PureSystems

Changing the economics
and experience of IT
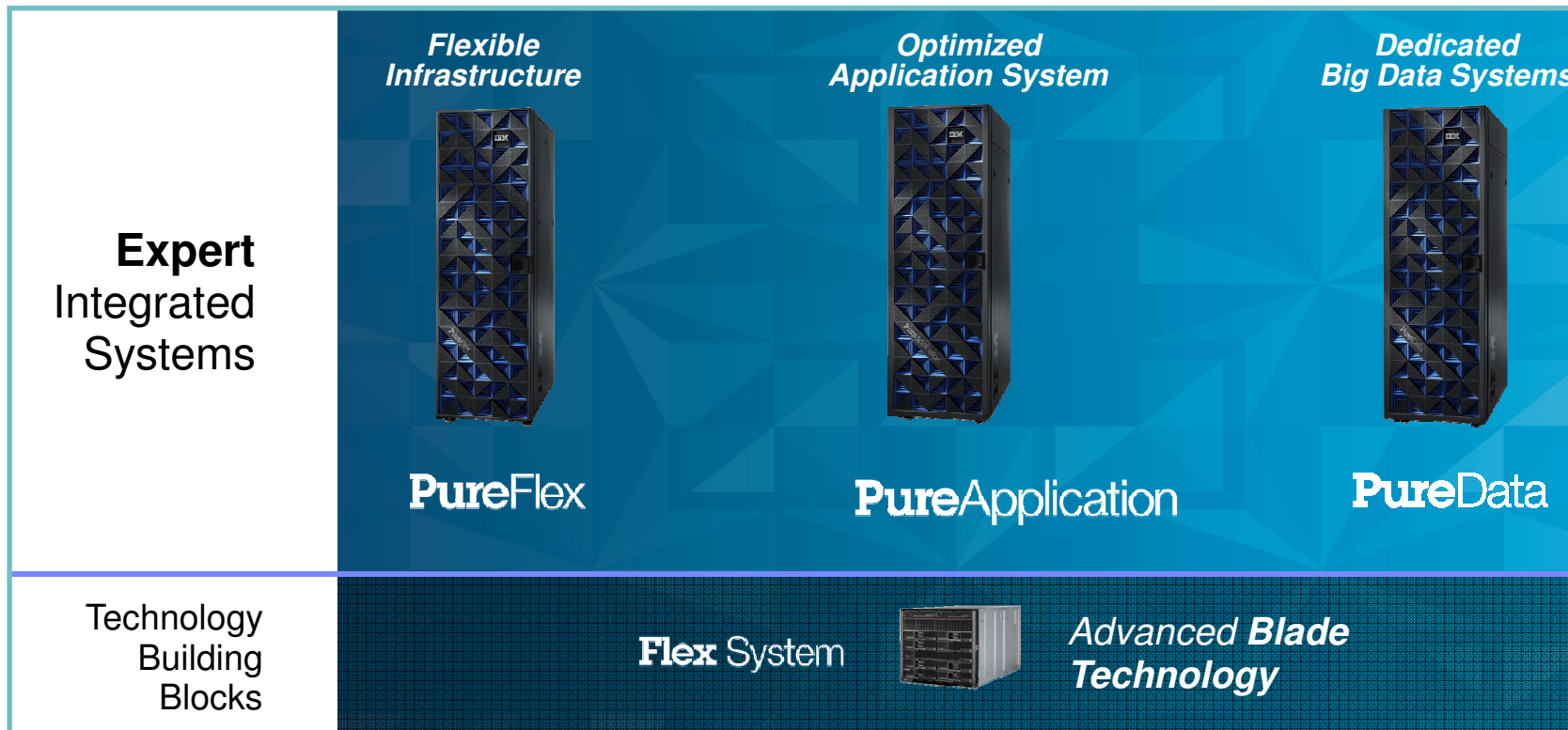
IBM PureApplication System

Highly available and scalable web application platform
Changing how On-Premise Cloud and IT infrastructure are provisioned

Richard Vowles & Tony Peterson - IBM

The IBM PureSystems family

	Flexible Infrastructure	Optimized Application System	Dedicated Big Data Systems
Expert Integrated Systems	**Pure**Flex	**Pure**Application	**Pure**Data
Technology Building Blocks	**Flex** System	Advanced **Blade** Technology	

You can build cloud simpler, faster and with less risk with pre-integrated and optimized capabilities

