

# IoT: CONNECT YOUR ANALOG BUSINESS TO A DIGITAL WORLD

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# DIGITAL DISRUPTION



UBER



FACEBOOK



ALIBABA



AIRBNB

# THE DIGITAL FUTURE

## MOBILE



### HOW

you will deliver  
your digital  
business experience

## IoT



### WHAT

your analog business  
will do in  
the digital realm

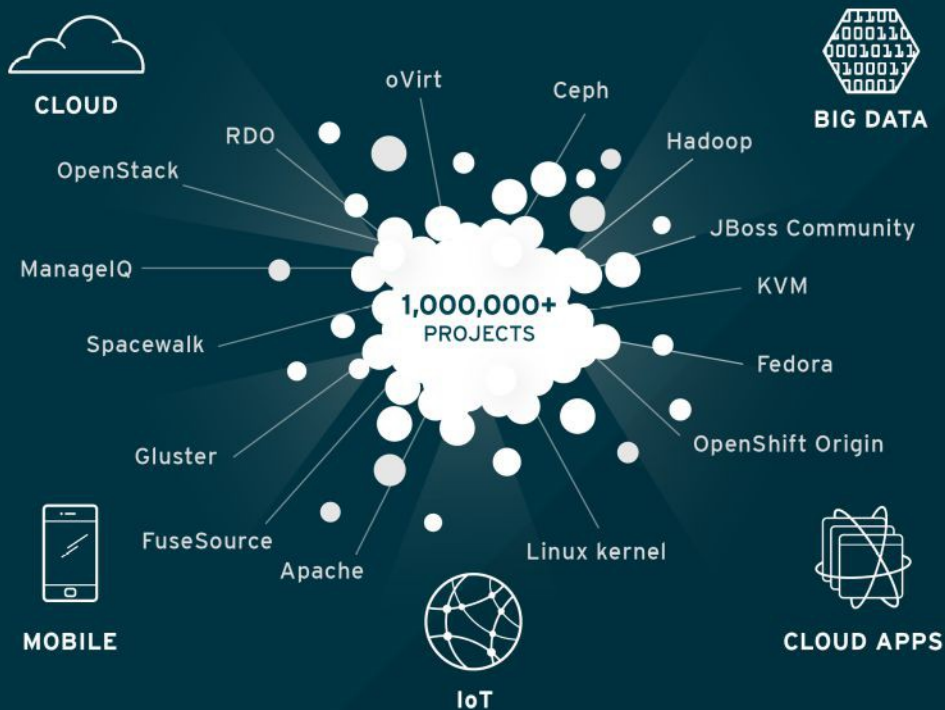
## CLOUD



### WHERE

your digital business  
will run

# OPEN SOURCE IS PROGRAMMING THE DIGITAL FUTURE



# THE DIGITAL FUTURE



**MOBILE**

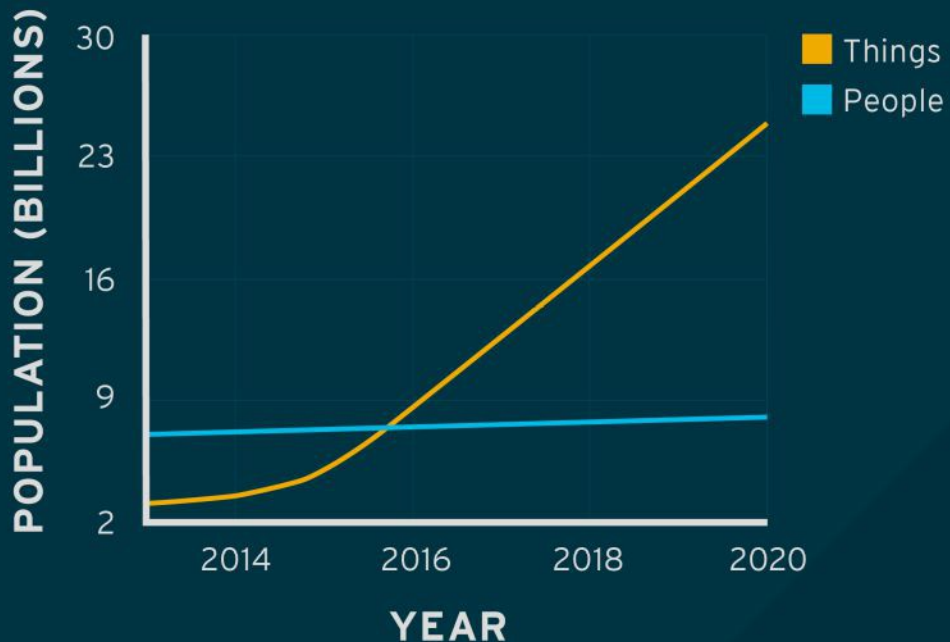


**IoT**



**CLOUD**

# TRANSFORMATION OF IoT



Source: [www.gartner.com/newsroom/id/2905717](http://www.gartner.com/newsroom/id/2905717)

"We estimate a potential economic impact—including consumer surplus—of as much as

**\$11.1 TRILLION  
PER YEAR IN 2025**

for IoT applications in nine settings."

**McKinsey&Company**

The Internet of Things:  
Mapping the Value  
Beyond the Hype June 2015

# THREE TRENDS THAT WILL SHAPE IoT

THE CONSUMERIZATION  
OF I.T.

**IoT**  
CONVERGENCE

THE DIGITIZATION  
OF O.T.



