

Building Communities

opensolaris.org portal development



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opensolaris™

OpenSolaris Developer Collaboration Team

The guys that started OpenSolaris in the first place!

opensolaris.org

**Building communities by building
infrastructure so developers can collaborate.**

The OpenSolaris Program

A Project Management Perspective

Customers, Privacy Concerns, Legal Issues, Processes, Organizational Politics, Market Disruptions, PR, Source, Binaries, Infrastructure, Tools, **Community Building**, Contributions, Resource Dependencies and Constraints, Bug Tracking, Universities, Governments, SCM, Competition, AR, IR, Goals, Transparency, Language, Culture, Content, Distance, Governance, Business Models, **Open Development**, Documentation, Values, Schedules, Leadership, Licenses, Marketing, Testing, IP, Press Leaks, Field Sales, Analysis, Project Management, Metrics, Market Research, Roadmaps, Trademarks, **opensolaris.org**, Branding, Distributions, OSUGs, Flame Wars, Conflicts ...

Program Profile

- **Who:** Sun + Partners + Customers + Individual Developers
- **What:** Source. Distribution. Website.
- **Where:** opensolaris.org and opensolaris.com
- **When:** Started in 2005
- **Why:** To build a developer community.
- **How:** Open Development.
- **License:** Common Development & Distribution License
- **Priorities:** Distribution, Developers, Users, Infrastructure.

OpenSolaris 2009.06

This is a Product and a Community Development Tool



opensolaris.com/get

NEW: OpenSolaris 2009.06

- 3rd release.
- IPS and package manager improvements.
- SPARC support. Automated install.
- Networking improvements.
- More hardware/driver support.
- Desktop Enhancements.
- New software repositories.
- Storage additions, developer tools.
- **Contribute Packages** <http://opensolaris.org/os/package/>
- **Dev forum:** <http://opensolaris.org/jive/forum.jspa?forumID=197>

Community Profile

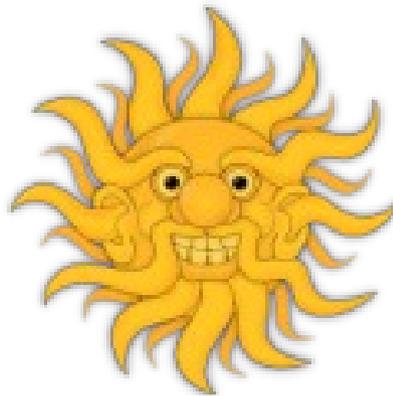
- 116,000 site registrations.
- 12,000 people on 350+ lists.
- Tens of thousands of list messages.
- Tens of millions of web forum views.
- 130+ user groups in more than 30 countries.
- 200+ projects and 40 communities.
- **12 language portals (#13 coming soon)**
- **7 Distributions.**
- 20+ IRC channels.
- Hundreds of blogs.
- Hundreds of contributions and contributors.

