

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



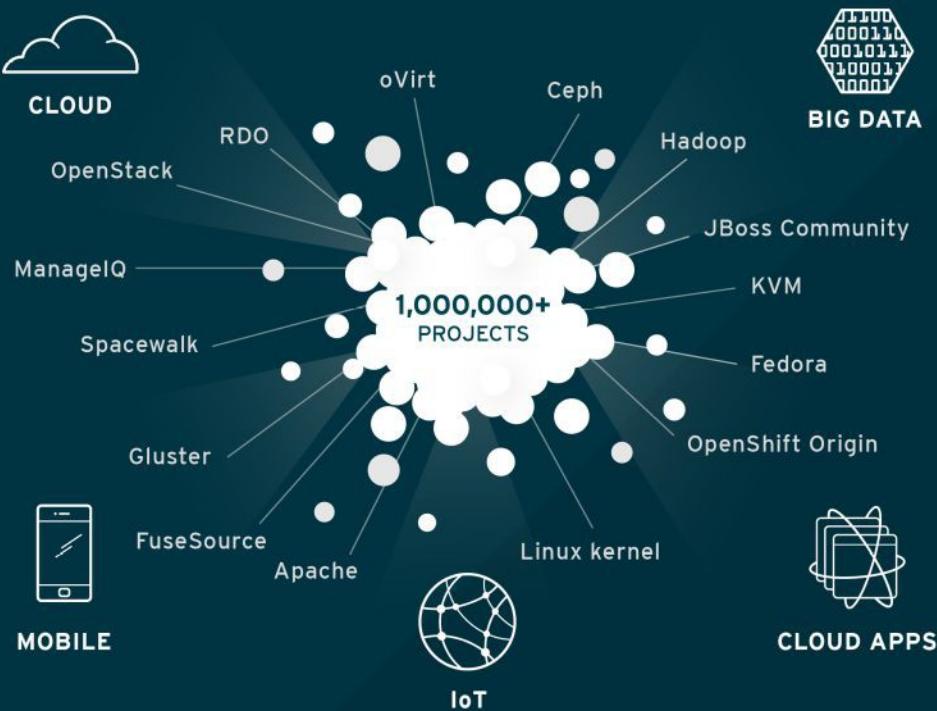
WHAT
your analog business
will do in
the digital realm

