

# **SUPPORTING INNOVATION AND STABILITY IN SOLUTIONS DEVELOPMENT WITH OPEN SOURCE PLATFORMS**

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Nov 14, 2018

# WHAT DO FINANCIAL SERVICES FACE?

SOLVING TODAY'S CHALLENGES



Increasing  
client  
expectations



Complex  
regulatory  
landscape



Longer time to  
revenue



Intense  
competitive  
pressures

# THE RESPONSE IS..



Deliver  
superior  
client  
experiences



Agility to keep  
pace with  
required change



Reduce costs  
and increase  
operational  
efficiency



Innovate to  
remain relevant

# TRANSFORMATION BEYOND TECHNOLOGY

INVOLVES TRANSFORMING I.T. AND BUSINESS



## NEXT-GENERATION ARCHITECTURE

New ways of developing,  
delivering, and integrating  
applications



## CLOUD-NATIVE PLATFORMS

Modernize existing and  
build new cloud-based  
infrastructure



## DEVOPS & CULTURAL CHANGES

More agile process  
across both IT and  
the business

# EVOLUTION

## APPLICATION ARCHITECTURE



Monolithic

## DEVELOPMENT PROCESS



Waterfall

## APPLICATION INFRASTRUCTURE



Datacenter

# EVOLUTION

## APPLICATION ARCHITECTURE



Monolithic



N-Tier

**MICROSERVICES**

## DEVELOPMENT PROCESS



Waterfall



Agile

**DEVOPS**

## APPLICATION INFRASTRUCTURE



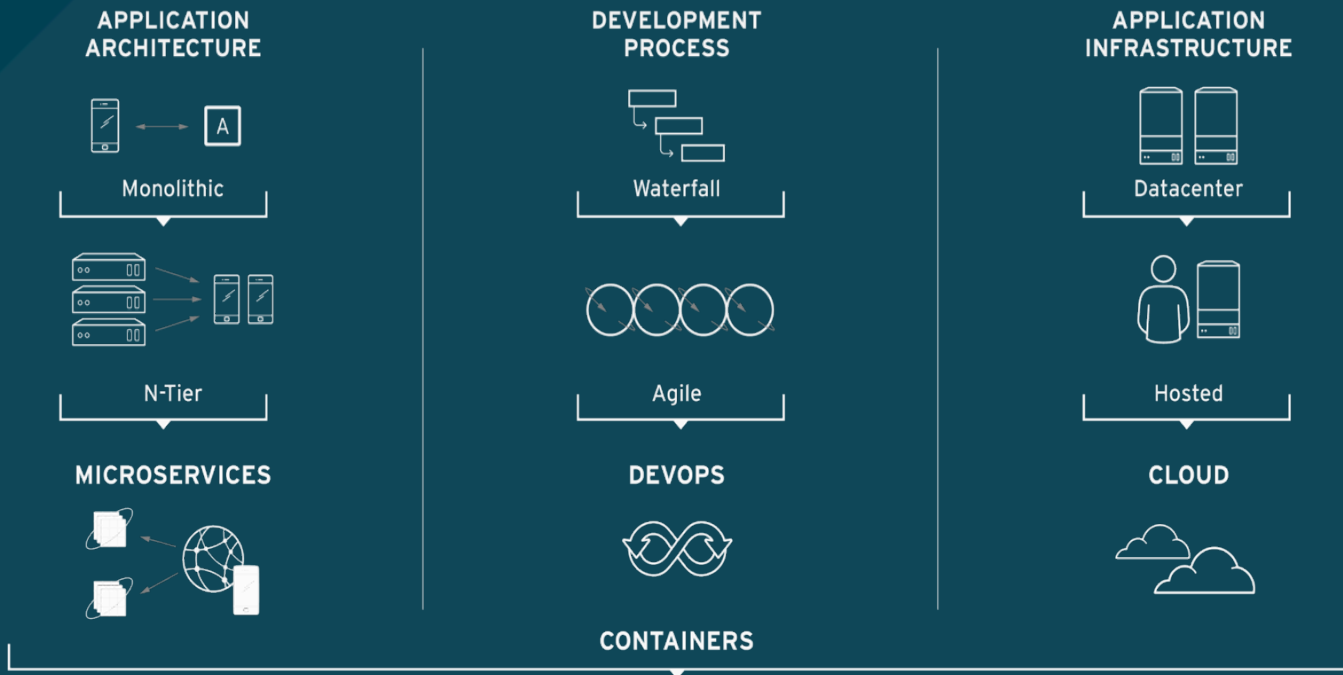
Datacenter



Hosted

**CLOUD**

# EVOLUTION



CONTINUOUS IMPROVEMENT

# CONTAINER AS THE MEAN OF VALUE DELIVERY

- Enable efficiency and automation for microservices, but also support traditional applications
- Enable faster and more consistent deployments from development to production
- Enable application portability across 4 infrastructure footprints: physical, virtual, private & public cloud





