



IBM SolutionsConnect 2014

A New Era of Smart

13 Mar 2014 | Philippines



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PureSystems Customer Experience in ASEAN

Khong Wai Leong

WebSphere Sales (PureApps & Appliance)

IBM SWG Asean





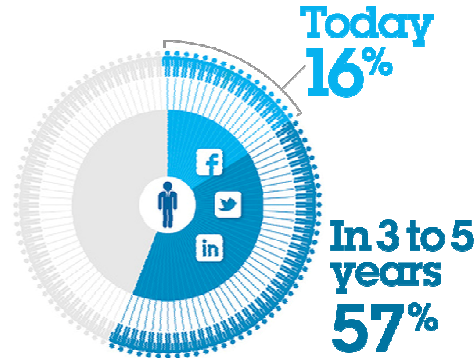
Mobile, Social, Big Data & Analytics are redefining client engagement

Mobile



90% of mobile users keep their device within arm's reach **100%** of the time¹

Social



% of **CEOs** using **Social** to Connect with Customers²

Big Data & Analytics



8 zettabytes of digital content created by 2015³

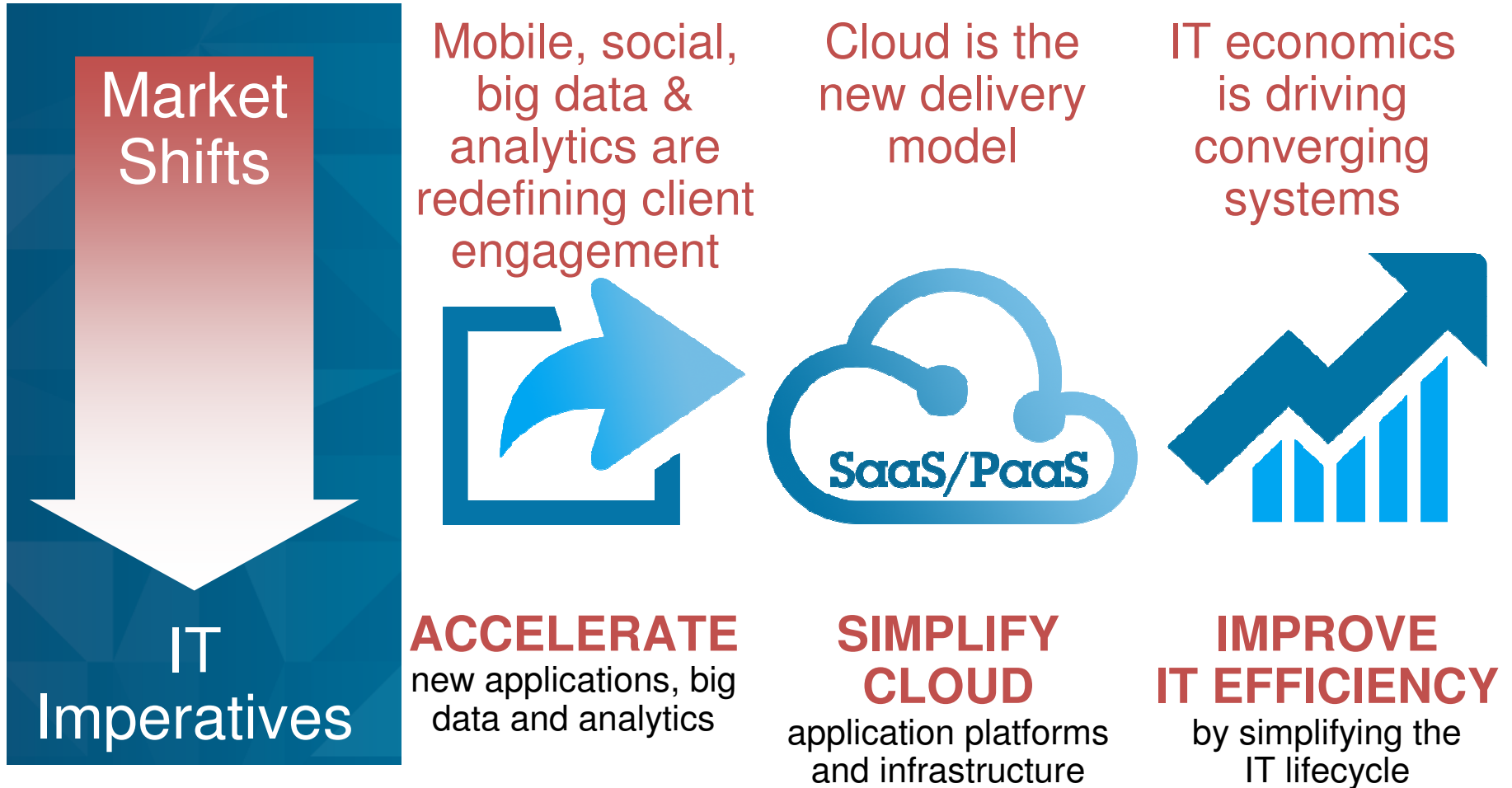
Increasing the need for
Speed

- Very short cycle times
- Rapid iteration
- Real-time access
- Faster insight
- Immediate context
- Rapid scaling for unpredictable demand and large volume

