



APPLICATION STRATEGIES FOR A MODERN ENTERPRISE



AGENDA

- Why change?
- Why Red Hat?
- Our approach

APPLICATION MODERNIZATION:

WHY CHANGE?

SUCCEEDING AT DIGITAL TRANSFORMATION

EFFICIENCY

AGILITY

SPEED



OPTIMIZE THE IT
YOU HAVE



INTEGRATE APPS, DATA,
AND PROCESSES



ADD & MANAGE CLOUD
INFRASTRUCTURE



BUILD MORE MODERN
APPLICATIONS

MODERN BUSINESS CHALLENGE

Business wants more with less



- Increased expectations from business to deliver new functionality **faster**.
- Pressures from the business to **reduce cost**.
- How can we do more with less?

MODERN BUSINESS CHALLENGE

Business wants more with less



SPEED = REVENUE

BARRIERS TO CHANGE

Antiquated: people, process, technologies



Industry disruptors either ...

- ... are **greenfield** and do not have legacy challenges.
- ... have **re-tooled** to be competitive in 2017 landscape.

THE CIO DILEMMA

Business Expectations become IT Challenges



Resources



Time



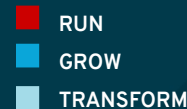
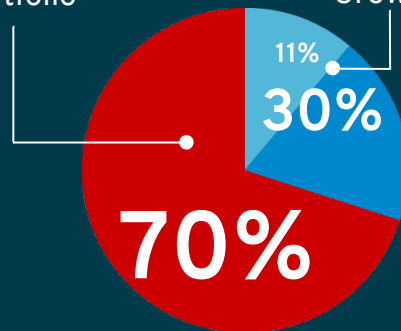
Budgets



Maintain
current
portfolio



Innovation,
Differentiation,
Growth



WHAT ARE “TRANSFORMERS” DOING DIFFERENTLY?

The Vision: Everything-as-a-Service (EaaS)

Transformation

Ideas to production safely in a day.

Goal

85% of the bank's apps developed and deployed on their automated EaaS PaaS platform by 2020 on a fraction of their current infrastructure.

Deutsche Bank



WHAT ARE “TRANSFORMERS” DOING DIFFERENTLY?

“The IT department is moving way beyond being an internal service provider for the business”

“We’re playing a big part in how the company asks vital questions about its business.”