# CONTAINERIZER BUSINESS MICROSERVICE

THE FUNCTIONAL LEGO BLOCKS

BUSINESS  
LOGIC  
STATE

IDENTITY



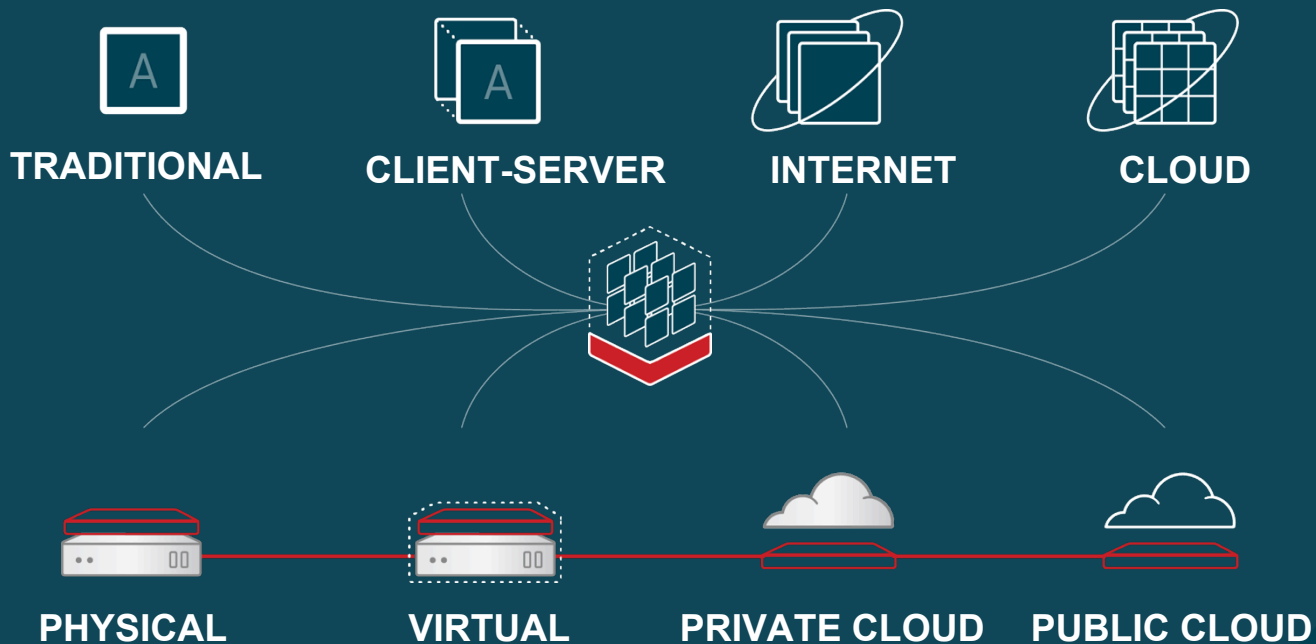
MANAGED API

COMMUNICATION

MIDDLEWARE

# WHERE TO DEPLOY? JUST EVERYWHERE

ALL KINDS OF APPS AND ENVIRONMENTS, INCLUDING CONTAINERS



# BALANCING INNOVATION AND OPTIMIZATION

YOUR PEERS SAY THESE ARE THEIR TOP PRIORITIES AND CHALLENGES