¹ IBM Forum 2012, Smarter Commerce Prague ² IBM GBS 2011 IBV Study, "The power of cloud: driving business model innovation" ³ IDC, IDC Predictions 2012: Competing for 2020, Doc #231720, December 2011

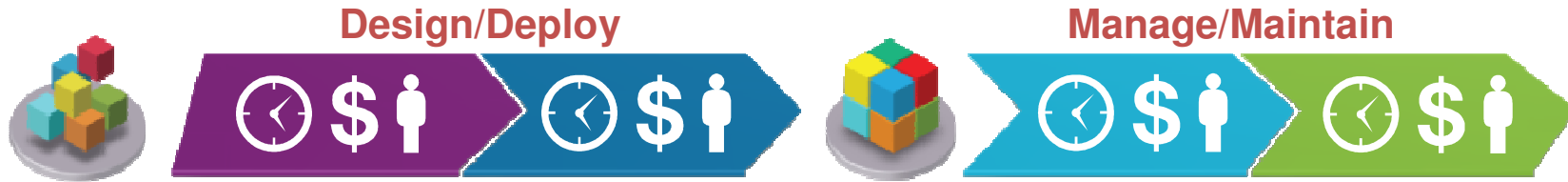


These market shifts are driving IT imperatives



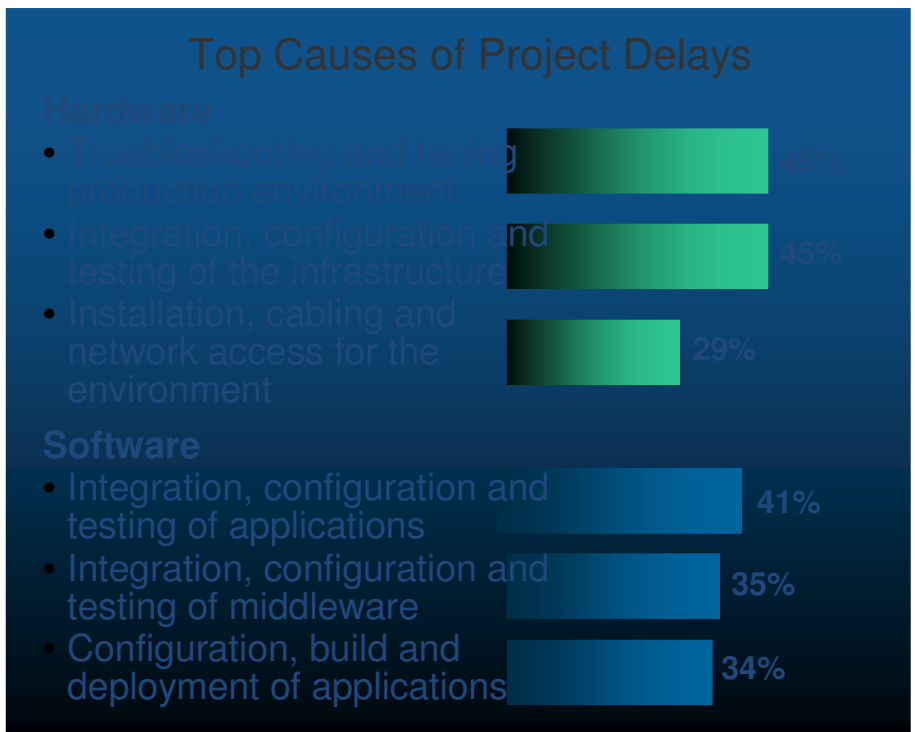


The challenge: the time and effort spent on today's IT environment



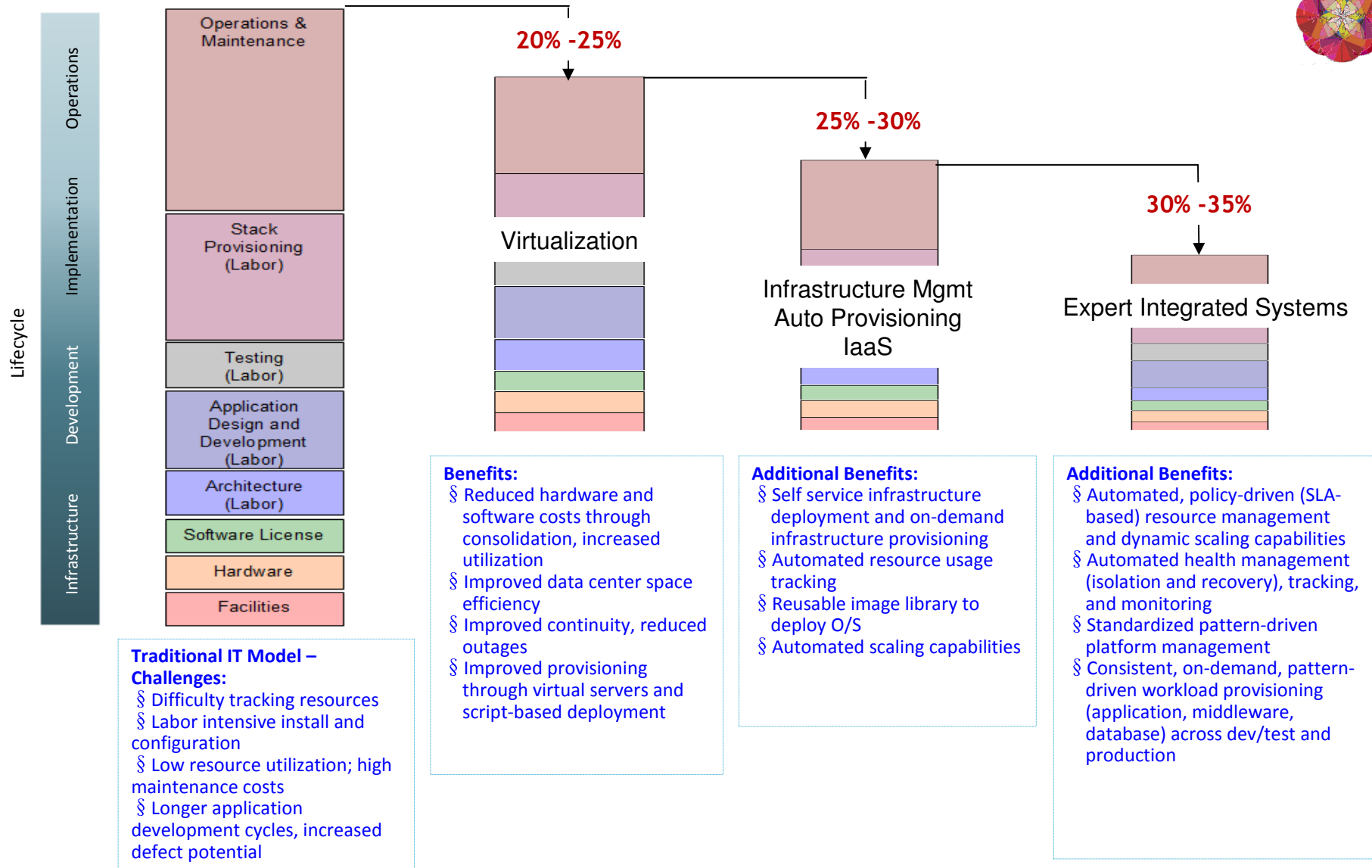
Typical IT Project Time and Budget

Phase	Time (days)	Budget
Specify/design	73 - 96	14% - 16%
Procure	57 - 112	19% - 21%
Implement	74 - 93	12%
Configure/test	74 - 80	10% - 11%
Cluster & HA	66 - 104	11% - 12%
Backup	44 - 108	10%
Tune	89 - 98	9% - 10%
Management	67 - 110	9 - 10%





Benefits grow when moving from virtualization to Expert Integrated System



How can we have an end to end solution that knows what the businesses needs in terms of SLA – at a system-wide level – and also understands how to optimize itself for any workload?



PureSystems: Simplifying cloud, big data & analytics – tailored for your business

