



IBM Linux

Building On Demand Business With IBM @server and Linux

Brian Connors
Vice President
WW Linux on POWER Business Line



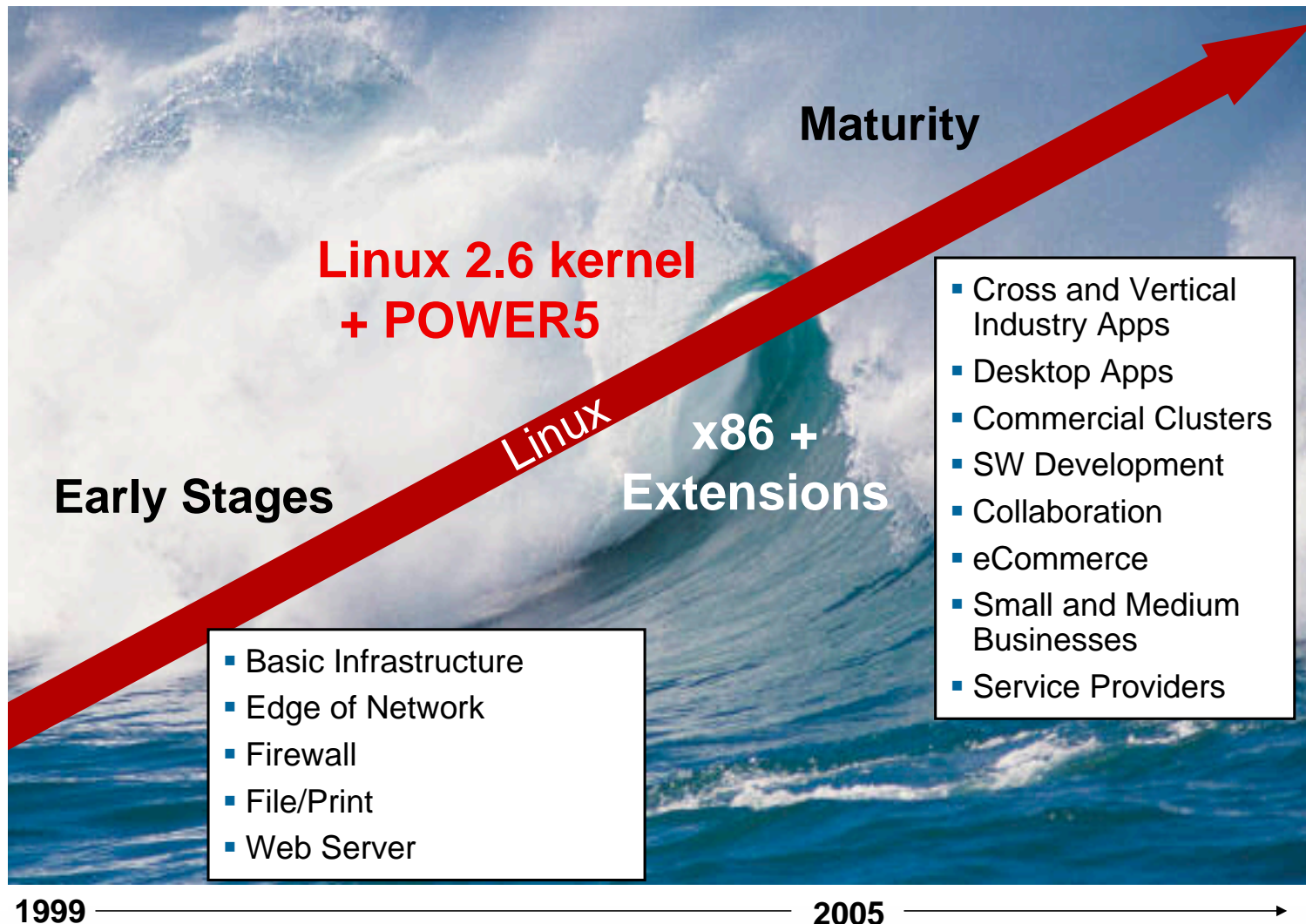