Optimize the IT  
you have



Integrate apps, data,  
and processes



Add and manage cloud  
infrastructure



Build more modern  
applications

# BALANCING INNOVATION AND OPTIMIZATION

HERE'S WHAT YOUR PEERS SAY ARE THEIR TOP PRIORITIES AND CHALLENGES



Optimize the IT  
you have



**GAIN  
EFFICIENCY**



Integrate apps, data,  
and processes



**IMPROVE  
PRODUCTIVITY**



Add and manage cloud  
infrastructure



**INCREASE  
AGILITY**



Build more modern  
applications

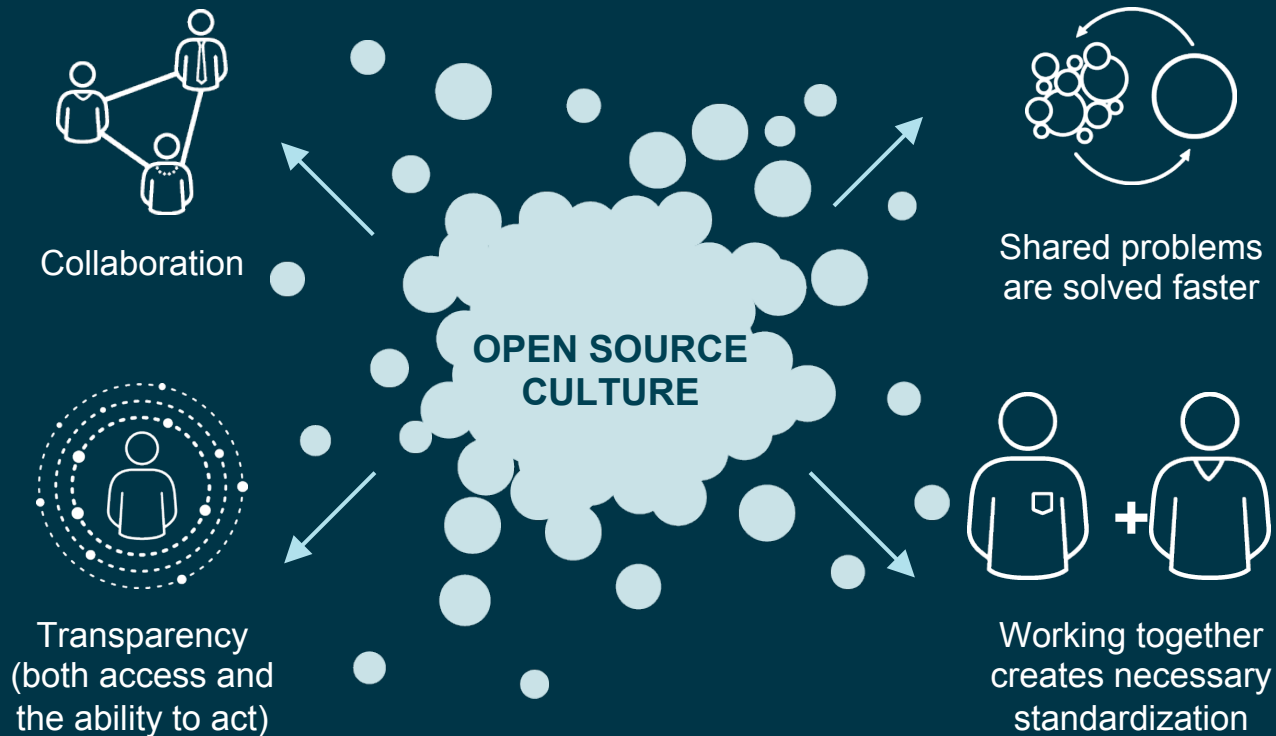


**MOVE  
FASTER**

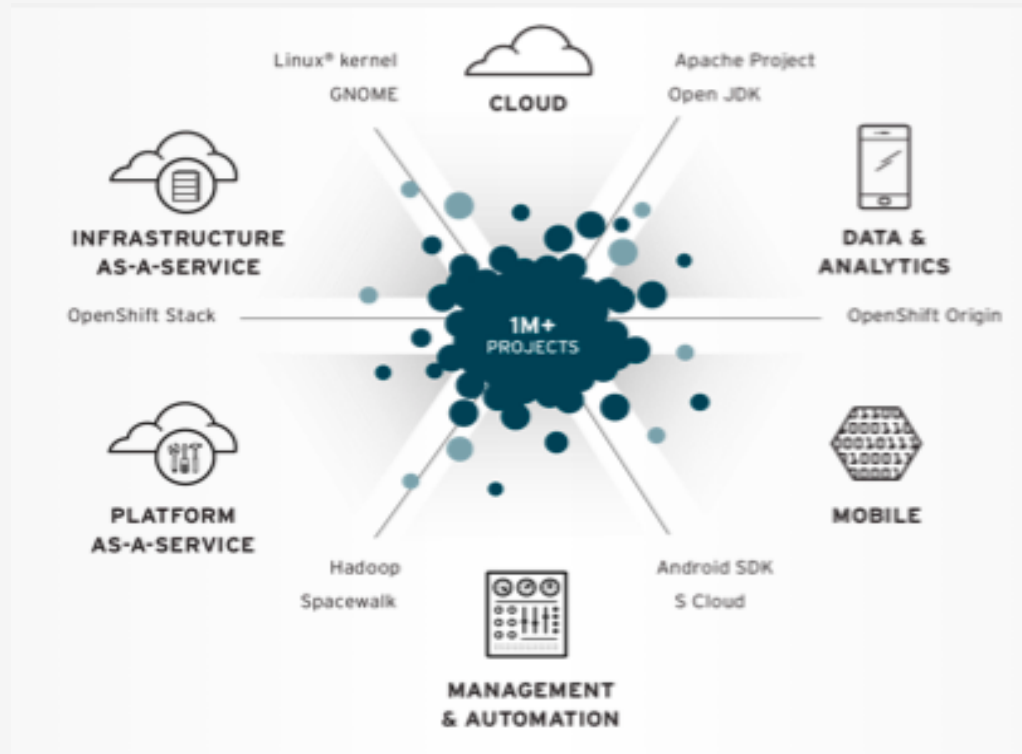
**WHY OPEN SOURCE?**

**WHAT IS THERE FOR ME?**

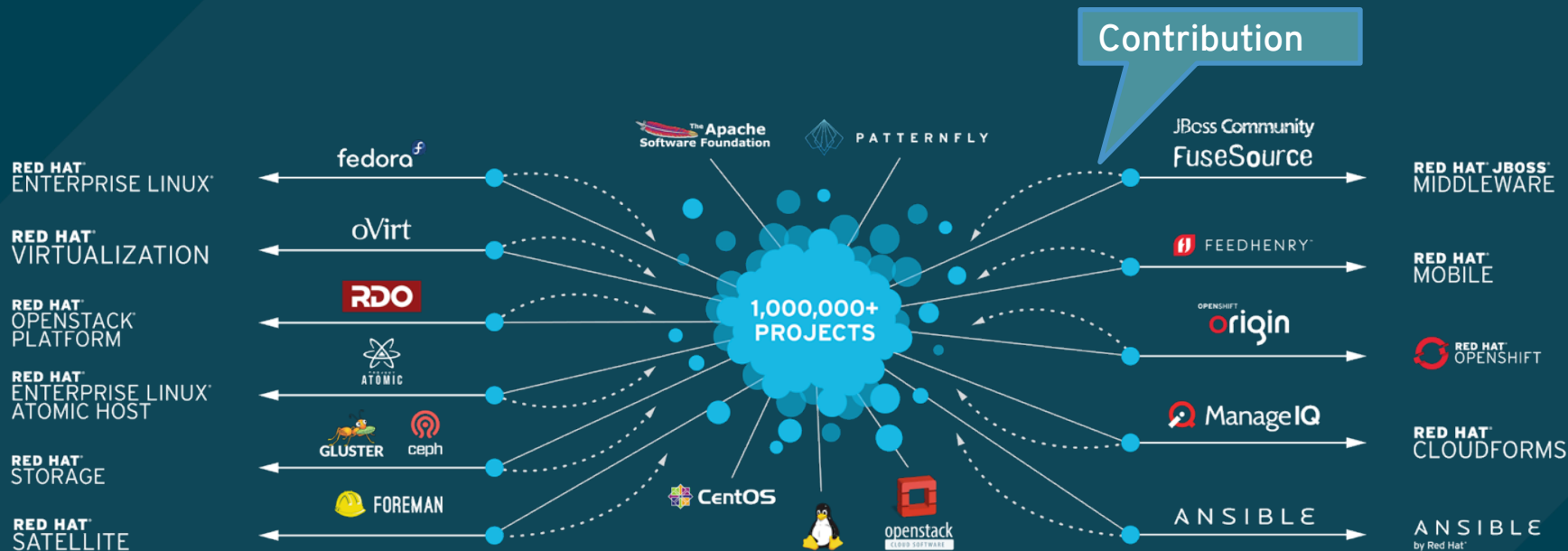