IBM

PureSystems

Expert Integrated Systems

Flex System

Build from Components

PureFlex
Flexible cloud infrastructure

PureApplication
Simplified cloud application lifecycle

Flexibility ← → Speed and Simplicity

Build it

IBM PureApplication System: the ideal cloud application platform

IBM

Expert Integrated System:
Integration by design
- Application server
- Database services
- Integrated infrastructure

Built-in expertise
- Infrastructure, platform, and application patterns

Simplified experience
- Simplifying lifecycle deployment and management of applications
- Single point of management

- Pattern-based deployment
- User-based self-service
- Service level management
- Common cloud platform
- Dynamic resource scalability
- Automated IT resource provisioning

- Catalog of services
- Multi-tenancy
- Usage-based reporting
- Virtualization
- Automated IaaS

PureApplication

Cloud Application Platform (PaaS)

Driving built-in expertise with IBM's patterns of expertise

IBM®

What the business wants…
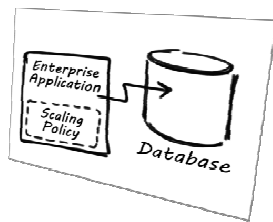
What's required…
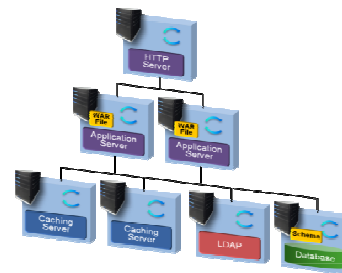
What a pattern automates…

