



# DIGITAL TRANSFORMATION WITH RED HAT

**Cathal McGloin**

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 @cmcgloin

# THE CHANGING ROLE OF I.T. IN THE ENTERPRISE

**“IT doesn’t matter.”**

Nicolas G. Carr

Harvard Business Review, May 2003

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**“Every organization - whether services, manufacturing or healthcare – is becoming a technology company.”**

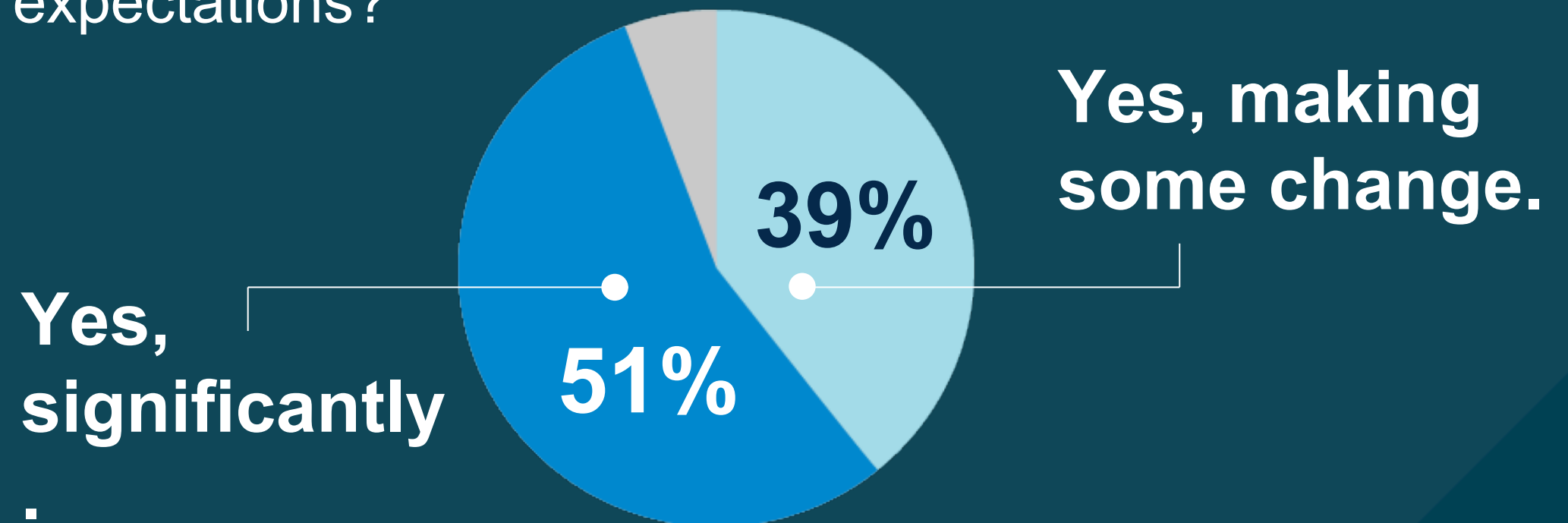
Joe McKendrick

Forbes.com, April, 2015

# 90% OF CEOS ARE CHANGING HOW THEY USE TECHNOLOGY

## QUESTION

Are you changing how you use technology to assess and deliver on wider stakeholder expectations?



**Source:** Survey of 1,409 CEOs in 83 countries by PricewaterhouseCooper, [19th Annual Global CEO Survey](http://www.pwc.com/gx/en/ceo-survey/2016/landing-page/pwc-19th-annual-global-ceo-survey.pdf), January 2016.  
<http://www.pwc.com/gx/en/ceo-survey/2016/landing-page/pwc-19th-annual-global-ceo-survey.pdf>



# DIGITAL TRANSFORMATION

Changing enterprises and entire industries in fundamental ways



**New ways of developing,  
delivering, and integrating  
applications**



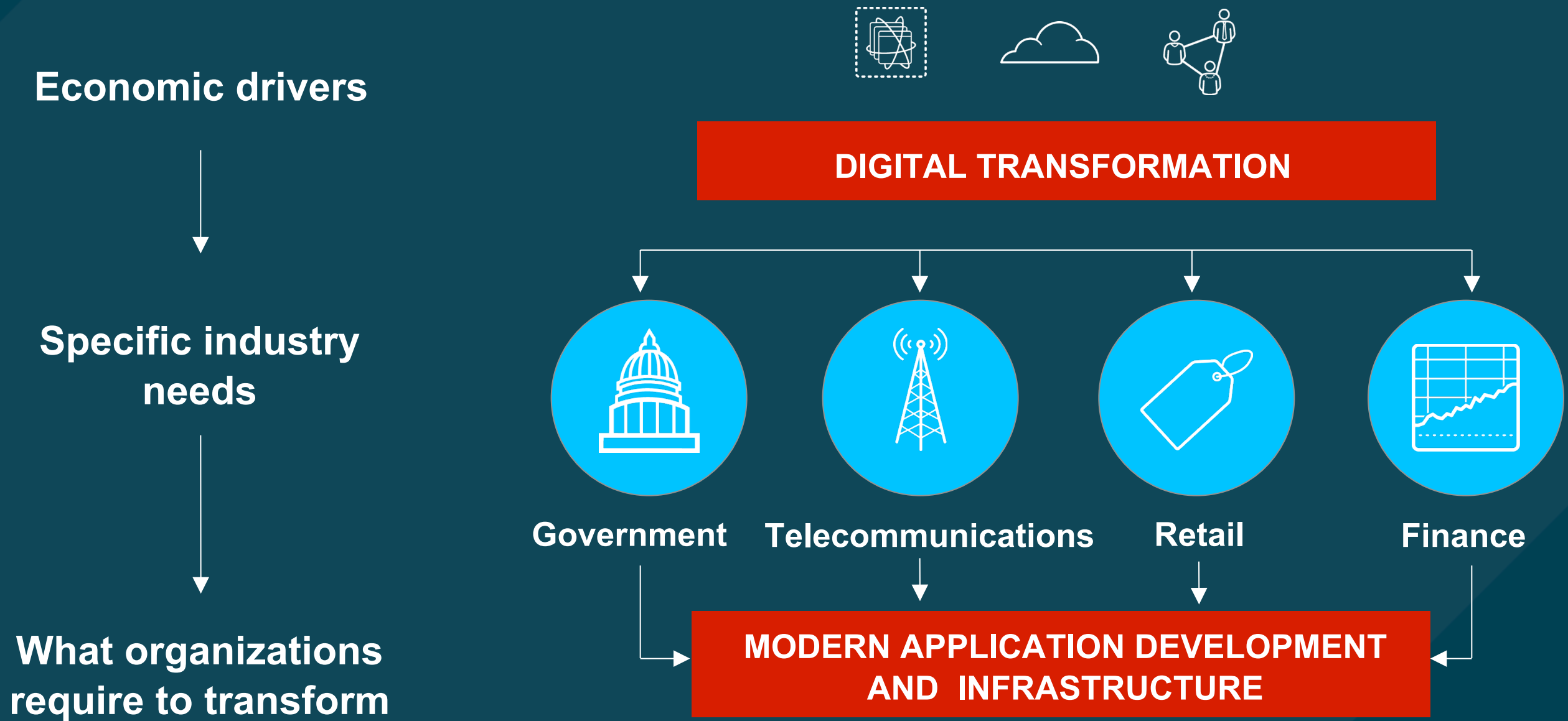
**More agile process  
across both IT and  
the business**