CLOUD



WHERE
your digital business
will run

OPEN SOURCE IS PROGRAMMING THE DIGITAL FUTURE



THE DIGITAL FUTURE



MOBILE

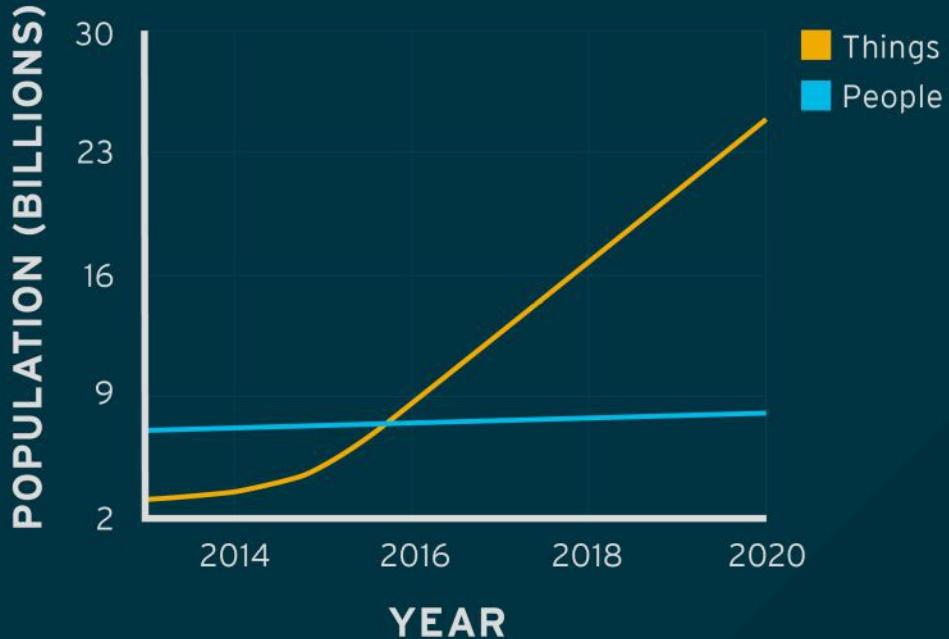


IoT



CLOUD

TRANSFORMATION OF IoT



Source: www.gartner.com/newsroom/id/2905717

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

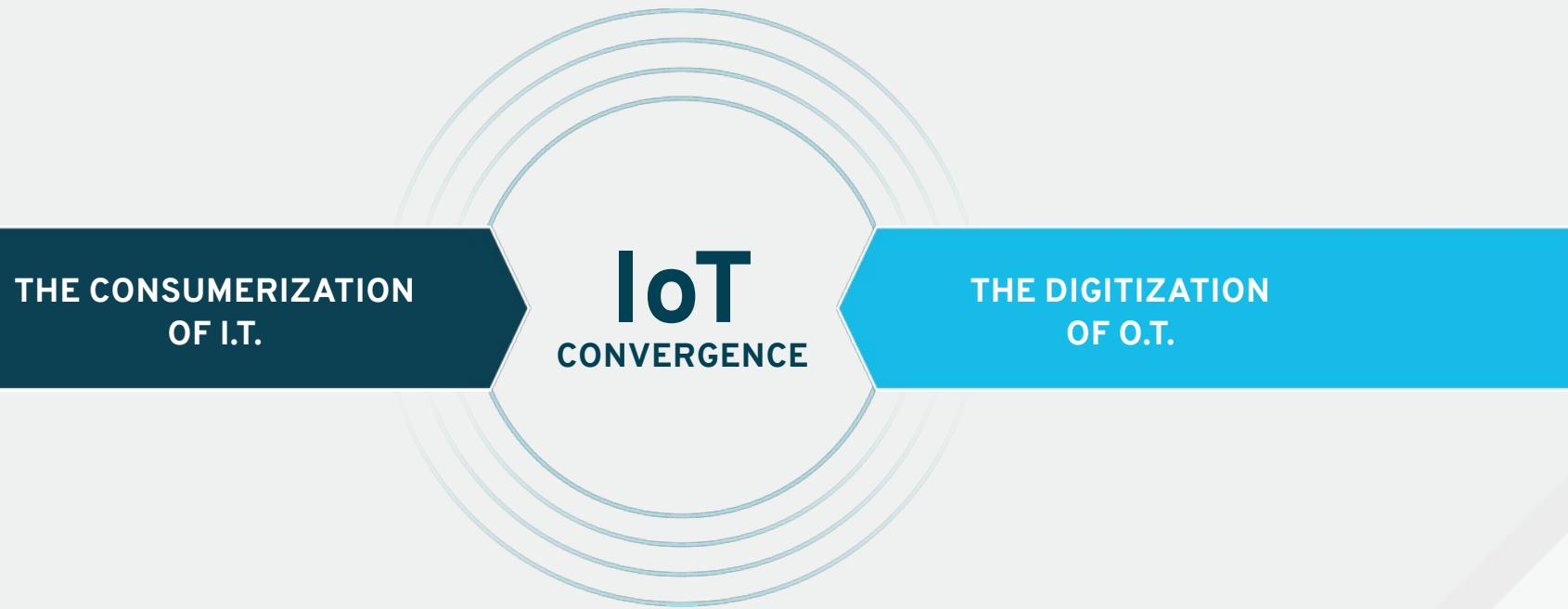
\$11.1 TRILLION PER YEAR IN 2025

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.