PureFlex



Flex System

Infrastructure

Delivering Cloud Infrastructure Services

PureApplication



Application Platform

Delivering Cloud Application Platform Services

PureData



Data Platform

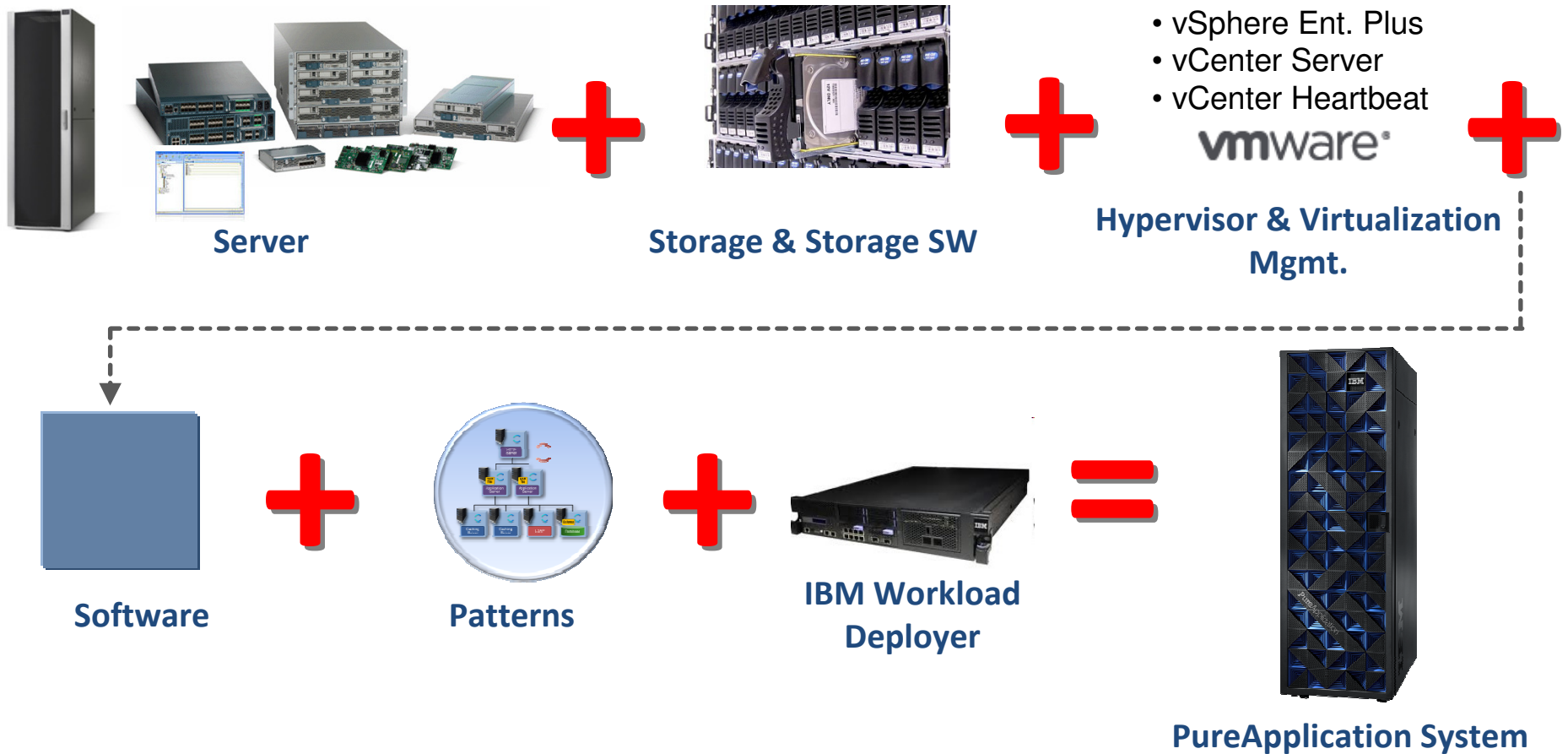
Delivering Big Data Platform Services

PureSystems

- ❖ Simplified Experience
- ❖ Built-in Expertise
- ❖ Integration by Design



What is IBM PureApplication ?





PureApplication

“Patterns of Expertise”

Infrastructure patterns and self-optimizing technology for lower cost, based on the experience of managing tens of thousands of data centers



Integration by Design

A complete system that is cloud-ready, more secure and designed from the start to work together

Simplified Experience

Management integration and choice at every step, to make IT easier

Integration by Design

Up to:

Intelligent
cloud
technology

2X application density in same floor space
50% improvement in administrator
productivity

Security
innovation

0 setup time to achieve enterprise risk
reduction with trusted protection built in
from the hardware up

Scale-in
systems
networking

50% latency improvement for faster
application performance

*IBM-designed management across compute,
storage, and networking – in a single system
with upgradability to future technologies*



Built-in Expertise

Up to:

Smart
data
placement

300% increased performance
of critical applications

Thousands of
virtual machines
on single system

2X improvement in system utilization
70% fewer cores for reduced
software licensing

Management
integration

50% lower management costs
2X improvement in fault diagnosis

*Over \$2B in R&D and acquisitions over 3 years
Millions of development hours across 37 labs in 17 countries*



Simplified Experience

Up to:

Factory
pre-configured
and tested

70% faster setup time

Dynamic
resource
allocation

Days to minutes
for workload deployment time

Management
across physical
& virtual
resources

75% lower systems costs over 3 years
98% time savings in storage
provisioning

*Management from a single pane of glass
with open choice of environments and applications*





The right model to fit your needs

NEW! > 64 core options

New

Latest! POWER7+ technology

“Mini”

- Small rack (25U)
- 32, 64, 96, 128 core options
- 30% less power consumption
- Smaller footprint