**Modernize existing and  
build new cloud-based  
infrastructure**

**By 2018, 67% of Global 2000 CEOs will have Digital Transformation at  
the center of their corporate strategy – *IDC, 2016***

# DIFFERENT DRIVERS, SAME JOURNEY



# AND AFTER ALL, THE APP IS KING!



**Government**



**Telecommunications**



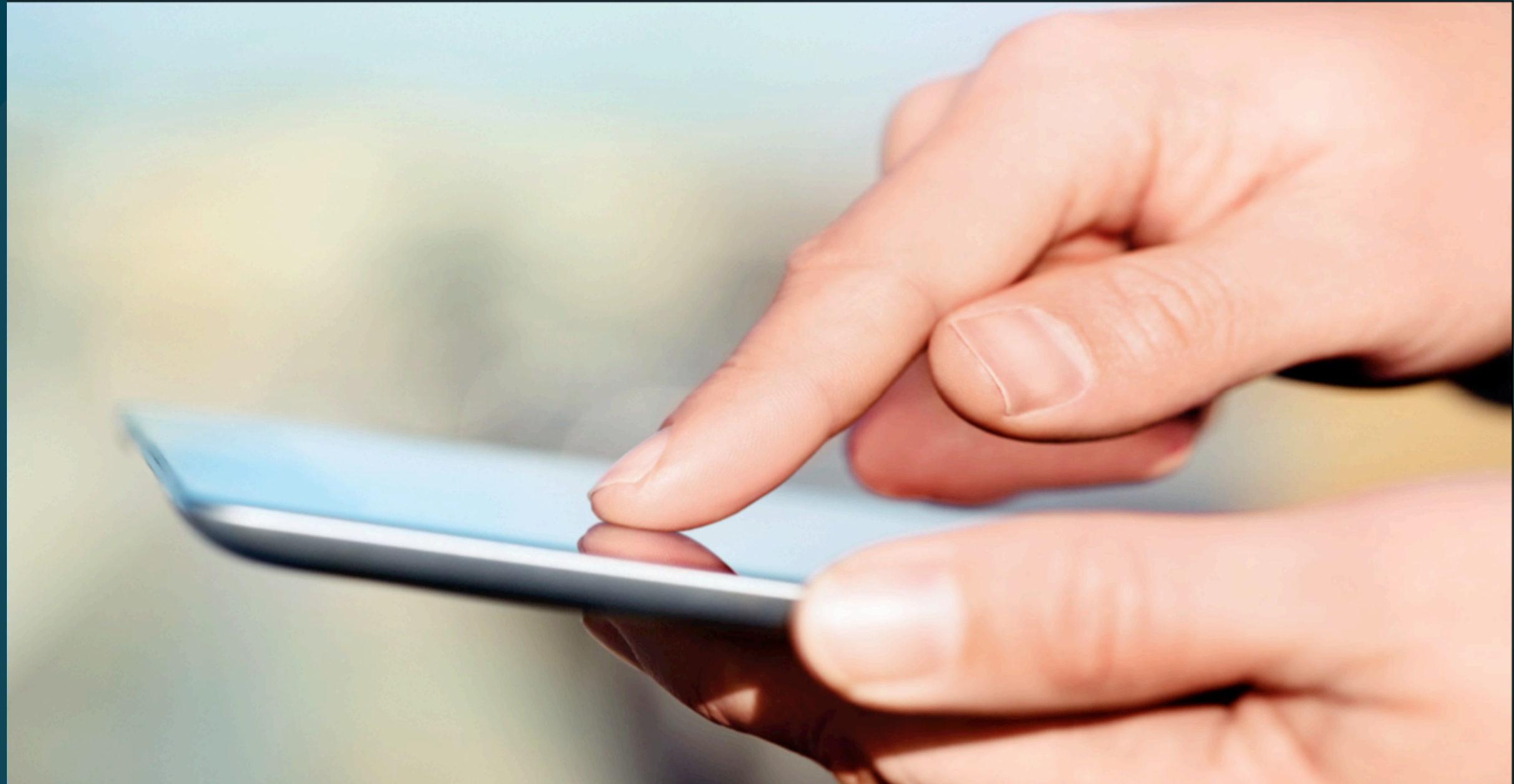
**Retail**



**Finance**



**...AND THE APPS ARE DIFFERENT NOW**



# I.T. MUST EVOLVE...



**MINDSET**



**CULTURE**



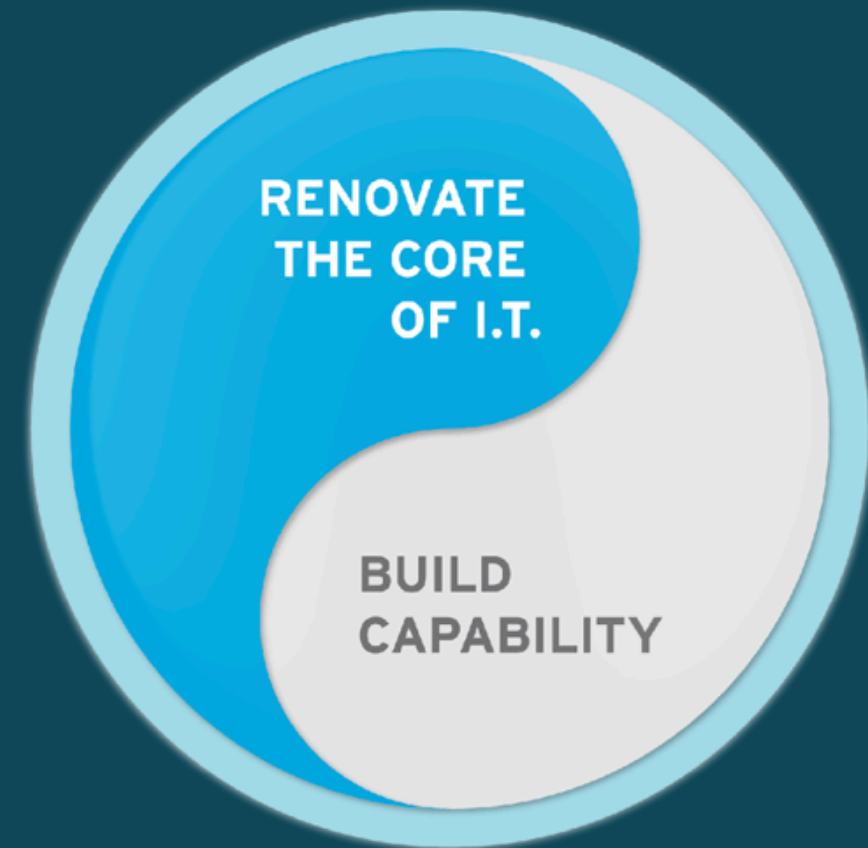
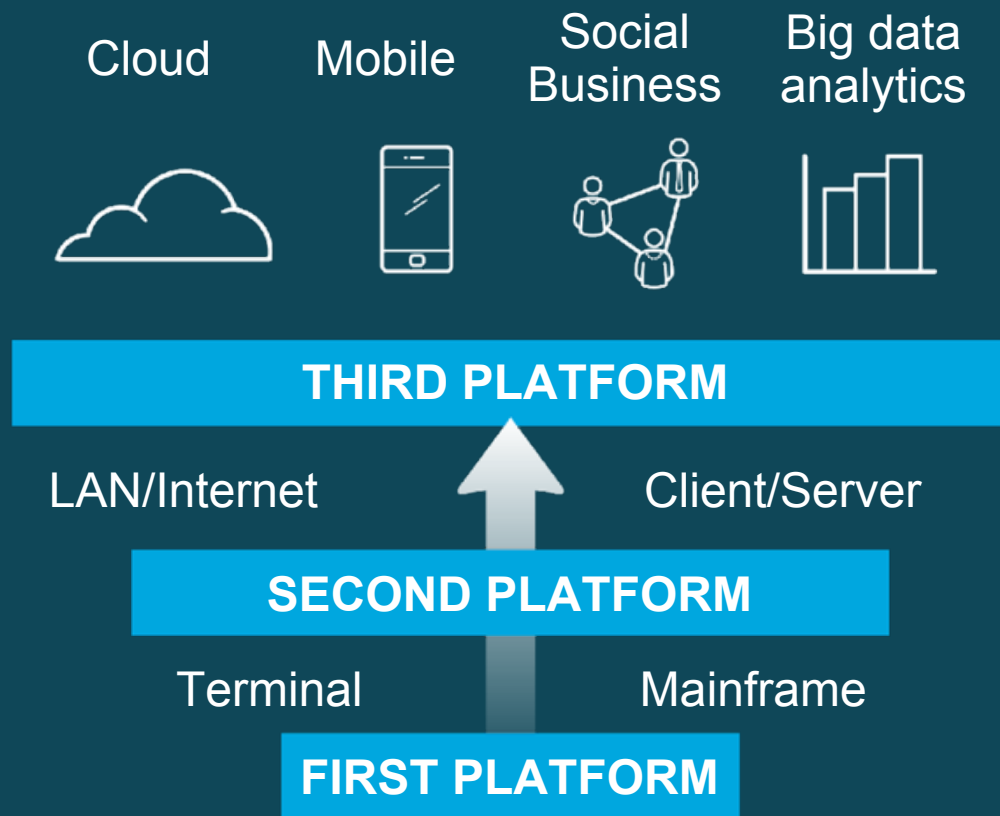
**PROCESS**



