

IBM Software Group



IBM Break Open Source

Apache Geronimo et Websphere CE

Cyril Pierre de Geyer – Anaska et ASS2L

Denis Pailhas - IBM

Paris – 3 Mai 2007



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Agenda

- Introduction - *Cyril Pierre de Geyer, Anaska et Denis Pailhas, IBM*
- IBM and Open Source - *Adam Jollans, SWG Open Source Strategy, IBM*
- Apache Geronimo et WasCE - *Douglas Mbiandou, Expert Java, Objis*
- Aperitif “networking” – *IBM Forum*



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IBM and Open Source

*Adam Jollans – SWG Open Source Strategy, IBM
Paris - May 2007*



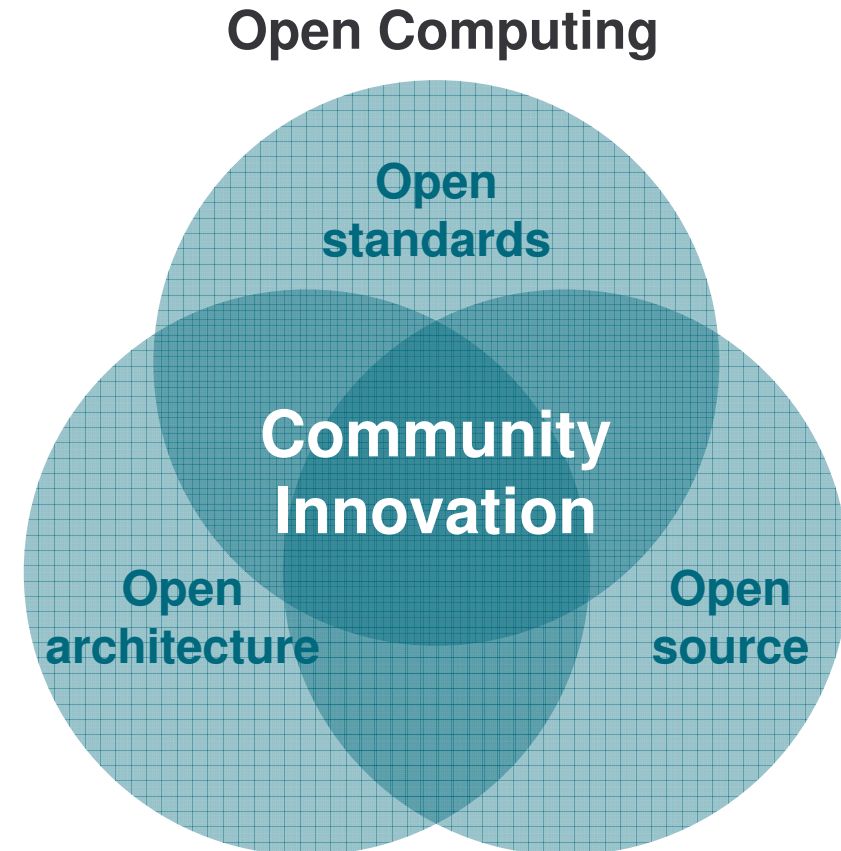
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Agenda

- Understanding the Open Source Ecosystem
- Customer benefits and challenges of Open Source
- IBM and Open Source
- How to integrate Open Source into your business

Open Source is part of Open Computing

- **Open standards**
 - ▶ Improving information sharing by simplifying integration of disparate technologies
 - ▶ Promoting interoperability by using open published specifications
- **Open architecture**
 - ▶ Increasing collaboration by easily extending business processes – eg SOA
 - ▶ Innovating on top of common hardware specifications
- **Open source**
 - ▶ Promoting innovation by leveraging community development
 - ▶ Accelerating open standards adoption



What is Open Source ?

