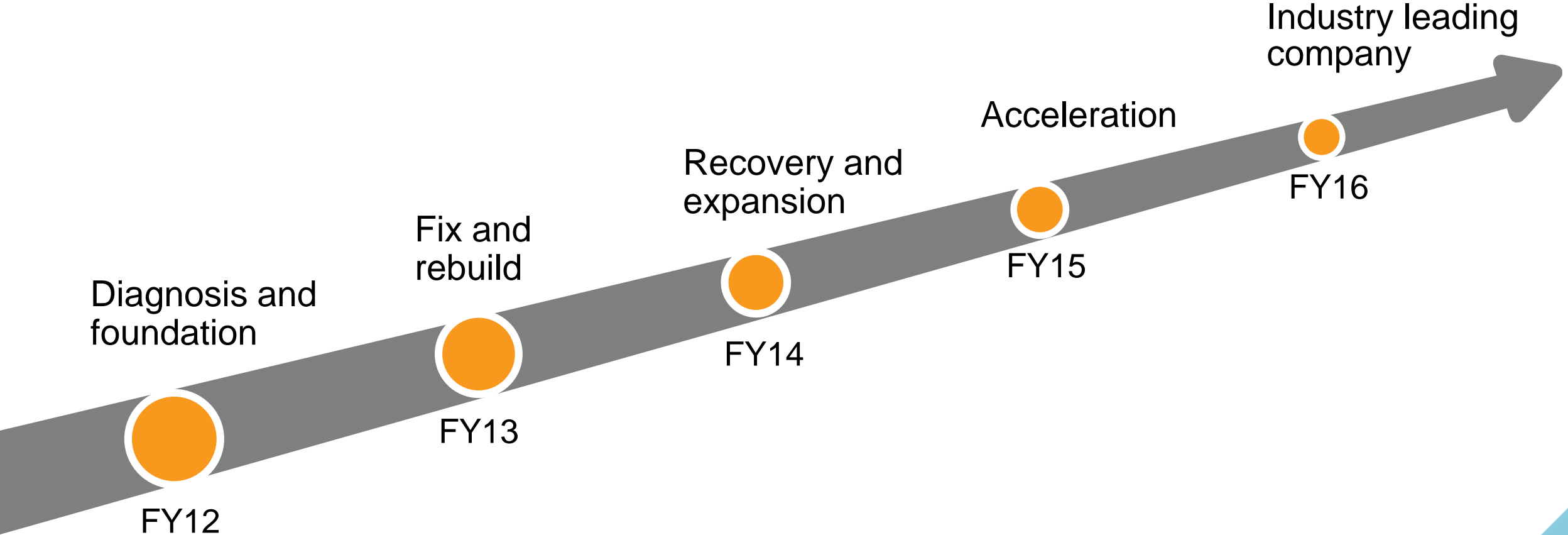vmware

REALLY
FOR
ANY
vForum2015

9 December 2015 | Taipei, Taiwan

HPE / VMware 帶您進入下一代的融合式資料中心

郭裕昇
HPE 伺服器事業處 產品協理

In FY12, HP launched its five year transformation journey

Industry leading company

Acceleration

Recovery and expansion

Fix and rebuild

Diagnosis and foundation

FY12

FY13

FY14

FY15

FY16

vmware®   Hewlett Packard Enterprise

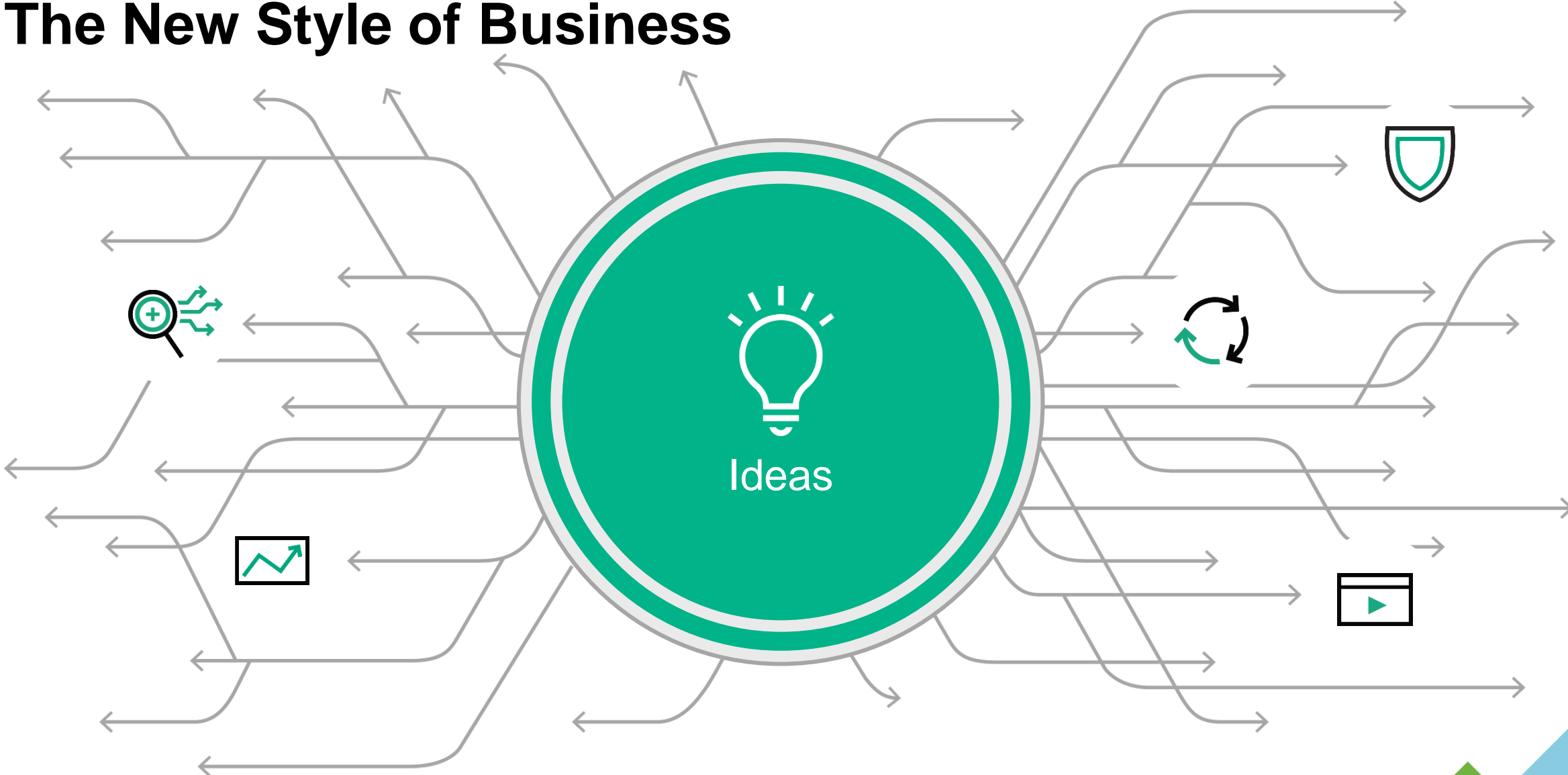# The separation will enable both Hewlett Packard Enterprise and HP Inc