# THE CONSUMERIZATION OF I.T.

# DELIVERING THE DIGITAL EXPERIENCE

## COMPANIES USING MOBILITY TOOLS



### INCREASED

**63%**

Worker  
productivity

**19%**

Services  
revenue

**50%**

Customer  
satisfaction  
scores

**13%**

New  
sales  
revenue

### DECREASED

**63%**

Paperwork

**31%**

Travel time

# MOBILE IN THE ENTERPRISE



Expedite  
innovation  
to market



Accelerate  
application  
development



Increase  
Operational  
efficiency

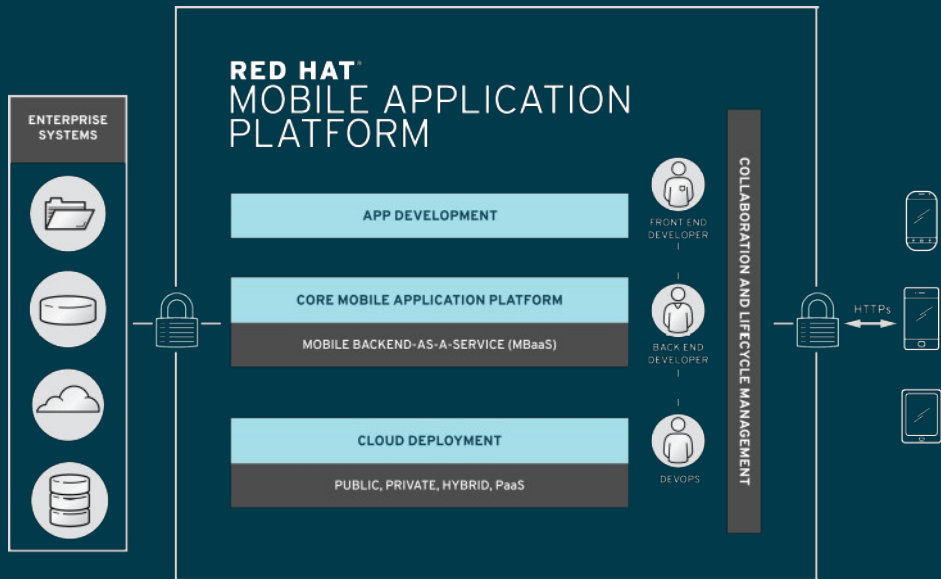