Linux Market Dynamics

Business Drivers

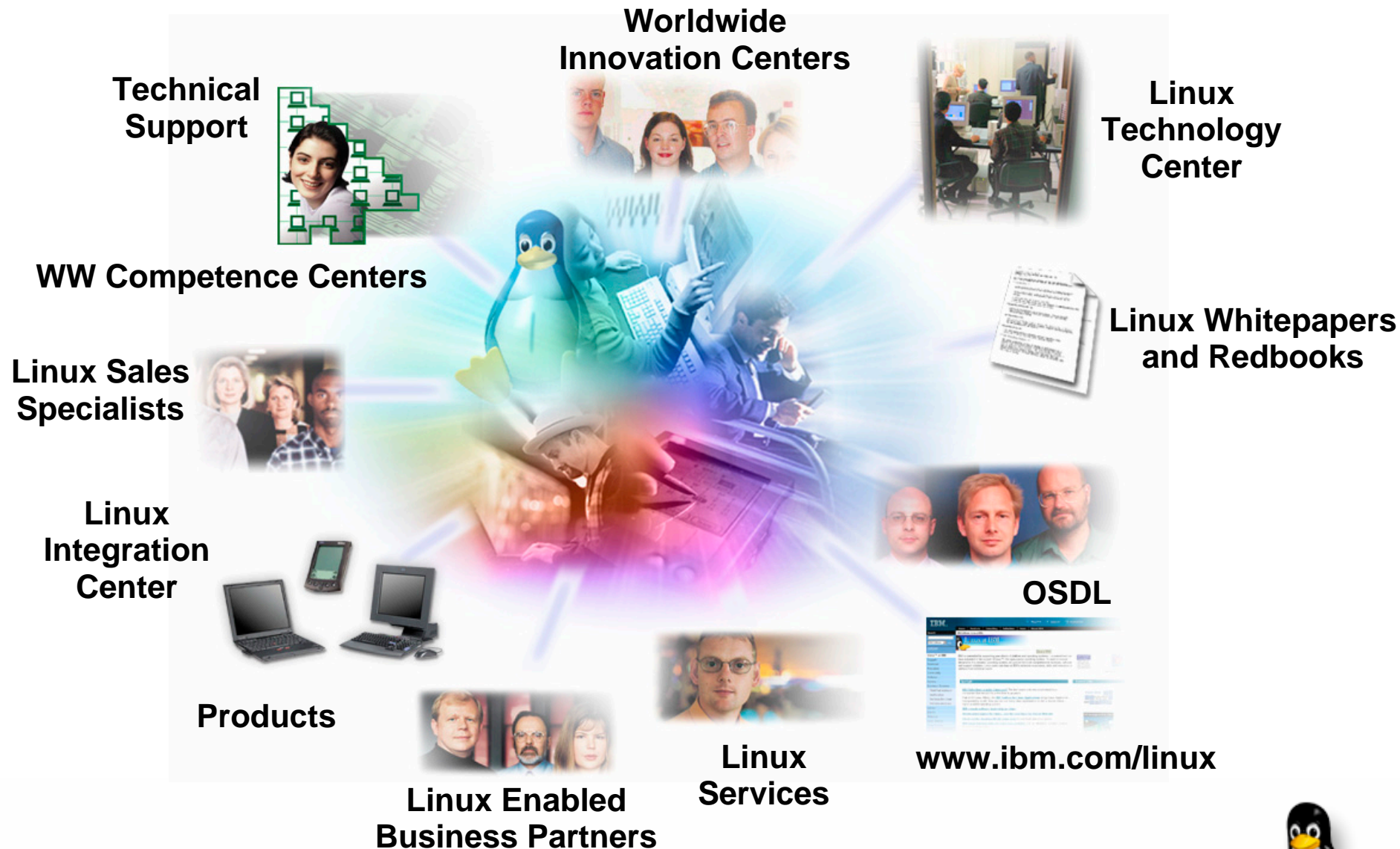
- Reliability
- Acquisition Cost
- Performance
- Value of Open Source