🌐 More innovation in go-to-market, business models, products and solutions

🔄 Increased executive and customer engagement

✔ Tighter set of metrics to drive the business

📈 Strategically defined and focused

💲 Increased focus on growing revenue

👥 Performance management

👤 More competitive cost structure

vmware®   **Hewlett Packard**
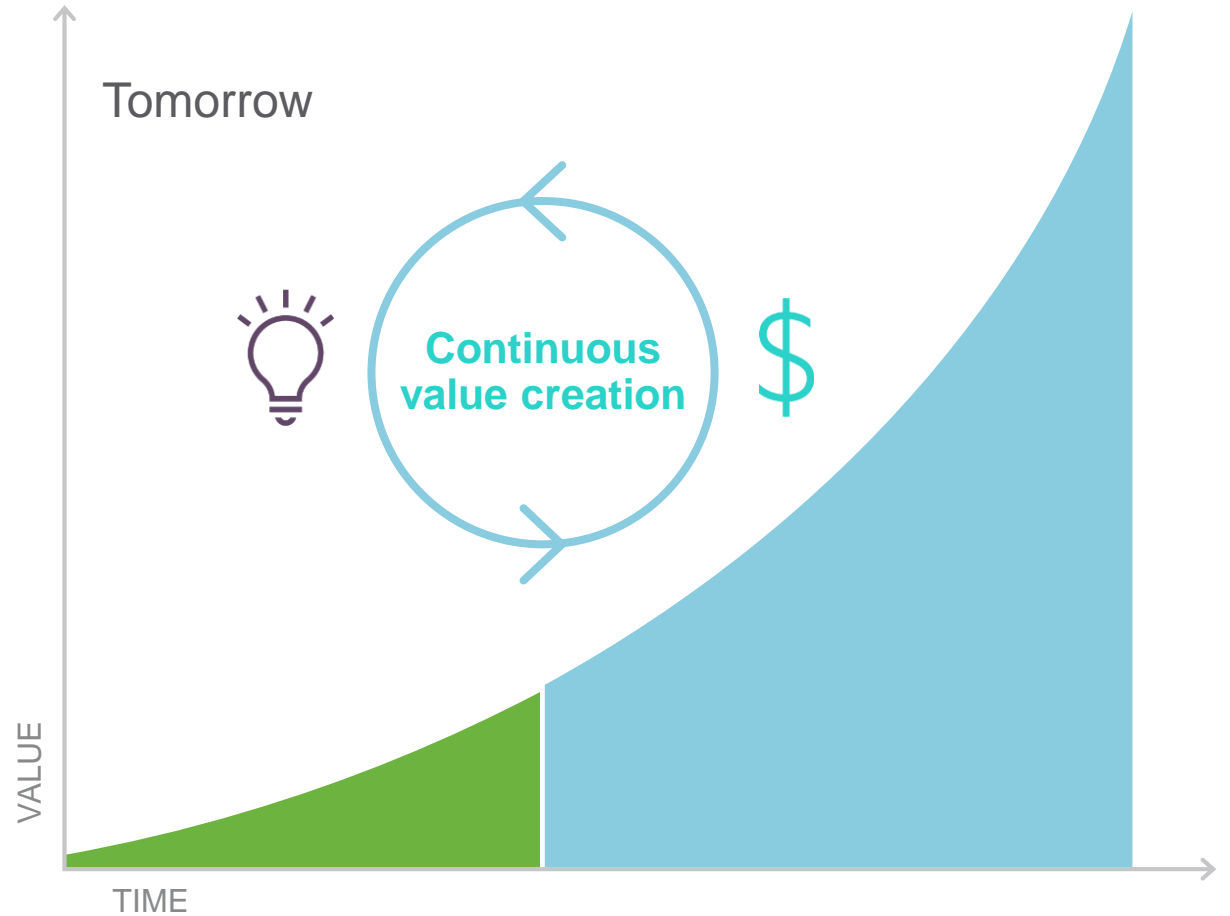Enterprise

New Style of Business

vmware® | **Hewlett Packard**
Enterprise

The New Style of Business

Ideas

Time to value is priority #1

Today

Idea

$

Value

VALUE

TIME

Tomorrow

Continuous value creation

$

VALUE

TIME

vmware® **Hewlett Packard** Enterprise
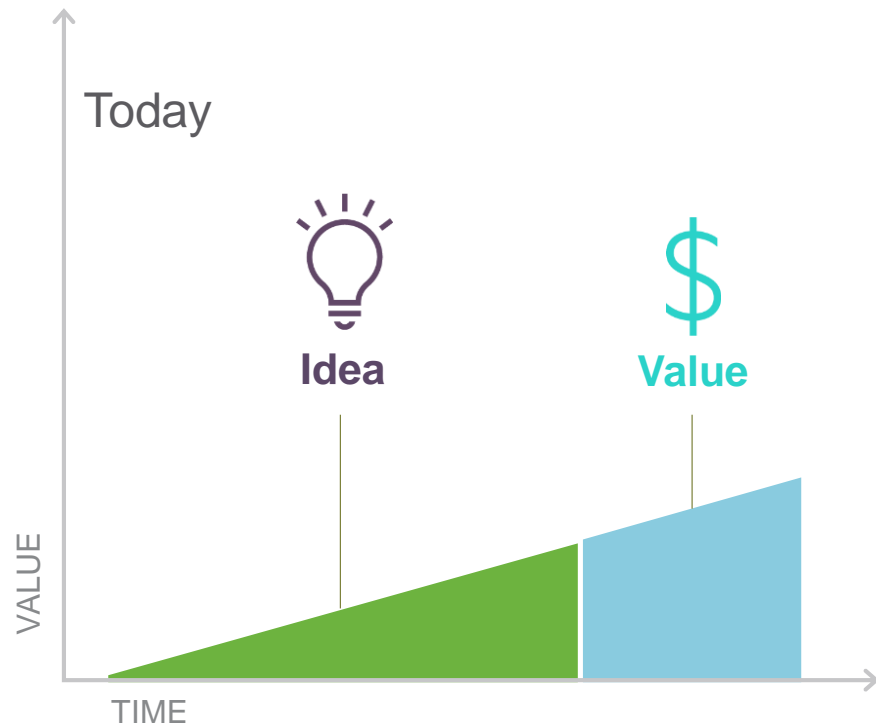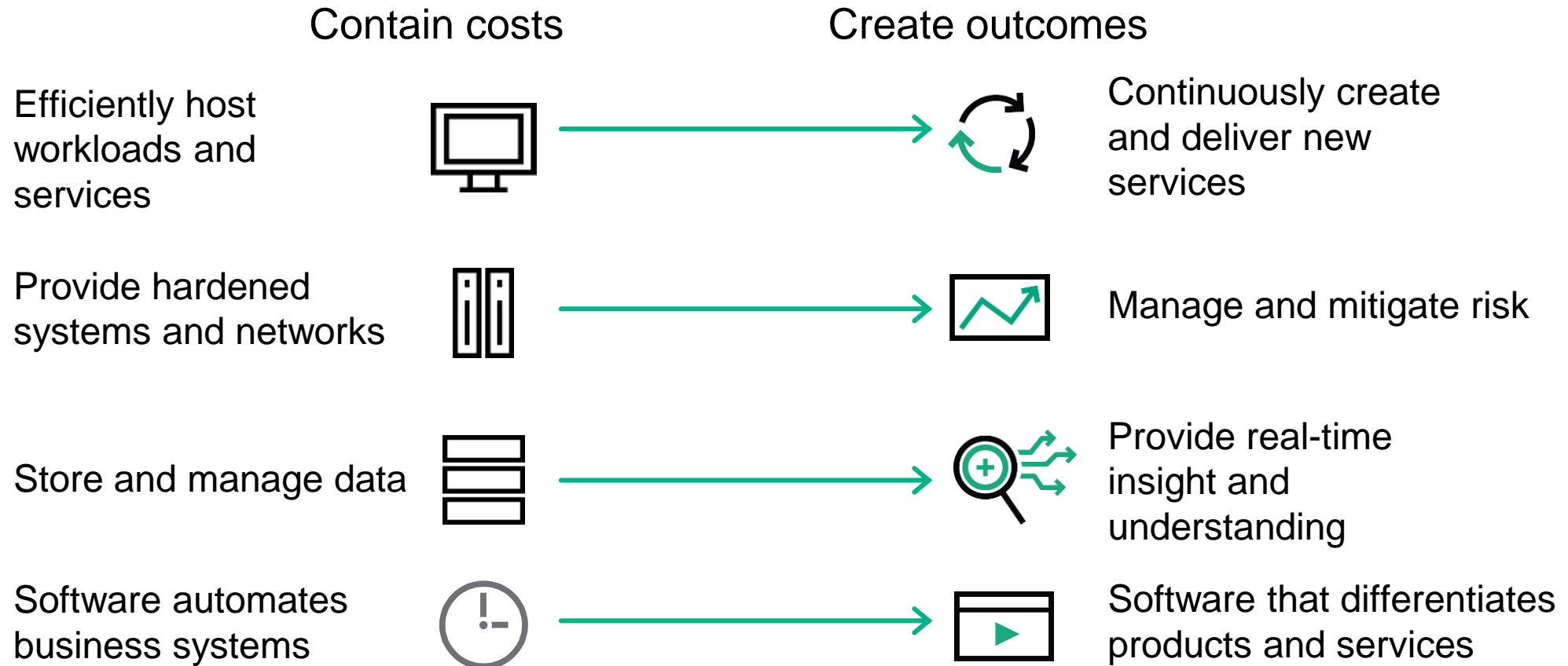
To respond, IT must become a value creator and bridge traditional and new