- A licensing approach
 - ▶ Defines access to source code
 - ▶ Conforms to one of the “Open Source Initiative” licenses
 - ▶ Prioritises rights of users
- A development methodology
 - ▶ Community approach to developing software
 - ▶ Meritocracy of developers
 - ▶ Peer review
- A community of users, developers and partners
 - ▶ Open participation



Community Innovation is key to Open Source

- Community-driven approach to problem solving
- People working across geographical and organizational boundaries to confront today's most pressing challenges
- Enabled by:
 - ▶ Open standards
 - ▶ New intellectual property practices
 - ▶ The Internet and collaborative tools
- It unites perspectives from a host of disciplines to:
 - ▶ Rapidly solve business issues
 - ▶ Accelerate technological advancements
 - ▶ Stimulate economic growth
 - ▶ Enable new business models



Examples of Open Source projects

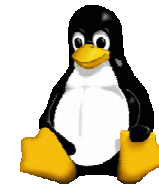
■ Apache

- ▶ Web Server
- ▶ Community initiated (apache.org)



■ Linux

- ▶ Operating System kernel
- ▶ Individual initiated (Linus Torvalds)



■ Eclipse

- ▶ Universal Integration platform
- ▶ Extensible application framework supporting solution based plug-ins
- ▶ IT Vendor initiated (IBM and others)



■ Mozilla

- ▶ Browser and client technology
- ▶ Hybrid (Netscape + community)



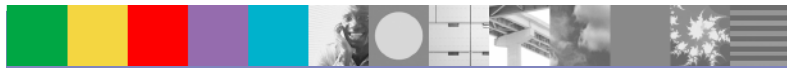
Why is Open Source important ?

- Can be a major source of innovation
 - ▶ Collaboration combines resources across IT vendors, universities and individuals
 - ▶ Internet has enabled distributed collaboration

- OSS is a good approach for driving emerging open standards
 - ▶ Popular open source projects can become the common implementations

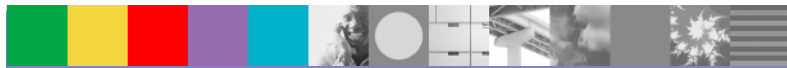
- Customers can benefit
 - ▶ Increased choice and flexibility
 - ▶ Lower costs

- Can present new business opportunities



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Customers see benefits and challenges in open source

