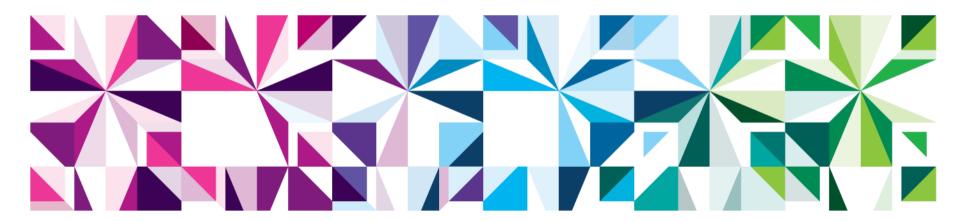


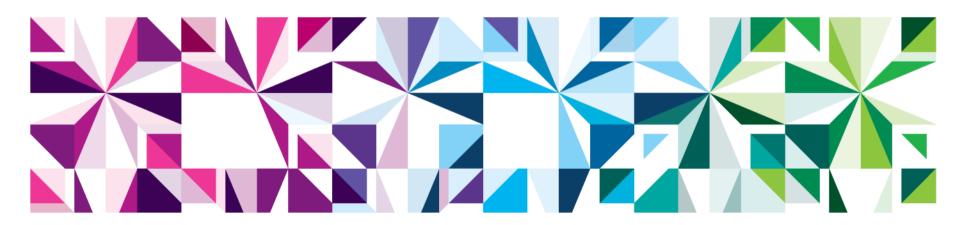
IBM Integrated Expertise: Unveiling a New Era of Computing





WELCOME

STEPHEN LEONARD, CHIEF EXECUTIVE, UK & IRELAND

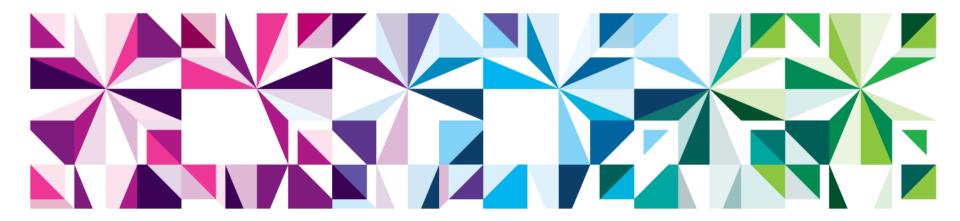


AGENDA

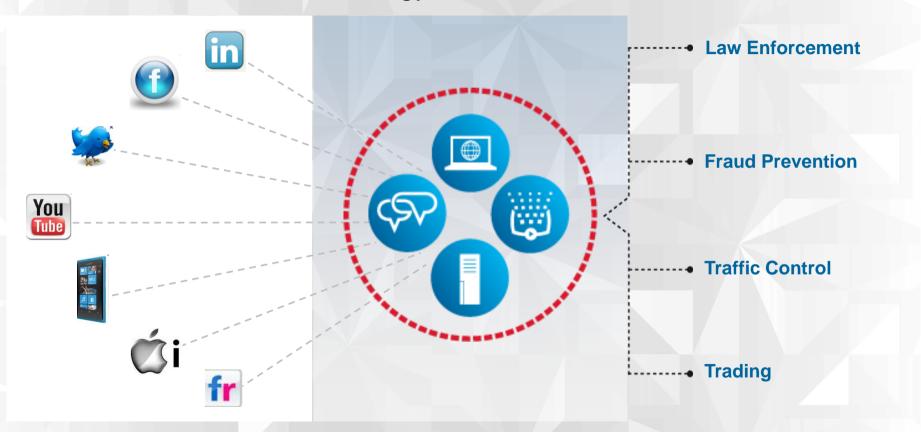
11.00 – 11.20	A New Era of Computing	Stephen Leonard, Chief Executive, UK & Ireland
11.20 – 11.45	Introducing a New Family of Expert Integrated Systems	Tom Rosamilia , Vice President Corporate Strategy and General Manager Enterprise Initiatives
11.45 – 12.10	Integrated Expertise The Project Troy Difference	Marie Wieck, General Manager, Application & Integration Middleware
12.10 – 13.00	Experience Panel	Panel John Schlesinger, Chief Enterprise Architect, Temenos Philippe Forestier, Executive Vice President, Dassault Systèmes Niall Norton, Chief Executive Officer, Openet Simon Withers, Head of Product Development, SunGard George Thaw - Chief Operating Officer UKI, SAP
13.00 – 13.05	Close	Stephen Leonard, Chief Executive, UK & Ireland
13.05 – 14.00	Lunch & Area of Expertise	