Journey to the New Style of Business

Contain costs   Create outcomes

Efficiently host workloads and services → Continuously create and deliver new services

Provide hardened systems and networks → Manage and mitigate risk

Store and manage data → Provide real-time insight and understanding

Software automates business systems → Software that differentiates products and services

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Enterprise

Transform
to a hybrid
infrastructure

Protect
your digital
enterprise

Enable
workplace
productivity

Empower
the data-driven
organization

Hewlett Packard
Enterprise

How to accelerate your journey with HPE

Converge & Virtualize

Integrated Systems

Modernize and Virtualize your legacy Apps with
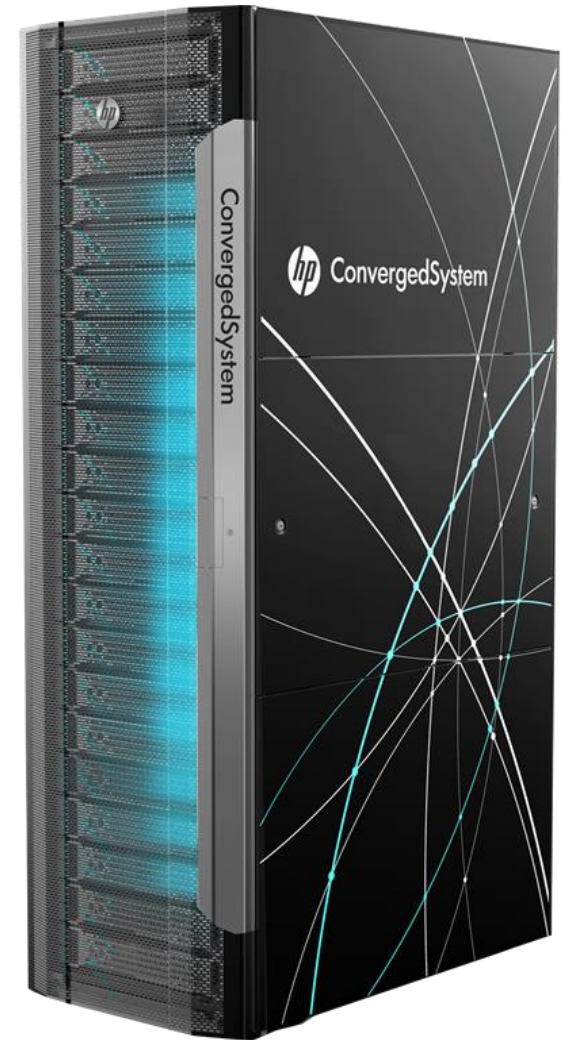
HPE Servers, featuring HPE ProLiant Gen 9