Distributions



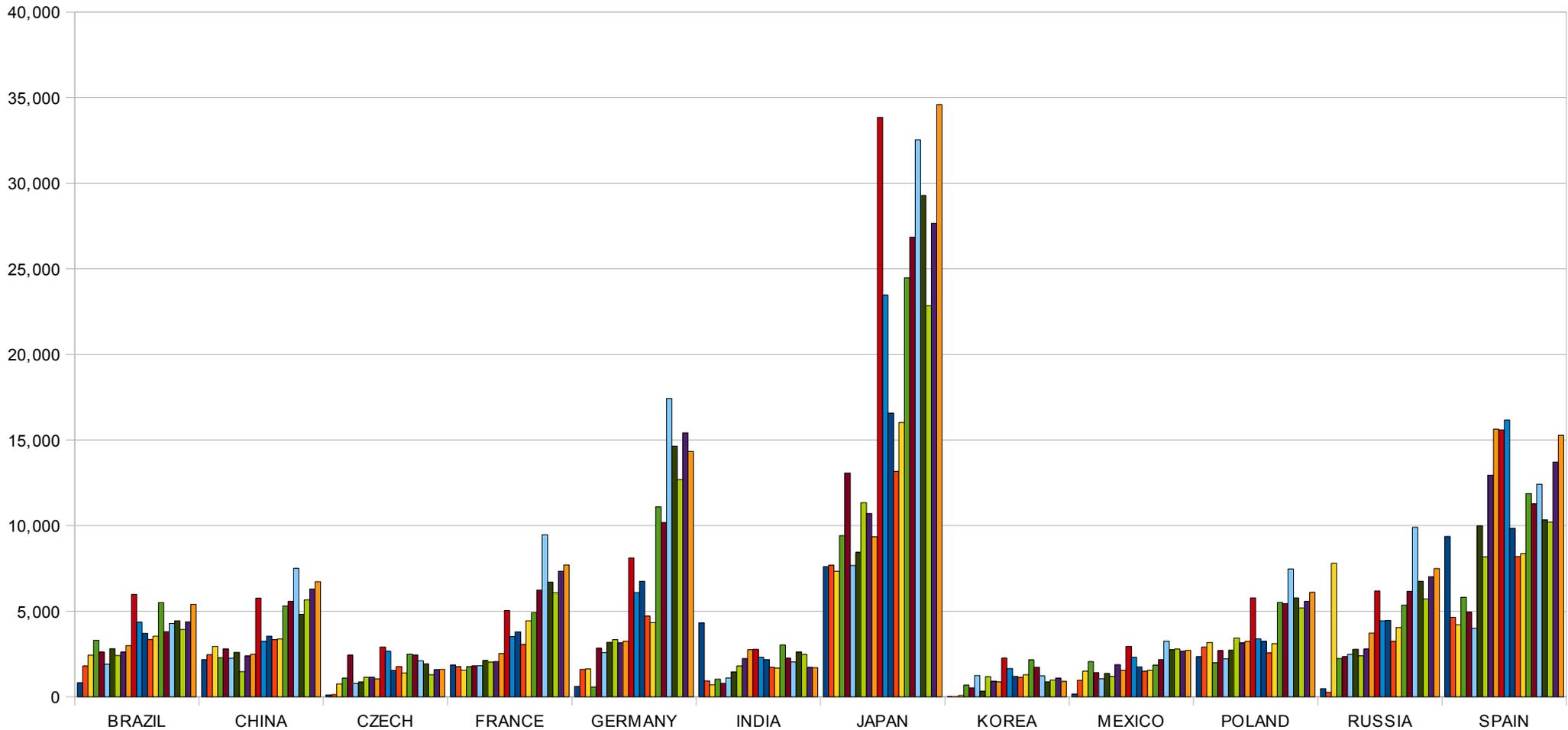
Milax

MartUX mBE



<http://opensolaris.org/os/downloads/>

12 Language Portals



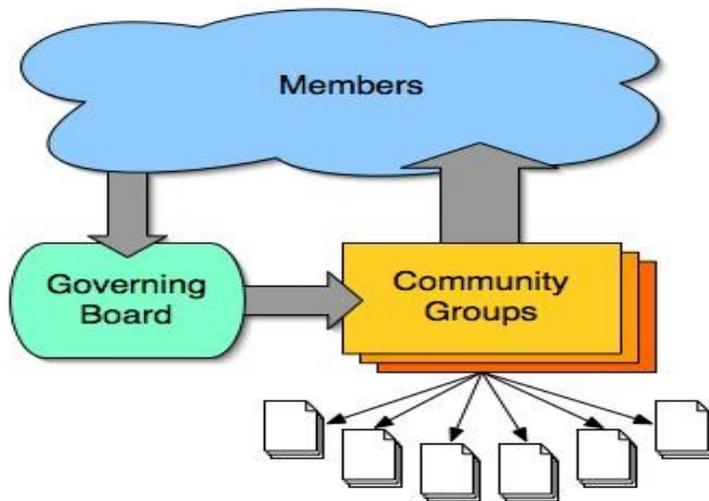
Tokyo: #1 City in May 2009 | Tokyo: #2 City since 2005

Opening Sequence

- A Multi-Year Implementation Plan
 - **2003**: Internal discussions start in engineering.
 - 02/04: Discussions go external. Engineering team forms. Research, analysis, diligence begins.
 - **06/04**: Announced in China. 2-part pilot begins. 300 people.
 - 01/05: Site opened. DTrace source published. License and governing board plans announced. 7K sign up.
 - 04/05: Board members announced. First meeting held.
 - **06/05**: Kernel source published. 150 engineers blog.
 - 06/05 to present: 65+ releases: source, binaries, tools, tests, projects, consolidations, docs, distros, ports.
 - **05/08**: OpenSolaris binary distribution launched.
 - **08-09**: Development and website infrastructure updates.

