



SUN TECH DAYS 2005-2006
A Worldwide Developer Conference

Innovation Happens Here.

Innovation at Sun

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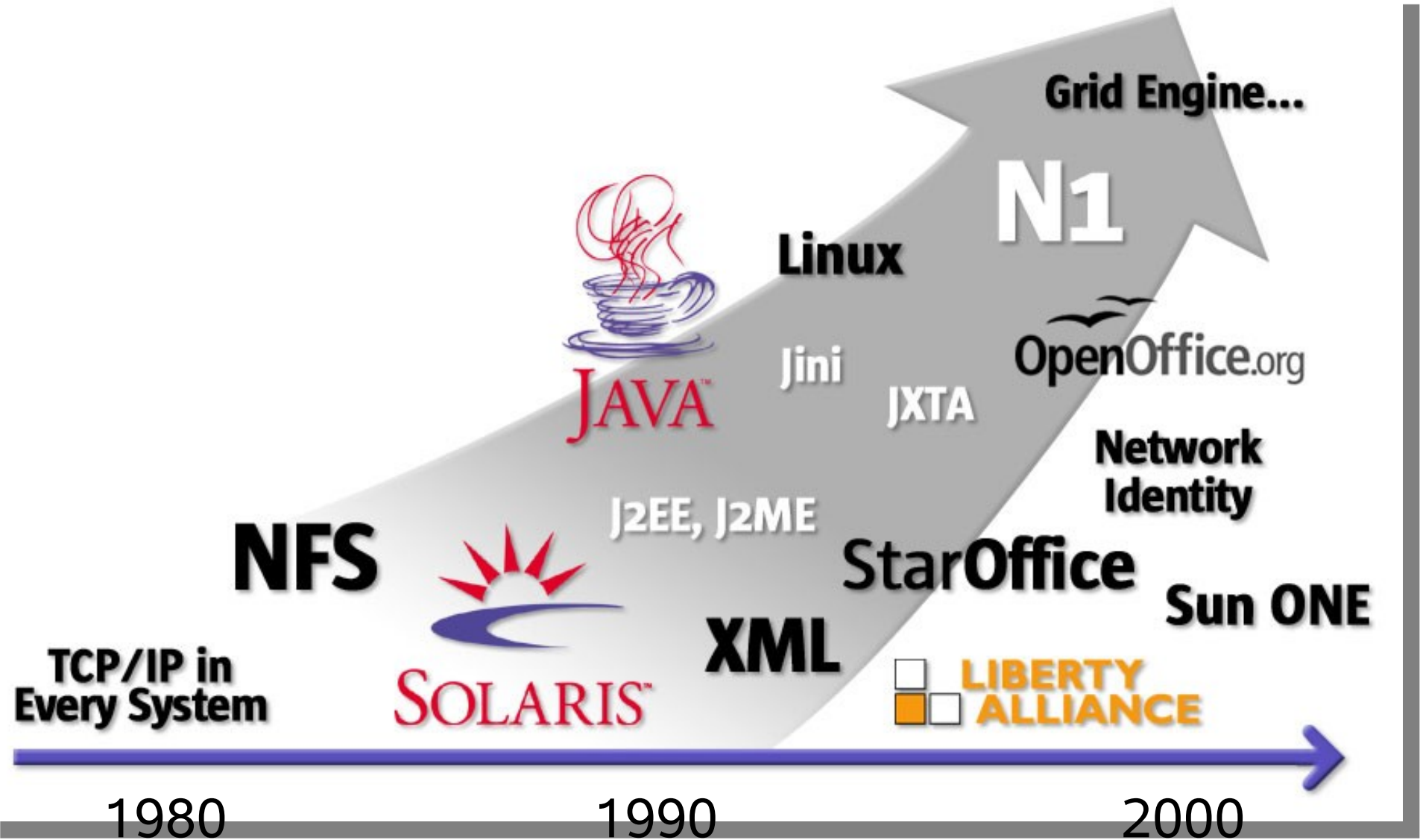
**Today's Presentation Slides
Will be available from**

www.javapassion.com

Innovation Is Changing The Game

- Network is still the computer
- Solaris 10
- Open source and Sun
- Java innovation
- Java tools
- Fun things we do

