

# Building Communities

Some of the characters and lessons learned from four years of building OpenSolaris communities and how you can contribute right now.

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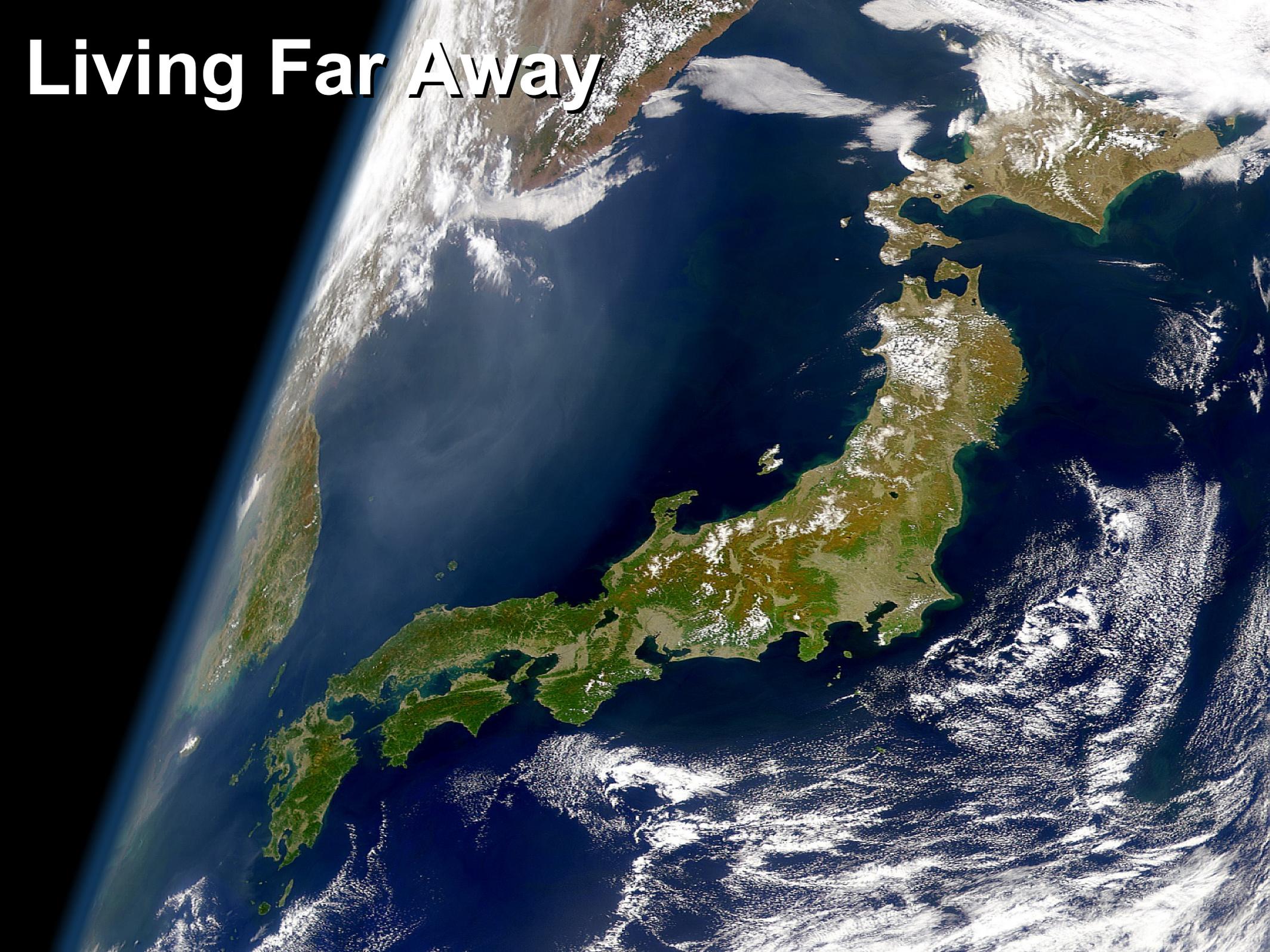
opensolaris™