Community Structure

Current



- Charter
- Constitution
- Hierarchy

Recently Rejected

- Electorate
- OGB
- Membership Processes
- Project Life Cycle Processes

Communities

Projects

User Groups

- Reduced roles. Flat structure.
- Centralized processes.
- Distributed processes.

Current: <http://opensolaris.org/os/community/ogb/governance/>

Proposed: http://opensolaris.org/os/community/ogb/elections/2009/Constitution_Proposal/

Contributing

Building the infrastructure and processes to support contributions and open development.

Defining Contributions

Source Code, Scripts, Help, Presentations, Graphics,
User Groups, Conferences, Translations, Ads,
University Courses, Training Materials, Screencasts,
Videos, Wikis, Evangelism, Photography,
Artwork, Documentation, Articles, Blogs, Podcasts,
Repositories, Mirrors, Websites, Tutorials,
Development Process, Input Methods, Drivers,
Feedback, Bug Reports, SCM, DTS, Distributions,
Books, Ports, Governance, Applications, Packages ...

Projects, Communities, User Groups, Sponsor Program

opensolaris

Website Transition

opensolaris.org

opensolaris.org

- Website platform to support open development engineering operations and global community building programs.
- Redesigning the existing site to provide:
 - Complete open development platform for community and product engineering (ON & Nevada development already tied to the site in many ways).
 - More scalability and flexibility to enable expansion and enhancement of features and support – a modular approach.
 - Wiki functionality tied to user rights for content management.

opensolaris.org Services

- pkg.opensolaris.org (package repositories)
- repo.opensolaris.org (source code mgmt)
- mail.opensolaris.org (mailing lists)
- poll.opensolaris.org (community voting)
- cr.opensolaris.org (code review)
- test.opensolaris.org (test farm)
- bugs.opensolaris.org (defect tracking)
- defect.opensolaris.org (defect tracking)
- planet.opensolaris.org (blog aggregator)
- juocr.opensolaris.org (pkg submission)
- src.opensolaris.org (source browser)

Site Changes Coming

- **New infrastructure architecture**
 - Addresses issues with original portal application
 - Enables continued site evolution
- **New membership management system**
 - Allows automatic management of community member data: employee status/SCA on file/commit rights/etc.
 - Allows single sign-on
 - Localized into 12 languages
 - In the future, code commits will automatically check against the new database before accepting the change
- **New registration process**
- **Wiki functionality**

Building a New Foundation

- Changes will happen in Multiple Phases
- At least three Phases
 - Phase 1: New database and membership management app
 - <http://auth.opensolaris.org>
 - Target: June/July 2009
 - Phase 2: Migration of main site content to XWiki
 - <http://hub.opensolaris.org>
 - Target: Aug/Sept 2009
 - Phase 3: Details TBD.
 - Will involve the migration and integration of remaining client applications and work on features not implemented in Phase 1 or 2

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The Secret

**Building & Participating in communities is Personal.
It's an art, not a science. It involves technology, but it's all about people.**

Working the Secret

- There are no short cuts. It takes time.
- Take the initiative. Assert in your own way.
 - Find a Community or Project. Join the list, observe, introduce yourself, ask questions, start small.
 - Offer to do something specific: fix something, update something, translate something. Start a UG. Submit a bug. Port a package. Get a commitment to engage.
 - Go and do that something. Actually do it.
 - Ask leaders to walk you through their contribution process.
 - No process? Write one. No leaders? Be one.
- Participate

<http://opensolaris.org/os/participate/>

Finally, Please Remember ...