Enable  
DevOps



Drive user  
engagement

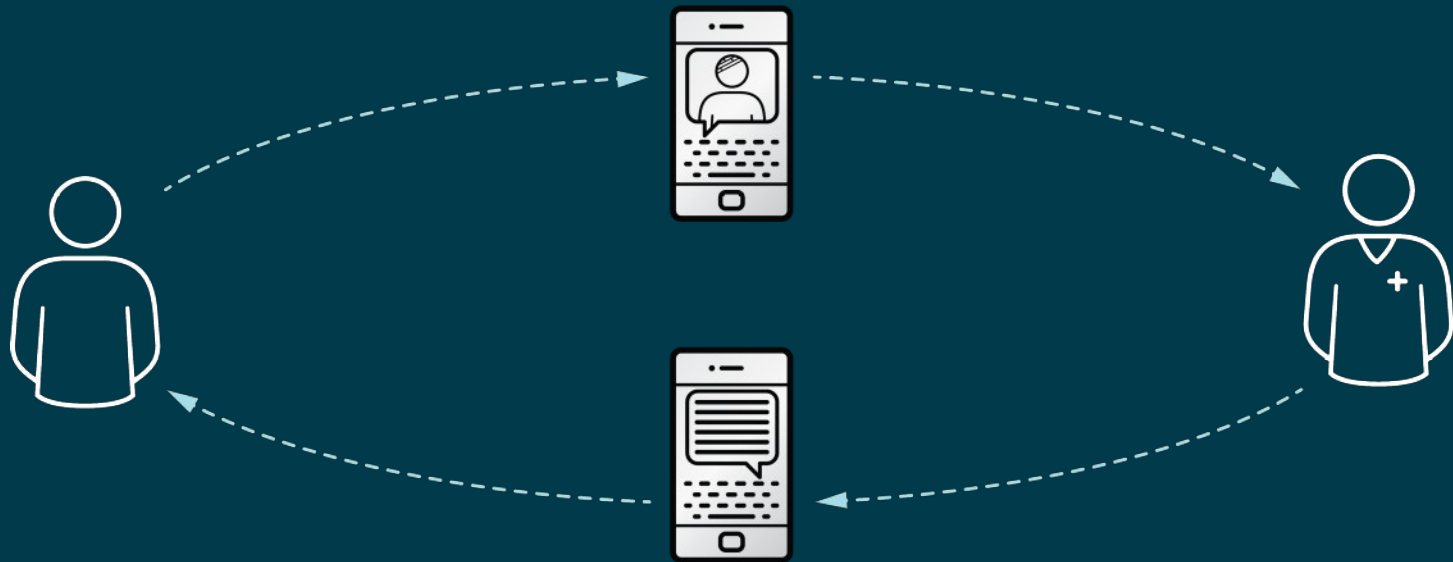
# RED HAT MOBILE APPLICATION PLATFORM



**SAMSUNG**  
BUSINESS

# DIGITIZING HEALTHCARE

Baystate  Health



# THE DIGITIZATION OF O.T.

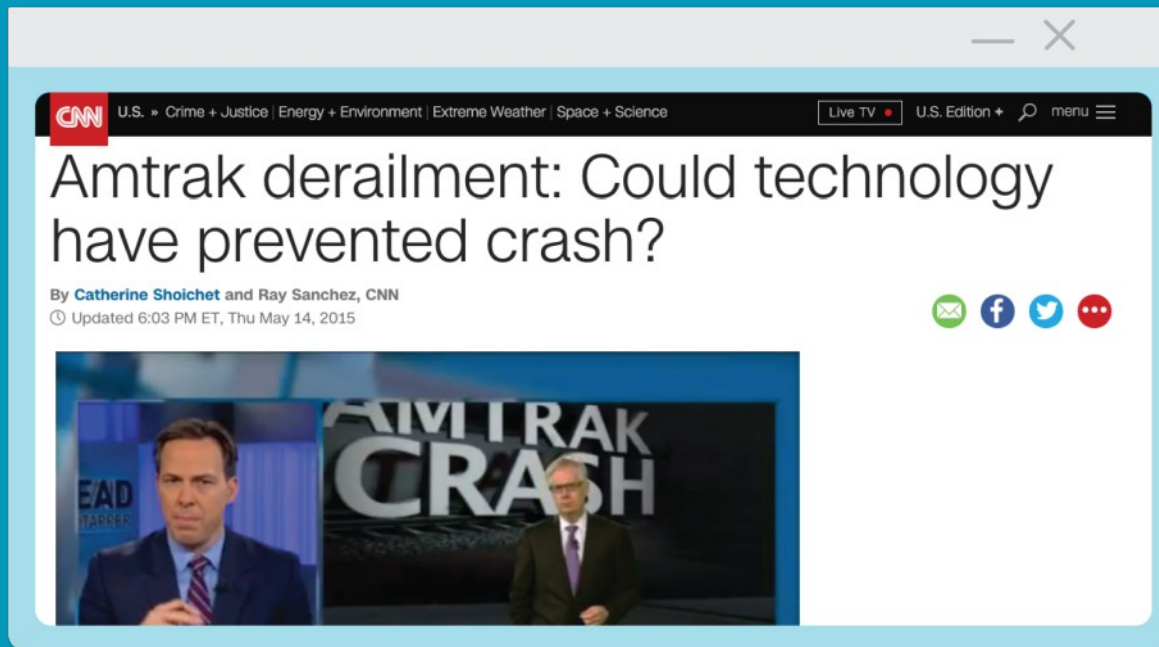
# TRADITIONAL INDUSTRIES ARE DIGITIZING O.T.



Meteorcomm turned to Red Hat to help build the interoperable communications infrastructure they need to meet safety requirements and a system that can meet a