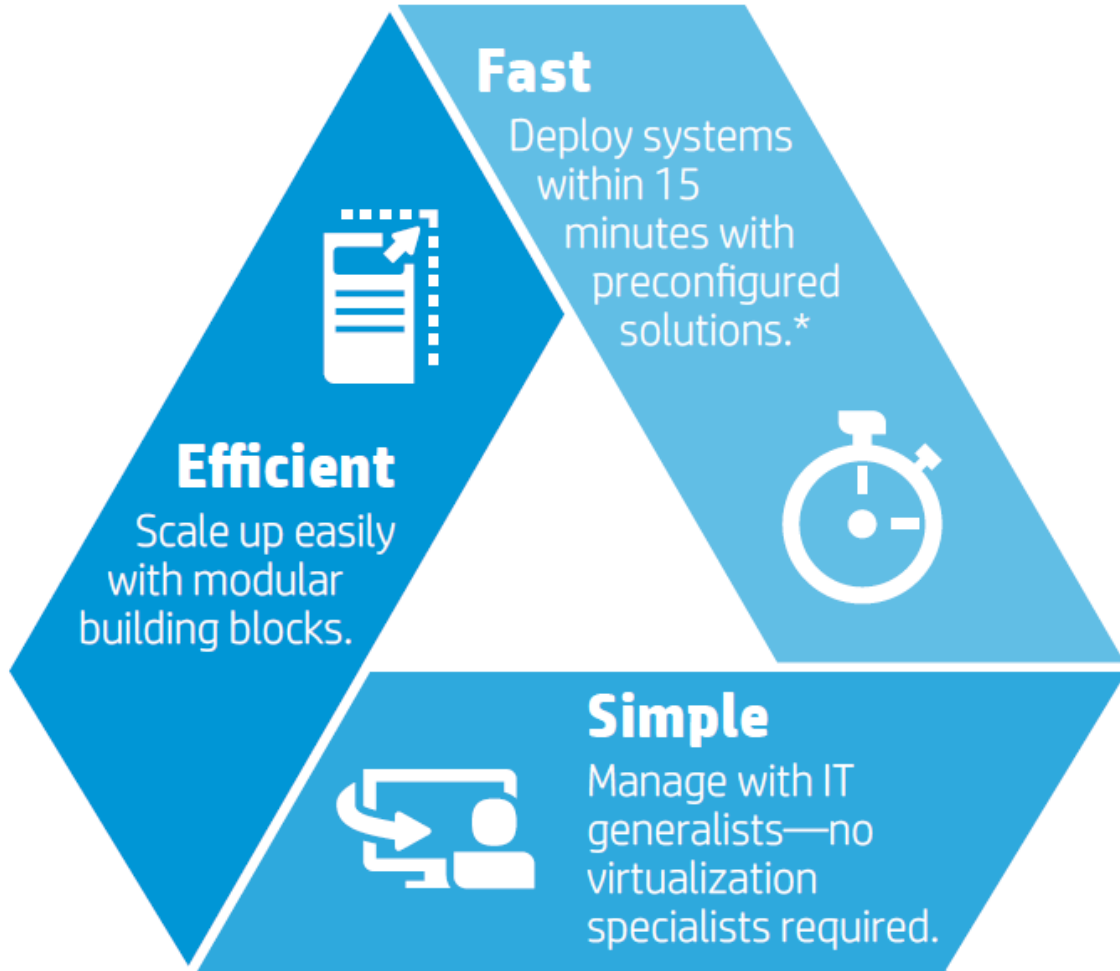HPE Storage featuring HP 3PAR, HPE StoreOnce

HPE Networking & HPE Aruba

Accelerate your projects with

HPE Converged Systems

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Hewlett Packard Enterprise
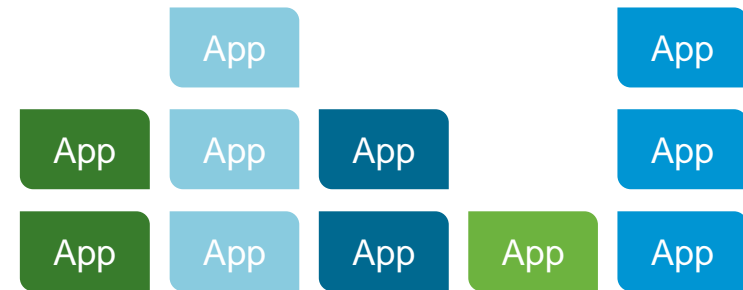
HPE ConvergedSystem 700 Overview

- Specified list of qualified hardware components
  - A specific list of hardware (server, storage, networking) that are architected together within a range of quantities

- Qualified software from HPE, VMware and additional partners
  - Can be ordered as Foundation (bare medal stack) or VMware (with prescribed software bundle)
  - Qualified Reference Architectures, hypervisors and cloud layers may also be layered on top of the solution

- Preintegration and delivery
  - Follows HP complex integration designs and solution software configuration parameters

- Solution Level Support
  - Utilizes HPE Care Packs to provide solution level experience

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HPE Hyper-convergence environment

Fast
Deploy systems within 15 minutes with preconfigured solutions.*

Efficient
Scale up easily with modular building blocks.

Simple
Manage with IT generalists—no virtualization specialists required.