**Me**

# Early Development



# Living Far Away

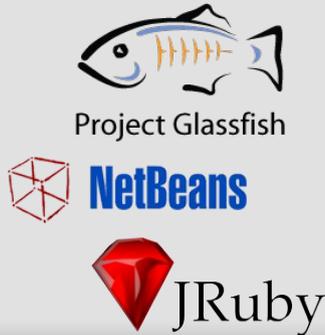


# Globalization



# Sun Microsystems in Open Source

# Building Open Communities



Java

opensolaris



Solaris

OpenSPARC™



SPARC

Building a Vibrant Ecosystem: Sun is the Largest Commercial Contributor to Open Source Communities

Community



Infrastructure



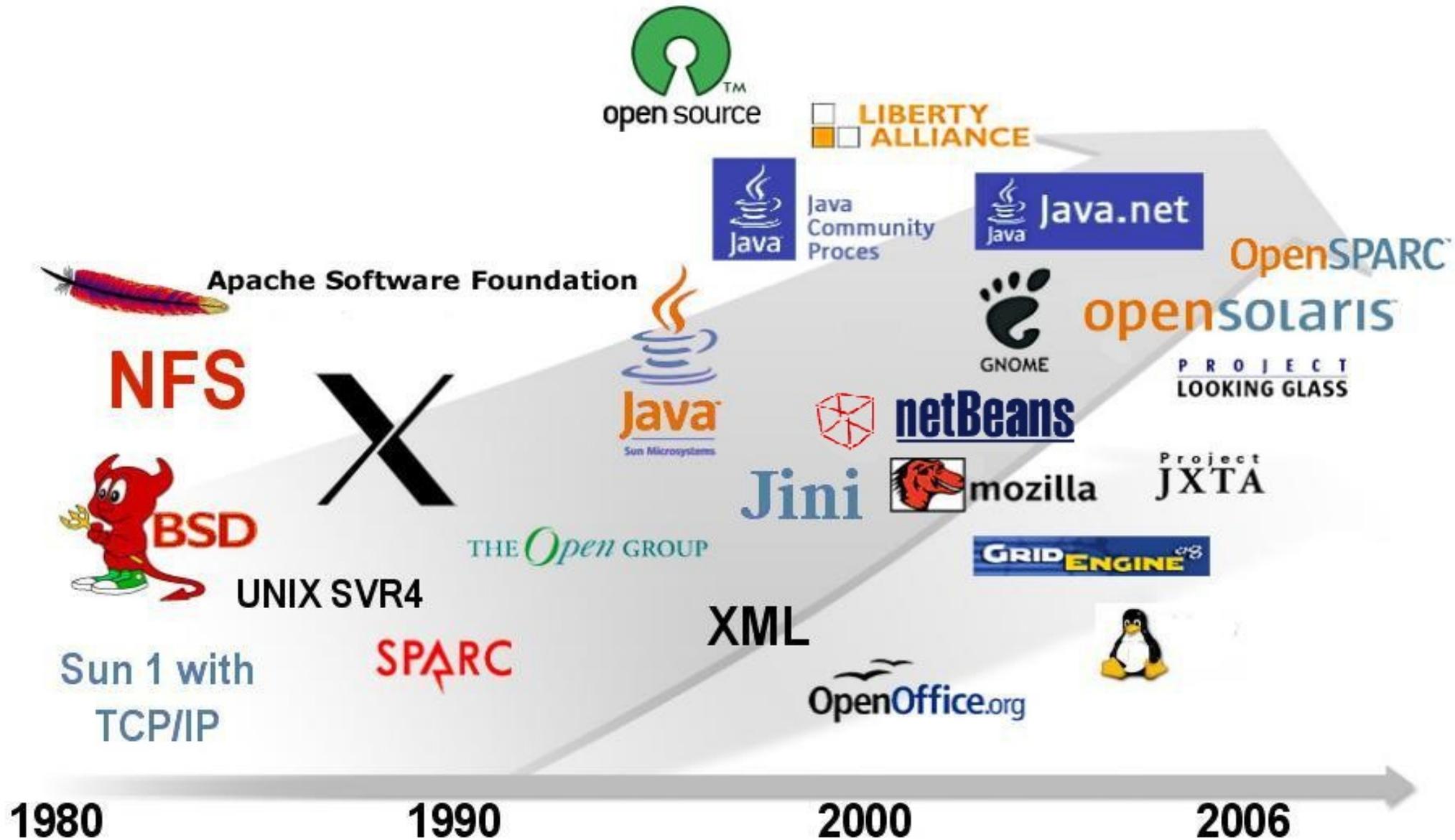
Ecosystem



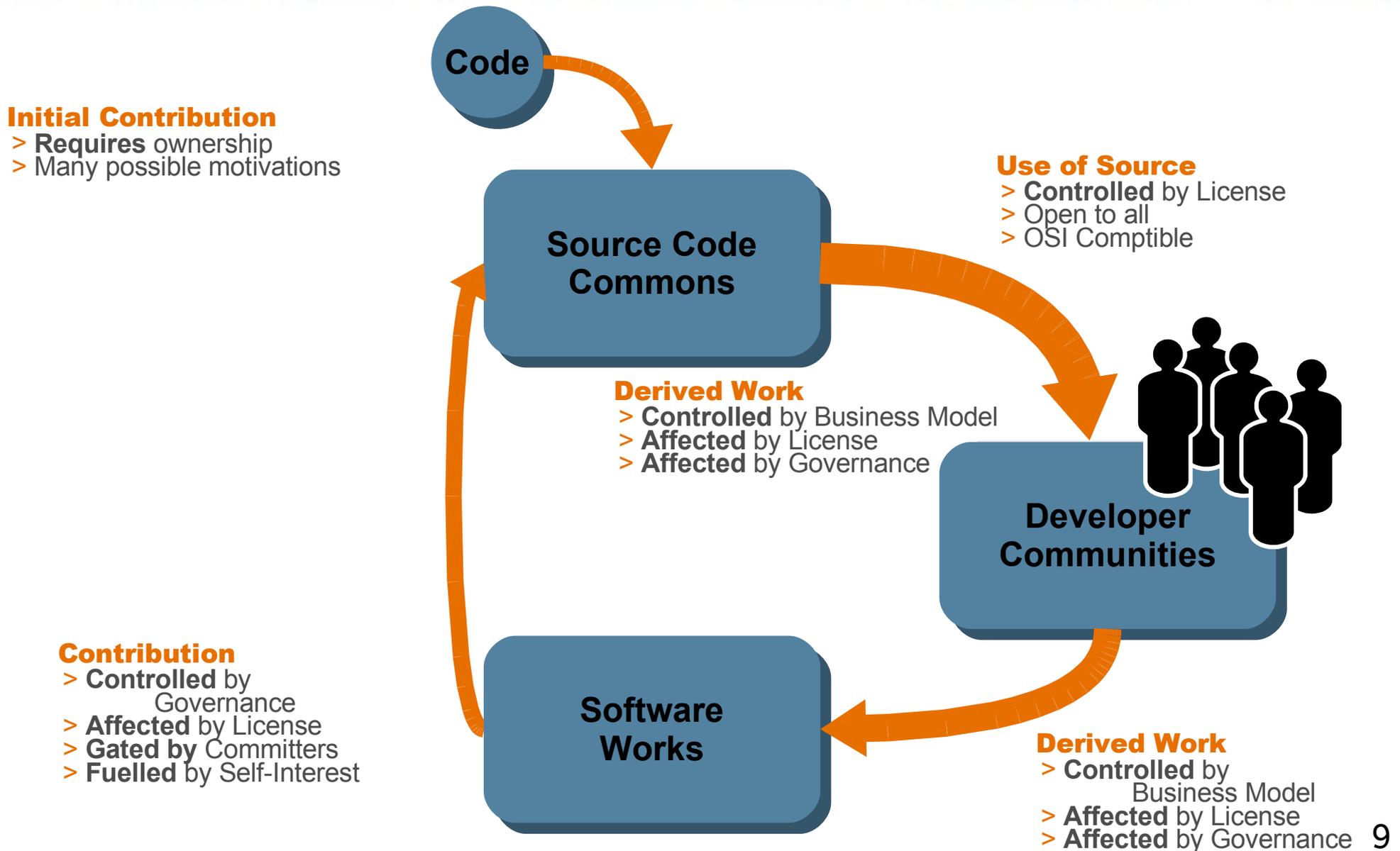
Building  
**Open  
and  
Free**  
Communities