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

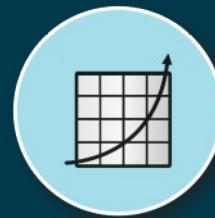
MOBILE IN THE ENTERPRISE



Expedite
innovation
to market



Accelerate
application
development



Increase
Operational
efficiency

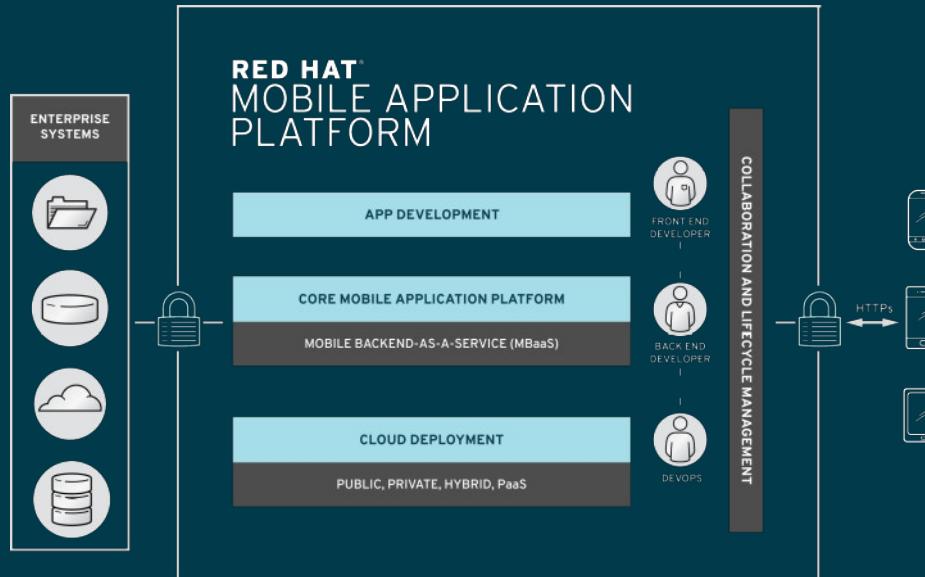


Enable
DevOps



Drive user
engagement

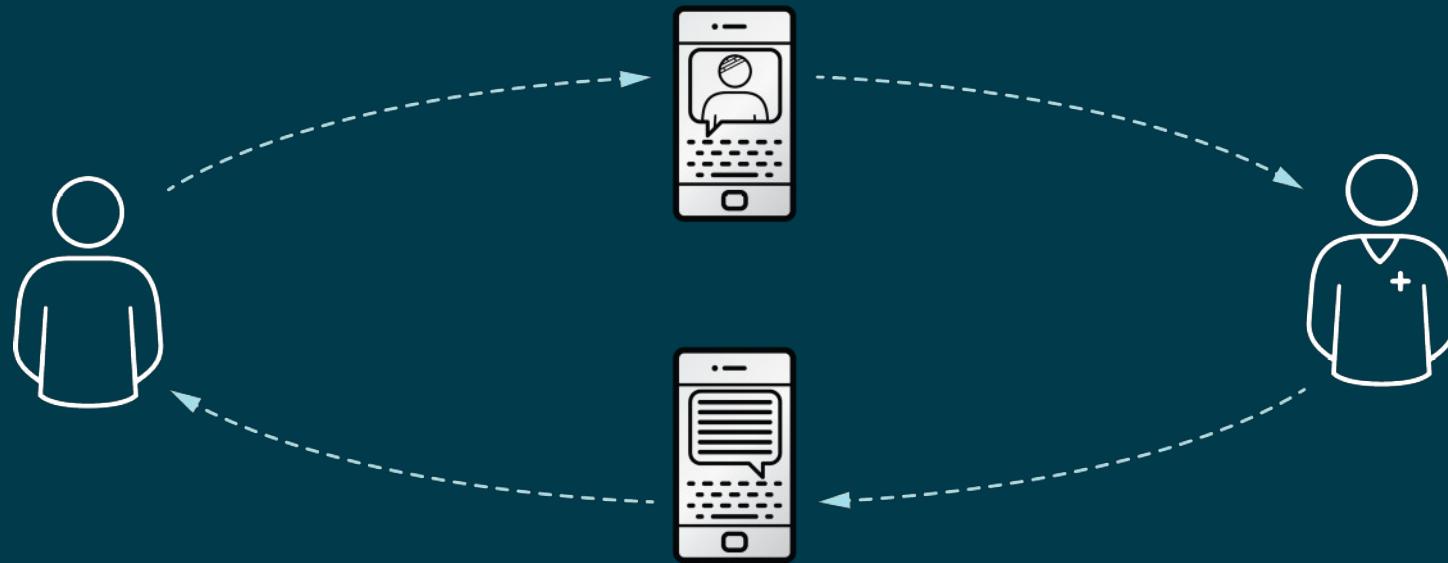
RED HAT MOBILE APPLICATION PLATFORM



SAMSUNG
BUSINESS

DIGITIZING HEALTHCARE

Baystate  Health



THE DIGITIZATION OF O.T.