Medium-sized businesses
Enterprise ROBO
Line of Business

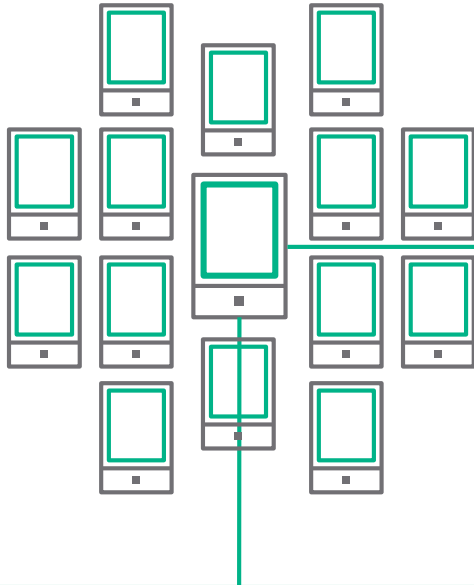Simple building block for the software-defined datacenter

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Hewlett Packard
Enterprise

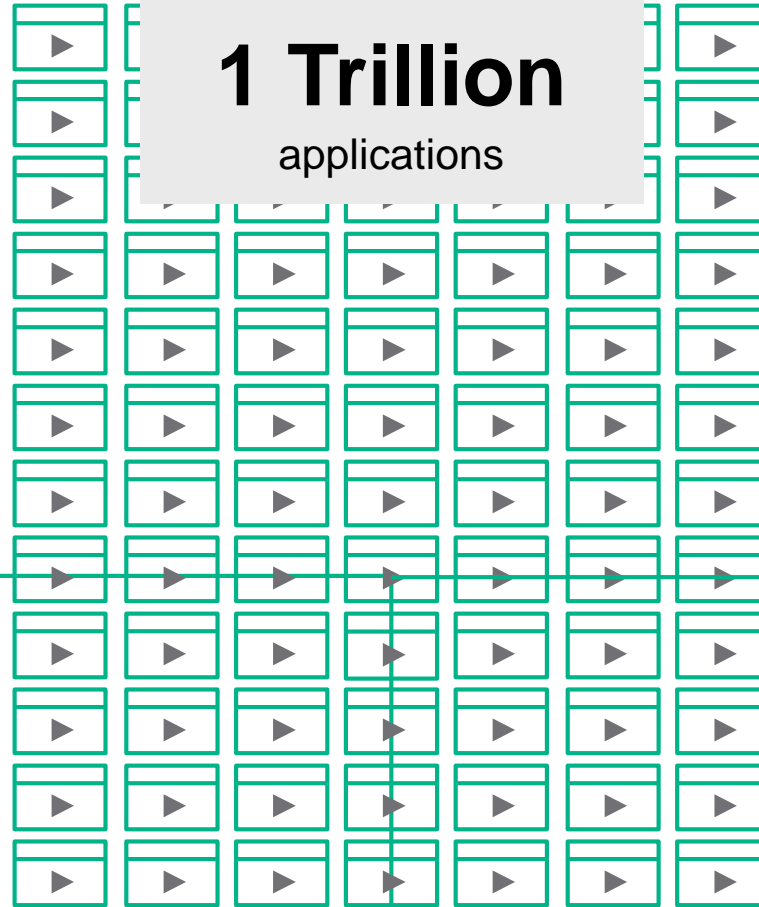# The Idea Economy creates disruptive waves of new demands and opportunities

for New Style of Business
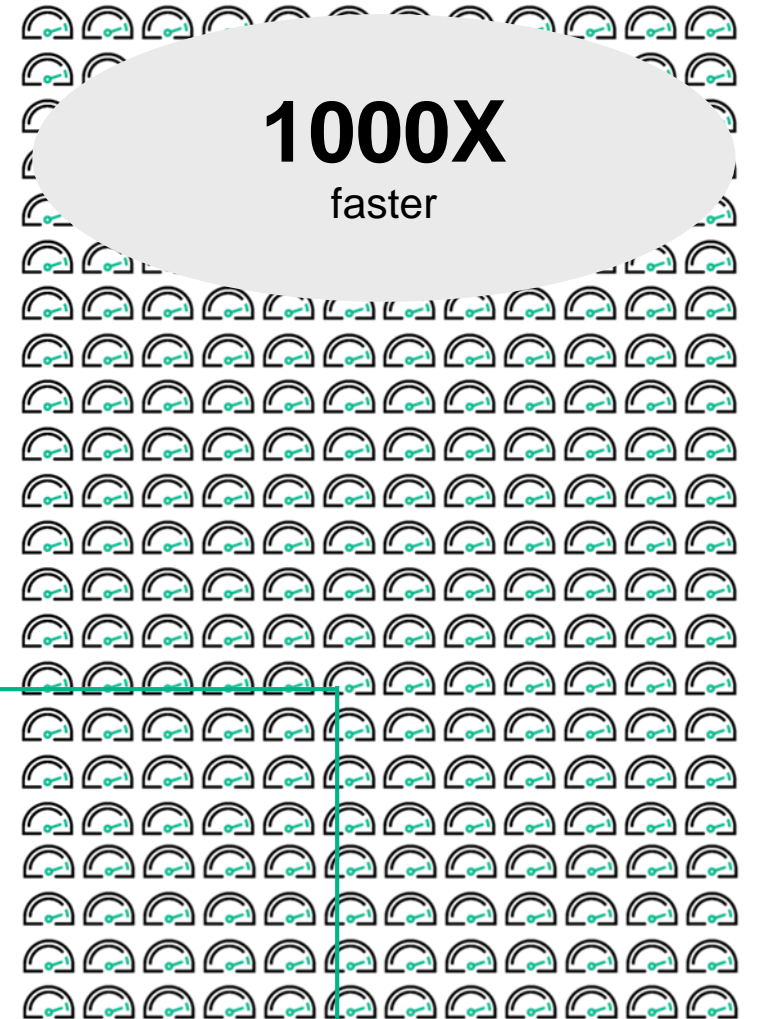
Thriving in the Idea Economy requires speed

100 Billion
connected devices

1 Trillion
applications

1000X
faster

2020

vmware® Hewlett Packard Enterprise

Confidential

13

Complexity inhibits speed and drives up costs

Every 25% of added functionality creates a **100%** increase in complexity **(Gartner)**

$1 spent on infrastructure = **$3** spent on virtualization & management tools **(IDC)**