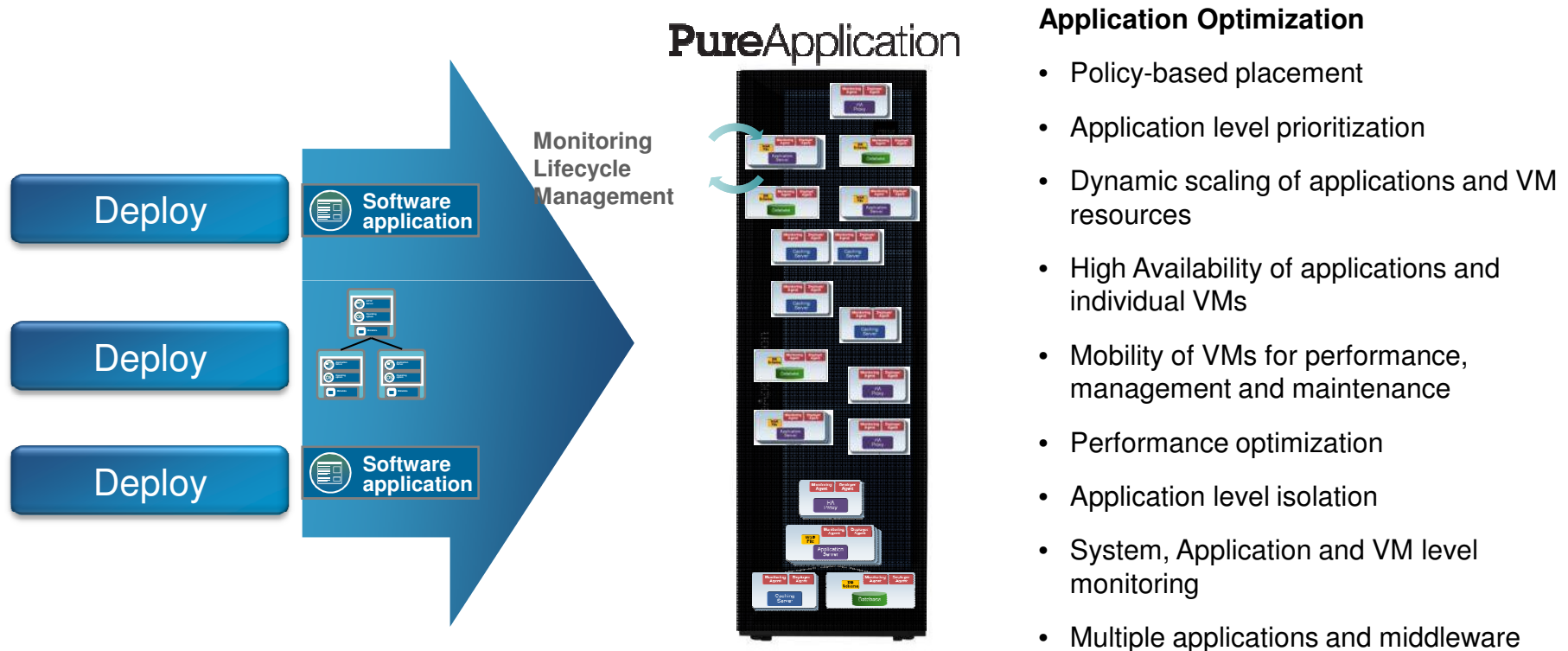Deployment
Monitoring
Lifecycle Management
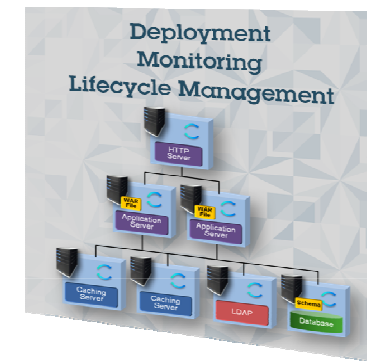
Patterns include:
- Application topology
- Pre-integrated across components
- Pre-configured & tuned
- Pre-configured monitoring & security
- Pre-installed on an operating system
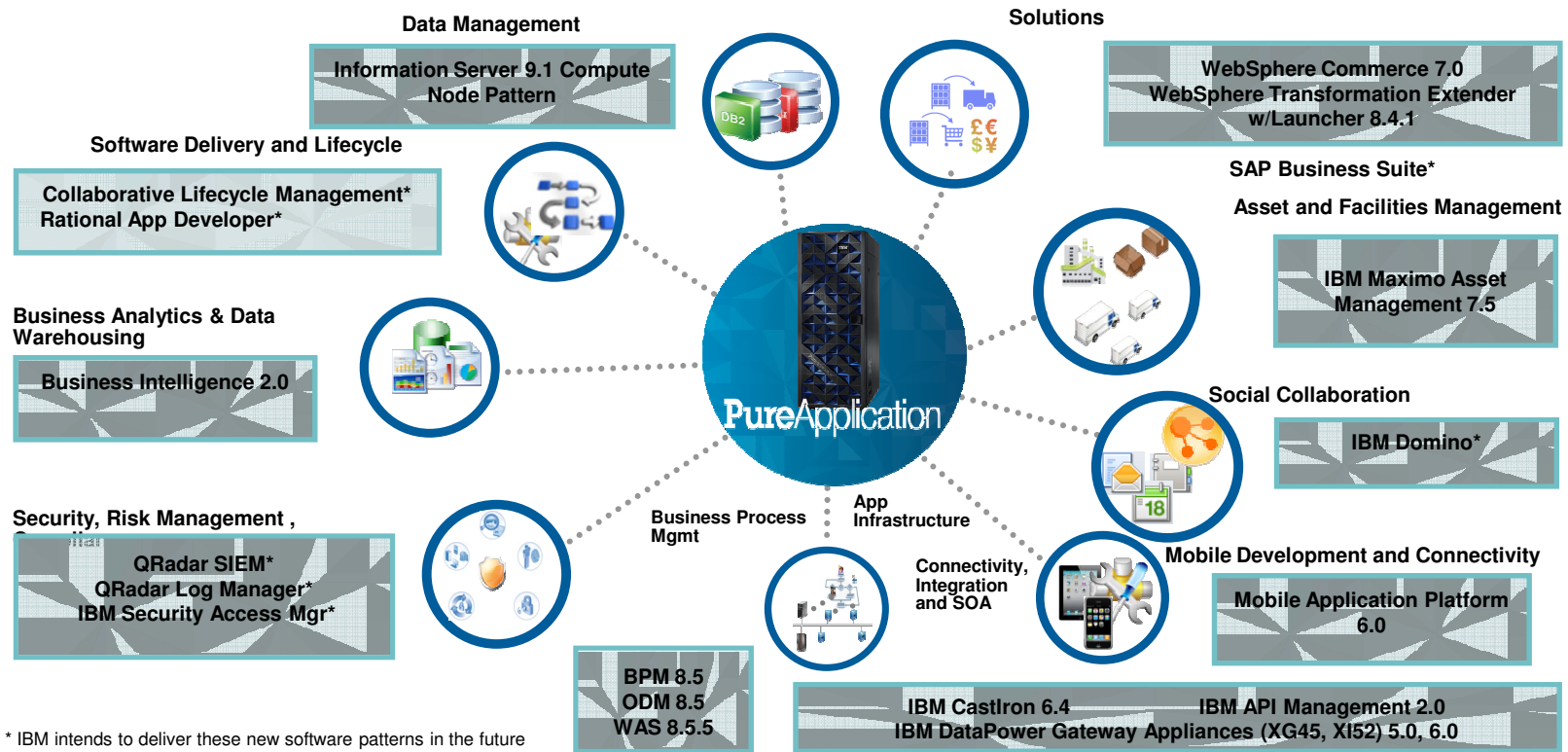- Lifecycle Management