# A History in Community



# Open Source Cycle



# Sun's Open Source Strategy

Use FOSS to remove barriers to adoption



Encourages download / Speeds deployment

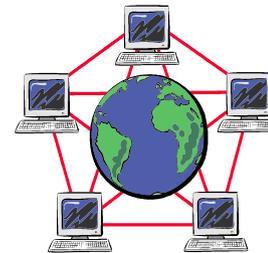


Grow large communities of users

Monetize at point between deployment and scale



Provide added value in form of additional support and services



Contribute to developer communities



Payment is at time of value, not deployment



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```

**OpenSolaris**

# The OpenSolaris Project

## A Four Year Project Management Journey

Customers, Privacy Concerns, Legal Issues, Processes, Organizational Politics, Market Distributions, PR, Source, Binaries, Infrastructure, Tools, **Community Building**, Dependencies, Constraints, Contributions, Bug Tracking, Universities, Governments, SCM, Competition, AR, IR, Goals, Transparency, Language, Culture, Content, Distance, **Governance**, Business Models, Web site, Documentation, Values, Plans, Leadership, Licenses, Marketing, **Open Development**, Testing, Press Leaks, Field Sales, Analysis, IP, Project Management, Resources, Metrics, Market Research, Roadmaps, Trademarks, Branding, Distributions, **User Groups**, Mascots, Flame Wars, Conflict Resolution,

# Project Profile

- **Who:** Sun, partners, customers, community.
- **What:** Source. Binaries. Community.
- **Where:** Started in California, growing globally.
- **When:** June 14, 2004.
- **Why:** To build developer & user communities that generate contributions, innovations, markets, and revenue.
- **How:** Open Development & Open Communications
- **License:** Common Development & Distribution License
- **Priorities:** Binary Distribution, Application Developers, Users, Engineering Infrastructure, Governance, Website.

# Opening Sequence

- Evolving plans and multi year implementation
  - **2003**: Internal discussions start in engineering.
  - 02/04: Discussions go external. Engineering team forms. Research, analysis, diligence begins. Plans evolve.
  - **06/04**: Announced in China. 2-part pilot begins. 300 people.
  - 01/05: site opened, DTrace released, announced license and intention to form governing board. 7K sign up.
  - 04/05: Board members announced. First meeting held.
  - **06/05**: Kernel opened, 150 engineers blog tours of code.
  - 06/05 to present: 50+ releases: source, binaries, tools, tests, projects, consolidations, docs, distros, ports.
  - **05/08**: OpenSolaris 2008.05 Binary distribution launched
  - **08-09**: Infrastructure opening, new website, new distros.