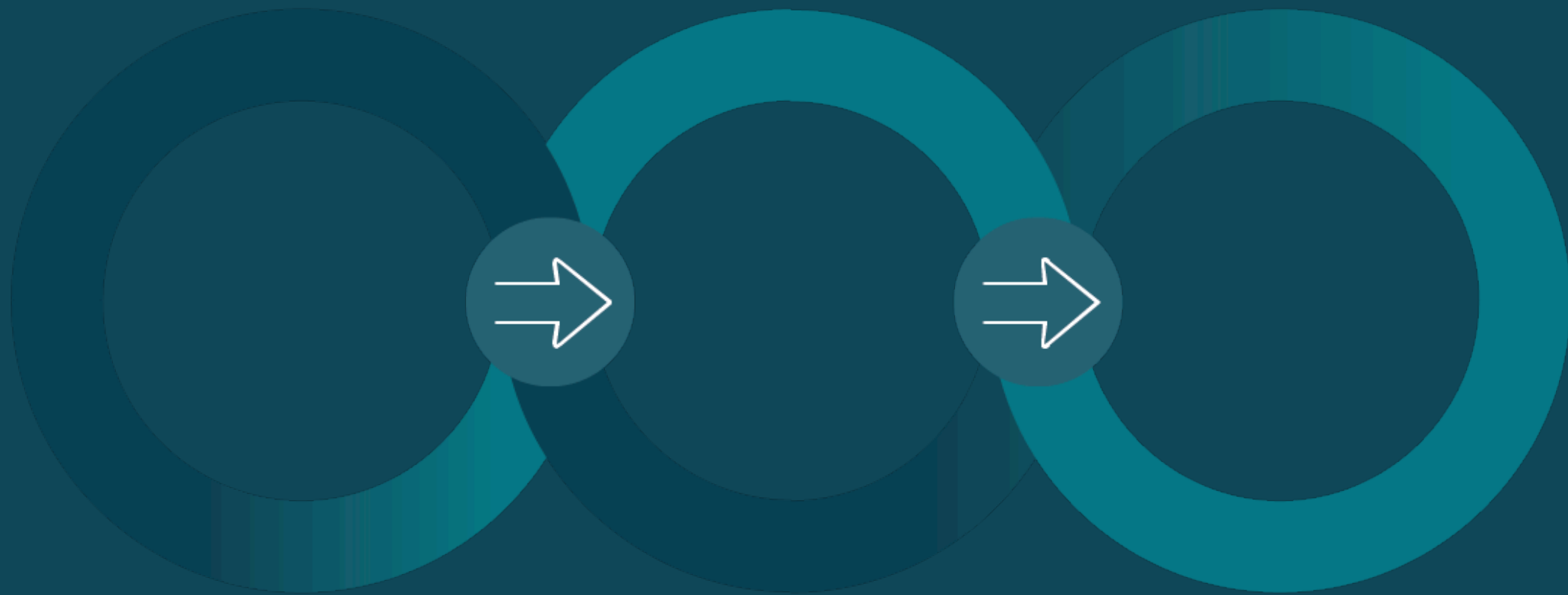
**TECHNOLOGY**

# ...BUT EVOLVE SENSIBLY

## THIRD PLATFORM OF I.T. INNOVATION & GROWTH



Gartner®

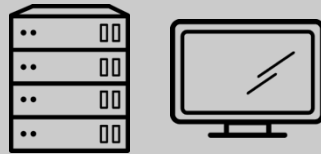


# TRADITIONAL VS. EMERGING

## TRADITIONAL

## EMERGING

### ARCHITECTURE (WHAT)

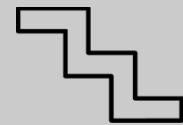


**Monolithic**



**Microservices and APIs**

### PROCESS (HOW)



**Waterfall**



**Agile and DevOps**

### PLATFORM (WHERE)



**Datacenter**



**Containers, Cloud,  
and Mobile**

# ARCHITECTURE



API-centric



User-first



Microservices



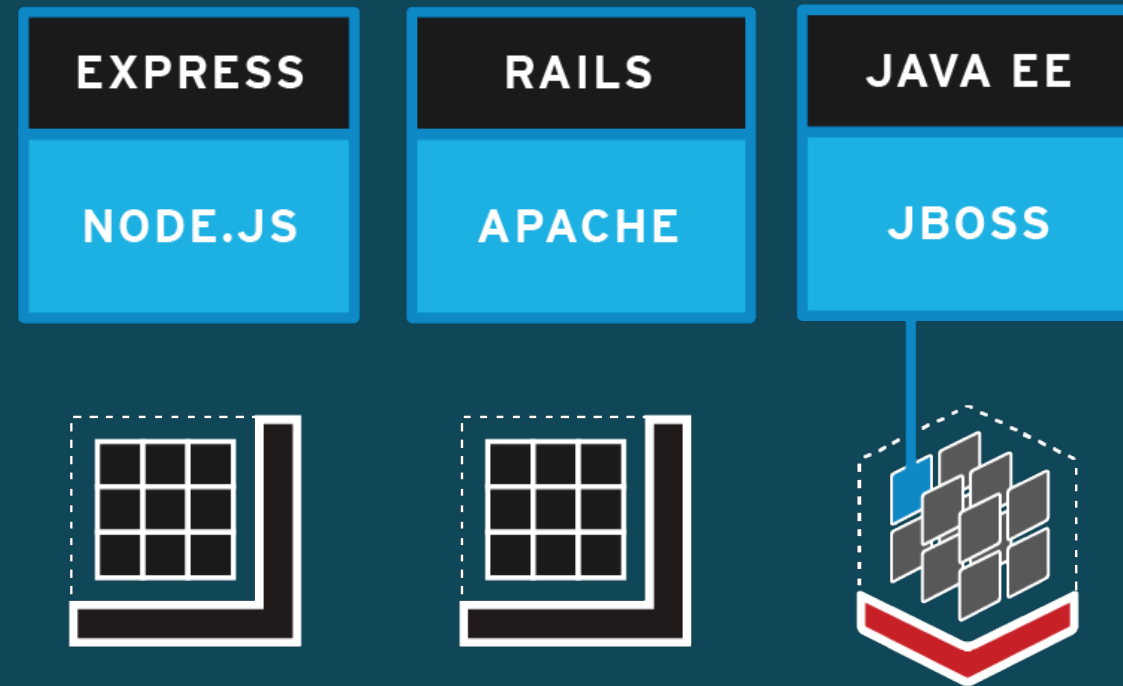




**VIRTUAL  
SERVER**