Klas Bendrik, senior vice-president and CIO of Volvo Car Group

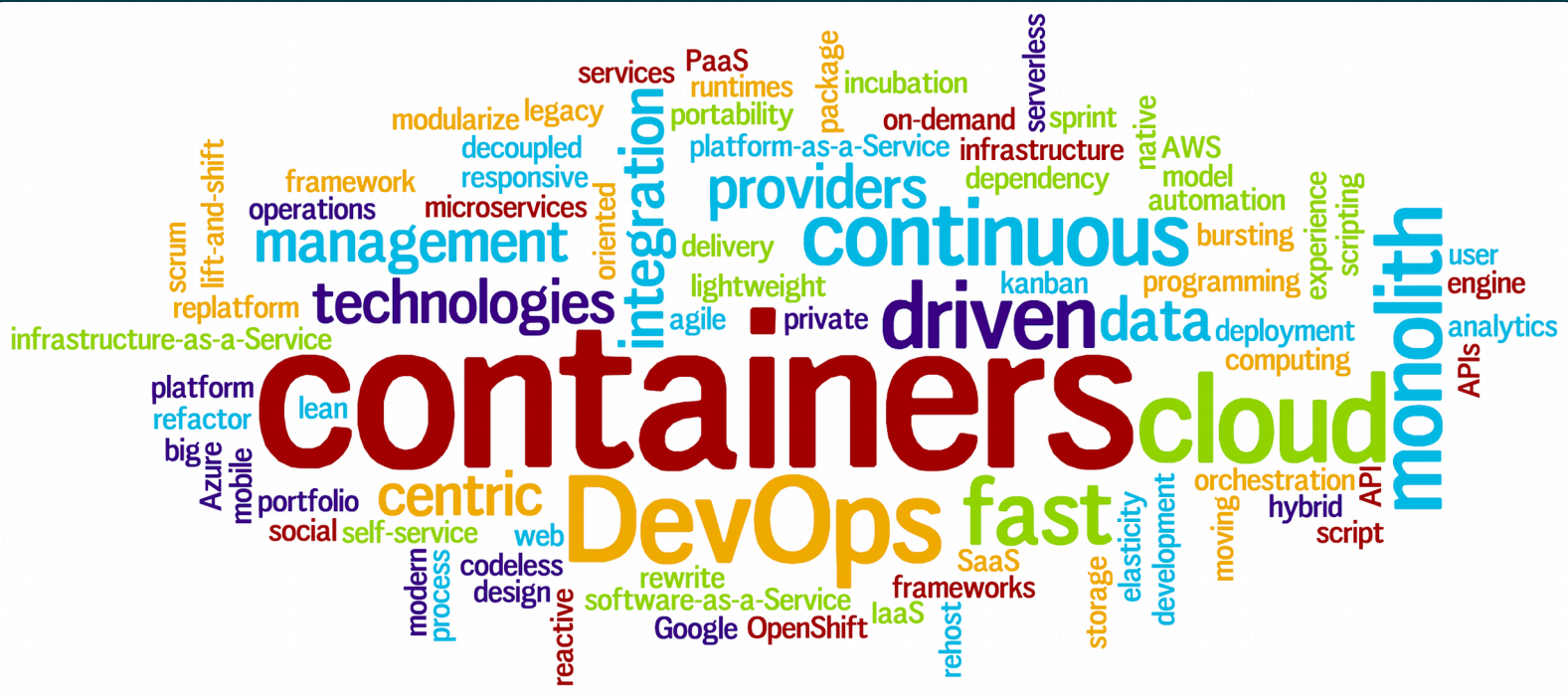


Klas Bendrik, senior vice-president and CIO of Volvo Car Group

Source: “Volvo’s digital launch of the XC90 marks ‘connected car’ era”, ft.com, December 8, 2015

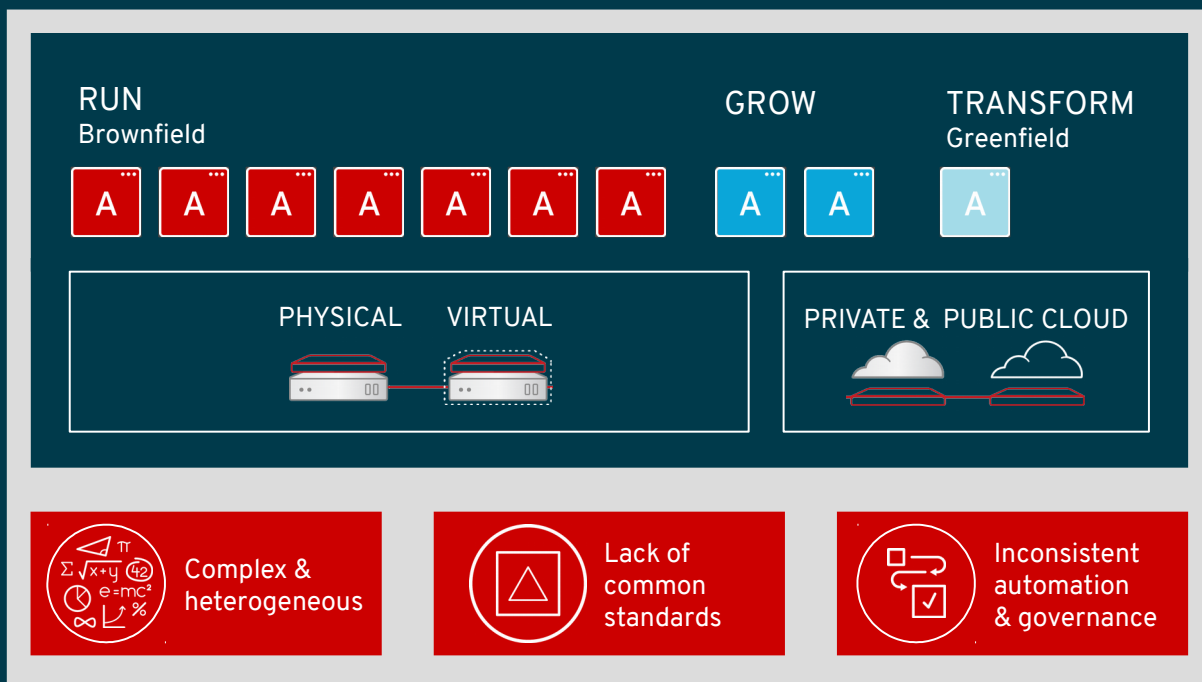
<http://www.ft.com/cms/s/2/4e8b4230-951e-11e5-8389-7c9ccf83dceb.html#axzz4JKZ1934H>