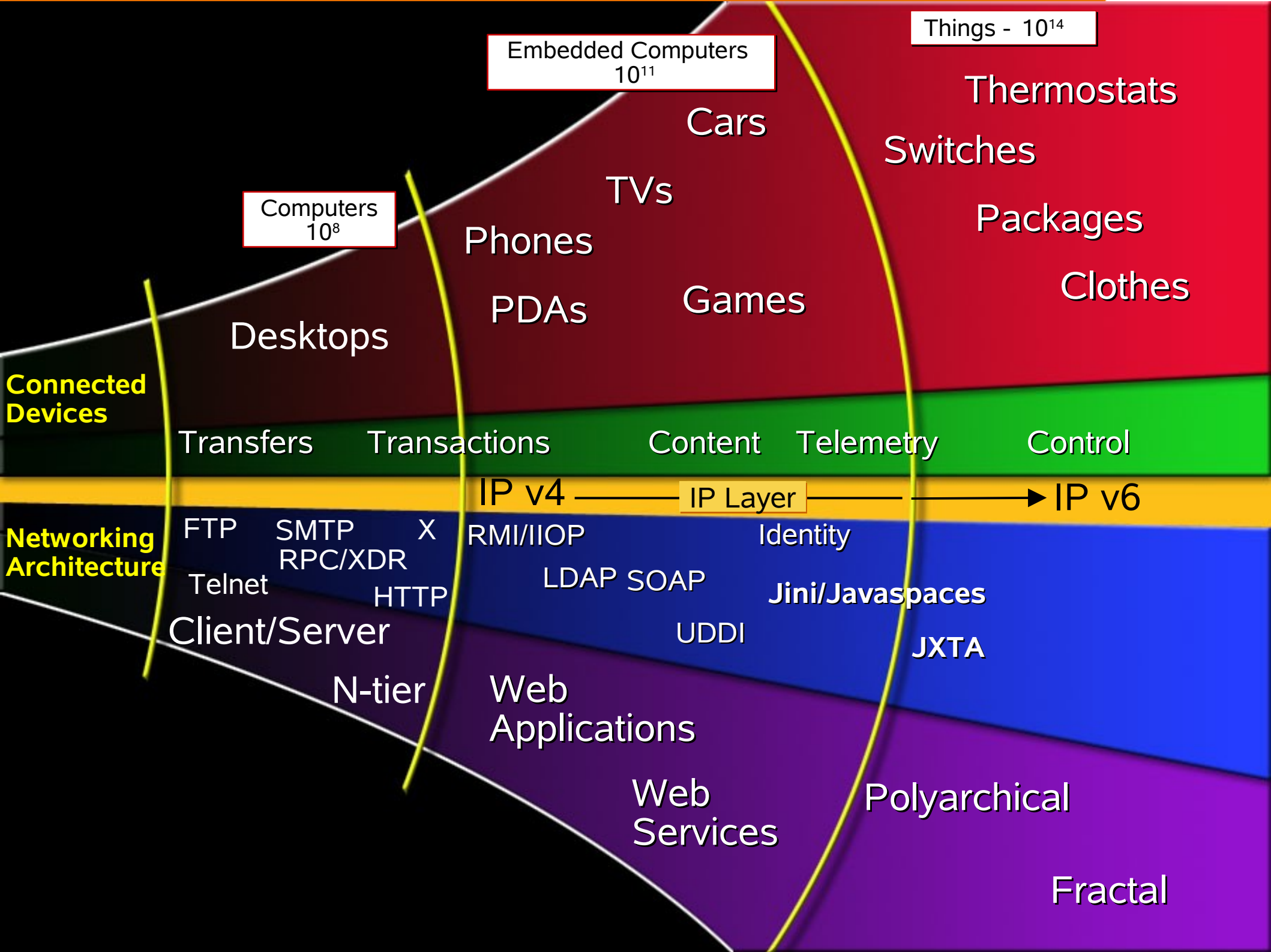
A History of “Significant” Software Innovation



Network Is Still The Computer!