# Community Profile

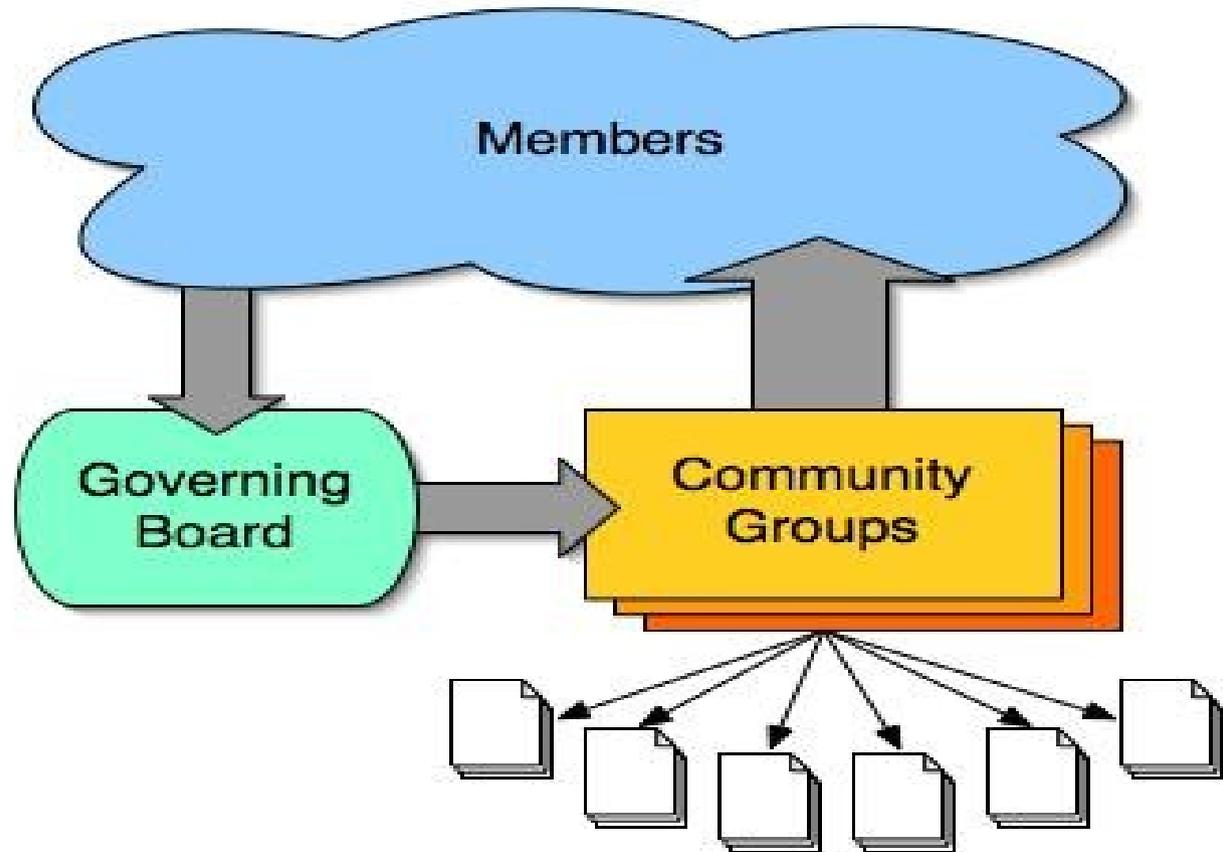
- **Current Status**
  - Two main sites: opensolaris.org & opensolaris.com.
  - Other sides in China, India, Japan, Spain, Canada, Brazil ...
  - 120k people. 12k on 250 lists. 323 Voting Members. 70+ UGs. 250+ Projects. 40 Communities.
  - Multiple IRC channels. Hundreds of blogs. Tens of thousands of messages. Tens of millions of forum views. 100+ universities using OpenSolaris. Hundreds of contributions.
- **Constant Evolution**
  - Started from 0. Sun and kernel developers first.
  - Now users, students, package builders/maintainers, writers.
- **Leadership**
  - No singer leader. Distributed model. OGB.

# Governance

- **OpenSolaris Governing Board**
  - 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 in 3/07 with the election of the new 7 member OGB.
  - Charter/Constitution: openly discussed and iterated.
  - Simplification and reorganization now.

# Community Structure

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



- Charter
- Constitution
- Simplification
- New Roles
- New Processes
- Flat, Flat, Flat!
- Communities, Projects, User Groups

# Open Development

- **Opening Processes & Infrastructure**
  - Specifications, conversations, decisions, repositories, ARC cases, code reviews, projects and consolidations, policies – all moving open. Working toward live source gates.
  - Contributors to follow development process and earn committer status over time – just like Sun engineers.
  - SCM: result of community interaction. Mercurial: default, distributed system. Subversion: for projects requiring SVN or a centralized system.
  - New bug tracking tools and content management system specified in the community.
- **Key Development Projects**
  - Packaging, Install, Emancipation, Intel, AMD, Indiana.

# More Open Development

- Request Sponsor Program
  - Preliminary code contribution process prior to SCM.
  - 700+ contributions offered. Sun engineers pair with contributors for approval process, testing, integration.
  - 300+ putbacks done, 120 in process. 160 contributors from 22 countries on 5 continents.
  - Exploring a new patch submission process.
- Notable Community Contributions to Projects
  - SCM, ksh93, Emancipation – significant contributions.
  - Intel & AMD – Putbacks from corporate community members.
  - SPARC disassembler – First clean-room re-implementation
  - Czech – First translation of Solaris messages.
  - First contribution 3 days post launch. Integrated 2 weeks later!