Technology Enablers

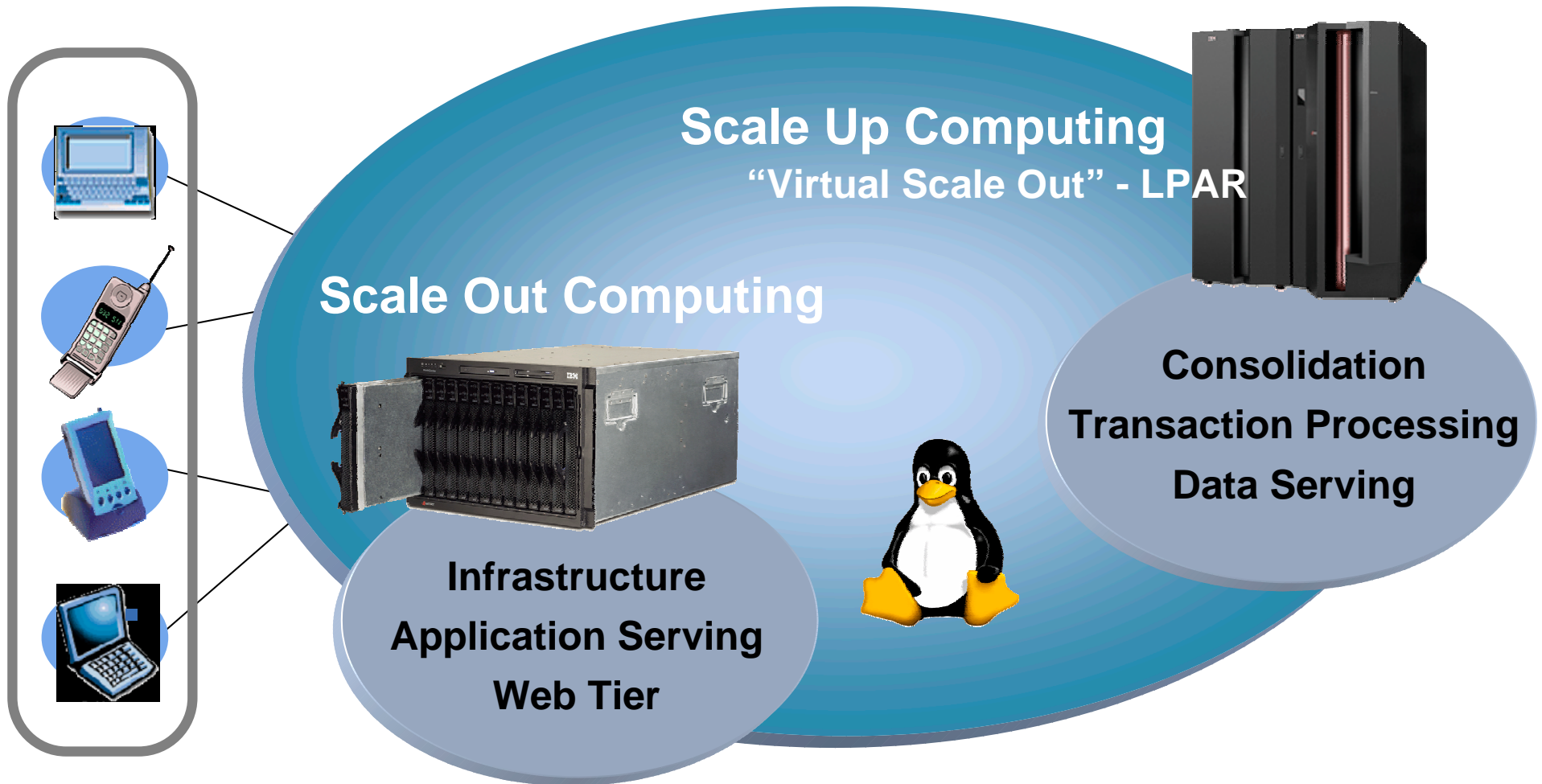
- Kernel Development
- Open Standards
- Hardware variety
- Middleware
- Applications