"In software, ideas are expressed in code.
The implementation is the idea." -- Bryan Cantrill

"Having your voice listened to is a privilege,
not a right, and it's a privilege that's earned
in proportion to the contribution level, not
the volume level." -- Alan Burlison

Quick Resources

General Community Building Strategies (jimgris)

http://blogs.sun.com/jimgris/entry/building_opensolaris_communities

http://blogs.sun.com/jimgris/entry/running_successful_opensolaris_user_groups

Website Plans

<http://opensolaris.org/os/about/roadmap/>

<http://opensolaris.org/os/community/web/>

<http://opensolaris.org/os/project/website/>

Website Mailing list

website-discuss@opensolaris.org

OpenSolaris Community Newsletter

<http://opensolaris.org/os/community/advocacy/newsletter/>

Open Development

<http://opensolaris.org/os/project/opendev/>

Help Forum

<http://opensolaris.org/jive/forum.jspa?forumID=31>

That's it. Thank you!

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Credits: The content in this presentation comes from the OpenSolaris Developer Collaboration Team and the OpenSolaris community. The open development content was created in collaboration with Bonnie Corwin, Sr. Engineering Manger, OpenSolaris Developer Collaboration Team (<http://blogs.sun.com/bjc/>). Photo of Nanjing University in China by Jim Grisanzio.

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Extra Slides & Notes

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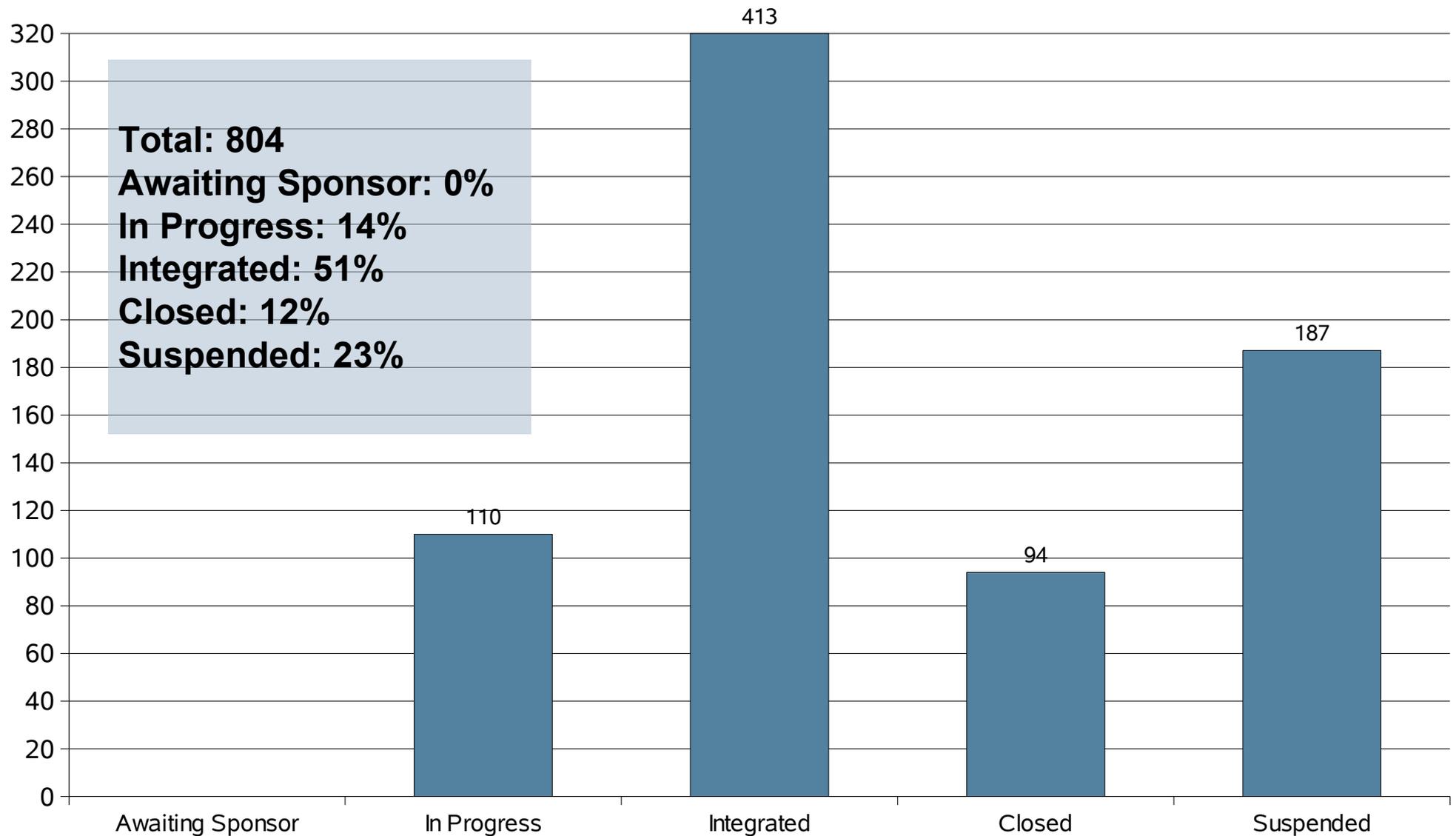
Centrality of opensolaris.org: 1

