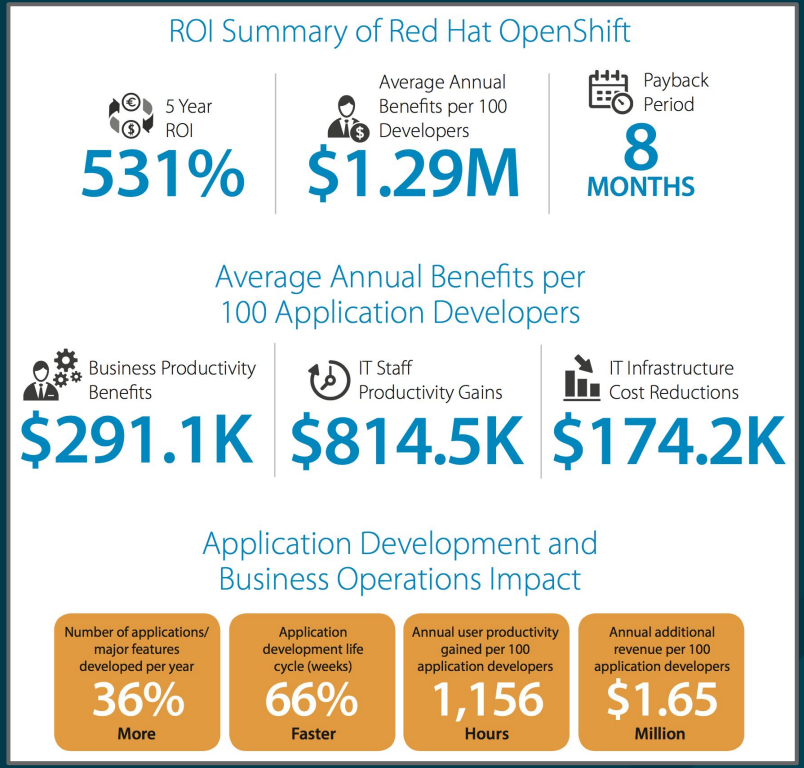
WHY MODERNIZE?

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"



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SOME CUSTOMERS

Application Modernization customers

APPLICATION MODERNIZATION:

APPROACH AND BEST PRACTICES

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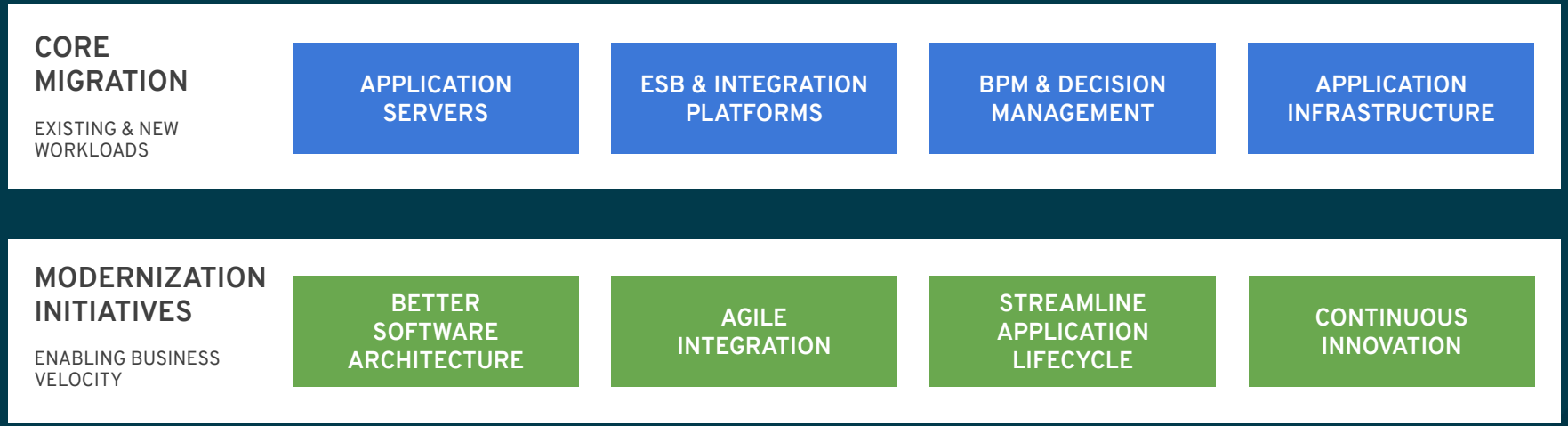
OPPORTUNITIES FOR CHANGE