Applications Management

Dev Ops

Storage Management

Server Management

Virtualization

Network Management
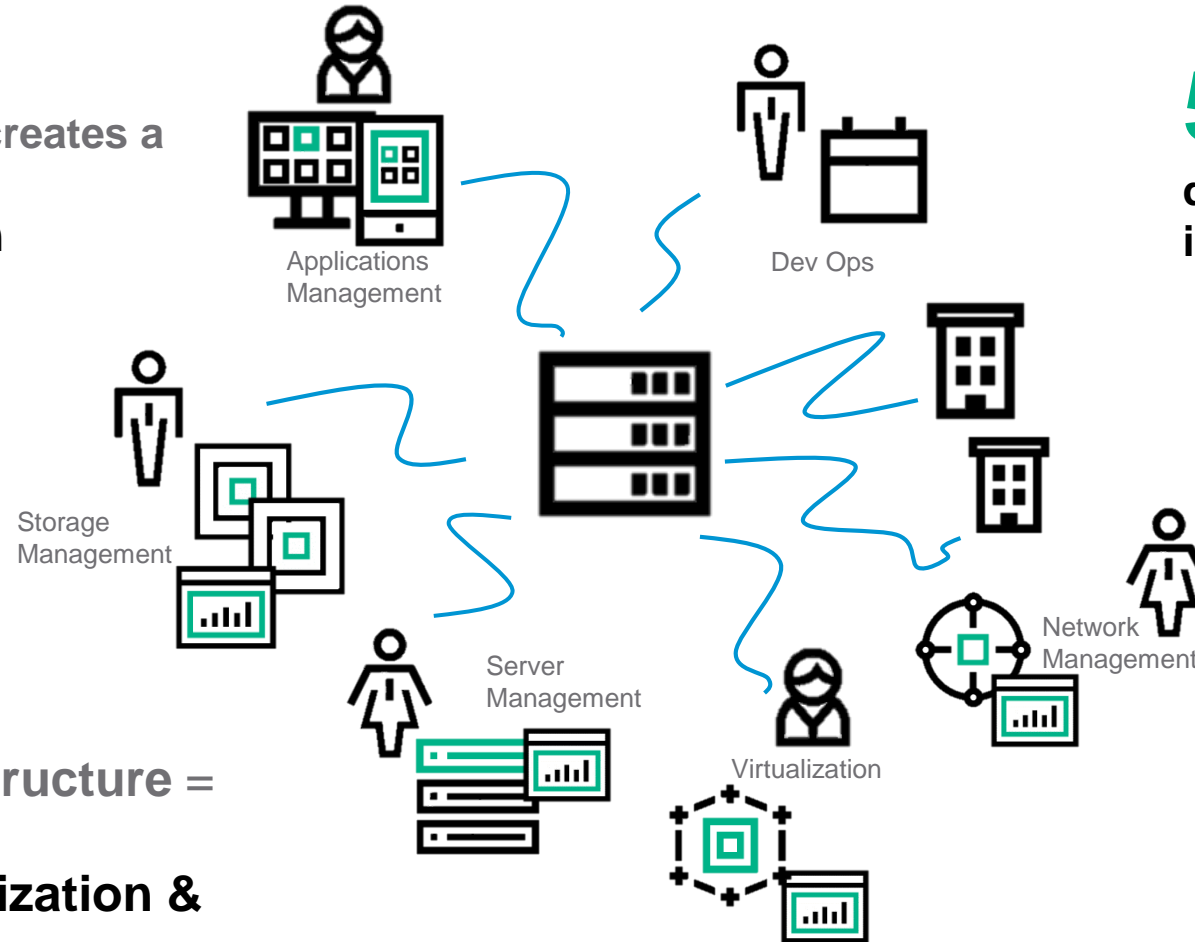
5-6 months – avg. duration to deploy new app infrastructure **(IDC)**

25 days – average time to deploy a new service **(IDC)**

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In the Idea Economy, IT is the business partner for value creation

IT must now be able to support two operating environments

Traditional apps
- Ops driven
- Cost focused

Traditional Business

How can I support both?

The Idea Economy

Cloud apps
- Apps driven
- Agility focused
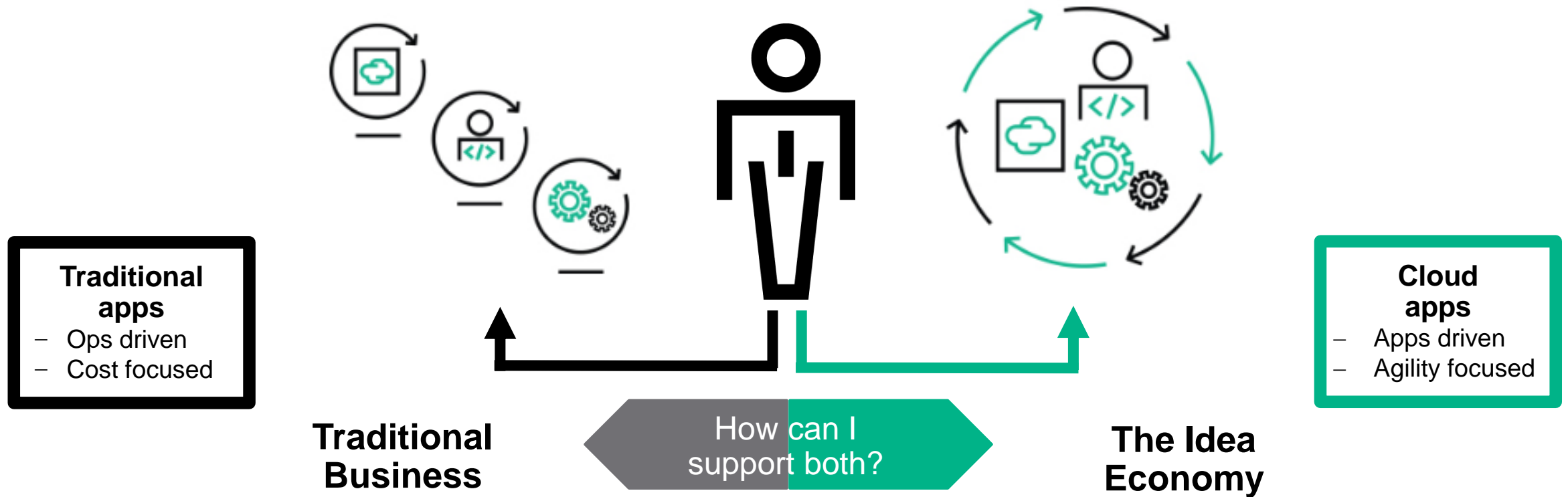
Example of a large energy company's challenge