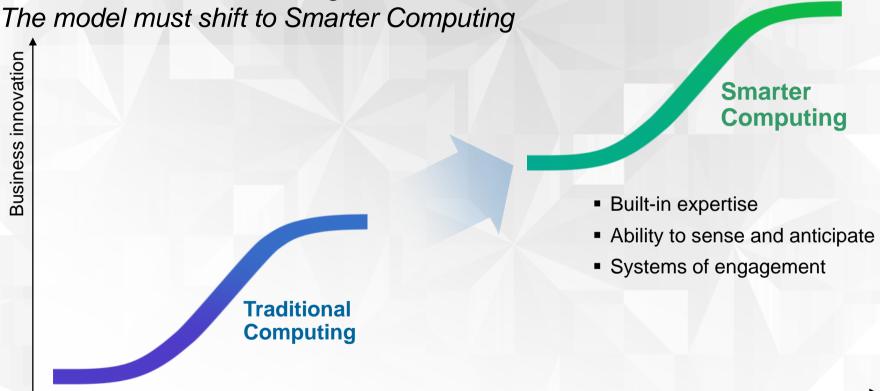
A New Era of Computing



On a Smarter Planet, technology innovation redefines industries









IT must break through budget and resource barriers

Business Goals

Grow top and bottom line by:

- Driving business innovation
- Make new markets
- Respond to competitive threats
- Enhance the customer experience



Typical Results:

- 23% of new IT projects (worldwide) deploy late
- 55% experience application downtime for major infrastructure upgrades once deployed

IT Reality

Getting Up and Running

- 2-3 months to specify and procure
- 2-3 months to integrate, configure and deploy

Development Operations

 3-6 months to go from development to production

Ongoing Effort

- 1-3 months to troubleshoot and tune
- Ongoing effort and downtime to maintain, scale and upgrade

Only 1 in 5 can allocate more than half their IT budget to innovation

Least efficient data centres

Use of new technology:

43% first and fast technology adoption

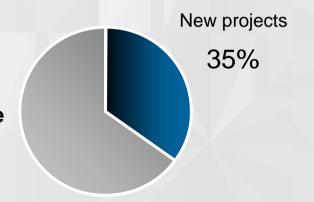
1% move virtual machines to meet desired outcomes

21% use storage virtualization

3% use a storage service catalog (tiered storage)

Results:

Maintaining existing infrastructure 65%



Most efficient data centres

Use of new technology:

86% first and fast technology adoption

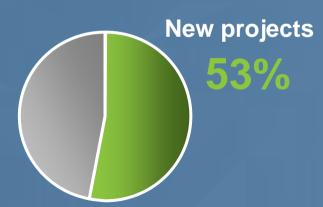
58% move virtual machines to meet desired outcomes

93% use storage virtualization

87% use a storage service catalog (tiered storage)

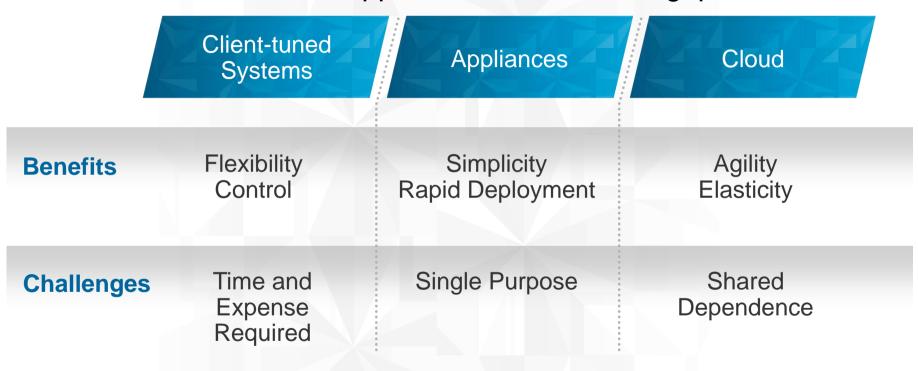
Results

Maintaining existing infrastructure 47%





Clients have tried various approaches to close the gap



What if you could have the best of all three?