- Projects, Communities, User Groups
- Customized wiki integrated with user management across multiple applications.
- Source Repositories
 - 332 Mercurial
 - 67 Subversion
- Organizations Involved
 - Intel, AMD, SNA, NSA, Ohio State University, **Coming Soon!**
- Defect Tracking:
 - 2,792 bugs submitted via bugs.os.org.
 - 1,886 bugs submitted via defect.os.org

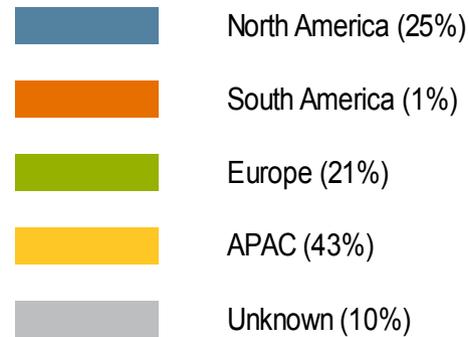
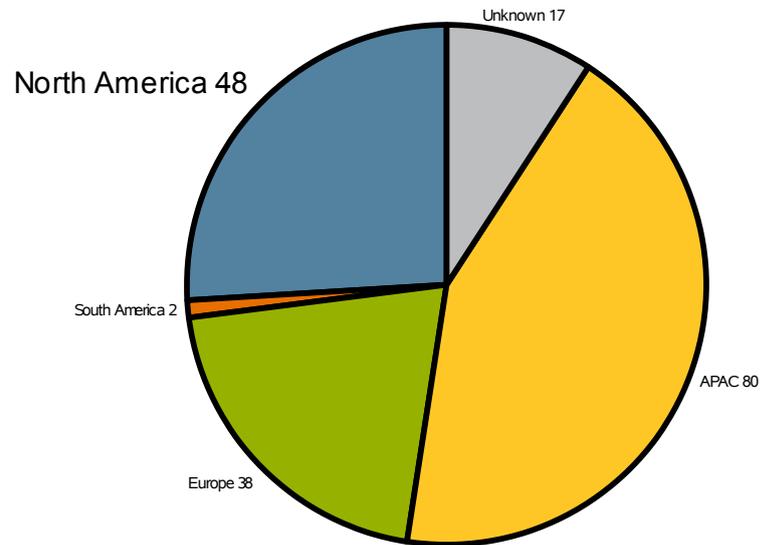
Centrality of opensolaris.org: 2

- **Sponsor Program: Consolidations**
 - Preliminary code contribution process prior to SCM.
 - 185 contributors, 804 contributions offered, 413 integrated.
- **Notable Community Contributions: Projects**
 - ksh93, Emancipation: significant contributions.
 - SPARC disassembler: first community re-implementation.
 - Czech: first translation of Solaris messages.
 - Mercurial, XWiki, Bugzilla: requirements & selection.
 - Portals: language translations.
 - DTrace and distro contributions: core code.
- **Contributor Agreements**
 - 373 Sun Contributor Agreements *(see graph ahead)*
 - First contribution 3 days post launch, integrated 2 weeks later!