"Simplify and cost reduce the apps which Run the Business"

"Enable me to accelerate the time from opportunity identification to value creation"

Update my apps once or twice per year

Deliver new apps 2-3 times a month

Digitize everything across the value chain

Mobilize my workforce

Big data analytics

Stable
Workload optimized
Packaged applications

Dynamic
Workflow optimized
Cloud native applications
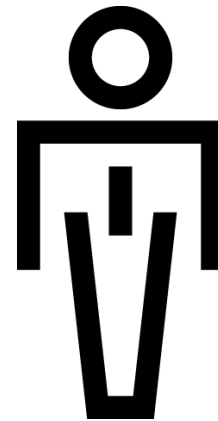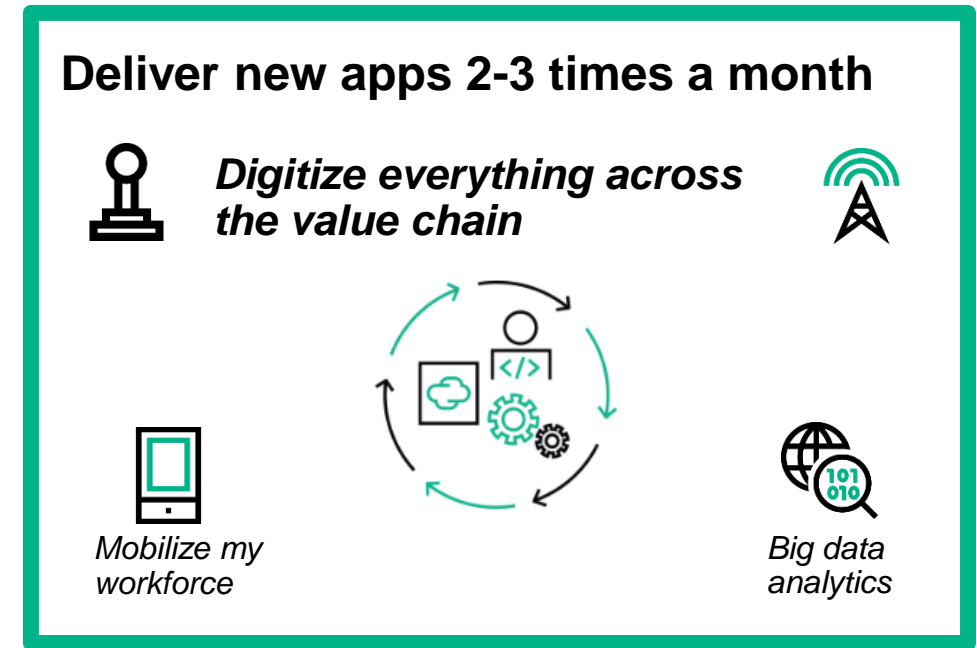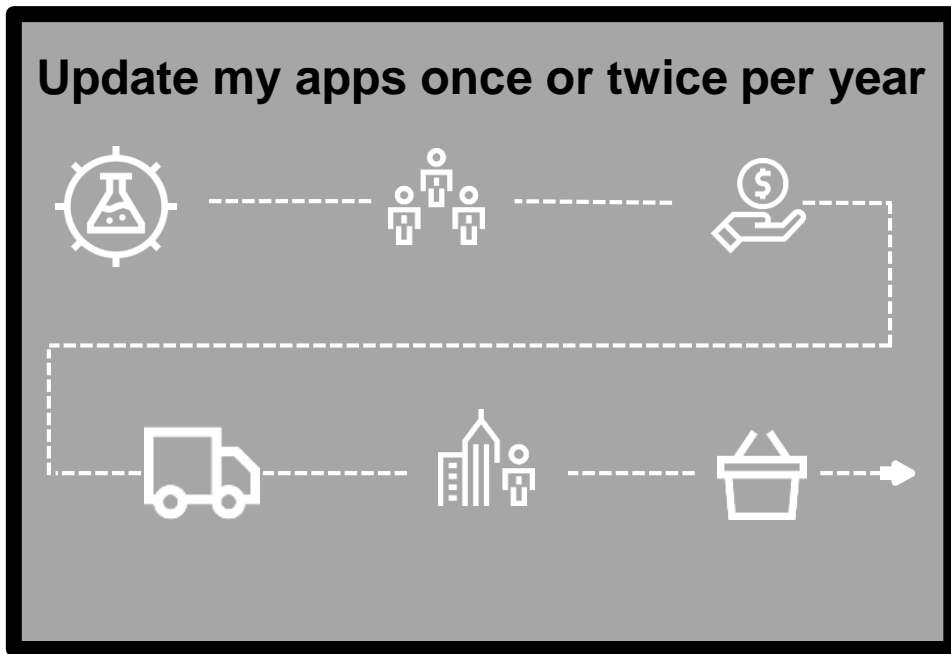
A new category of infrastructure is needed to power the Idea Economy

Simplify Infrastructure as a Service
- Hardware and Software architected as one
- Fluid IT
- Software defined everything
- Unlimited scale
- Physical, virtual and containerized workloads

Simplify deployments
- Remove complexity by eliminating SAN
- Fluid virtual IT
- Software defined storage
- Machine scale
- Virtual workloads

Improve staff productivity
- Masks some complexity with people and software
- Preconfigured physical IT
- Hardware defined
- Auto scale
- Targeted workloads

Siloed Infrastructure
- Complex processes
- Static IT
- Silo defined
- Human scale
- Physical, virtual, and containerized workloads