Application Modernization and Migration



CORE PLATFORM MIGRATION

Source & target platforms

APPLICATION SERVER	ESB & INTEGRATION PLATFORMS	BPM & DECISION MANAGEMENT	APPLICATION INFRASTRUCTURE
Java EE workloads	Functional & data integration	Business rules & processes	Open hybrid cloud & containers
FROM: IBM WebSphere, Oracle WebLogic, Glassfish, Apache Tomcat, JBoss AS Community, Oracle Coherence **TO:** JBoss Enterprise Application Platform, JBoss Web Server, JBoss Data Grid	**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	**FROM:** IBM WODM / ILOG, IBM BPM, Appian, TIBCO ActiveMatrix, Pega, Bonita, Oracle BPM Suite, Oracle Business Rules **TO:** JBoss BPM Suite JBoss BRMS	**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)

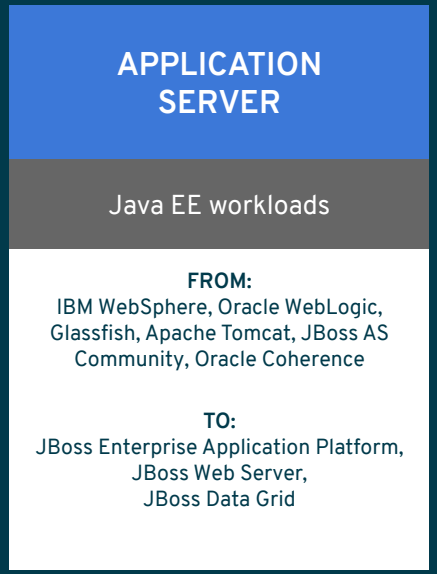
MODERN APPLICATION CONCEPTS

Enhancing applications, platform & processes

BETTER SOFTWARE ARCHITECTURE	AGILE INTEGRATION	STREAMLINE APPLICATION LIFECYCLE	CONTINUOUS INNOVATION
Future-proof applications	Bridge old and new	Speed up your business	Foster an agile culture
Modularize Adopt standards Reuse instead of reinvent Clean technical debt & risk	Decouple, expose & integrate APIs, services & applications Need hybrid-cloud-enabled integration platform	Accelerate time from idea to production Continuous Integration & Delivery (CI/CD) Automation & self-service Container technology	Agile methodology DevOps principles Collaboration

CORE PLATFORM MIGRATION

Application and web server migration



- **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 INFRASTRUCTURE
MODERNIZATION INITIATIVES ENABLING BUSINESS VELOCITY	BETTER SOFTWARE ARCHITECTURE	AGILE INTEGRATION	STREAMLINE APPLICATION LIFECYCLE	CONTINUOUS INNOVATION

MOST WANTED ANSWERS

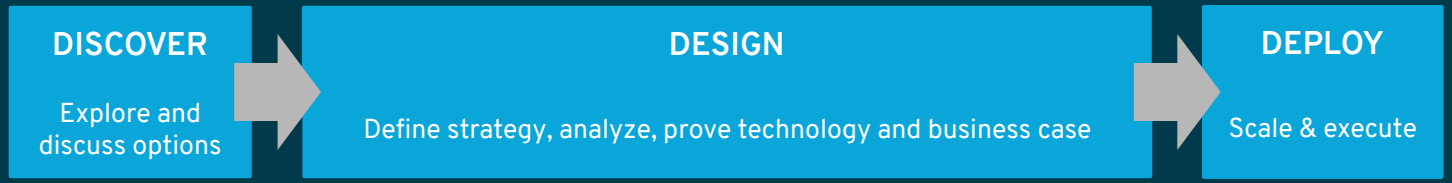
Approaching a large-scale application modernization