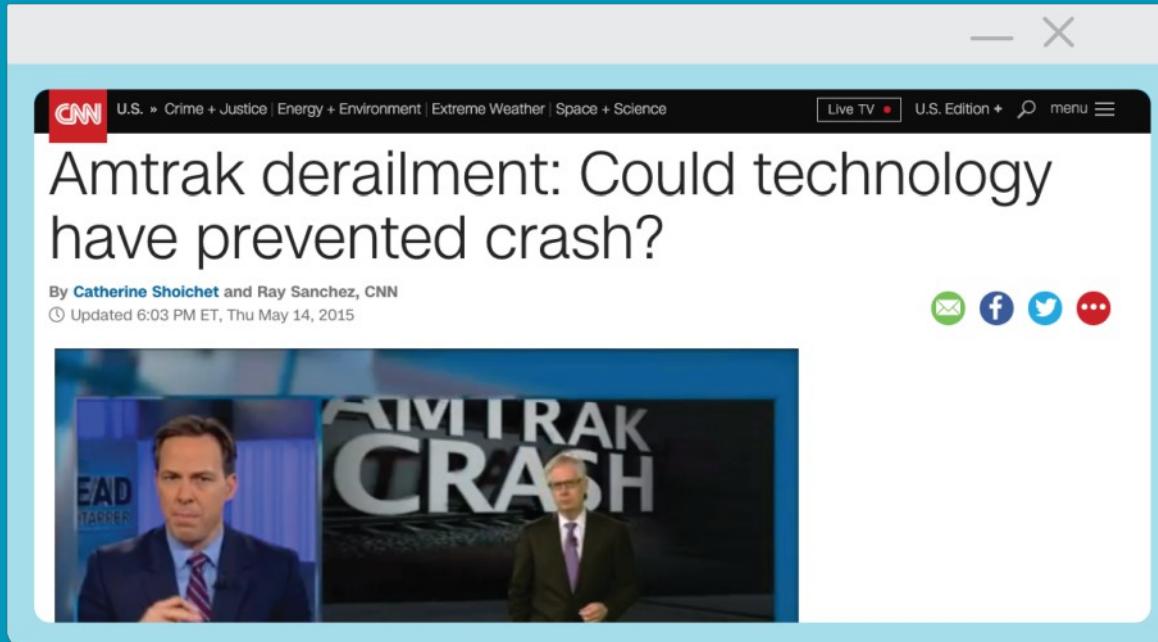
TRADITIONAL INDUSTRIES ARE DIGITIZING O.T.



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



The image is a screenshot of a CNN news article. The header bar includes the CNN logo, a navigation menu with 'U.S.', 'Crime + Justice', 'Energy + Environment', 'Extreme Weather', 'Space + Science', 'Live TV', 'U.S. Edition', and a search icon. The main title of the article is 'Amtrak derailment: Could technology have prevented crash?' by Catherine Shoichet and Ray Sanchez, CNN. The article was updated at 6:03 PM ET on Thursday, May 14, 2015. Below the title is a thumbnail image showing two men in suits, likely the anchors, with the words 'HEADLINES' and 'AMTRAK CRASH' visible in the background. To the right of the thumbnail are social media sharing icons for email, Facebook, Twitter, and a red 'more' button.