Potential Customer Benefits

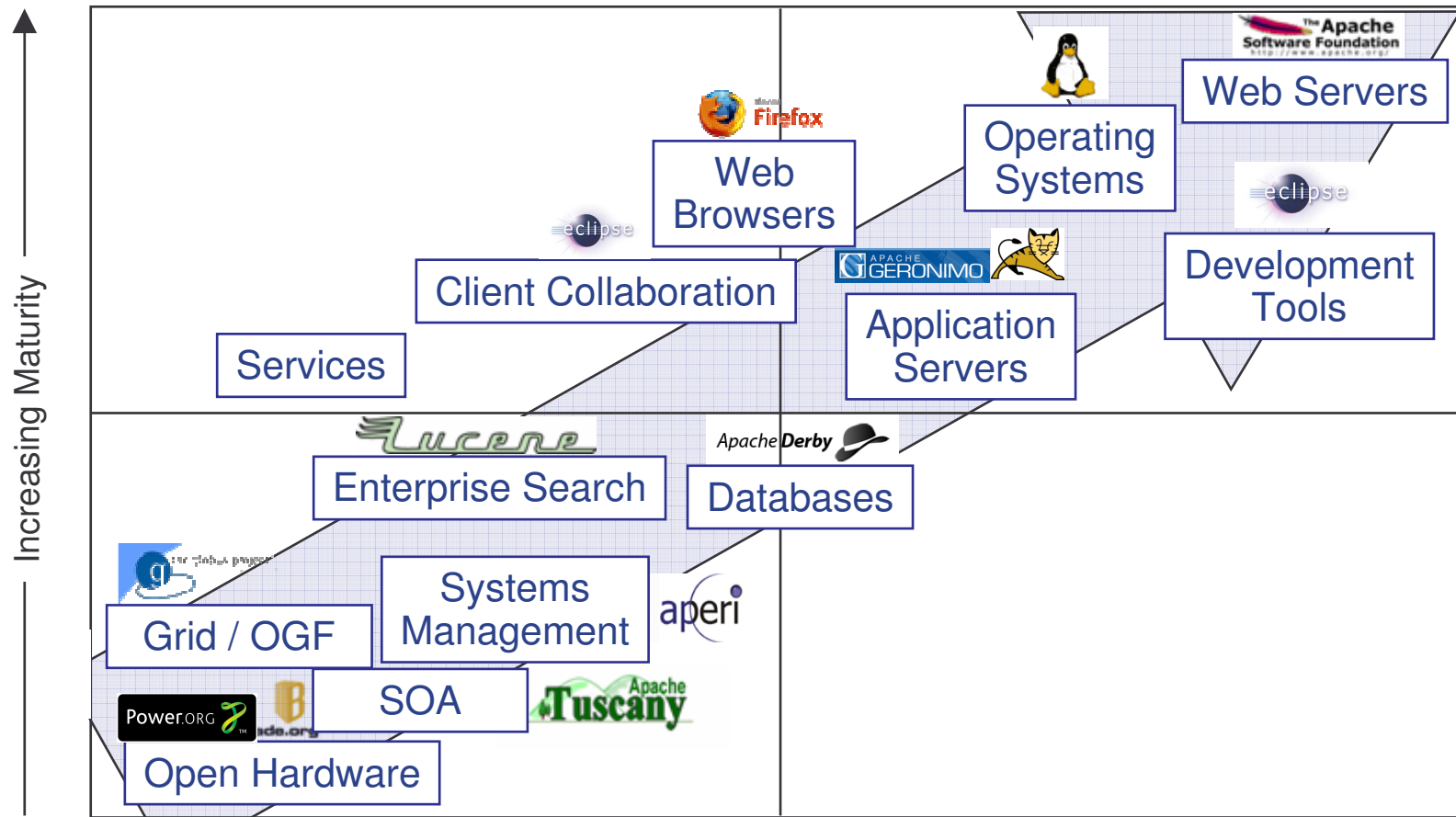
- **Choice and Flexibility**
 - ▶ Hardware portability and software flexibility
 - ▶ Modularity and extensibility
 - ▶ Range of support options
- **Low acquisition cost**
- **Frictionless access to software**
 - ▶ Light weight and easy to use
 - ▶ Rapid prototyping
- **Quality of software**
 - ▶ Peer review of source code
 - ▶ Broad community testing
 - ▶ Fast cycle time of releases and bug fixes
- **Community innovation**
 - ▶ Opportunity for interaction with developers
 - ▶ Open user community support and features
 - ▶ Harvest commoditized components and use freed-up resources for innovation

Potential Customer Challenges

- **Support**
- **Integration**
 - ▶ with other open source software
 - ▶ with commercial software
- **Skills**
- **Availability of applications**
- **Maturity**
 - ▶ Enterprise requirements gap (Functionality / Scalability)
 - ▶ Community / Industry support
 - ▶ Sustainability of business model
- **Too many choices**