Sponsor Program 3/18/09



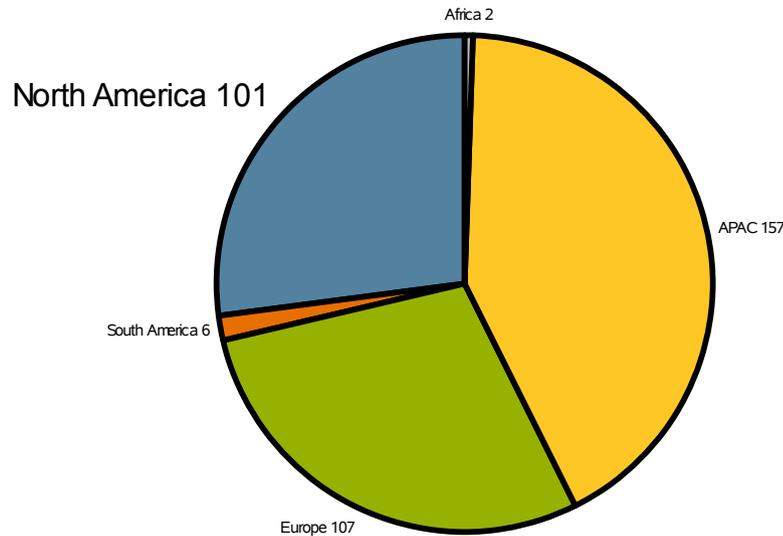
Sponsor Program: Contributors



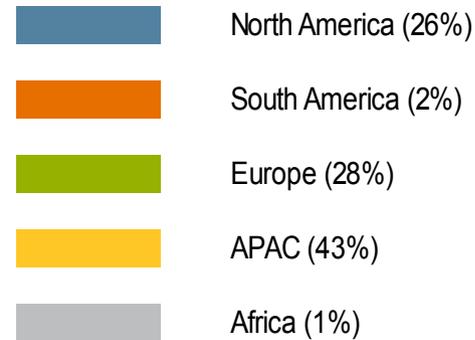
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Canada = 3	Brazil = 1	Belgium = 2	Australia = 3	Unknown = 17
Mexico = 1	Colombia = 1	Czech Rep. = 4	India = 69	
USA = 44		Denmark = 1	Israel = 2	
		France = 3	Japan = 2	
		Germany = 10	Singapore = 1	
		Netherlands = 3	Thailand = 1	
		Poland = 2		
		Portugal = 1		
		Russia = 1		
		Serbia = 1		
		Switzerland = 1		
		UK = 9		

Total: 185

Contributor Agreements



Total: 373



North America	South America	Europe	APAC	Africa
Canada = 10	Brazil = 4	Austria = 1	Australia = 7	South Africa = 2
Mexico = 1	Chile = 1	Belgium = 2	China = 18	
USA = 89	Colombia = 1	Bulgaria = 1	Egypt = 1	
		Czech Rep. = 13	India = 100	
		Denmark = 1	Israel = 5	
		France = 11	Japan = 19	
		Germany = 17	Korea = 1	
		Greece = 1	Pakistan = 1	
		Italy = 3	Singapore = 1	
		Netherlands = 6	Taiwan = 2	
		Poland = 20	Thailand = 1	
		Portugal = 1	Turkey = 1	
		Russia = 5		
		Serbia = 2		
		Spain = 2		
		Sweden = 3		
		Switzerland = 2		