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



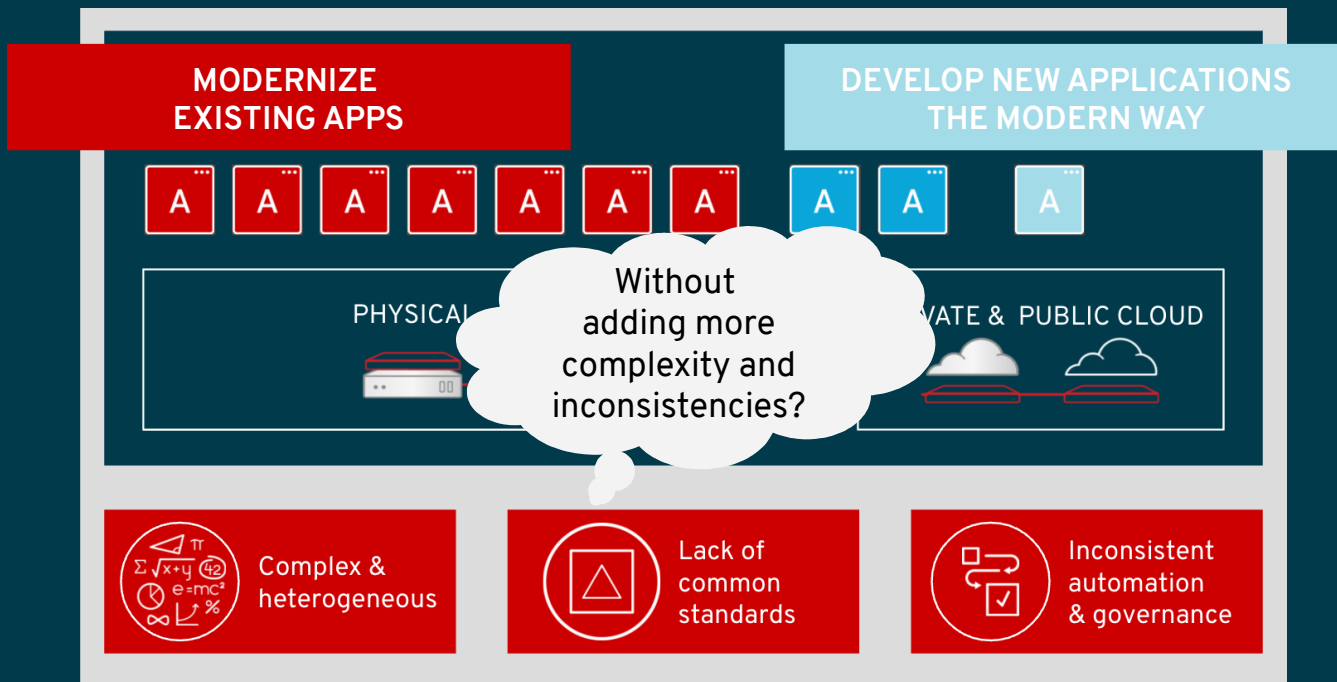
TYPICAL CUSTOMER LANDSCAPE TODAY

Where the journey starts...