Open Source Maturity and Customer Adoption

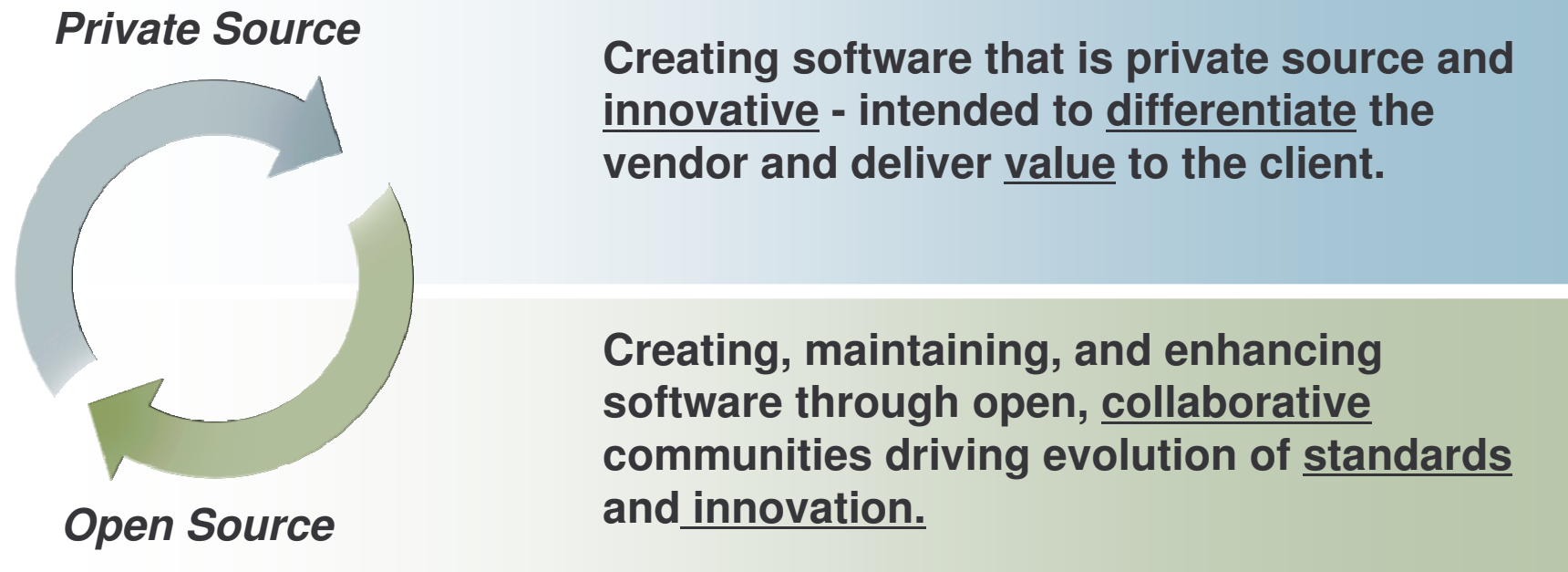
Mature



Emerging

Increasing Adoption by Customers
Source: IBM, February 2007

Customers use both Open Source and Private Source



The Industry is Seeking a New Equilibrium

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IBM contributions to Open Source go back 8+ years



1999 - 2001

- IBM forms Linux Technology Center
- Leads Apache projects Xerces (XML4J), Xalan, SOAP
- Creates OSI-approved IBM Public License
- Strategic participation in Mozilla
- IBM becomes founding member of OSDL
- Founder of Eclipse.org and Eclipse Consortium
- Creates internal bazaar using OSS methodology

2002 - 2003

- Linux contributions to scalability (8-way+), reliability (stress testing, defect mgmt, doc)
- Leads Apache projects: Web Services (WSIF and WSIL), Pluto (Portlet API) and WSRP4J (Remote Portal)
- Leads Eclipse projects GEF (editing), EMF (modeling), XSD (XML Schema), Hyades (testing), Visual Editor, AspectJ, Equinox rich client
- Globus Toolkit contributions for OGSA, OGS

2004-2005

- IBM and Novell/SUSE achieve security milestone (EAL4+ and COE compliance)
- Eclipse becomes independent as *Eclipse Foundation, Inc.* – IBM contributes UML2, Voice Tools, *Aperi, COSMOS, Ajax Tools Platform*
- Globus Toolkit 4 is WS-I compliant
- Pledged 500 patents to open source
- Partner with Zend PHP
- IBM enhances Apache partnership
 - Contributes Derby database
 - Helps Derby graduate from incubation
 - Contributes voice recognition
 - Supports Geronimo J2EE project
 - Acquires Gluecode for skills

2006-2007

- IBM contributes accessibility code to Firefox
- IBM becomes founding member of Eclipse Aperi project
- Leads Open AJAX initiative
- Leads Apache Tuscany project and Pecl PHP SOA for SOA
- IBM donates code for user-centric security management to Eclipse Higgins
- IBM donates code for medical record management to Eclipse Open Healthcare Framework (OHF)
- IBM announces support for Eclipse.org version of Eclipse
- IBM contributes to Apache Lucene project and announces OmniFind Yahoo! Edition