Application optimized

Months
Traditional

Days
Converged

Minutes
Hyper-Converged

Seconds
Composable

Operations optimized

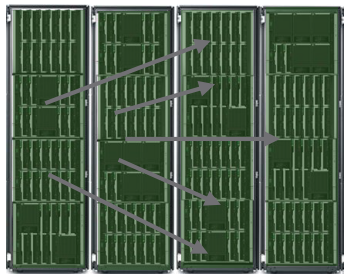vmware®   **Hewlett Packard Enterprise**

Composable Infrastructure is the engine for the Idea Economy

REDUCE
over provisioning and CAPEX

Precisely compose any compute with any storage pool

- Quickly recompose across racks and rows in seconds
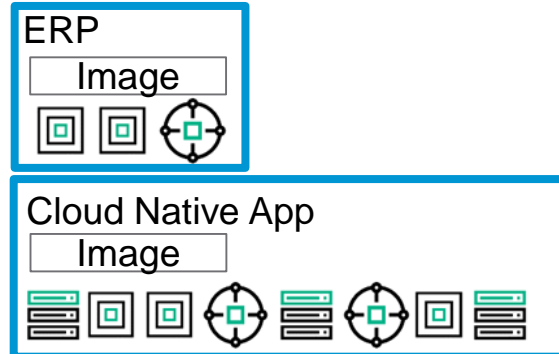- SDS, DAS and SAN in the infrastructure

DEPLOY
at cloud-like speed

Power up to a portal in minutes

- Self-discovery, auto-integration of all resources
- Bare metal through OS provisioning in seconds
- Compose disaggregated stateless resources

ERP
Image

Cloud Native App
Image

DEVELOP
more apps, faster

Program Infrastructure the way you want

- Single line of code for full infrastructure programmability
- Stand up infrastructure in minutes not months

Unified API
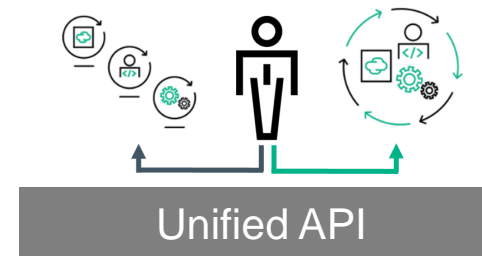
UPDATE
firmware seamlessly

Frictionless operations reduce operational effort

- Templates define how the infrastructure needs to function
- Single firmware/drivers updates aligned to maintenance window

Firmware/ Drivers

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Composable Infrastructure defined

Fluid Resource Pools

- Single infrastructure of disaggregated pools of compute, storage and fabric that boots-up ready for any workload
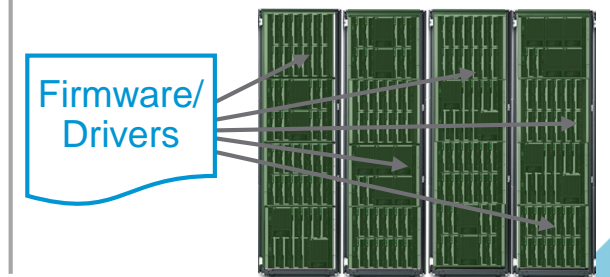- Physical, virtual and containers
- Auto-integrating of resource capacity

Software-Defined Intelligence

- Template-driven workload composition
- Frictionless operations

Unified API

- Single line of code to abstract every element of infrastructure for full infrastructure programmability
- Bare metal interface for Infrastructure as a Service

Unified API

Software Defined Intelligence

Fluid Resource Pools

Composable Infrastructure

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The Power of Infrastructure as Code
Compose and recompose optimized to the needs of the application

App Development

Image

Database

Image

Image

Web #1

Image

Web #2

Image

Web #3

Image

Web #4

Image

VDI

Image

- Fast deployment for the New Style of Business

- Instant flexing of traditional workloads

- Mass production for the New Style of Business

- Redeploy resources for traditional workloads

Hewlett Packard
Enterprise

Available through Project Synergy today

Building the Composable Infrastructure ecosystem

Unified API

Software Defined Intelligence

Fluid Resource Pools

Composable Infrastructure

Hewlett Packard Enterprise **+** **vmware**®

ANSIBLE   openstack CLOUD SOFTWARE   puppet labs   docker   CHEF

Composable Infrastructure API

Enabling interoperability between applications
that make the infrastructure programmable

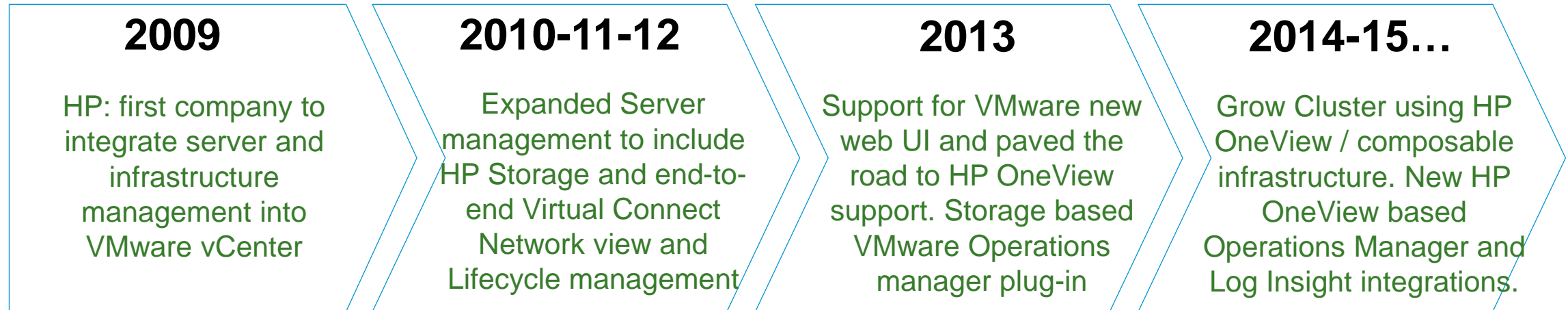**vmware**® **Hewlett Packard** Enterprise

HP Composable Infrastructure Partner Program

Including SDK, partner lab, and technical assistance

Leadership virtualized infrastructure management with VMware

First partner to use composable infrastructure API's!

2009	2010-11-12	2013	2014-15…
HP: first company to integrate server and infrastructure management into VMware vCenter	Expanded Server management to include HP Storage and end-to-end Virtual Connect Network view and Lifecycle management	Support for VMware new web UI and paved the road to HP OneView support. Storage based VMware Operations manager plug-in	Grow Cluster using HP OneView / composable infrastructure. New HP OneView based Operations Manager and Log Insight integrations.

Hewlett Packard Enterprise **+** **vm**ware®

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