**99.999% RELIABILITY SLA.**

# BUT THIS REQUIRES IMPLEMENTING AT DIGITAL SPEED



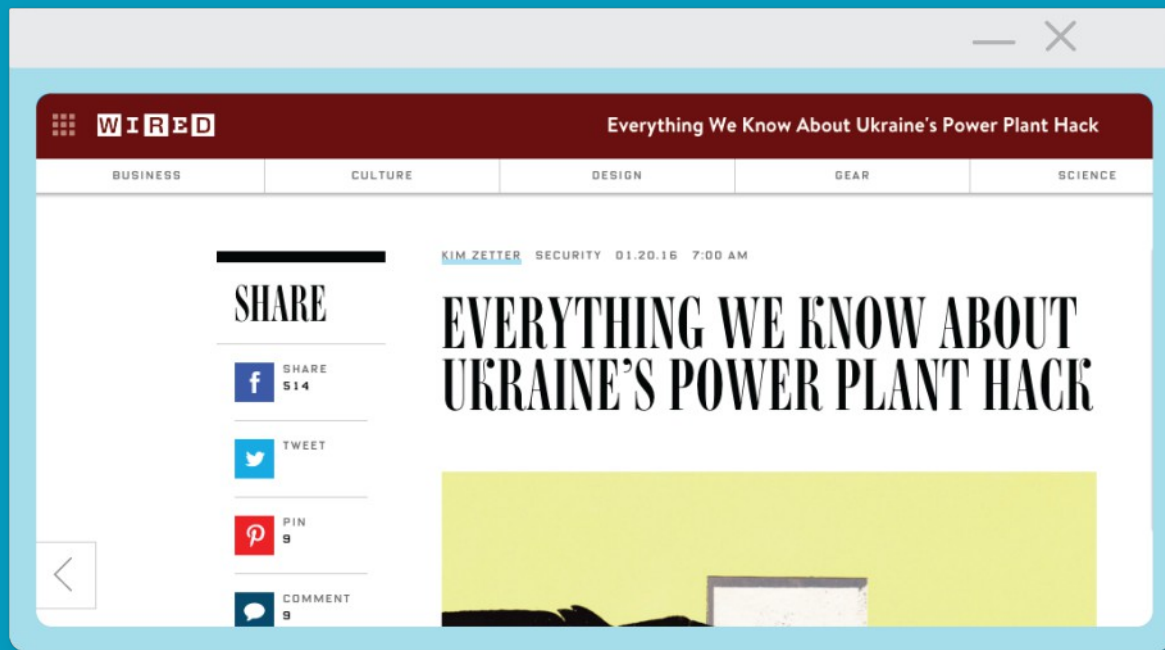
**TRADITIONAL  
INDUSTRIES  
ARE CONNECTING  
OPERATIONS**



**BUT THIS REQUIRES  
IMPLEMENTING AT  
A DIGITAL SPEED  
AND SCALE**



# AND WITH SECURITY



The background of the slide is a dark gray to black field filled with a complex, glowing white network of interconnected lines and nodes, resembling a data mesh or a neural network. In the top-left corner, there is a small, light gray geometric pattern of concentric squares. A horizontal gray band is positioned across the middle of the slide, containing the main title. The bottom-right corner features a diagonal gray band and the Red Hat logo.

# IOT CONVERGENCE

# LIFECYCLES WILL CONVERGE

CONSUMERIZATION  
OF I.T.

**1.5 YEARS**  
TO  
**1.5 WEEKS**

DIGITIZATION  
OF O.T.