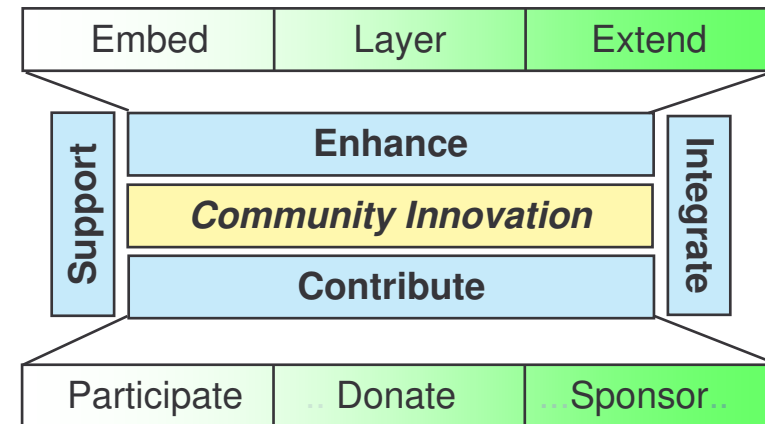
More than 1000 IBM developers involved in OSS projects

IBM leads 80+ OSS projects

IBM contributes to 150+ OSS projects

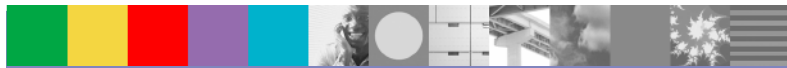
IBM's Open Source Goals

1. **Innovation:** Harness and fuel the energy and innovation of open source communities
2. **Contribution:** Become a strategic player in open source communities, both as a contributor and consumer of technology
3. **Enhancement:** Capture, focus and translate open source innovation into value for our customers
4. **Growth:** Leverage open source to gain new users, enter new markets, and expand business opportunities



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Integrating Open Source into your IT strategy

- **Insist on Open Standards**
 - ▶ Increases flexibility and responsiveness
- **Evaluate Open Source and Commercial software options**
 - ▶ Most customers are using a mixture of open source and private source
 - ▶ Don't build a separate strategy – interoperability / migration considerations are important
 - ▶ Balance up-front costs against recurring costs
- **Evaluate Community and Maturity of Open Source before committing**
 - ▶ Open, robust communities and broad industry support are important
 - ▶ Sustainable business models are critical
 - ▶ Healthy ecosystem of ISVs and Business Partners is required
- **Establish policies for working with Open Source software**
 - ▶ Educate company teams about OSS before they work with it
 - ▶ Implement a management system to review, approve, and track the use of OSS inside the company, and contributions of company software assets to external OSS projects
 - ▶ Review Open Source Licensing - establish a process within your company to help developers understand the terms of the OSS licenses and the procedures required to comply with them
- **Be pragmatic**
 - ▶ Run a proof of concept or pilot to test out viability
 - ▶ Make decisions based on both business and technical factors

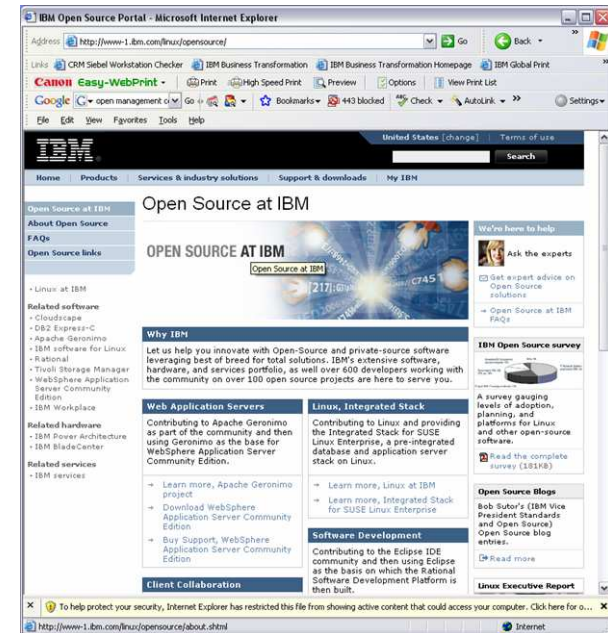
How to get started with Open Source and IBM

- IBM Open Source Portal
 - ▶ ibm.com/opensource

- developerWorks Website
 - ▶ ibm.com/developerworks/opensource

- IBM's Open Computing Development Environment
 - ▶ WAS CE, DB2 Express-C, Eclipse
 - ▶ ibm.com/developerworks/kickstart

- IBM Systems Journal
 - ▶ “Open Source” edition - Vol 44, No 2, 2005
 - ▶ www.research.ibm.com/journal/sj44-2.html





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