# IT'S NOT JUST CODE; IT'S CULTURE



# OPEN SOURCE FUELS RAPID INNOVATION



# FROM COMMUNITY TO ENTERPRISE



RH0064-3



# WHY NOT OPEN SOURCE BANKING?

Common Svc  
Architectural  
Frameworks



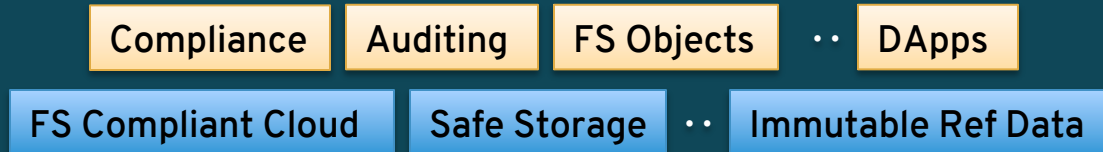
IP  
vs.  
OSS

# WHY NOT OPEN SOURCE BANKING?

Common Svc  
Architectural  
Frameworks



Mutualized Svc



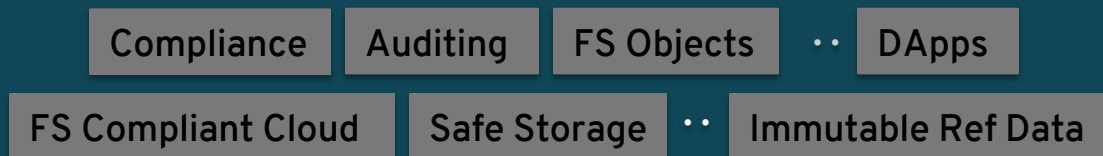
# WHY NOT OPEN SOURCE BANKING?