**15 YEARS**  
TO  
**1.5 MONTHS**

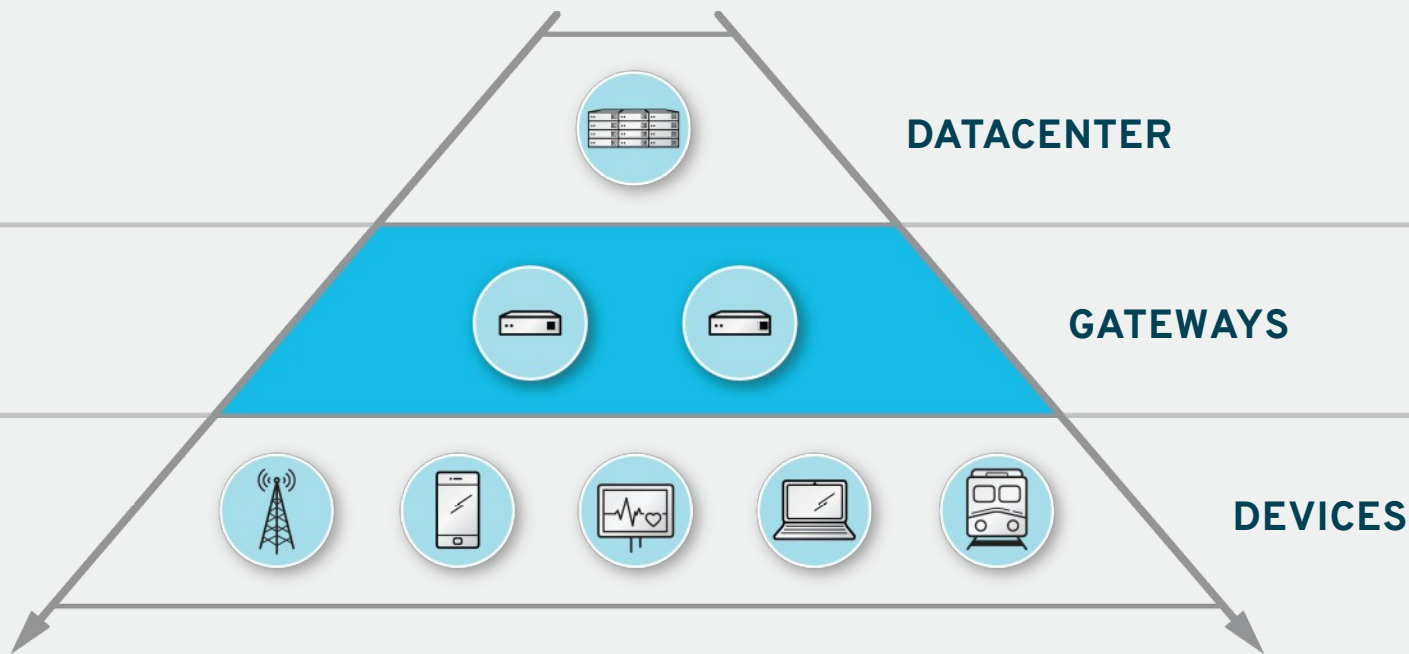


# TECHNOLOGY WILL CONVERGE



AWS Launch 2006	Eurotech ReliaGate	Huawei Mate8	Raspberry Pi 3 Model B
1.7 GHz Xeon 1 Core	1.91 GHz Atom 64 8 Cores	(4 x 2.3 GHz A72 + 4 x 1.8 GHz A53) 8 Cores + i5 co-processor	1.7 GHz Xeon 1 Core
1.75GB RAM	4GB RAM	4GB RAM	1GB RAM
160GB disk	8GB eMMC + microSD (500GB+)	64GB ROM + microSD (500GB+)	microSD (500GB+)
250Mb/sec	1000 Mb/sec	1300 Mb/sec	450 Mb/sec

# ARCHITECTURES WILL CONVERGE



# LINUX CONTAINERS GIVE CONSISTENT BUILDING BLOCKS



- Enables developing in cloud or on laptop and deploying on any tier.
- Develop once and share or reuse same app services across tiers.
- Red Hat OpenShift and dev tools increase productivity.

# SECURE AT THE CORE: CONTAINER SECURITY ACROSS IOT



Isolation of  
Hosts



Are Sources  
Trusted?