The time has come for a new breed of systems

Systems with integrated expertise and built for cloud

Built-in Expertise

Capturing and automatingwhat experts do – from infrastructure patterns to application patterns



Integration by Design

Deeply integrating and tuning hardware and software – in a ready-to-go workload optimized system

Simplified Experience

Making every part of the IT lifecycle easier - with integrated management of the entire system and a broad open ecosystem of optimized solutions



The world's first family of expert integrated systems

Announcing the first two members of the IBM PureSystems family

PureFlex

Infrastructure System: Expert at sensing and anticipating resource needs to optimize

your infrastructure



PureApplication

Platform System: Expert at optimally deploying and running applications for rapid time-to-value



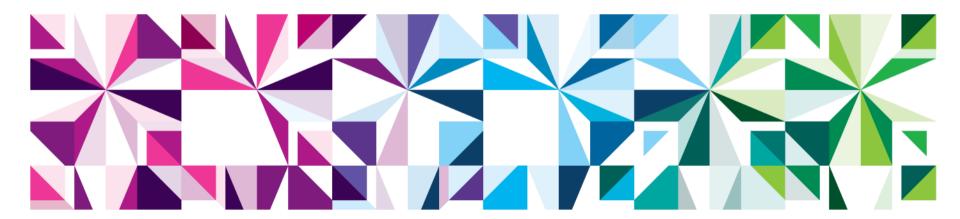
Built-in expertise • Integration by design • Simplified experience



Tom Rosamilia

Vice President, Corporate Strategy and General Manager, Enterprise Initiatives

Introducing a New Family of Expert Integrated Systems





Announcing the first two members of the IBM PureSystems family

PureFlex

Infrastructure System:
Expert at sensing and anticipating resource needs to optimize your infrastructure



PureApplication

Platform System: Expert at optimally deploying and running applications for rapid time-to-value



Built-in expertise • Integration by design • Simplified experience

IBM PureFlex: an evolution in design, a revolution in experience Smarter computing that fundamentally changes the economics of IT

Built-in Expertise

Infrastructure patterns and selfoptimizing 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

IBM. Ö

Built-in Expertise

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

Up to:

Smart data 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



Integration by Design

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

Up to:

Intelligent cloud technology

2X application density in same floor space

50% improvement in administrator productivity

Security innovation

O 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



Simplified Experience

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

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



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What can this mean for clients? Reduced cost. Greater value.

Managed services provider can consolidate mixed environment

\$2.6M systems and OPEX savings (71%)

\$2.0M management savings (53%)

Manufacturer can optimize existing ERP environment

\$3.8M software licensing savings (78%)

9 months payback

Bank can innovate in response to market conditions for competitive advantage

1 day or less to deploy new service and realize revenue faster (vs. weeks)

Retailer can accelerate private cloud for regional store operations

~\$1M management cost savings (56%)

\$2.8M lower total IT costs (54%)

Expert integrated systems

Simplified Experience



Runs tens of thousands of applications, with over 100 optimized for PureSystems



IBM PureFlex System

Infrastructure Flex-ability to meet a variety of client needs

Built-in Expertise

Integrated by Design

Simplified Experience



A continuum of expert integrated systems that delivers value from the moment of acquisition