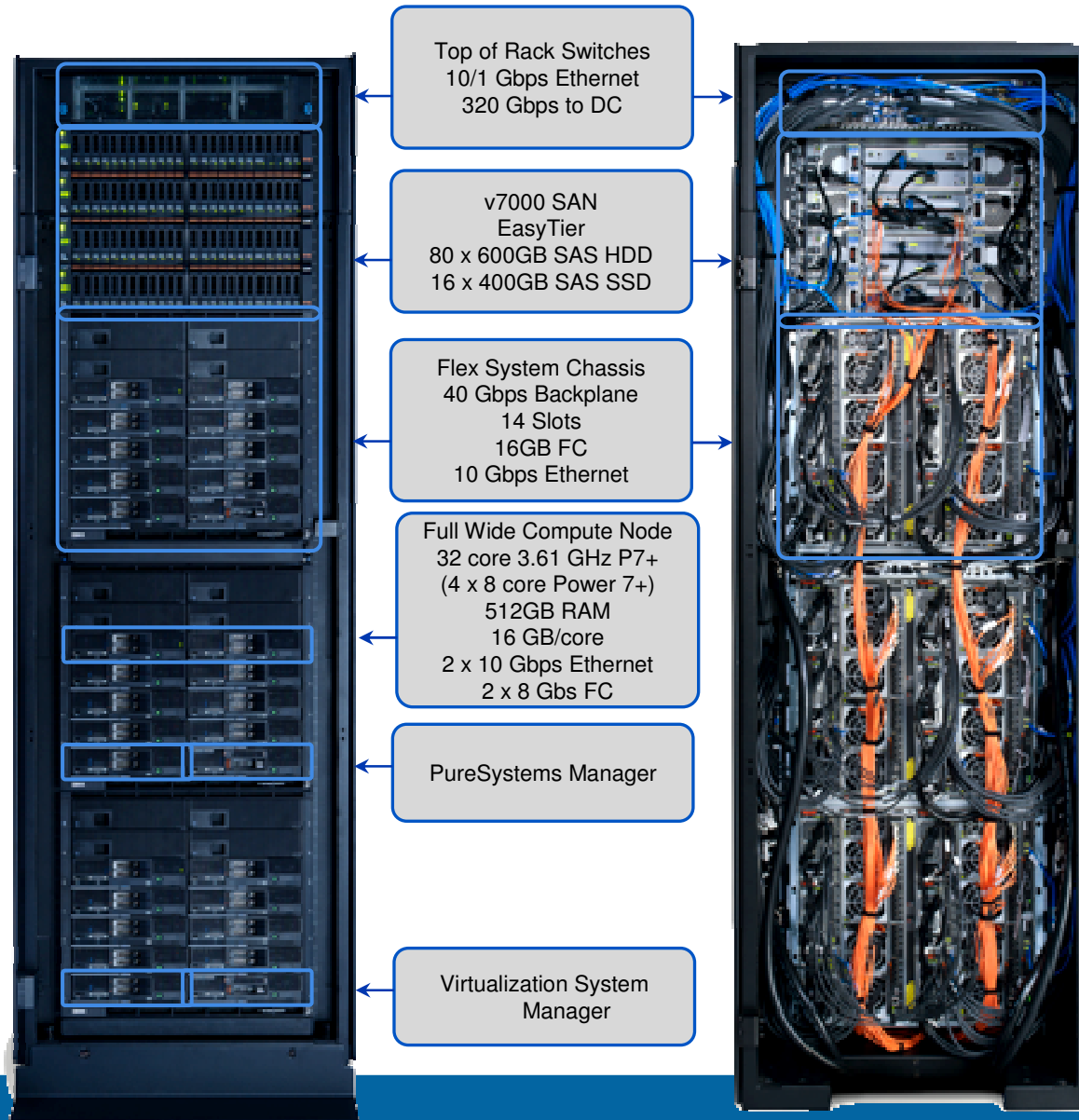
Enterprise

- Large rack: (42U)
- 64, 96, 128, 160, 192, 224, 384 & 608 core options
- Higher computing density

- All models are **integrated by design** and share the same **built-in expertise and simplified experience**
- Upgrade to larger configurations in a rack **without taking an outage**



PureApplication – A fully redundant private cloud solution





PureApplication System W1700: Pre-Optimized, Pre-Entitled Software

- “All you can eat” entitlement to run the following software on the full capacity of the purchased System
 - Virtualization hypervisor and virtualization management
 - Full stack monitoring (hardware, OS, entitled middleware)
 - Tooling for creating patterns
 - Virtual System Patterns:
 - IBM OS Image for Power Systems (AIX v6.1 TL 8 SP2 & AIX v7.1 TL 2 SP2)
 - IBM WebSphere Application Server Hypervisor Edition v7.0.0.29 with IMP (WAS 7.0)
 - IBM WebSphere Application Server Hypervisor Edition v8.0.0.6 with IMP (WAS 8.0)
 - IBM WebSphere Application Server Hypervisor Edition v8.5.5 with IMP (WAS 8.5)
 - IBM DB2 9.7 FP8 Enterprise Server Edition HV*
 - IBM DB2 10.1 FP2 Enterprise Server Edition HV*
 - IBM DB2 10.5 Enterprise Server Edition HV*
 - Automation Framework HV (for migrating applications)
 - IBM Mixed Language Application Modernization Pattern v1.0 (for C & COBOL apps)
 - Virtual Application Patterns:
 - Java Pattern v1.0.1 (64-bit Java 7 SDK)
 - IBM Workload Deployer Pattern for Web Applications v1.0.1 (with WAS v7)
 - IBM Web Application Pattern v2.0.1 (with WAS v8)
 - IBM Transactional Database for Cloud v1.1.0.7 (DB2 9.7 FP8, 10.1 FP2, & 10.5)
 - IBM Data Mart for Cloud v1.1.0.7 (with DB2 9.7 FP8, 10.1 FP2 & 10.5)

*DB2 ESE with options entitled:
• Storage Optimization
• Label-Based Access Control
• Optim Performance Manager



The optimal cloud platform for enterprise applications

What's unique in PureApplication System

- Increased flexibility with the first pre-integrated **application platform** for **Windows and Linux**
- Lower TCO through the **high performance** hypervisor in PowerVM-based system
- Ease of use with **cross-site disaster recovery** for applications setup **in 5 clicks**¹
- Improved **application security** with integrated encryption support
- **Faster response times** during usage spikes
- **Improved governance** through new license tracking and reporting and OS maintenance
- Investment protection through **broad ecosystem** of **optimized application patterns**