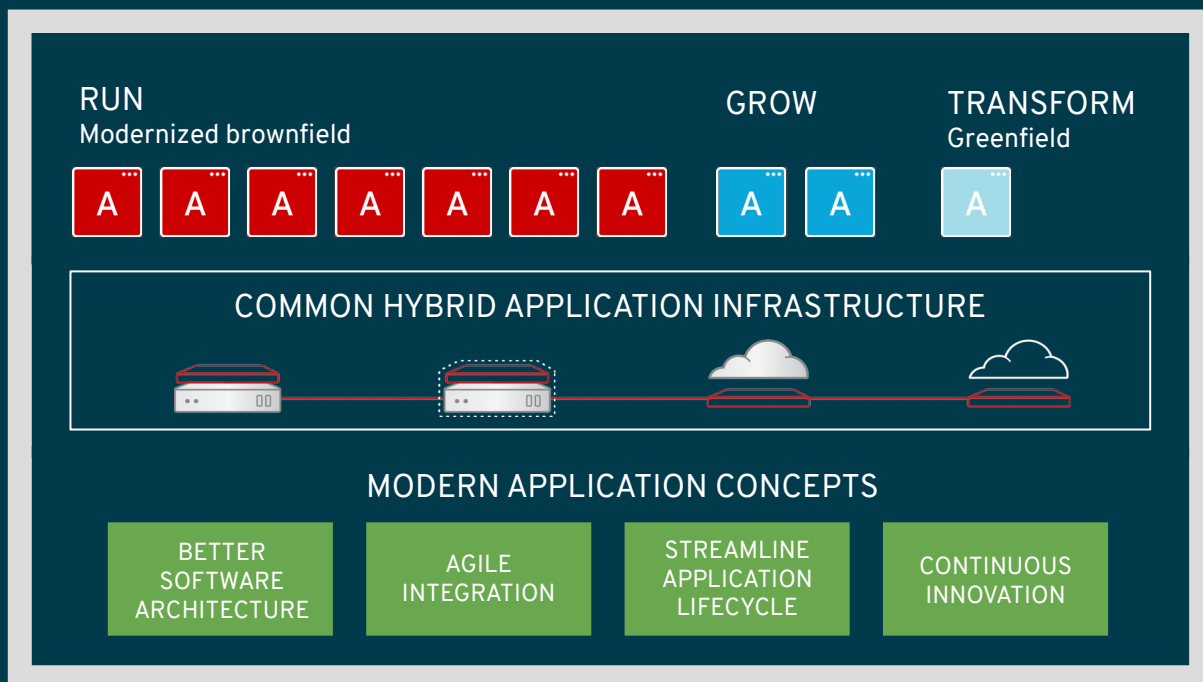
TYPICAL CUSTOMER LANDSCAPE TODAY

Where the journey starts...