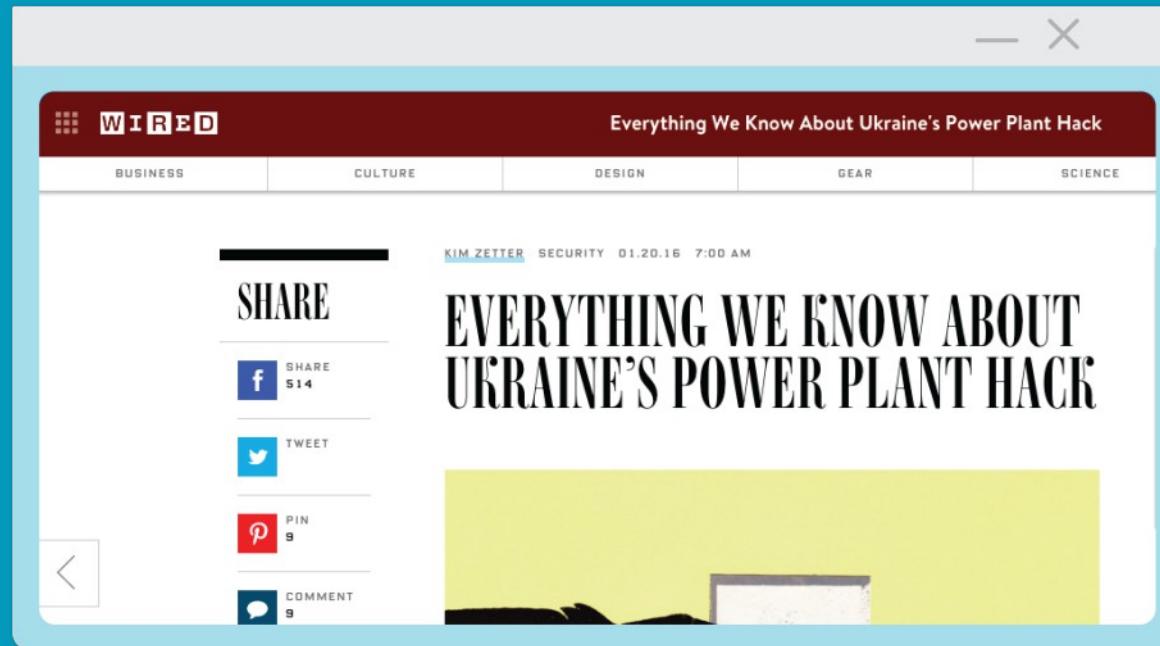
TRADITIONAL INDUSTRIES ARE CONNECTING OPERATIONS



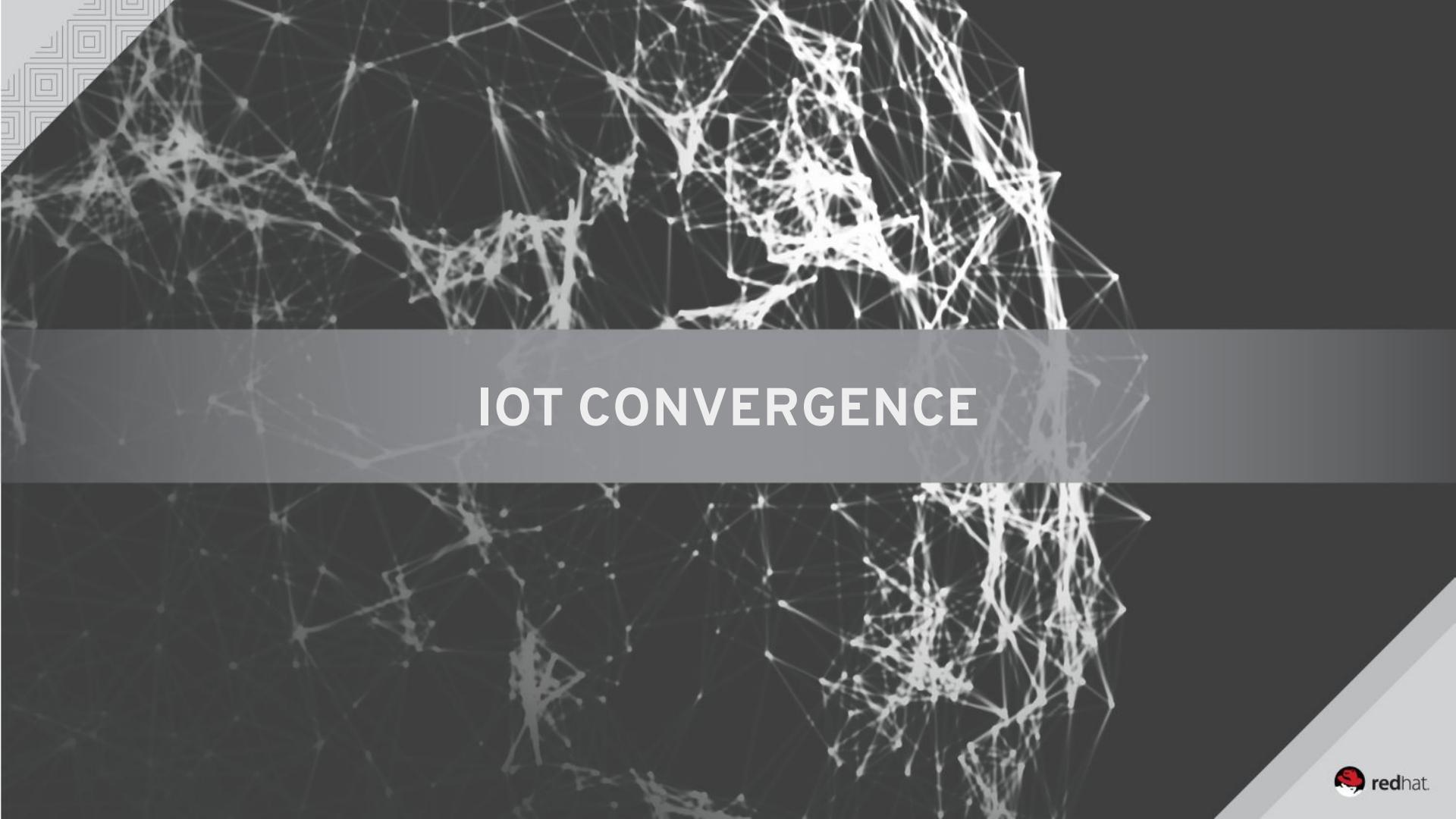
**BUT THIS REQUIRES
IMPLEMENTING AT
A DIGITAL SPEED
AND SCALE**



AND WITH SECURITY



The image is a screenshot of a WIRED magazine article. The header bar is dark red with the 'WIRED' logo on the left and the title 'Everything We Know About Ukraine's Power Plant Hack' on the right. Below the header is a navigation bar with categories: BUSINESS, CULTURE, DESIGN, GEAR, and SCIENCE. The main content area features a large, bold title 'EVERYTHING WE KNOW ABOUT UKRAINE'S POWER PLANT HACK' in black capital letters. To the left of the title is a 'SHARE' section with social media icons for Facebook (514 shares), Twitter (TWEET), Pinterest (PIN 9), and a comment section (COMMENT 9). The author's name, KIM ZETTER, and the publication date, 01.20.16 7:00 AM, are listed above the title. The background of the article page is white, and there is a small, dark, abstract graphic at the bottom.

The background of the slide features a complex, abstract network structure composed of numerous white lines and dots, representing a mesh of connections. This pattern is repeated in the lower half of the slide, creating a sense of depth and connectivity.

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

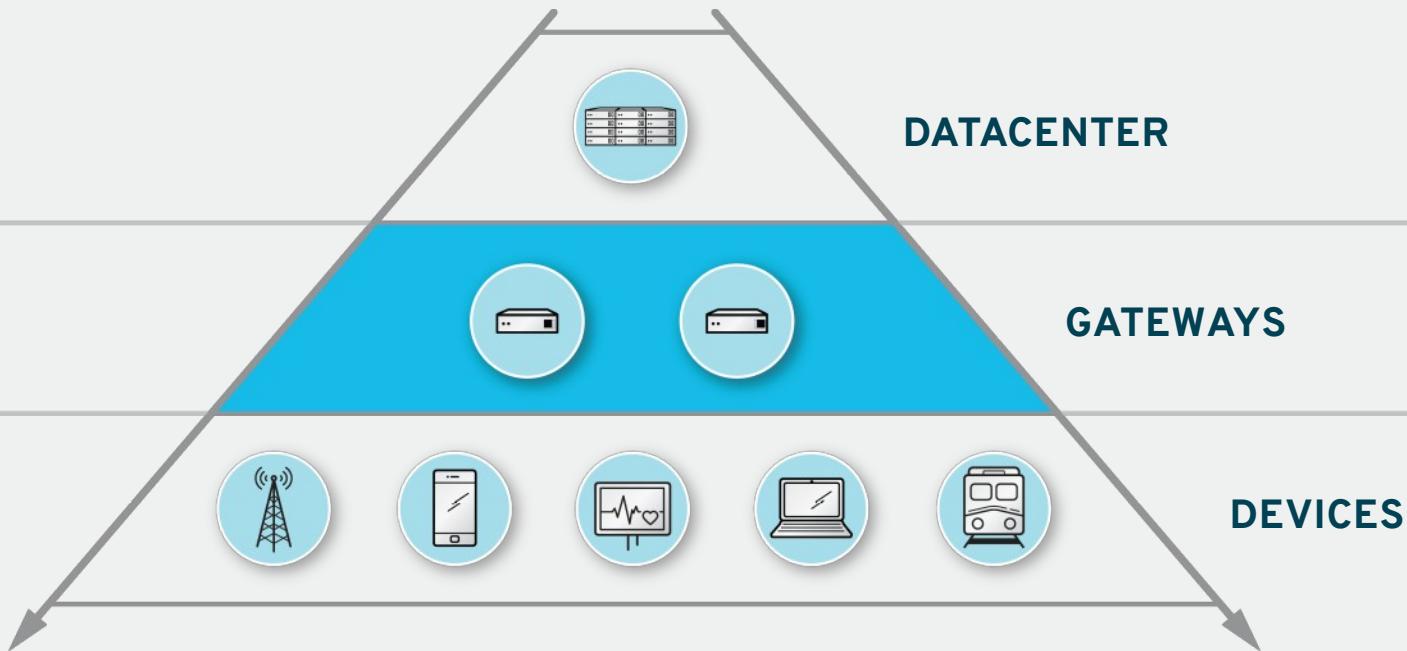


TECHNOLOGY WILL CONVERGE



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?