**CONTAINER**

# CONTAINERS CREATE CONSISTENCY



# PROCESS



DevOps



Agile



Citizen  
developers

# (Biz)DevOps

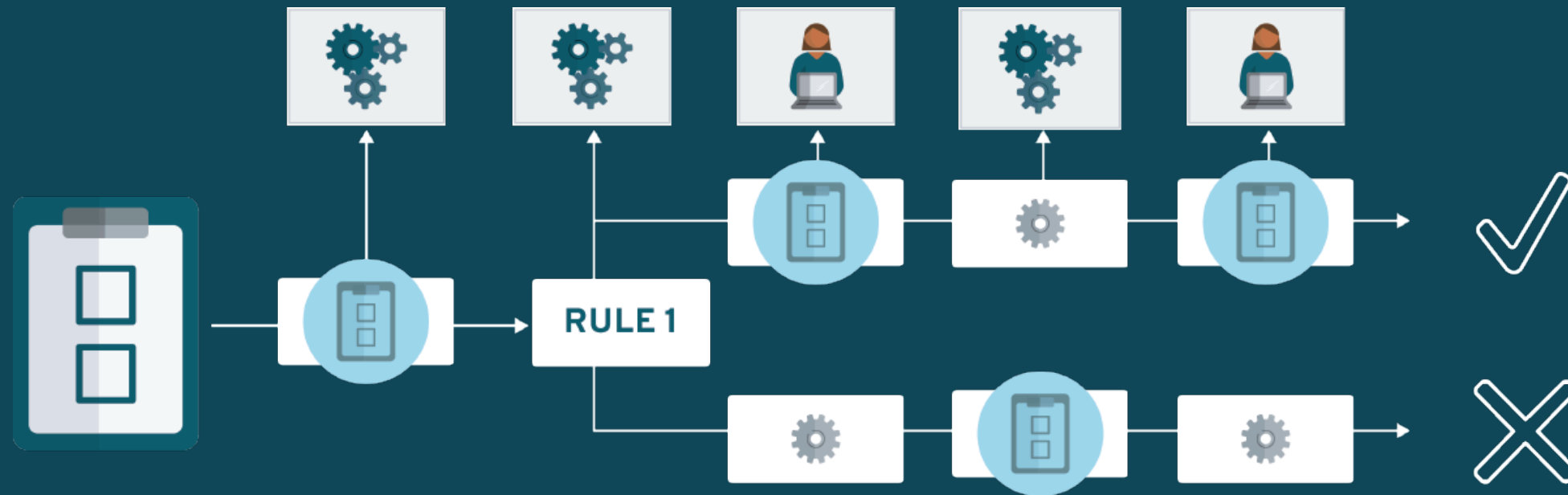


BUSINESS

APP DEVELOPMENT

OPERATIONS

# THE CITIZEN DEVELOPER



**RED HAT® JBOSS®**  
**BPM SUITE**

# PLATFORM



Cloud-based



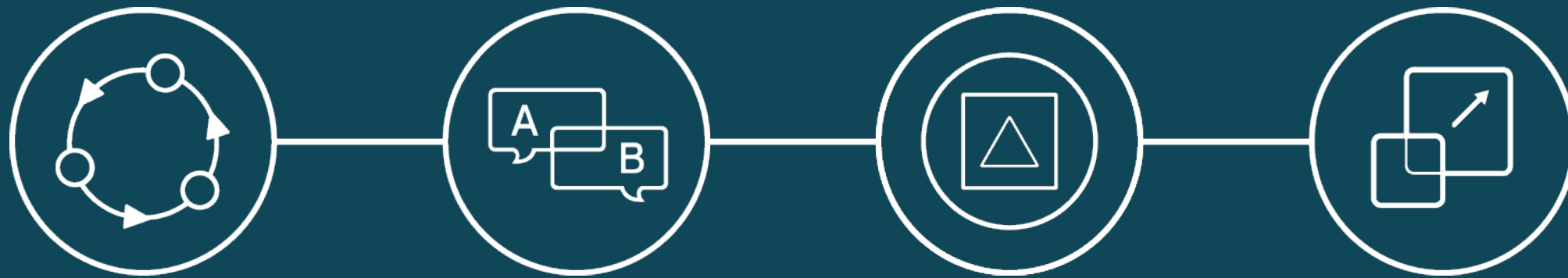
Middleware  
services

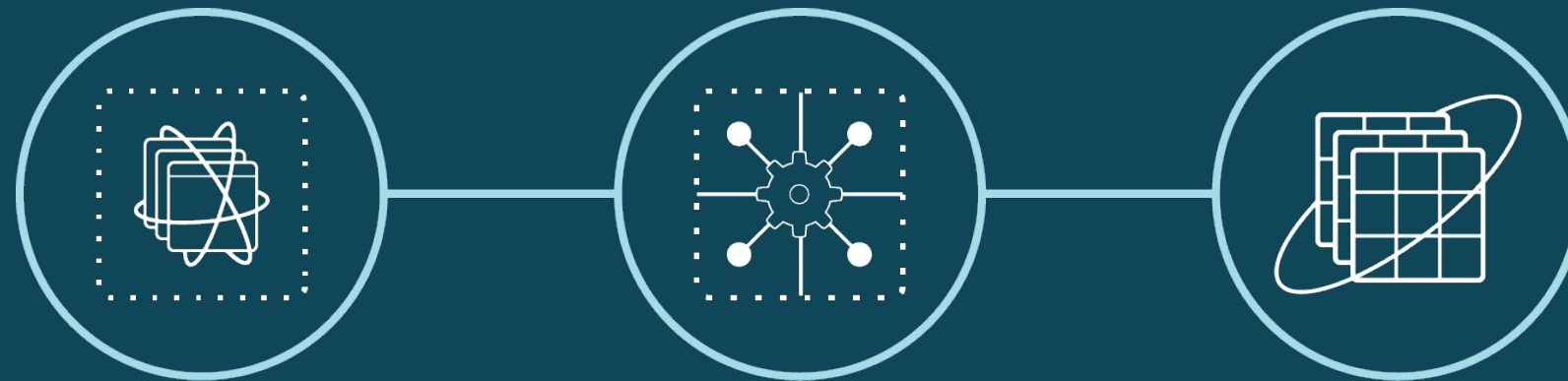


Application  
lifecycle  
management



Mobile





 **OPENSIFT**<sup>®</sup>  
by Red Hat<sup>®</sup>



# RED HAT HYBRID CLOUD APP DEV PRODUCTS

## Red Hat Developer Studio

AUTOMATE business rules & processes

**RED HAT® JBOSS®**  
BPM SUITE