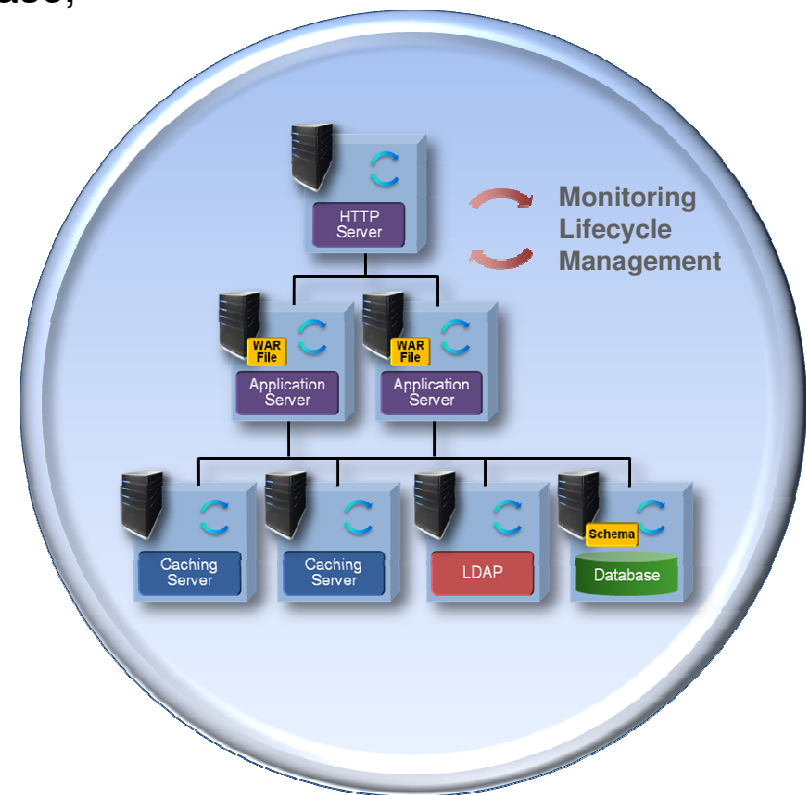
Pure and Simple.



Patterns of Expertise: Proven best practices and expertise for complex tasks learned from decades of client and partner engagements that are captured, lab tested and optimized *into a deployable form*

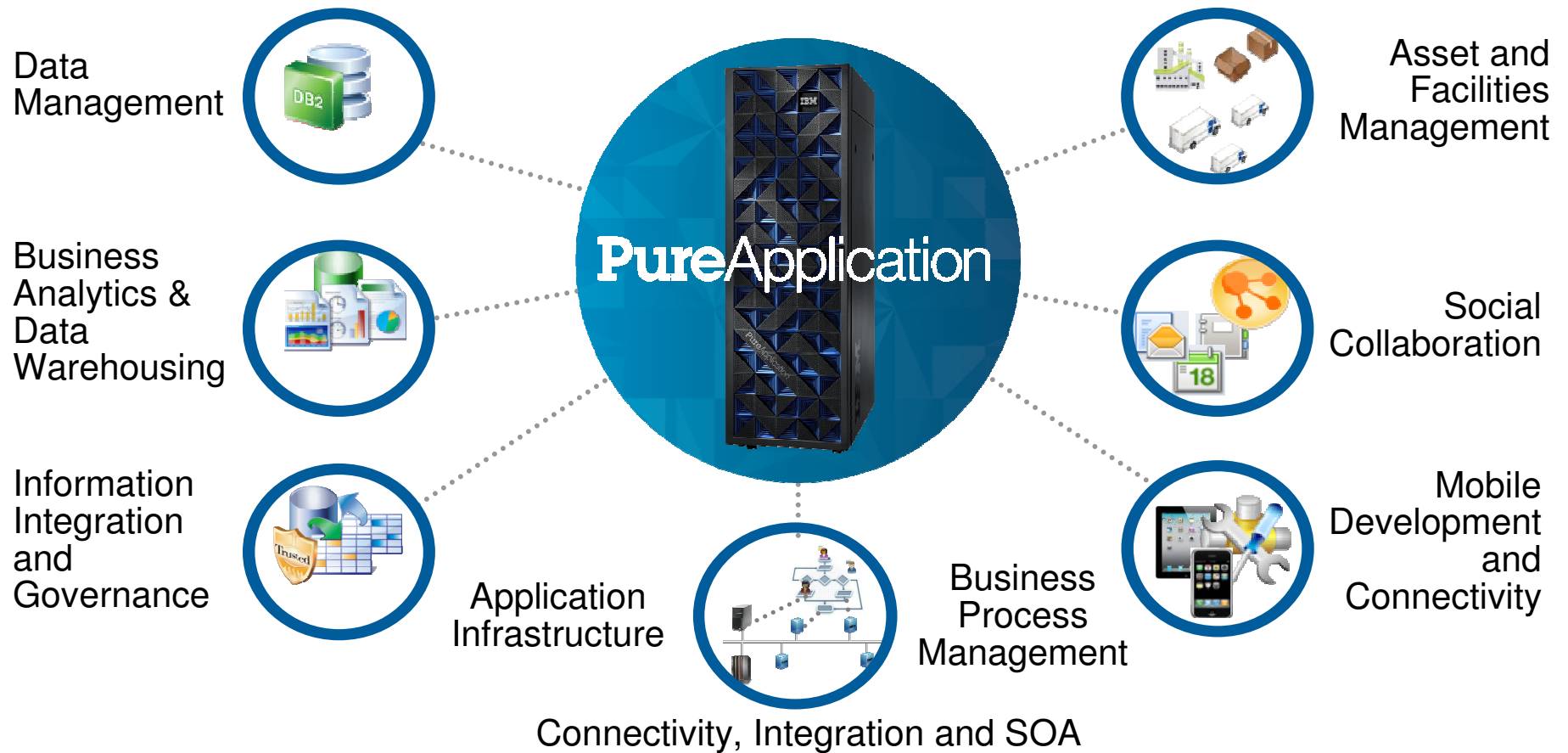
What is a Pattern?