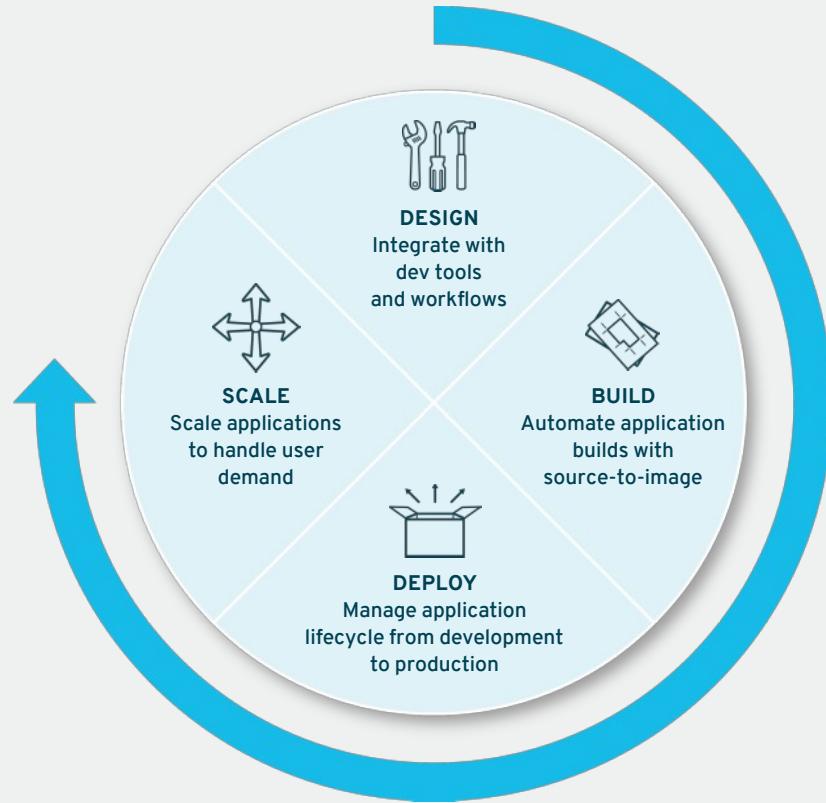


What's Inside
Containers

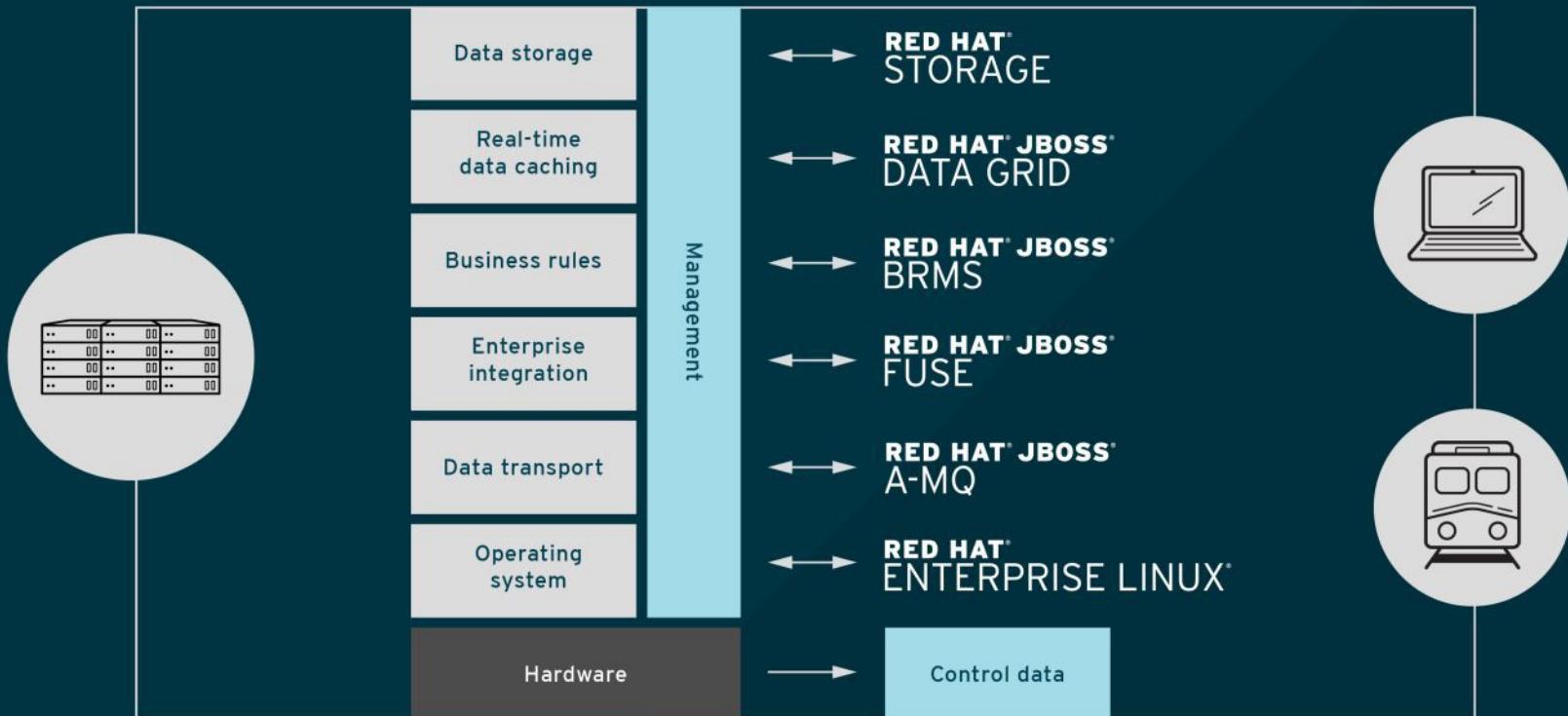


Trust is
Temporal

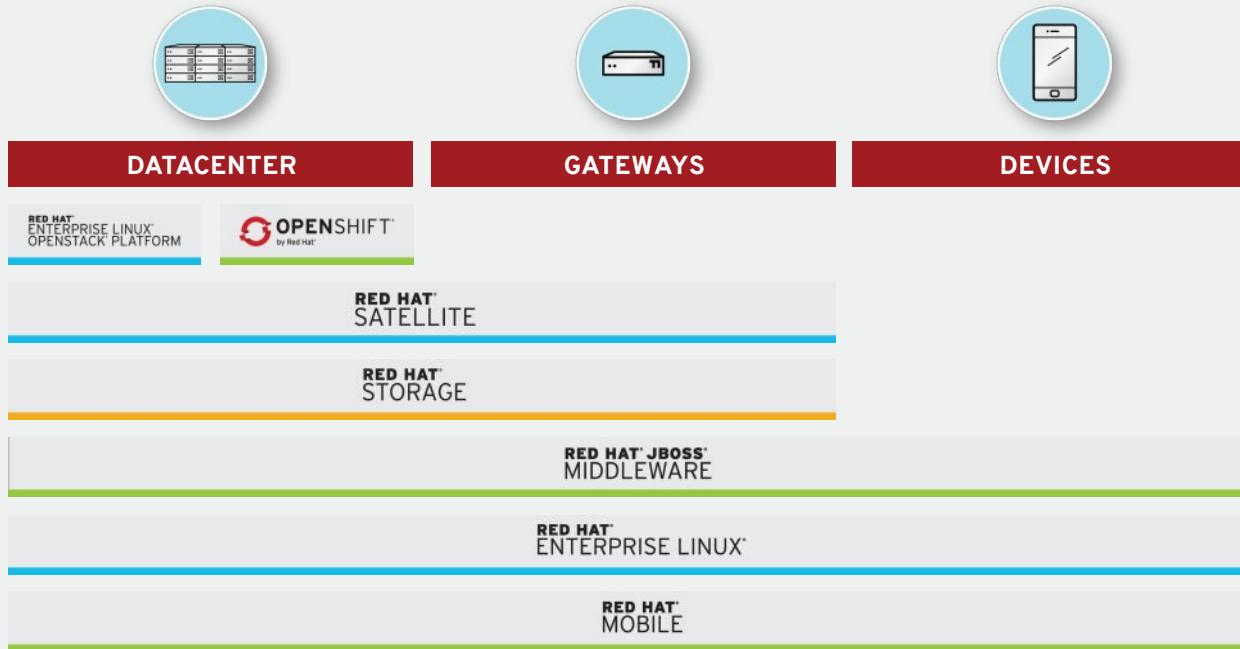
SECURE AND EFFICIENT AT SCALE: CONSISTENT OPERATIONS ACROSS IOT



DRIVING GATEWAY FUNCTION TO THE EDGE



RED HAT: CONVERGED IOT FROM THE DATACENTER TO DEVICES





RED HAT
SUMMIT

LEARN. NETWORK.
EXPERIENCE OPEN SOURCE.