- Expertise
- Repeatability
- Simplicity
- Agility
- Governance
- Elasticity
- Efficiency

PureApplication System: Continuous application level optimization and management

IBM

PureApplication

Monitoring
Lifecycle
Management

Deploy — Software application

Deploy

Deploy — Software application

Application Optimization

- Policy-based placement

- Application level prioritization

- Dynamic scaling of applications and VM resources

- High Availability of applications and individual VMs

- Mobility of VMs for performance, management and maintenance

- Performance optimization

- Application level isolation

- System, Application and VM level monitoring

- Multiple applications and middleware

IBM Patterns of Expertise Optimize Leading Software Capabilities for PureApplication System

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Data Management

Information Server 9.1 Compute Node Pattern

Software Delivery and Lifecycle

Collaborative Lifecycle Management*
Rational App Developer*

Business Analytics & Data Warehousing

Business Intelligence 2.0

Security, Risk Management,

QRadar SIEM*
QRadar Log Manager*
IBM Security Access Mgr*

Solutions

WebSphere Commerce 7.0
WebSphere Transformation Extender w/Launcher 8.4.1

SAP Business Suite*

Asset and Facilities Management

IBM Maximo Asset Management 7.5

Social Collaboration

IBM Domino*

Business Process Mgmt

App Infrastructure

Connectivity, Integration and SOA

Mobile Development and Connectivity

Mobile Application Platform 6.0

BPM 8.5
ODM 8.5
WAS 8.5.5

IBM CastIron 6.4   IBM API Management 2.0
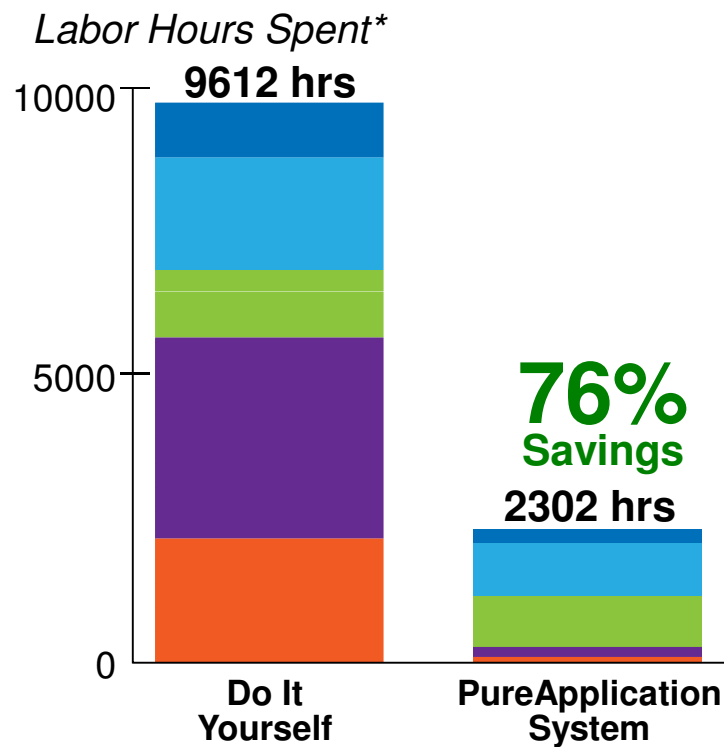IBM DataPower Gateway Appliances (XG45, XI52) 5.0, 6.0