Express

Infrastructure for small and midsize businesses

Standard

Infrastructure for cloud deployments and server consolidation

Enterprise

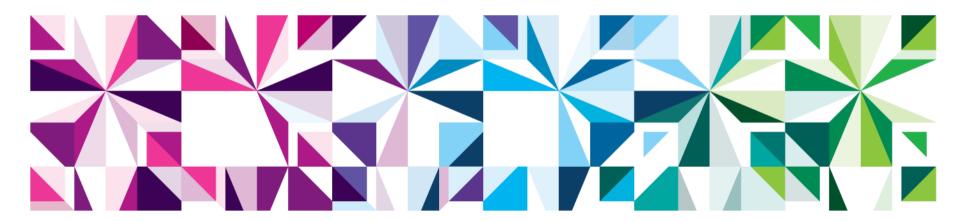
Infrastructure for large-scale deployments; highly redundant for resilient operations



Marie Wieck

General Manager, Application & Integration Middleware

Integrated Expertise The IBM PureSystems Difference





Announcing the first two members of the IBM PureSystems family

PureFlex

Infrastructure System:
Expert at sensing and anticipating resource needs to optimize your infrastructure



PureApplication

Platform System: Expert at optimally deploying and running applications for rapid time-to-value



Built-in expertise - Integration by design - Simplified experience

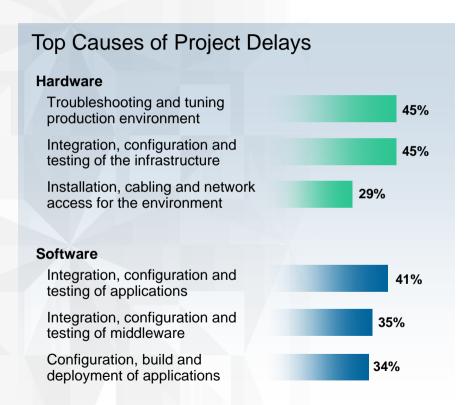


Clients struggle to overcome barriers of time, cost and risk

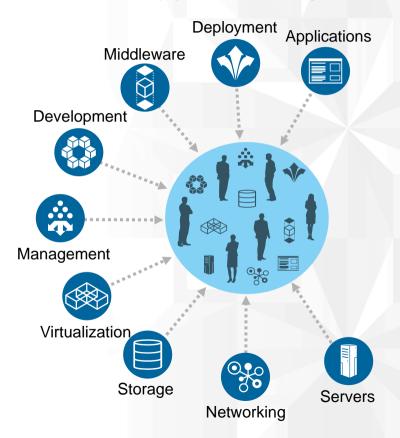
Typical IT Project Time and Budget

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%

34% of new IT projects (US) deploy late



IBM PureApplication System



Optimizes the complete solution stack:

- All hardware and software components factory integrated and optimized
- Single point of unified lifecycle management
- Integrated monitoring & maintenance
- Integrated and elastic application and data runtimes
- Application patterns allocate system resources for optimal performance, security and reliability



IBM PureApplication System: the expert integrated platform system

PureApplication

Built-in Expertise

Patterns of expertise built from decades of experience extend business value



Integration by Design

Resource and workload optimized with complete platform-as-a-service cloud capabilities built-in

Simplified Experience

An open, integrated system enabling business model and ecosystem flexibility with a single pane of glass to manage both the infrastructure and application platform

Built-in Expertise

Capturing and automating what experts do – from the infrastructure pattern to the application pattern

tuned for the task

Pre-optimized for enterprise application workloads

smart

Workload patterns codify IBM, Partner, and client expertise

mission critical

Resilient, secure, virtualized, and scalable infrastructure

Clients have experienced:

Captures up to 80% of today's workloads

Reduced time to provision from 45 days to minutes



Integration by Design

Deeply integrating and tuning hardware and software – in a built for cloud, ready-to-go workload optimized system

lower risk Repeatable, self service provisioning

Integrated and elastic scalable application and data runtimes

workload optimized Application-aware workload management

Clients have experienced:

20-30 times faster new application deployment

55% reduction required management time

lastic lata runtimes e workload **Pure**Application

Source: externally published customer case study data for existing capabilities that are include in PureApplication System

Simplified Experience

Making every part of the IT lifecycle easier – with integrated management and a broad, open solution ecosystem

epen Easy to integrate and deploy including JAVA, PHP, Ruby ...

management Single point of platform management management

lifecycle Integrated monitoring & maintenance

Up to:

53% Reduction change management

incident/capacity management reduction by 57%

*ureApplication

Design matters: inheriting infrastructure **FLEX**-ibility

Application patterns from IBM and partners

Integrates an application platform optimized for enterprise applications

Inherits the capabilities of PureFlex System

Patterns of Expertise: A deployable form of proven best practices and expertise to simplify complex tasks.