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

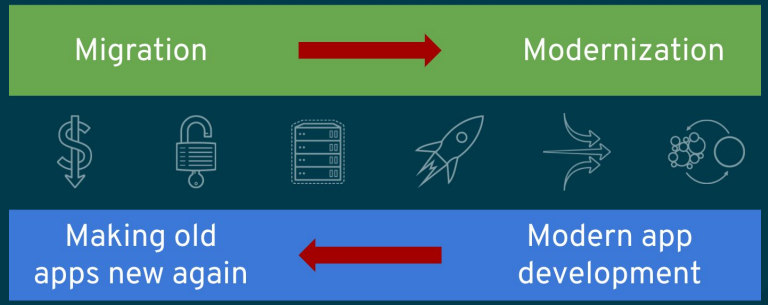
Iterative, managed service, factory scale up.



METHODOLOGY

Iterative, managed service, factory scale up.

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



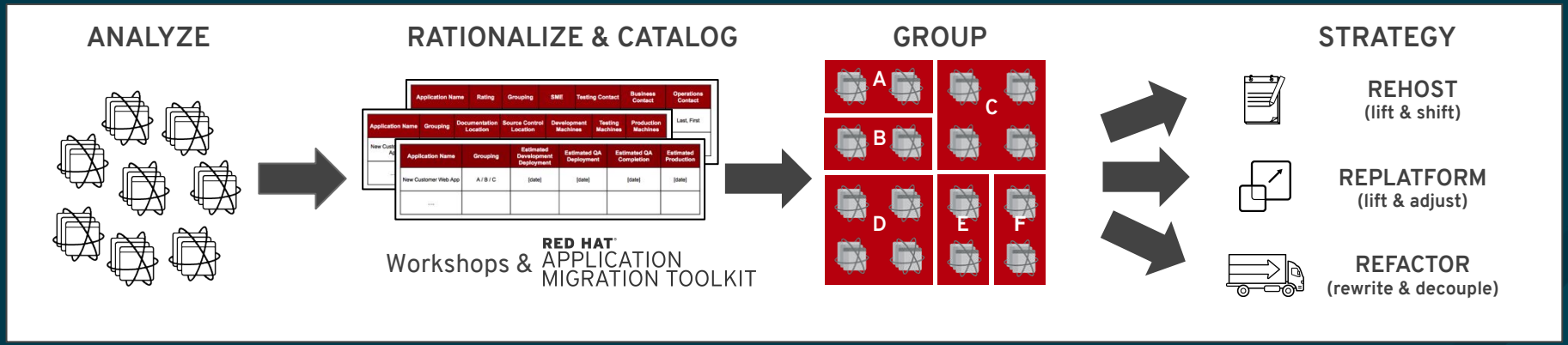
METHODOLOGY

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

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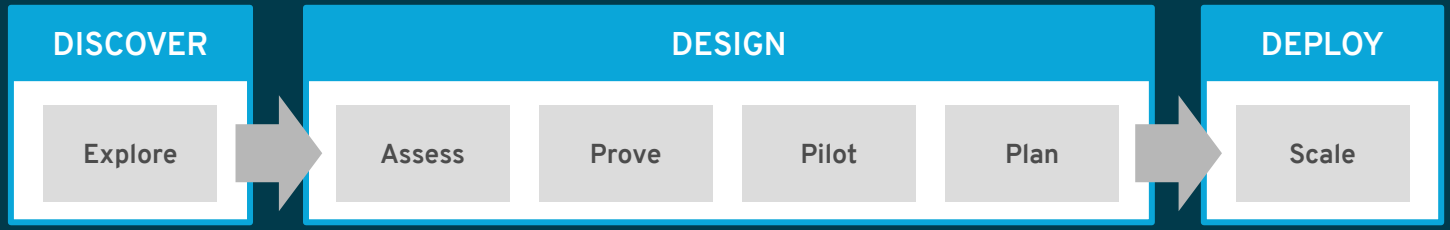

Typical duration	1 day	4 - 10 weeks	2 - 12 months

- 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

STEERING TEAM

Technical lead / architect

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

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

redhat.

THANK YOU

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