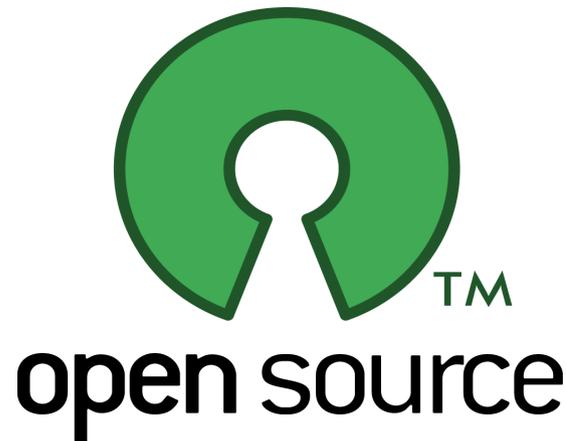
Community Profile

- **Current Status**
 - Two main sites: opensolaris.org & opensolaris.com.
 - More sites in China, India, Japan, Spain, Canada, Brazil.
 - 120k people. 12k on 350+ lists. 100+ OSUGs in 30 countries. 200+ Projects. 40 Communities. 12 language portals.
 - 20 IRC channels. Hundreds of blogs. Tens of thousands of messages. Tens of millions of forum views. Hundreds of universities. Hundreds of contributions. 40K Starter Kits (08).
- **Constant Evolution**
 - Started from 0. Sun, kernel developers, system admins first.
 - Now users, students, package builders/maintainers, writers.
- **Leadership**
 - No single leader. Distributed model. OGB, project leads, etc.

Governance

- **OpenSolaris Governing Board**
 - Initially: Community Advisory Board (CAB). Community elected two, Sun appointed two and selected one.
 - CAB started during pilot program and grew into OpenSolaris Governing Board (OGB) with an expanded mandate.
- **Governance Based on Meritocracy**
 - Board and community membership, leadership, elections, decisions, conflict resolution, community structure, priorities.
 - Constitution approved by Sun 1/07 and ratified by community vote 3/07 with the election of the new 7-member OGB.
 - Charter/Constitution: written in the open.
 - Simplification and reorganization taking place now.

License: CDDL



Common Development & Distribution License

- All licensing strategies considered during year-long review.
- Needed to be mixable with other licenses.
- Recommended as a preferred license by OSI.
- Recognized as a free software license by the FSF.
- Based on Mozilla Public License with updates.

opensolaris.org Next Steps: 1

- Portal Development
 - Total Website Re-Architecture
 - New membership and content management systems.
 - Development work 90% complete.
 - Implementation started. Phase one completed Summer 09.
 - <http://www.opensolaris.org/os/about/roadmap/>
- System Operations
 - Data Centers: San Francisco, Las Vegas, Prague
 - 25+ computers in 3 data centers for opensolaris.org
 - Building out second data center in Las Vegas
 - In Prague, setting up administrative systems for site and packaging machines for OpenSolaris distribution.

opensolaris.org Next Steps: 2

- Open Development Infrastructure
 - Focus on moving engineering teams to open development.
 - Multi-step, multi-year process
 - Opening specifications, conversations, decisions, repositories, ARC cases, code reviews, projects, consolidations, etc.
 - Mercurial:
 - ON gate moved to Mercurial in Aug 08.
 - Development tools, performance work, and internal education continue.
 - Contribution Programs:
 - Investigating the creation of a bug-fix-submission project to facilitate code contributions.
 - Project to have gate for direct community putbacks.

opensolaris.org Next Steps: 3

- Open Development Infrastructure
 - Defect Tracking: Reducing big barrier to participation.
 - Taking operational ownership of bugs.os.org.
 - Deployment is 5/09 with bug fixes.
 - Investigating new enhancements but will still not be true Bugster bridge.
 - Will be taking operational ownership of defect.os.org.
 - Upgrade to production system by updating Bugzilla version and integrating with auth membership app.
 - Evaluation of work started 4/09.
 - Working on information architecture to enable development tools to be agnostic regarding defect tracking systems.

opensolaris.org Next Steps: 4

- **General Community Building**
 - OSUG starter kit programs.
 - OpenSolaris events, industry conferences, OSUG meetings.
 - OSUGs growing into local communities with Sun and non-Sun participation.
- **Website Content & Usability Development**
 - New content upgrades to the front page and common pages with increased community involvement.
 - Layout, design, information architecture of new site.
 - Portals, language communities, localization of entire site.
 - Policies on contributions, communication, values.