Common Svc  
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IP  
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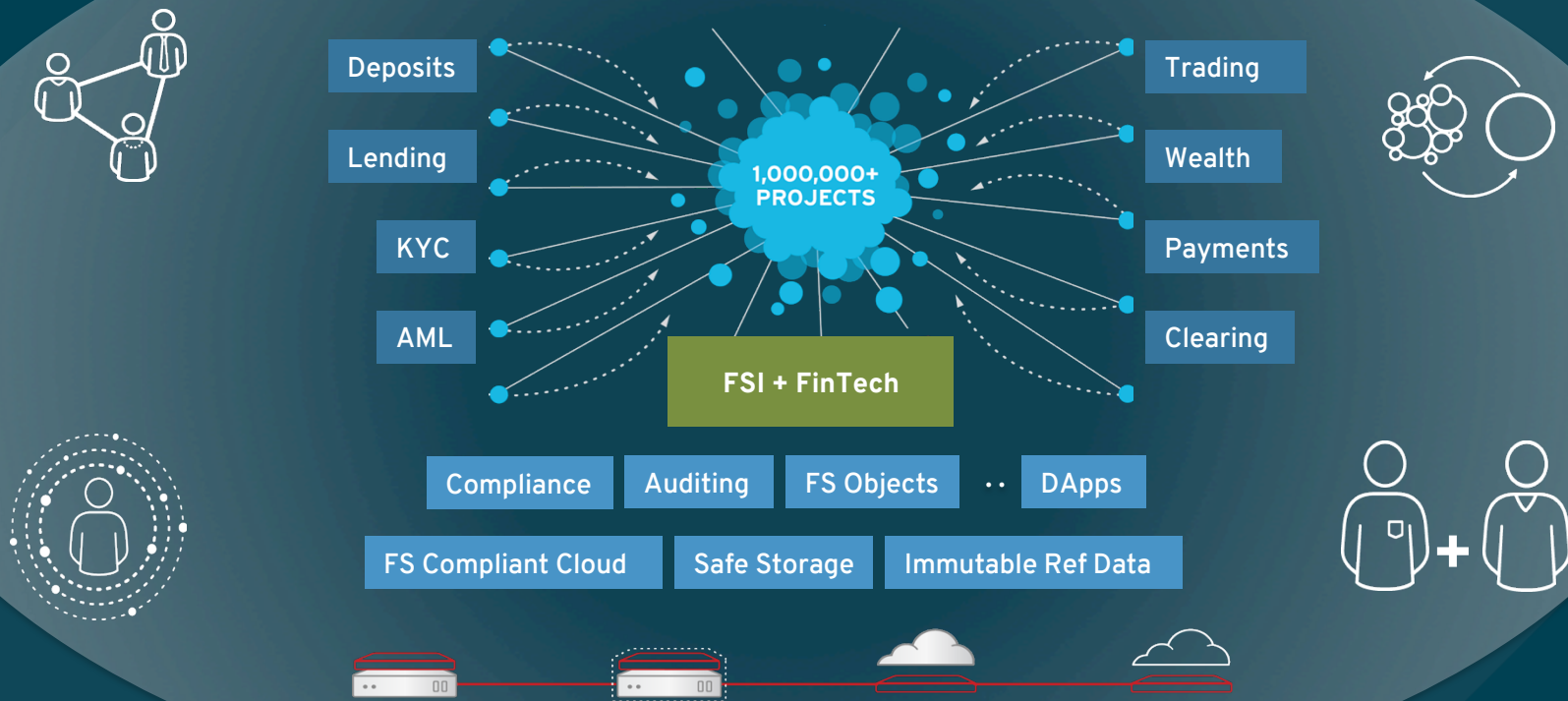
Mutualized Svc