IBM Commitment to Customers



Linux as a Diverse Enterprise-Class Solution



**A mature operating environment...
requires a mature hardware platform**

IBM @server Platform Flexibility

@server
Linux OS Offerings



IBM @server
xSeries®

IBM @server
BladeCenter™
HS20 / JS20

IBM @server
i5 / iSeries™

IBM @server
p5 / pSeries®

IBM @server
zSeries®



Linux



What's New: Linux on POWER

Systems tuned for Linux and ecosystem support

- POWER5™ Leadership
- 2.6 kernel in 64-bit Linux distributions for POWER™
- POWER5 + 2.6 kernel = Leadership tuned systems
- Expanded ISV and developer programs
- Momentum with customers

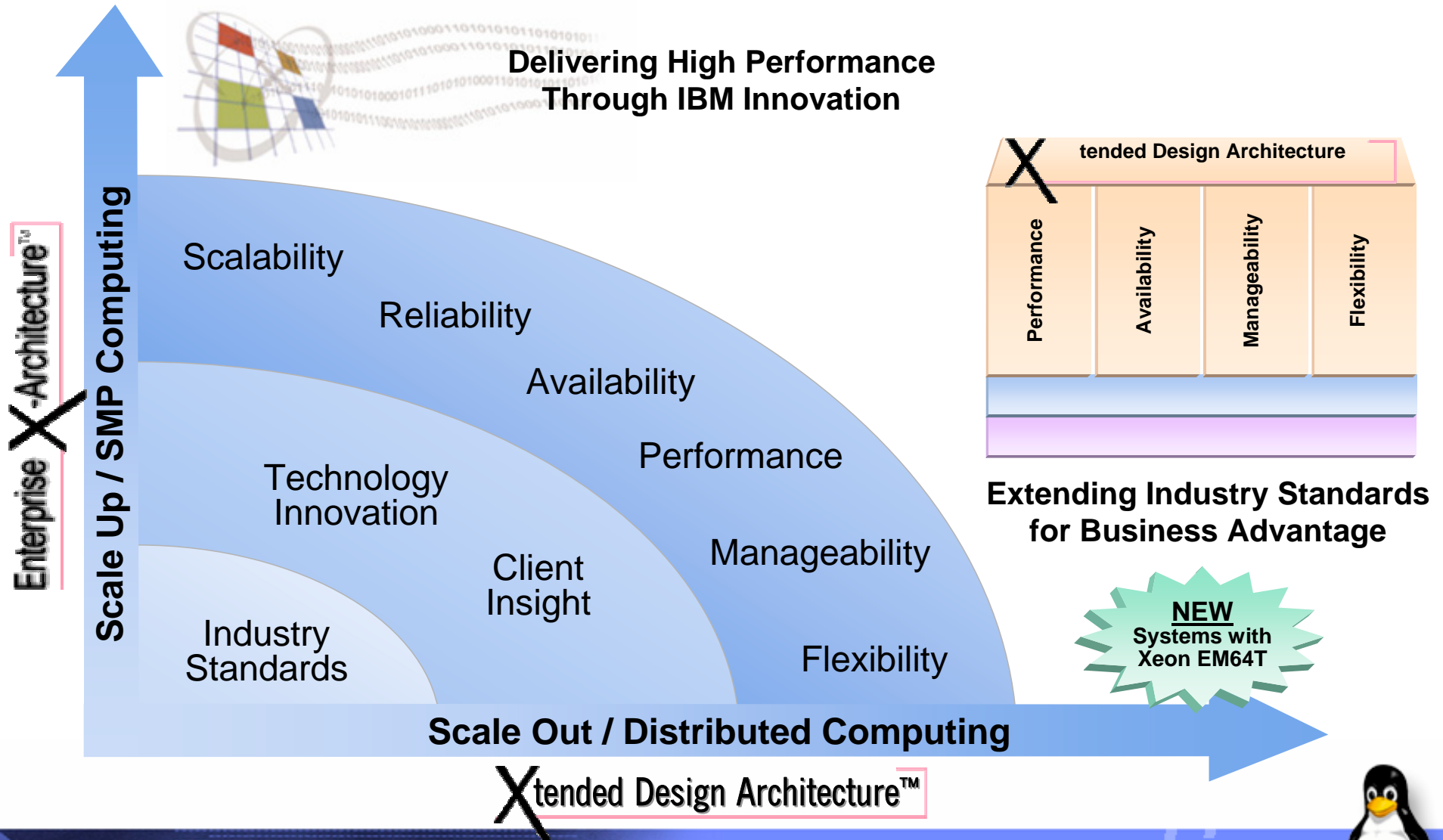


A robust, scalable platform for mission-critical Linux

New X-Architecture Implementation:

Mainframe-Inspired Technologies in the Industry Standard Market

Delivering High Performance
Through IBM Innovation



Linux and @server On Demand

- Increase business flexibility
- Drive innovation in business
- Optimize IT investments
- Ensure security and resiliency





IBM Linux

Medical College of Wisconsin Innovating Research with IBM @server and Linux

Simon N. Twigger, Ph.D.
Assistant Professor
Department of Physiology
Medical College of Wisconsin





“We’ve used a variety of hardware systems in the past, but we’re looking to push the limits of proteomics research and we needed a technology platform that could keep up, and IBM and the BladeCenter family was the way to go.”