Computing "Laws"

- Moore's Law
 - > Computing speed roughly doubles every 18-24 months
- Gilder's Law
 - > Network bandwidth capacity doubles roughly every 12 months
- Metcalfe's Law
 - > The value of a network grows exponentially as the number of nodes increases
 - > This is where future opportunities lie
 - > Level-playing field
 - > Blogging, eBay, Online games, Instant messaging, Google, Flickr, MySpaces



Sun is a Leader in RFID Technology

WW installed, 2012

Traditional
Network
Devices



17 Billion

1 Trillion!

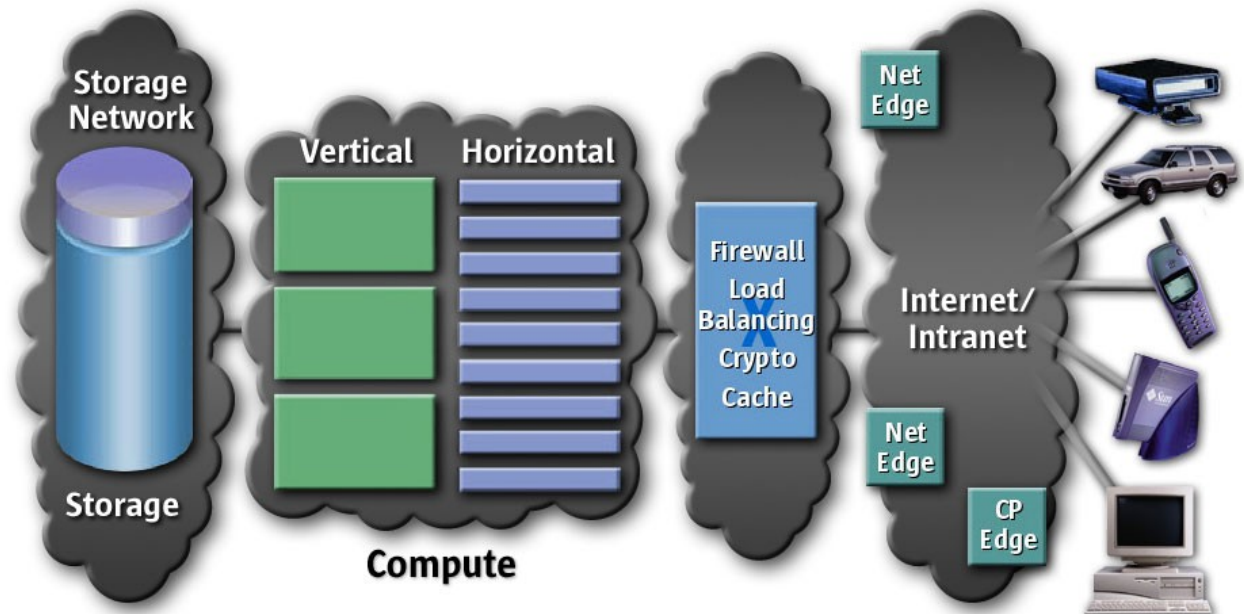


Sun Pioneers Utility Computing

- Use the computing resources like we use electricity
 - > Simple to use: plug & play
 - > Complexity is hidden
 - > Use it as much as you want and only when you want
 - > Metered pricing
 - > Resources could be
 - > Computing resources
 - > Storage resource
 - > Printing resource
 - > Software resource
- Software as a service
 - > As opposed to shrink-wrap model