**RED HAT® JBOSS®**  
BRMS

INTEGRATE applications, data & devices

**RED HAT® JBOSS®**  
FUSE

**RED HAT® JBOSS®**  
A-MQ

**RED HAT® JBOSS®**  
DATA VIRTUALIZATION

ACCELERATE application delivery

**RED HAT® JBOSS®**  
ENTERPRISE  
APPLICATION PLATFORM

**RED HAT®**  
MOBILE APPLICATION  
PLATFORM

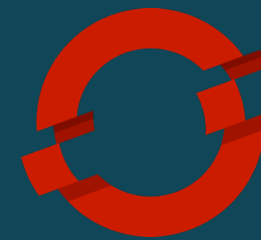
**RED HAT® JBOSS®**  
DATA GRID

## OpenShift by Red Hat



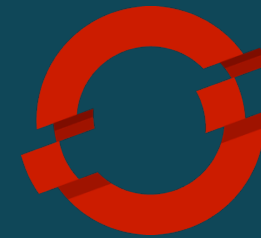
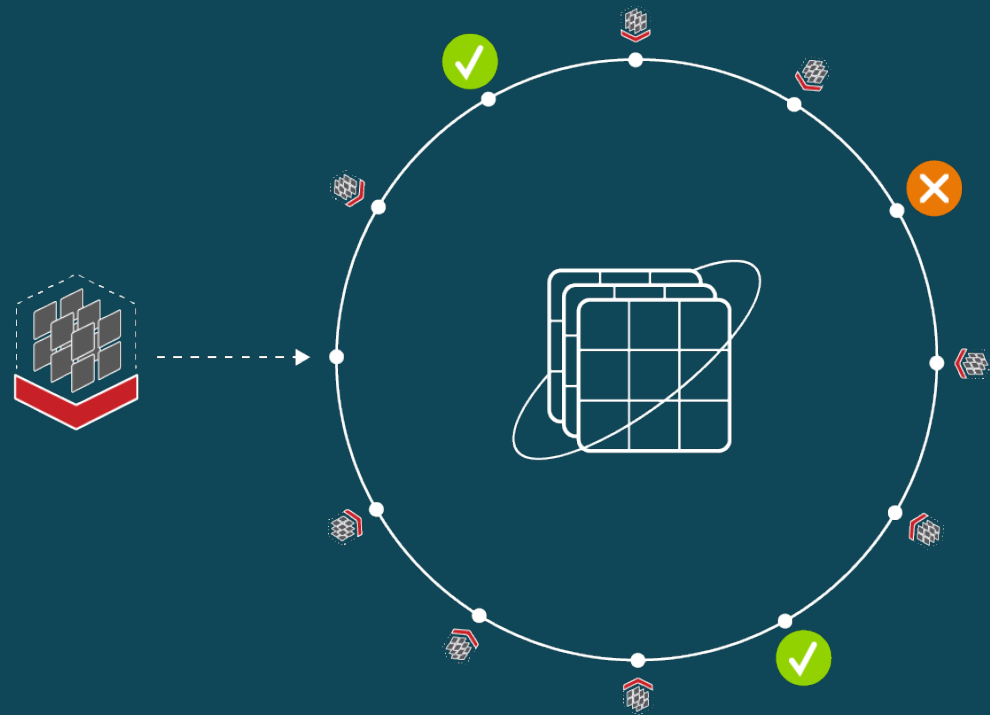
MICROSERVICES

# CREATE CODE IN YOUR LOCAL ENVIRONMENT



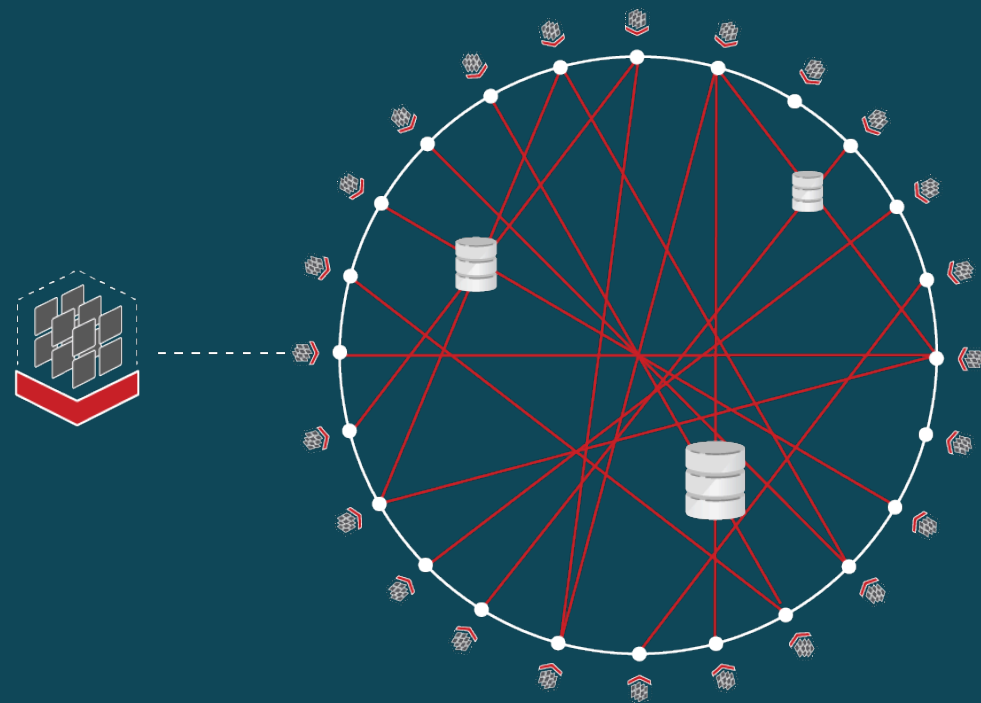
**RED HAT**<sup>®</sup>  
**OPENSIFT**  
Container Local