APPLICATION PORTFOLIO MODERNIZATION

One platform to support you today and tomorrow

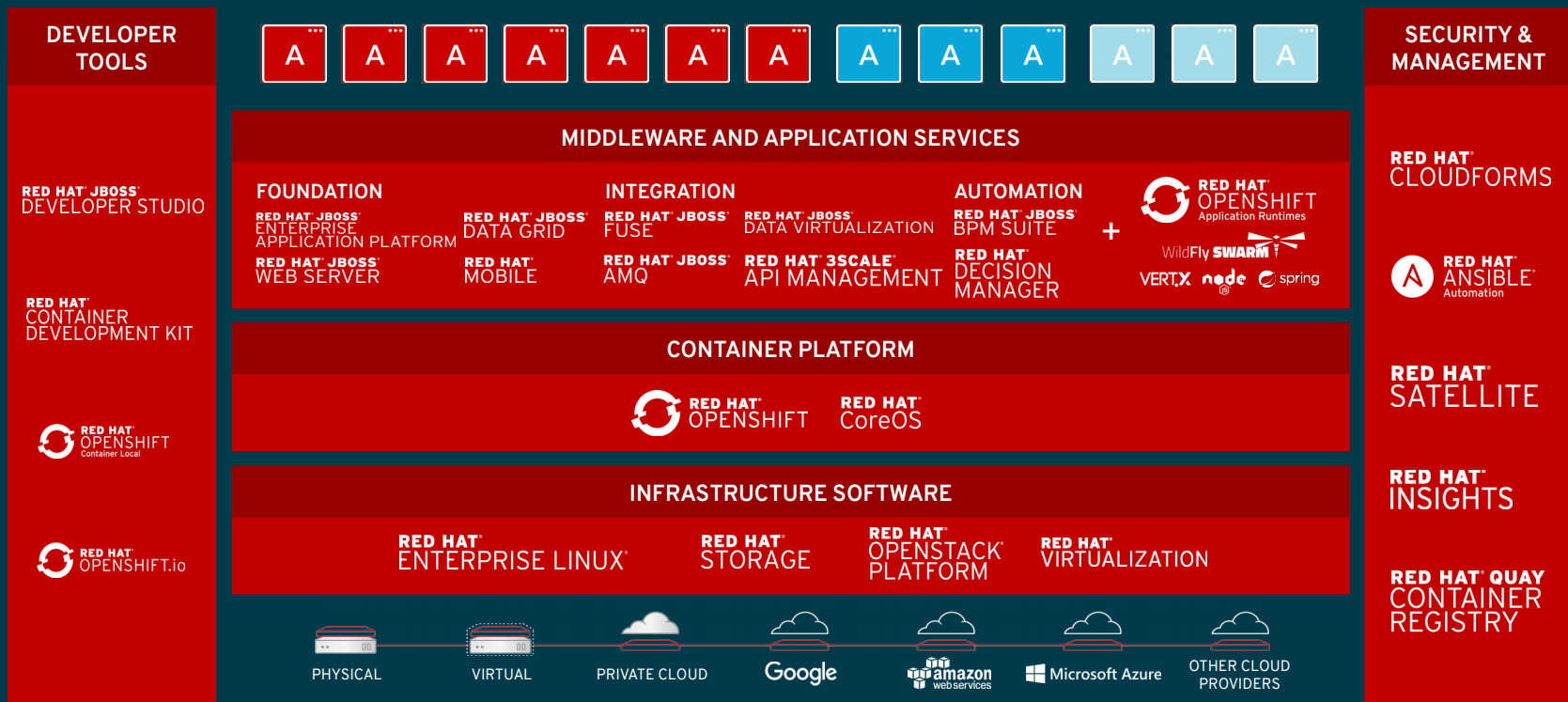


APPLICATION MODERNIZATION & MIGRATION:

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 MIGRATE?

Red Hat JBoss EAP migration benefits

... experienced by our customer moving from IBM WebSphere and Oracle WebLogic.

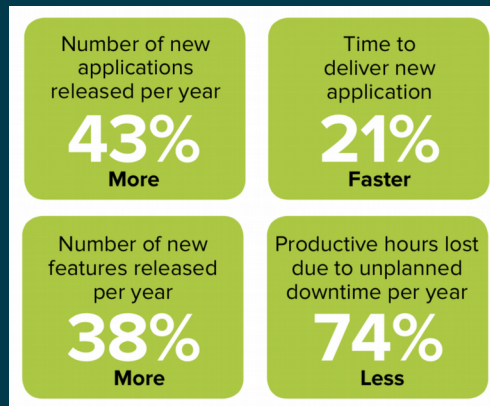
IDC ROI Summary of JBoss EAP



Average Annual Benefits per 100 Users



Risk Mitigation and App Development Impact



IDC study available: [Executive summary](#), [Infographic](#), [White paper](#).

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](#)”

ROI Summary of Red Hat OpenShift



5 Year
ROI

531%



Average Annual
Benefits per 100
Developers

\$1.29M



Payback
Period

**8
MONTHS**

Average Annual Benefits per 100 Application Developers



Business Productivity
Benefits

\$291.1K



IT Staff
Productivity Gains

\$814.5K



IT Infrastructure
Cost Reductions

\$174.2K

Application Development and Business Operations Impact

Number of applications/
major features
developed per year

36%

More

Application
development life
cycle (weeks)

66%

Faster

Annual user productivity
gained per 100
application developers

1,156

Hours

Annual additional
revenue per 100
application developers

\$1.65

Million

SOME CUSTOMERS

Application Modernization customers



Miles & More



CenturyLink®



Government of the Netherlands



THE UNIVERSITY
of NORTH CAROLINA
at CHAPEL HILL



Deutsche Bank



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

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

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?

RED HAT APPROACH

Scope of a modernization / migration



Application Code



Infrastructure

hardware, storage, virtualization, operating system, JVM, application container



Processes & Governance

application lifecycle, build, configuration, deployment, provisioning, DevOps, environments, test, integration, continuous *, monitoring



Knowledge

RED HAT APPROACH

Key good practices



Information sharing based on a central collaborative platform

- Simplified knowledge transfer, with least effort approach: no issue solved twice.
- Red Hat Consulting, Customer Portal, Knowledgebase, Support, Documentation, Trainings.



Reuse, automate, standardize as much as possible

- Infrastructure, deployments, tests, dependencies, stages, processes, management
- Transform: Red Hat Application Migration Toolkit
- Define: Red Hat Developer Suite, Cloud, Containers, System management.



Efficient, proven, pragmatic methodology

- As few changes as possible to get a running functionally identical application
- Holistic portfolio approach for green and brown fields
- Scaling through a factory delivery model

END