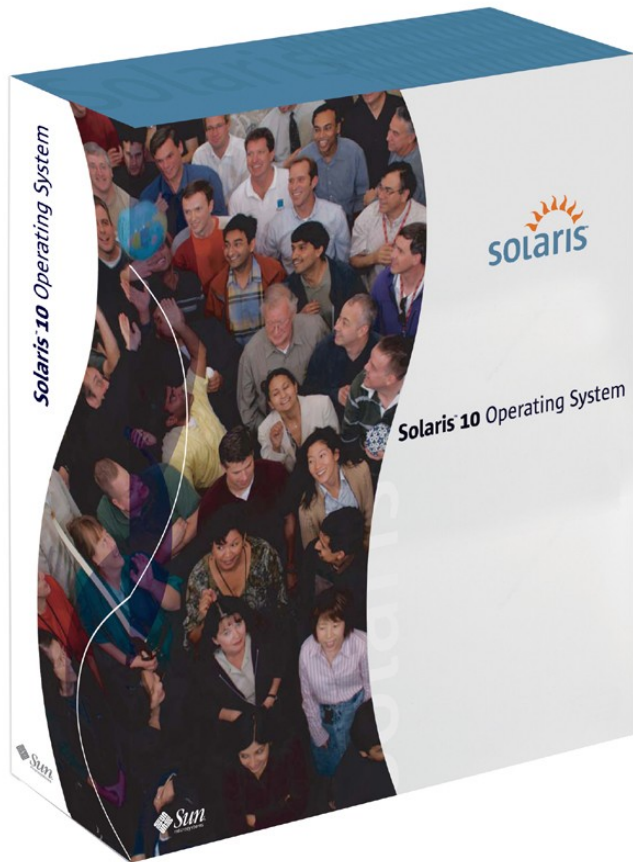
N1: Virtualization of Resources

- N1 **provisions** storage, compute, and network
- N1 **manages** service levels
- N1 **meters** resource utilization



Reduce Costs, Improve Service Levels and Increase Agility through Virtualization of Resources

Solaris 10



Solaris 10

OS performance

Dynamic Tracing (DTrace)

Solaris Containers

Predictive Self-Healing

Secure Execution

... and Much More

Open Source and Sun

Open Source and Sun

Sun Initiated and Sponsored

openSOLARIS™

SPARC Jini.org

netBeans.ORG

Java.net

LIBERTY ALLIANCE PROJECT

Java Community Process

PROJECT LOOKING GLASS

BigAdmin*

javatools community

OpenOffice.org

GRID ENGINE

NFS

SDN Sun Developer Network

JXTA

WBEM Services

Open Source

Standards and Industry Groups

mozilla

The Apache Software Foundation

GNOME

BSD

OSDL

cen

ISO JTC1 IEC INFORMATION TECHNOLOGY STANDARDS

ITU

IEEE

GGE

IETF

OASIS

DMTF distributed management task force, inc.

the globus consortium

ETSI

WS-I

OBJECT MANAGEMENT GROUP

THE Open GROUP Making standards work™

W3C

Java Technology Innovation

Java Is Everywhere!

Auto

Maytag
 Best Buy
 OSGI
 Chrysler
 GM
 Ford
 onstage
 Telematics
 ...

TV

DVB
 CableLabs
 DTVIA
 Liberate
 SA
 ATSC
 Sony
 Philips
 Panasonic
 Samsung
 LG
 ...

PDA/Phone

Nokia
 Ericsson
 Motorola
 Samsung
 Siemens
 Palm
 Compaq
 Sony Ericsson
 Sharp
 Toshiba
 Sanyo
 Hitachi
 Panasonic
 Fujitsu
 NEC
 ...