- The pre-defined architecture of an application
- For each component of the application (i.e. database, web server, etc)
 - Pre-installation on an operating system
 - Pre-integration across components
 - Pre-configured & tuned
 - Pre-configured Monitoring
 - Pre-configured Security
 - Lifecycle Management
- In a **deployable form**, resulting in **repeatable deployment with full lifecycle management**
- **Delivering** superior results:
 - **Agility:** Faster time-to-value
 - **Efficiency:** Reduced costs and resources
 - **Simplicity:** Simpler skills requirements
 - **Control:** Lower risk and errors





Application deployment and management in the cloud has never been easier with IBM Software !





We're Partnering across Key Industries to Bring on Critical Applications



Big Data

Data Management
Business Analytics & Data Warehousing
Information Integration & Governance

Mobile

Mobile Development
and Connectivity

Social

Collaboration
Web Experience

- SAP Business Suite
- Smarter Process
- DB2 with BLU Acceleration

New

Partners





Singapore Exchange, Ltd. (SGX) invests in optimizing the application development lifecycle

1 day

POC to install and configure PureApplication System

ESR

for POC to upgrade SGX applications from WebSphere Application Server V6.1 to V8.5

Reduce risk and simplify

application development with automation and role based access to minimize human error



Business Challenge:

To meet regulatory and market structure changes SGX had to securely and rapidly migrate from IBM WebSphere Application (WAS) Server V6.1 to V8.5 in support of trade reporting, clearing and back office applications.



Onsite POC : Proof Points and Success Criteria

- Use Case 1 – **WAS migration using AMC**
 - Migrate WAS v6.1 configurations of existing SGX applications and deploy them using WAS v8.5 patterns in the IBM PureApplication System using Advanced Middleware Configuration (AMC).
 - To be done without code changes or change of JEE level where possible
- Use Case 2 – **Hardening and agent installation**
 - Deploy one custom WAS v8.5 image with automated execution of SGX hardening and installation scripts
- Use Case 3 – **SNMP and monitoring**
 - Monitoring of IBM PureApplication System and SNMP traps



Benefits of the IBM PureApplication System for SGX

	Traditional Approach	PureApp Approach
Migration	Time consuming & error prone with Manual effort	No OS/WAS installation required and WAS configuration migrated automatically
Deployment	Deployment of WAS takes days and is error prone	WAS deployment based on "golden" topology take minutes.
Operation & Maintenance	Manual patch / fixes requires time and effort	Reduce effort on OS & WAS maintenance with greater reliability
DC & Managed services	Nodes/Images sprawl due to multiple projects	Self-service approach smaller HW footprint and lower managed services costs



Business Benefits for SGX

- Ability to **expedite on meeting Regulation Compliance**. With PureApplication as an appliance they just need to Power up and setup network and then can start implementation.
- **Accelerate Migration time and reduced Migration risk**. By leveraging configuration management capabilities of PureApplication system in conjunction with IBM's WAS Migration Toolkit, the solution enabled SGX to effectively upgrade their applications in shorter time and reduced risk.
- **Accelerate Time to Market** of core application requirements. By leveraging core capabilities of PureApplication System, Singapore exchange can now deploy key applications to market quickly, thereby gaining quicker ROI on their core applications.
- By leveraging an Expert Integrated System, SGX **derived huge business values** on overall operation cost, TCO , time to market and ROI compared to traditional hardware platform.



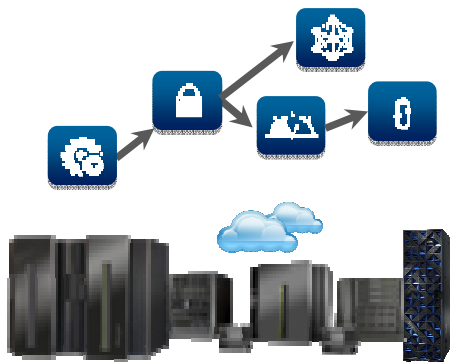
A Strategic View of IBM Cloud Portfolio

- Simplified cloud portfolio for bring-your-own hardware, pre-integrated offering & public cloud with hybrid connectivity
- Open, common, standards-based architecture adoption providing choice, flexibility, interoperability and portability
- Enterprise capabilities & pattern portability

Related Standards & Organizations

SmartCloud Orchestrator
Orchestration across multiple environments and domains

SmartCloud Provisioning



Roll Your Own Cloud

PureApplication
Pre-integrated Systems



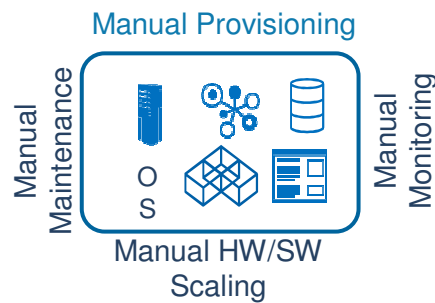
IBM Public Cloud



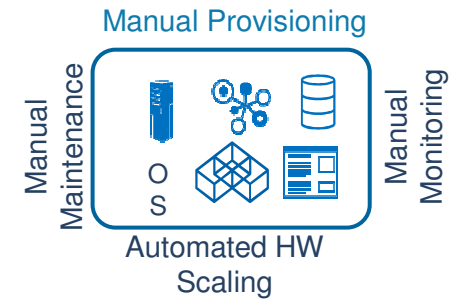
A new era with PureApplication on SoftLayer that brings cloud economics & hybrid cloud capabilities