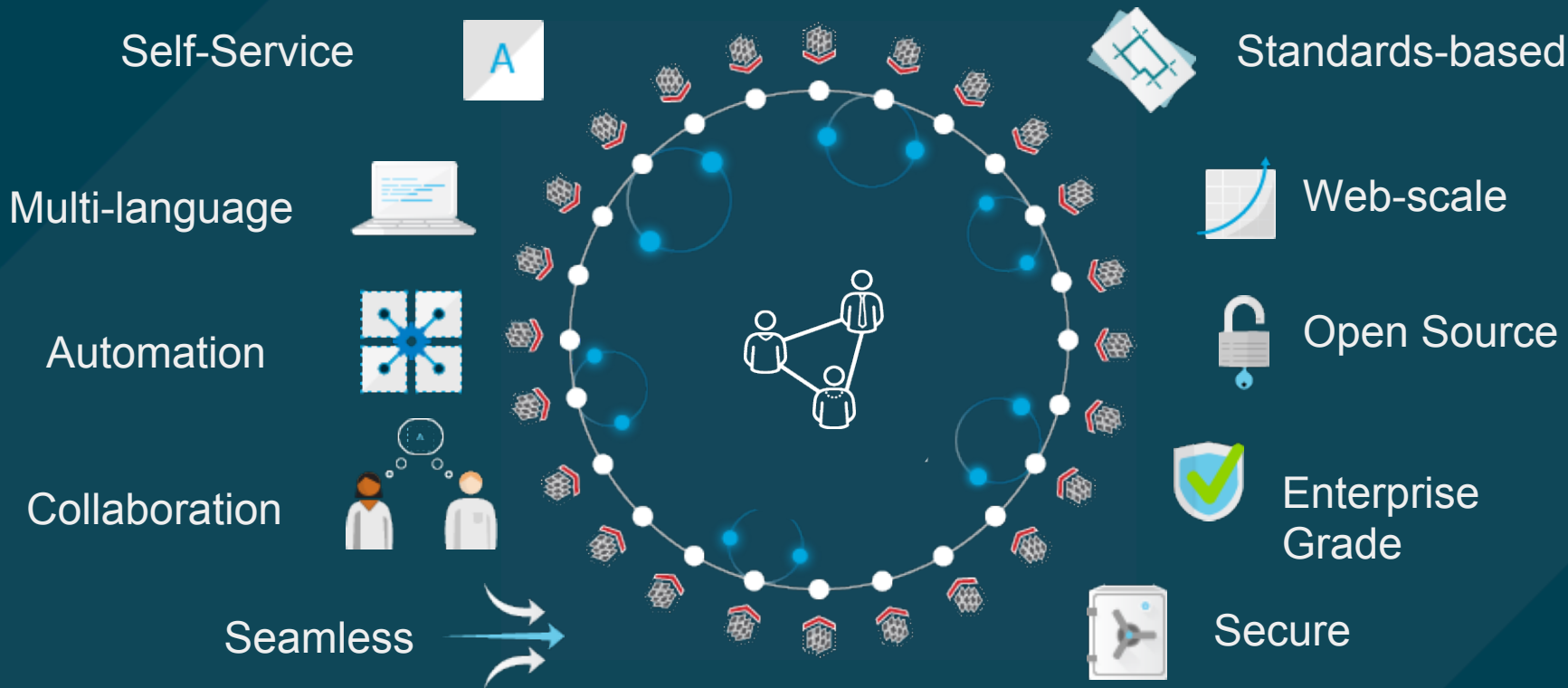
STD FSI  
Platforms



# OPEN SOURCE BANKING



# CRITICAL FEATURES FOR INNOVATIVE PLATFORM



# **MUST HAVE TO RUN THE WORLD WITH OPEN SOURCE**

# OPEN IS NICE, SECURITY IS MUST

## NEED TO BALANCE INNOVATION AND STABILITY



# OSS YES ...YET SAFE & STABLE







**WE BELIEVE THAT  
OPEN UNLOCKS THE WORLD POTENTIAL.**

**DO YOU?**



# THANK YOU



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## **Additional material**

# Red Hat security advisories and vulnerabilities for 2016

PRODUCT	CRITICAL ADVISORIES	IMPORTANT ADVISORIES	CRITICAL VULNERABILITIES	IMPORTANT VULNERABILITIES
All products	110	270	318	255
Red Hat Enterprise Linux 5,6,7	38	90	50	89
> Red Hat Enterprise Linux 6 (all)	30	43	50	66
> Red Hat Enterprise Linux 6 Server (Default)	7	17	9	22
> Red Hat Enterprise Linux Supplementary (5,6,7)	41	29	270	122
Red Hat JBoss® Middleware (all JBoss products)	21	34	2	15
Red Hat Storage (all storage products)	1	0	1	1
Red Hat OpenStack® Platform	0	31	0	9