# WORK TOGETHER TO TEST AND INTEGRATE



**RED HAT**<sup>®</sup>  
**OPENSIFT**  
Container Lab

# NOW YOU ARE READY FOR PRODUCTION

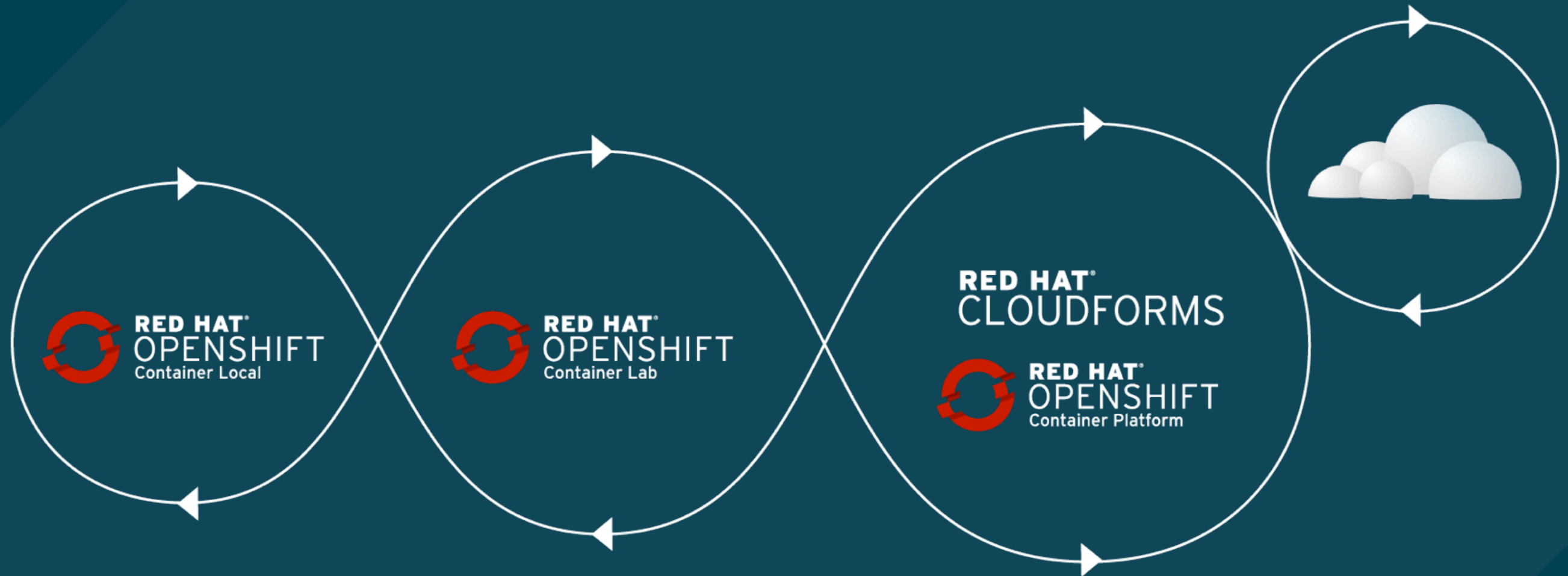


**RED HAT®**  
CLOUDFORMS



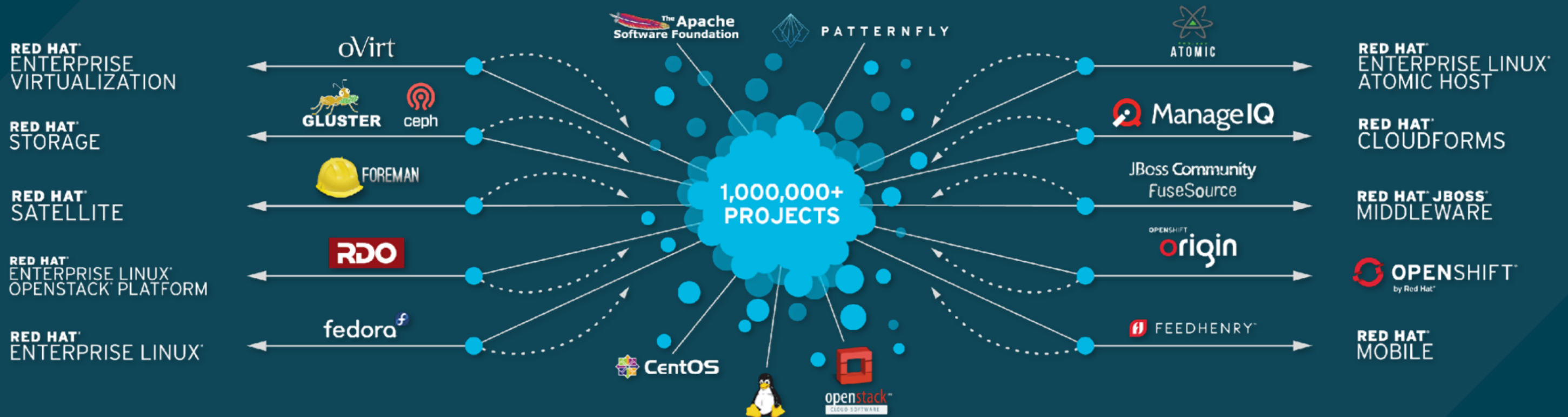
**RED HAT®**  
OPENSIFT  
Container Platform

# MOVE AT THE SPEED YOU'VE ALWAYS WANTED



# RED HAT'S UNIQUE APPROACH

Harness open source innovation and deliver mission-critical IT solutions



# RED HAT'S PLATFORM VISION – OPEN HYBRID CLOUD

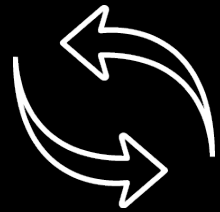
Seamless DevOps, microservices, & containers on Linux  
across the four footprints