Application Platform

- Application Optimization
- System wide Management
- Automation & Scaling
- Caching & Elasticity
- Application Centric Provisioning
- Usage Metering

- Security
- Monitoring
- IT Lifecycle Management
- License Management
- Self-service
- Data management

System Infrastructure

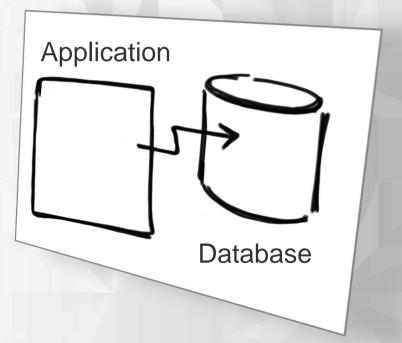
- Integrated Server, Storage, Network
 Provisioning
- Power Management
- Storage & VM Optimization
- Virtualization
- Integrated System Management

- Security
- Monitoring
- IT Lifecycle Management
- System design

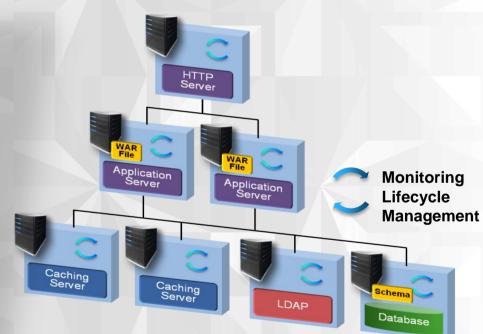


Patterns accelerate business value

What the business wants...



What's required...



Built-in web application pattern delivers proven expertise

Auto Scaling	Managed environments scale up and down based upon business SLAs you specify
Failover	Failed virtual machines are replaced with new VMs which are configured with the old VM's identity
Load Balancing	Web requests are automatically load balanced across multiple virtual application servers
Security	ACL's for application sharing and management access; LDAP integration for application security
Monitoring	All components of virtual application environments are monitored by PureApplication System
Lifecycle Management	Built-in components are pre-configured, tuned, and tested to enable efficient, minimal click deployment



Three ways to get the value of patterns of expertise

Add **third-party** application patterns of expertise

Use **IBM** patterns of expertise throughout the system



Capture your own expertise:

- Image Construction & Composition Tool allows you to create your own custom virtual images
- Pattern Development Kit allows you to create your own virtual application patterns.
- Capture existing expertise for operating system and middleware installation
- Dynamically combine pre-defined components to build new image packages
- Create a standard VM format in Open Virtual Format

Capture 80% of today's workloads



IBM and partner "patterns of expertise" extend the system value

Application Patterns Available patterns from IBM and Partners

100+ ISV business applications
Business intelligence
Business process management
Web experience (portal)

Available through PureSystems Centre

Platform Patterns

Expertise across the middleware and infrastructure

Web application deployment
Database deployment
Cloud platform management

Built-in with flexibility

Infrastructure Patterns

Expertise across the compute resources

Scalability Upgradability

Provisioning Storage optimization

Extensibility from the broadest ecosystem is made easy



New IBM PureSystems Centre:

- Gain access to a broad community of IBM and certified partner expertise
- Download optimized, deployable application patterns from 100+ leading ISV partners
- Search by solution area, industry or system
- Download fixes and patches
- Access to developer community