37%

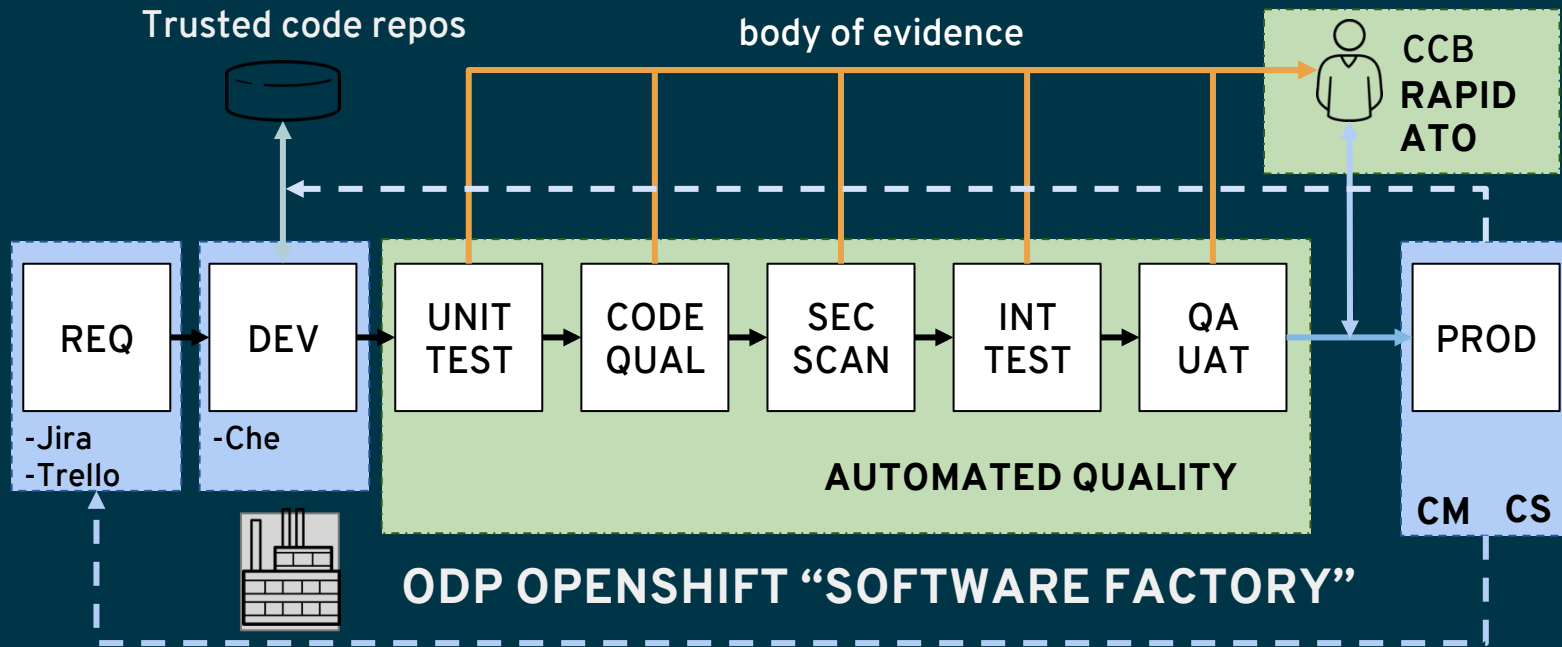
37% of all Critical advisories were for Red Hat Enterprise Linux supplementary channels (Java, Flash, and others)

100% of Red Hat Enterprise Linux Critical issues had updates the same or next day after public knowledge

100%

# SOFTWARE SUPPLY-CHAIN SECURITY

## From FinTech POVs to FSI Production



# CONTINUOUS INTEGRATION & DEPLOYMENT PIPELINE