PureApplication

* IBM intends to deliver these new software patterns in the future

"**Patterns of Expertise**" covering breadth of industries
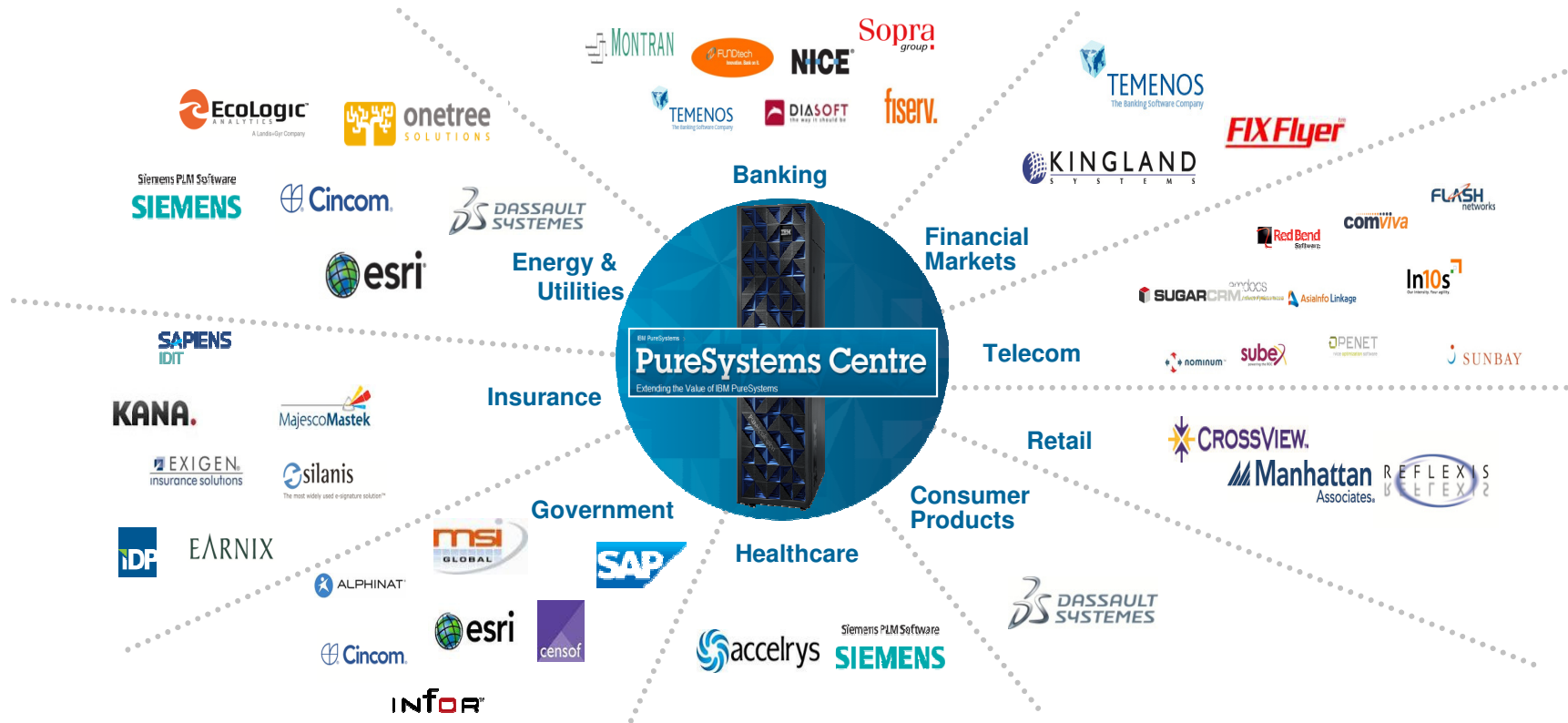
Example: IBM PureApplication System savings across the IT lifecycle

IBM®

Labor Hours Spent*

9612 hrs

10000

5000

0

76%
Savings

2302 hrs

Do It Yourself   **PureApplication System**

Deployment
Fully assembled and configured
Pre-installed management software
Fast pattern-based deployment

Incident/capacity management
Centrally monitor and resolve issues
Automatic scaling

Asset management
Track license usage of products

Security management
Centralized access control

Change management
Visibility into relationships of virtual
    images in a workload
Automatically apply changes to
    desired virtual servers

*Note: Do It yourself used 9 blades (144 cores). IBM PureApplication System used 3 nodes (96 cores). Each system has the capacity to run 72 workloads where each workload can sustain a peak throughput of 1720 page elements per second.

PureApplication System Demonstration

Tony Peterson - IBM