Dr. Andrew S. Greene

Professor of Physiology

Director, Biotechnology and Biomedical Engineering Center

Medical College of Wisconsin



IBM *e*server

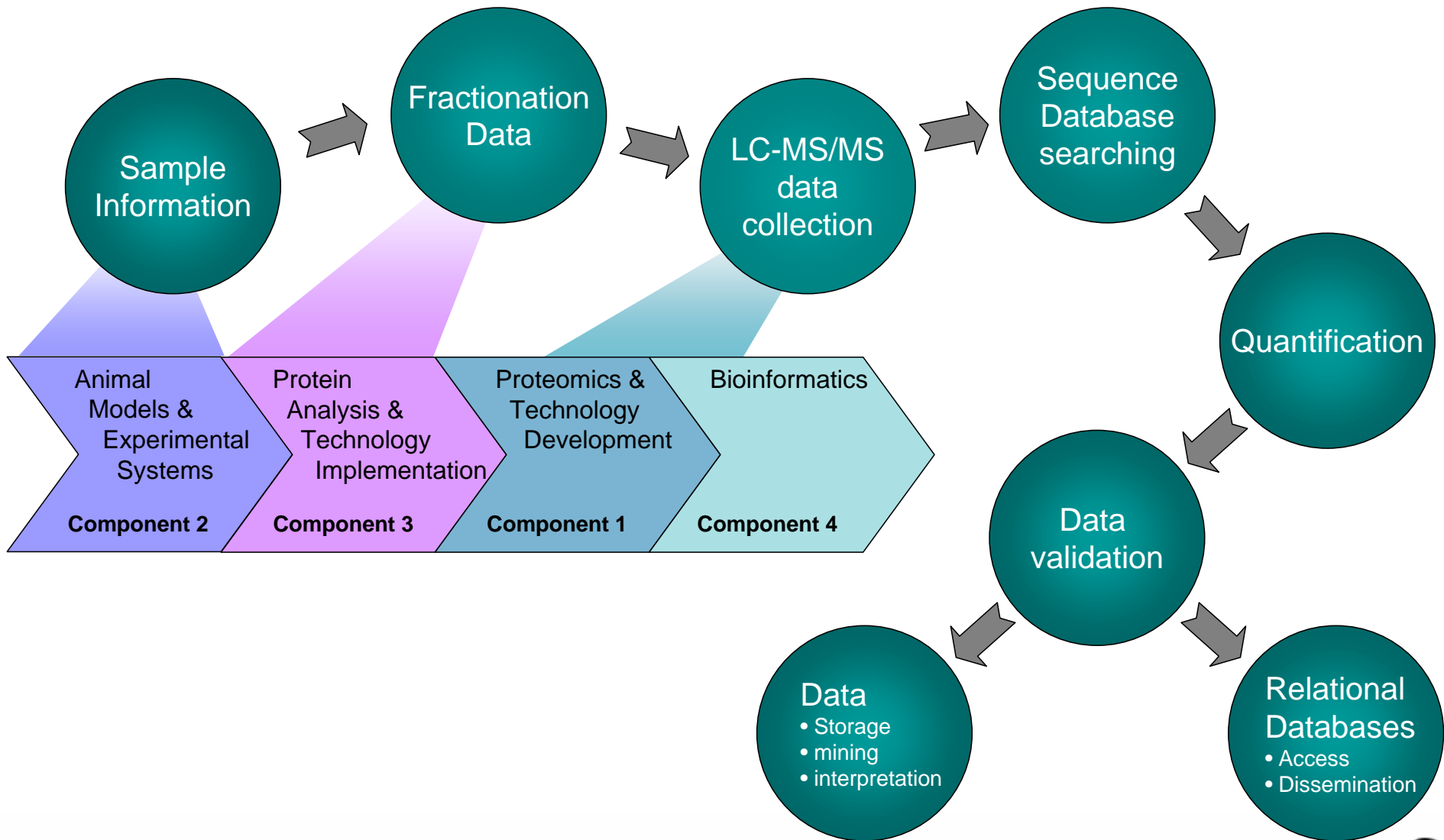


BladeCenter JS20

Linux



Informatics Requirements



From Patterson & Aebersold, Nat. Genet. 33:311-23 (2003)

Medical College of Wisconsin

Leading National Medical College Implements Linux on POWER

Challenge

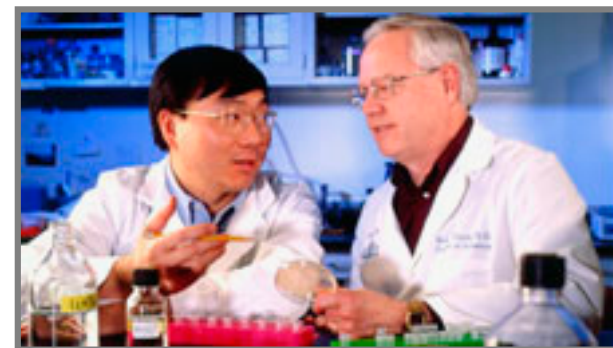
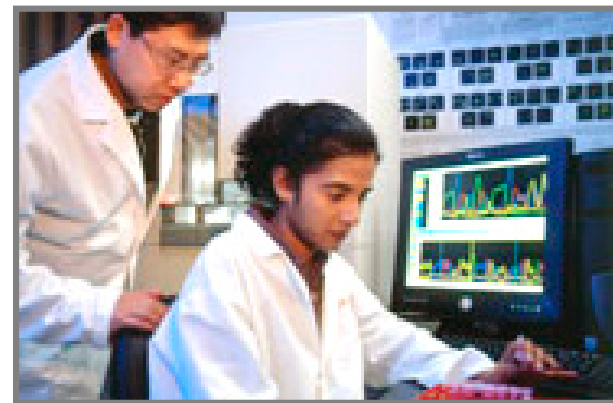
- Need to deliver powerful, yet flexible applications and infrastructures to access new techniques in proteomics research

Solution

- Implement IBM eServer BladeCenter JS20 running SUSE® LINUX and Sequest application for analysis of proteomic data

Benefit

- 64-bit POWER architecture provides high-throughput and performance to support innovative new techniques and improve proteomics research
- Linux provides significant flexibility and improved staff productivity
- Smaller footprint, reduced cabling, hot-swappable drives, and highly scalable system for future growth





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