Also run your existing

applications today*





Kingdee金蝶





SUGARCEN







北京东蓝数码科技有限公司















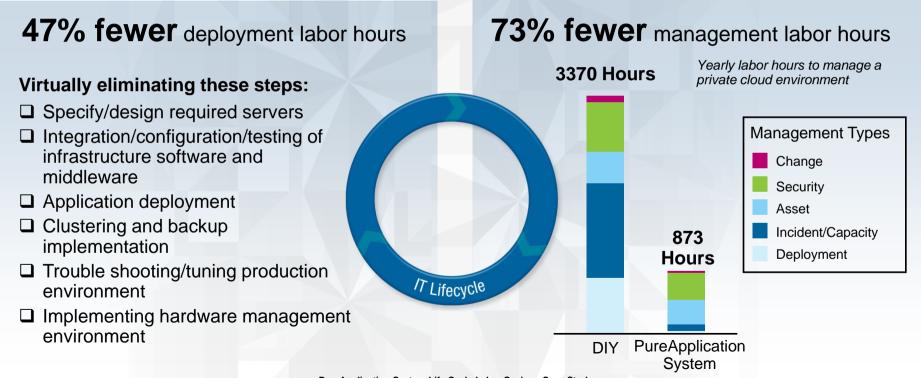
IBM PureApplication System is built for cloud

Characteristics of a Cloud:

Dynamic resource scalability Highly standardized infrastructure Multi-tenancy Virtualization Automated provisioning of IT resources Catalog of services User-based self-service Service level management Usage-based reporting



IBM PureApplication System delivers value throughout the IT lifecycle Driving efficiencies across these areas:



PureExperience: IBM's investment to prove it

IBM PureExperience Offers the following at no charge:

- On-site installation of PureApplication System and guided demonstration of business value
- 2. Free execution of a 10 day *PureStart* onsite service engagement
- 3. Continued use of the PureApplication System for 30 days, inclusive of *PureStart*
- 4. Access to a lab advocate for usage questions and advice
- 5. Single point of IBM support and maintenance



IBM PureApplication System

Consolidate and optimize to drive innovation and accelerate cloud adoption

Built-in Expertise

Integrated by Design

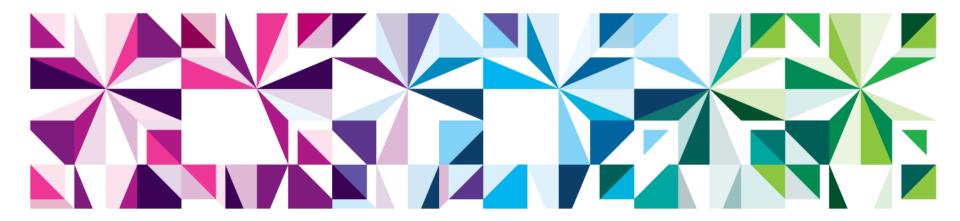
Simplified Experience



- Consolidate your application infrastructure to help reduce operating costs
- Optimize existing applications for improved performance and stability
- Innovate to help you be more competitive and responsive to changing business requirements
- Accelerate cloud adoption to help quickly deploy new services and solutions

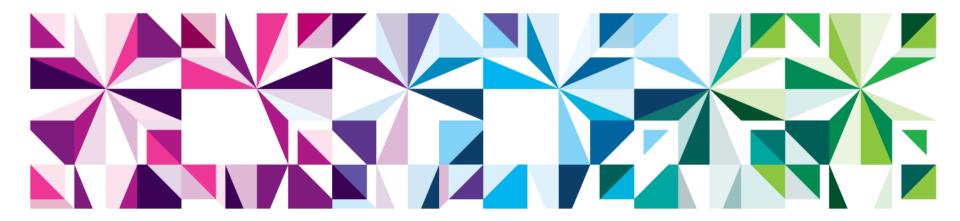


Experience Panel





Closing – Next Steps



100 years of experience delivering essential IT

- 19 years as top U.S. patent recipient
- Since the beginning of 2000, we've spent nearly \$70 billion in research and development
- 250k technical experts worldwide
- Market leading systems and software
- Global financing with flexible payment options
- Commitment to open standards
- Broad open ecosystem of 120k partners





Take the next step...

Prove the value and begin your journey with IBM PureSystems:

- Visit <u>www.ibm.com/puresystems</u> to learn more
- Invite an IBM subject matter expert to explore with your team the value IBM PureSystems could bring to your business
- Tell us what you think join the conversation on twitter @IBMPureSystems & on expertintegratedsystemsblog.com



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