Manual

Deployment
Monitoring, Scaling &
Maintenance is
manual



Roll Your Own

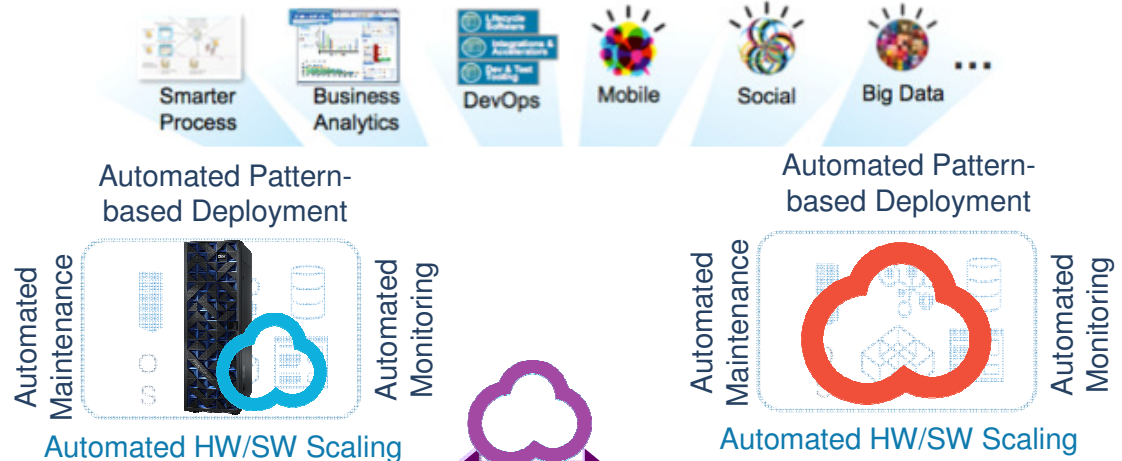


Public Cloud Roll Your Own



Automated

Simplicity, Speed &
Lower TCO



PureApplication System

PureApplication on SoftLayer



Summary

- IBM PureApplication System is a game changer
- PureApplication System provides a powerful and easy to deploy private cloud
 - Pre-assembled rack provides integrated hardware and software
- Integrated hardware and software system designed to dramatically simplify the development, provisioning, and management of applications
- Includes integrated management capabilities, allowing self-service provisioning of elastic workloads
- Supports multiple deployment models to cater to variety of needs
- While optimized for IBM middleware, PureApplication System has capabilities to expand beyond the available S/W by allowing clients to bring in their own Virtual image and add that to the shared cloud resources within PureApplication System





Put your business in motion. Become a mobile enterprise.

Impact 2014 delivers four days of best practices, technical education and roadmaps for business transformation and leverages deep insights from topics like the mobile enterprise, cloud, big data and analytics, Smarter Process, connectivity, application infrastructure, and the Internet of Things. Join over 9000 developers and business and IT leaders for Impact 2014 and discover how to reach new markets, gain competitive advantage and unleash a catalyst for innovation in a mobile-enabled world.

The Top Ten Reasons to Attend Impact 2014

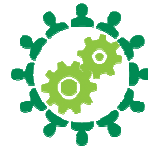


1. Discover innovative strategies that leverage mobile technologies to shorten the value chain by driving transactions at the point of engagement.



2. Learn how to transform your business around a mobile infrastructure to create new value from customer, supplier and employee interaction.

3. Hear first-hand from clients and Business Partners how they are adopting smarter processes that increase efficiency and profitability in their organizations.



4. Understand smarter process linkages and integration with Enterprise Content Management (ECM), Master Data Management (MDM), Analytics, ERP, CRM and other systems.



5. Learn why and how businesses are choosing IBM cloud computing to innovate faster, give their users the software they need, and develop mobile applications all while saving time with self-service.



6. Hear innovative strategies for building, deploying and managing applications with high scale and continuous availability, from front office to back office - whether mobile, web, or cloud applications.

7. Learn how to leverage the explosion in the volume of data from sensors and mobile devices - the Internet of Things - to support business decisions and build customer loyalty.



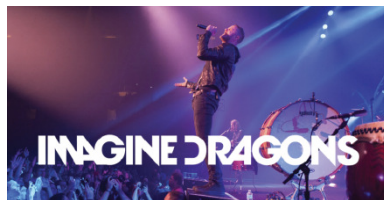
8. Gain expertise in implementing solutions to enable your business for the API Economy, IOT and Mobile.



9. Explore the potential of cutting-edge technologies that provide leadership advantage and change the way you do business.



10. Overcome the challenge of managing and securing an infrastructure that connects an endless array of intelligent devices and sensors outside of your control.



See Imagine Dragons at Impact 2014!

The breakout rock band of the year with platinum-selling singles "It's Time" and "Radioactive" will perform live for our conference attendees.

Visit ibm.com/impact to see detailed information on tracks, sessions and registration.



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Thank You