# MODERNIZING THE TRADITIONAL IT ENVIRONMENT

## Standardize

Improve **efficiency** with a **standardized** operating environment



## Virtualize

Prepare for cloud with **powerful, cost-effective** virtualization



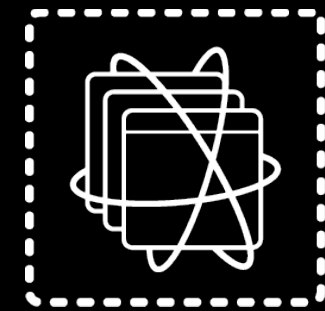
## Automate

Use **automation and management** tools to improve **productivity**



## Containerize

**Containerize** existing apps for **efficiency and ease of management**



**SAME BUILDING BLOCKS FOR YOUR FUTURE CLOUD-NATIVE IT ENVIRONMENT**



# RED HAT STACK: INFRASTRUCTURE

## INFRASTRUCTURE SOFTWARE

**RED HAT**  
ENTERPRISE LINUX

**RED HAT**  
ENTERPRISE LINUX  
ATOMIC HOST

**RED HAT**  
STORAGE

**RED HAT**  
OPENSTACK  
PLATFORM

**RED HAT**  
VIRTUALIZATION

# RED HAT STACK: CONTAINER PLATFORM

CONTAINER PLATFORMS



# RED HAT STACK: MIDDLEWARE/SERVICES

## MIDDLEWARE AND APPLICATION SERVICES



**RED HAT JBOSS**  
BPM SUITE

**RED HAT JBOSS**  
BRMS

**RED HAT JBOSS**  
FUSE

**RED HAT JBOSS**  
A-MQ

**RED HAT JBOSS**  
DATA GRID

**RED HAT JBOSS**  
DATA VIRTUALIZATION

**RED HAT JBOSS**  
ENTERPRISE  
APPLICATION PLATFORM

**RED HAT**  
MOBILE APPLICATION  
PLATFORM

# RED HAT OPEN MANAGEMENT PLATFORM

Know, Deliver, Control, Automate



## CLOUDFORMS

DELIVER SERVICES  
ACROSS YOUR HYBRID  
CLOUD

Hybrid Cloud Management  
Self-Service Provisioning  
Policy-driven Compliance



## ANSIBLE

AUTOMATE YOUR IT  
PROCESSES &  
DEPLOYMENTS

Simple & powerful language  
No agents to install  
Scale with Ansible Tower



## INSIGHTS

PREVENT CRITICAL  
ISSUES BEFORE THEY  
OCCUR

Continuous Insights  
Verified Knowledge  
Proactive Resolution



## SATELLITE

BUILD A TRUSTED &  
SECURE RED HAT  
ENVIRONMENT

Manage the Red Hat Lifecycle  
Provision & Configure at Scale  
Standardize Your Environment

# WHAT THE FUTURE LOOKS LIKE

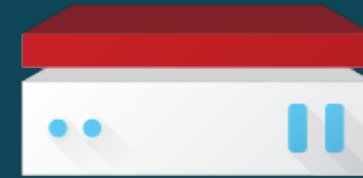
The culture and benefits of continuous innovation

# DEV AND OPS EXPERIENCE



**10 YEARS**

focused on developers and  
their productivity



**15 YEARS**

Bringing open source  
platforms to operations

# CONTINUING TO INNOVATE

## RED HAT® CLOUD SUITE

Become usefully,  
dynamically hybrid

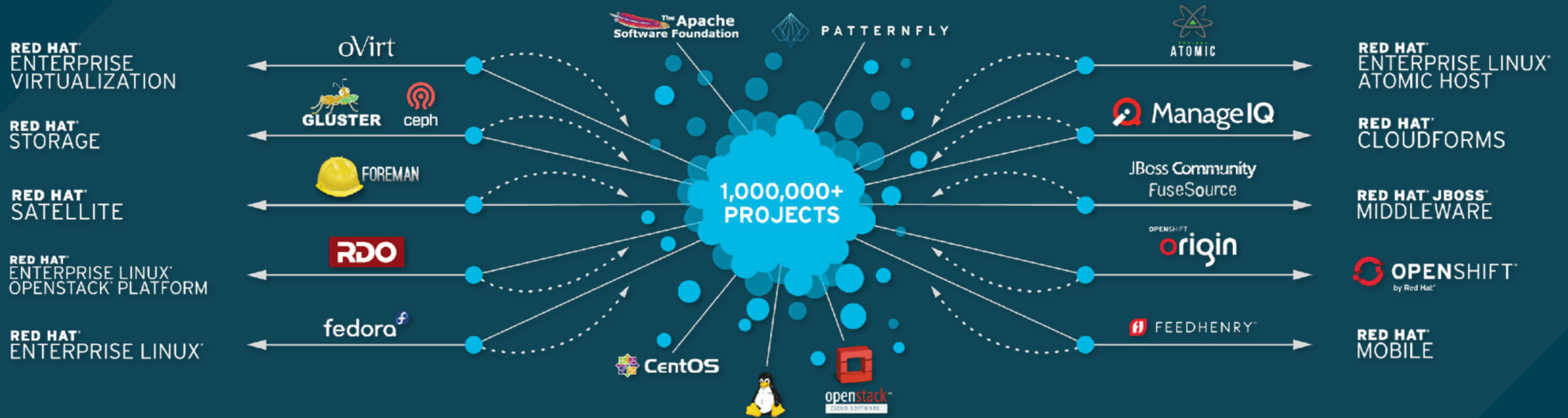
## RED HAT OPEN INNOVATION LABS

Develop better  
solutions faster



Open up your APIs  
but keep control

# INNOVATION OF THE FUTURE





# PLATFORM FOR THE FUTURE





**GRACIAS!**

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