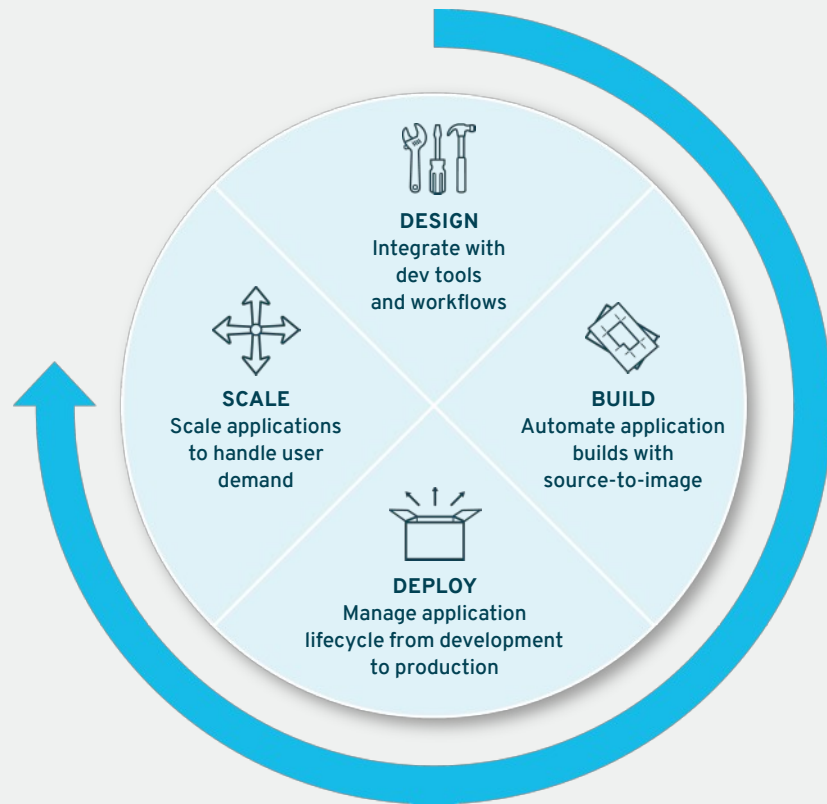


What's Inside  
Containers

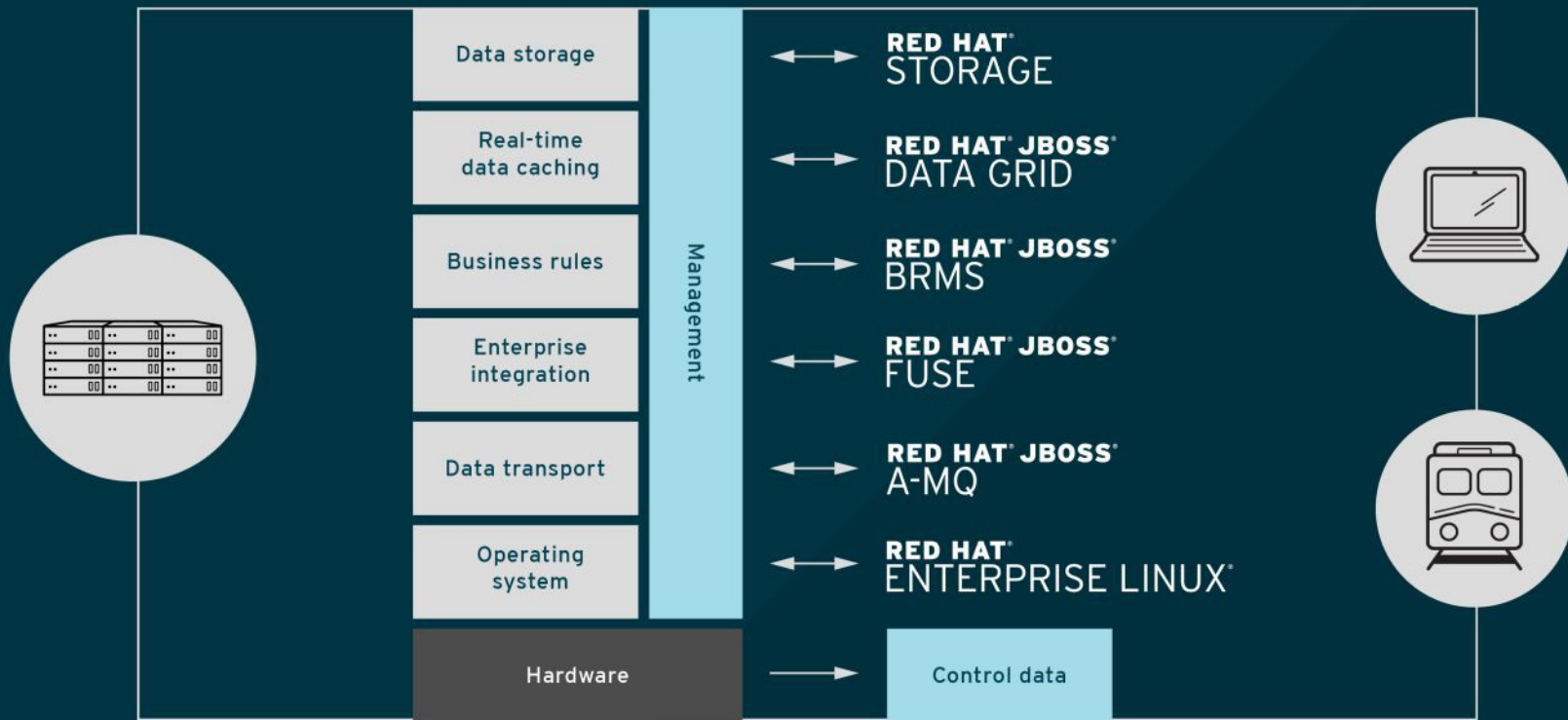


Trust is  
Temporal

# SECURE AND EFFICIENT AT SCALE: CONSISTENT OPERATIONS ACROSS IOT



# DRIVING GATEWAY FUNCTION TO THE EDGE



# RED HAT: CONVERGED IOT FROM THE DATACENTER TO DEVICES



**DATACENTER**

**GATEWAYS**

**DEVICES**

RED HAT  
ENTERPRISE LINUX  
OPENSTACK PLATFORM

OPENSHIFT  
by RED HAT

RED HAT  
SATELLITE

RED HAT  
STORAGE

RED HAT JBOSS  
MIDDLEWARE

RED HAT  
ENTERPRISE LINUX

RED HAT  
MOBILE



# RED HAT **SUMMIT**

LEARN. NETWORK.  
EXPERIENCE OPEN SOURCE.