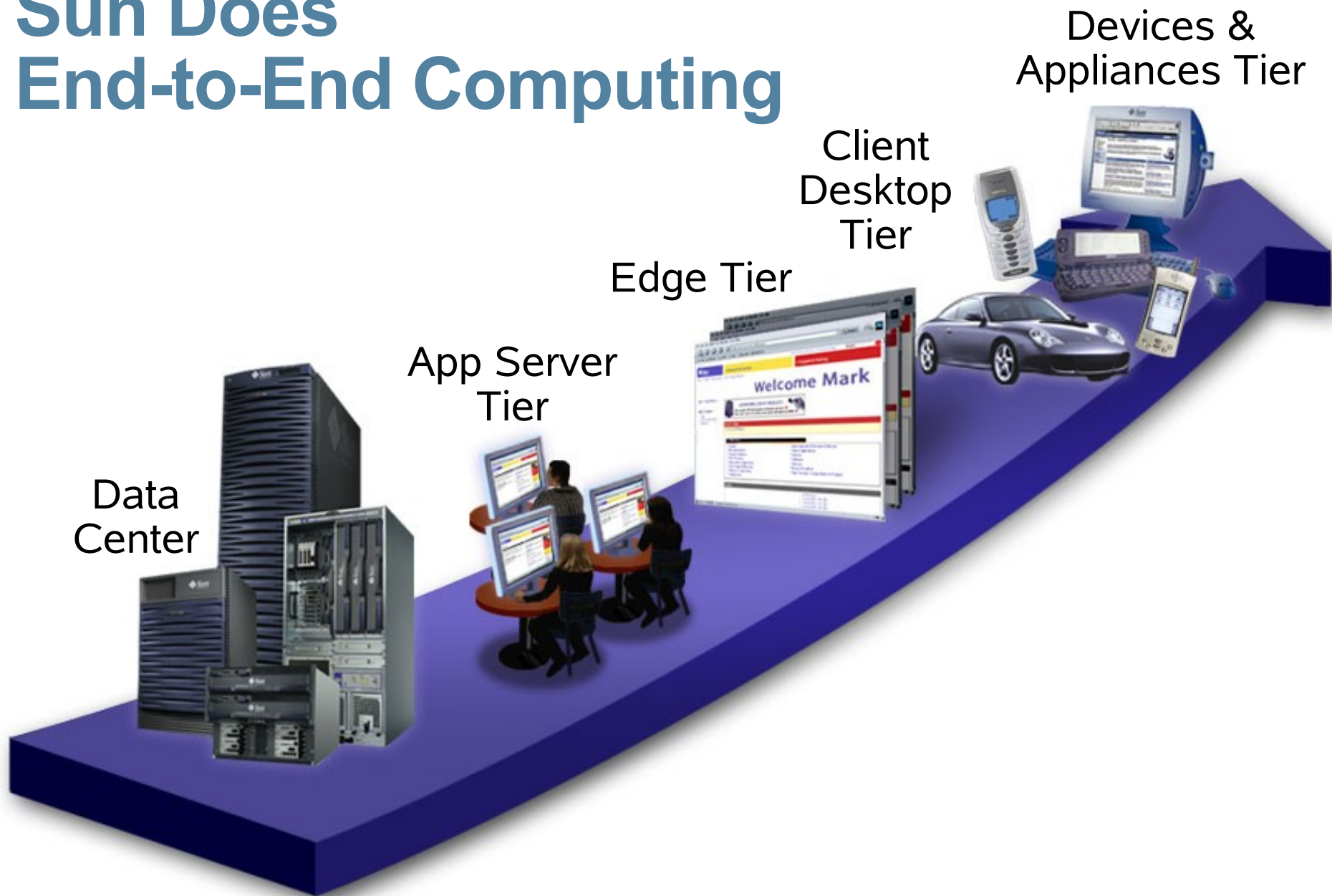
Service Providers

Nextel
 NTT DoCoMo
 Vodafone
 AT&T Wireless
 Bell
 Telus
 T-Mobile
 Telia
 Sprint PCS
 Telefonica
 TIM
 Sonera
 J-Phone
 SingTel
 LG TeleCom
 ...

Cards & Equipment

GSM SIM
 American Express
 Visa
 Schlumberger
 Oberther
 Giesecke &
 Devrient
 Gemplus
 ...

Sun Does End-to-End Computing



Java Technology Platforms & Tools



netBeans.ORG



Modular, dynamic, Java IDE

Open sourced in 2000

Over 7M downloads,

Broad list of platform plug-ins

300+ committers, 117,000
commits in past year

132% user gain in past 9
mo.

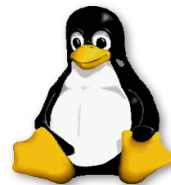
www.netbeans.org

Compatibility and
Inclusion

Java Studio Creator

The Premier Tool that Reduces Cost and Complexity of Web Application Development

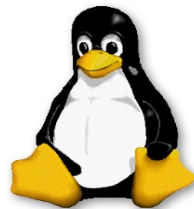
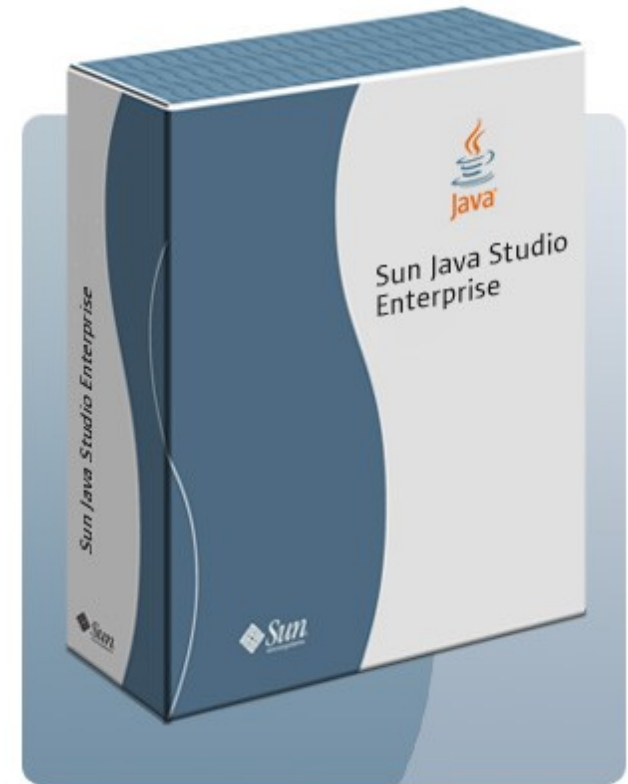
- First 100% Java standards-based visual developer environment, reducing the complexity of building Java solutions
- Consolidate all your development around one platform for development and deployment
- Create Web applications, consuming multi-tier services and data



Java Studio Enterprise 8

Empowering the Enterprise with a Revolutionary Development Platform with a Powerful Feature Set

- W The only marker-less roundtrip UML model to code capability
- W Integrated and comprehensive profiling and testing with built in load testing
- W First with unique code aware developer collaboration
- W Leverages the award winning NetBeans platform
- W Develop and deploy to the Sun Java Enterprise System



Solaris Sun Java™ Enterprise System

- Directory EE
- App Server
- Message Queue
- Web Server
- Portal
- Messaging
- Calendar
- Corporate IM
- Cluster
- Access Manager
- Portal Mobile Access*
- Identity Manager*
- N1 Provisioning System*



Highlights

Pre-integrated, pre-tested software system

Infinite right-to-use

Multiplatform support
(Solaris, Solaris x86,
Linux,
Windows)

Developer tools included

Targeted suites available



Java™

Sun Microsystems

Go get them!
They are Free!

<http://developers.sun.com>



Other Fun Things We Do

Mars Rover (Project Golden Gate)



Smart-Dust (SPOT) Convergence Of Technologies

Sensors

Miniaturization, MEMS, lower power & cost



**Smart
Dust**

Communication

Wireless: Wi-Fi, Bluetooth



Computing Power

Results of Moore's law





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