**open**solaris™



**GET IT  
NOW!**



Register OpenSolaris

**Activating Wired (e1000g0) network int** ✖



◀ 2008 ▶

Mon	Tue	Thu	Fri	Sat
1	2	3	4	
8	9	10	11	
18	19	20	21	22
23	24	25	26	27
28	29	30	31	1
2	3	4	5	6
7	8			

▼ **Locations** Edit



 **Wellington**  
 6:57 PM NZDT

 **San Francisco**  
 10:57 PM (Monday) PDT -20

- Applications
- Places
- System
- Accessories
- Games
- Graphics
- Internet
- Office
- Sound & Video
- System Tools
- Universal Access

- Evolution Mail and Calendar
- Firefox Web Browser
- Pidgin Internet Messenger
- Thunderbird Mail and News
- Video Conference

GIMP

File Xtns Help

Layers, Channels, Paths

Auto

Layers

Mode: Normal

Opacity: 100.0

Firefox - Mozilla Firefox

http://www.google.cz/

OpenSolaris.org Planet OpenSolaris OpenSolaris Sun Microsystems

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# Google™

Česká republika

Vyhledat Googlem Zkusím štěstí

Prohledat Web  Stránky pouze česky

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Done

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Repository: opensolaris.org

All

Show: All Packages

Search: compiz

- All
- 2DGraphics
- Accessories
- CLI tools
- Communication
- Core
- Developer Tools
- GNOME
- GTK
- Games
- Graphics
- Internet
- Localization
- Mail
- Office
- Photography
- Print
- RasterGraphics
- Social Software
- Sound & Video
- System Tools

	Name	Status	Description
<input checked="" type="checkbox"/>	SUNWccsm	✓	ccsm settings manager for the Compiz
<input checked="" type="checkbox"/>	SUNWcompiz	✓	compiz
<input checked="" type="checkbox"/>	SUNWcompiz-fusion-extra	✓	extra effects plugins for compiz
<input checked="" type="checkbox"/>	SUNWcompiz-fusion-main	✓	main effects plugins for compiz
<input checked="" type="checkbox"/>	SUNWcompizconfig-gconf	✓	cgconf backend for CompizConfig
<input checked="" type="checkbox"/>	SUNWcompizconfig-python	✓	compizconfig libraries - is an alternati
<input checked="" type="checkbox"/>	SUNWlibcompizconfig	✓	compizconfig libraries - is an alternati



**SUNWcompiz**

compiz

- General Info
- Files Details
- Dependencies
- Licenses

Information for installed package:

```

Description:  compiz
Name:        SUNWcompiz
FMRI:       pkg:/SUNWcompiz@0.5.11,5.11-0.100:20081015T140334Z
Version:    0.5.11-0.100
Packaged:   2008-10-15 14:03:34
    
```

# OpenSolaris Distribution

- **Indiana: An OpenSolaris Binary Distribution**
  - Focus: easy to access, easy to use, easy to maintain.
  - Single CD install. Fully re-distributable.
  - Core kernel, system libraries/utilities, new network package software, ZFS as default file system, Gnome desktop.
  - Based in part on existing engineering projects for Packaging, Install, and Modernization.
  - Unique Solaris capabilities: Upgrade rollback via ZFS snapshots, integrated DTrace probes, binary compatibility.
- **Seeking New Contributions**
  - Ability for community to contribute and maintain packages.
  - Sun-supported packages and community-supported packages

# OpenSolaris 2008.11

- **Early Success from OpenSolaris 2008.05**
  - 100,000 installs in just first few months!
  - 70,000 Live CDs shipped.
  - Back to school student pack offered in September.
  - Sun fully committed at the highest levels.
- **New in OpenSolaris 2008.11**
  - Distribution Constructor for pre-configured, bootable images.
  - Improved package manager and GUI
  - Suspend & Resume on limited platforms.
  - Better wireless, graphics, audio, etc.
  - Desktop: Gnome 2.4, ZFS snapshot and restore with Time Slider, OpenOffice 3, Firefox 3, Songbird, Transmission BitTorrent Client, XChat IRC, many new packages, etc.

Easy to Start  
Up and Use

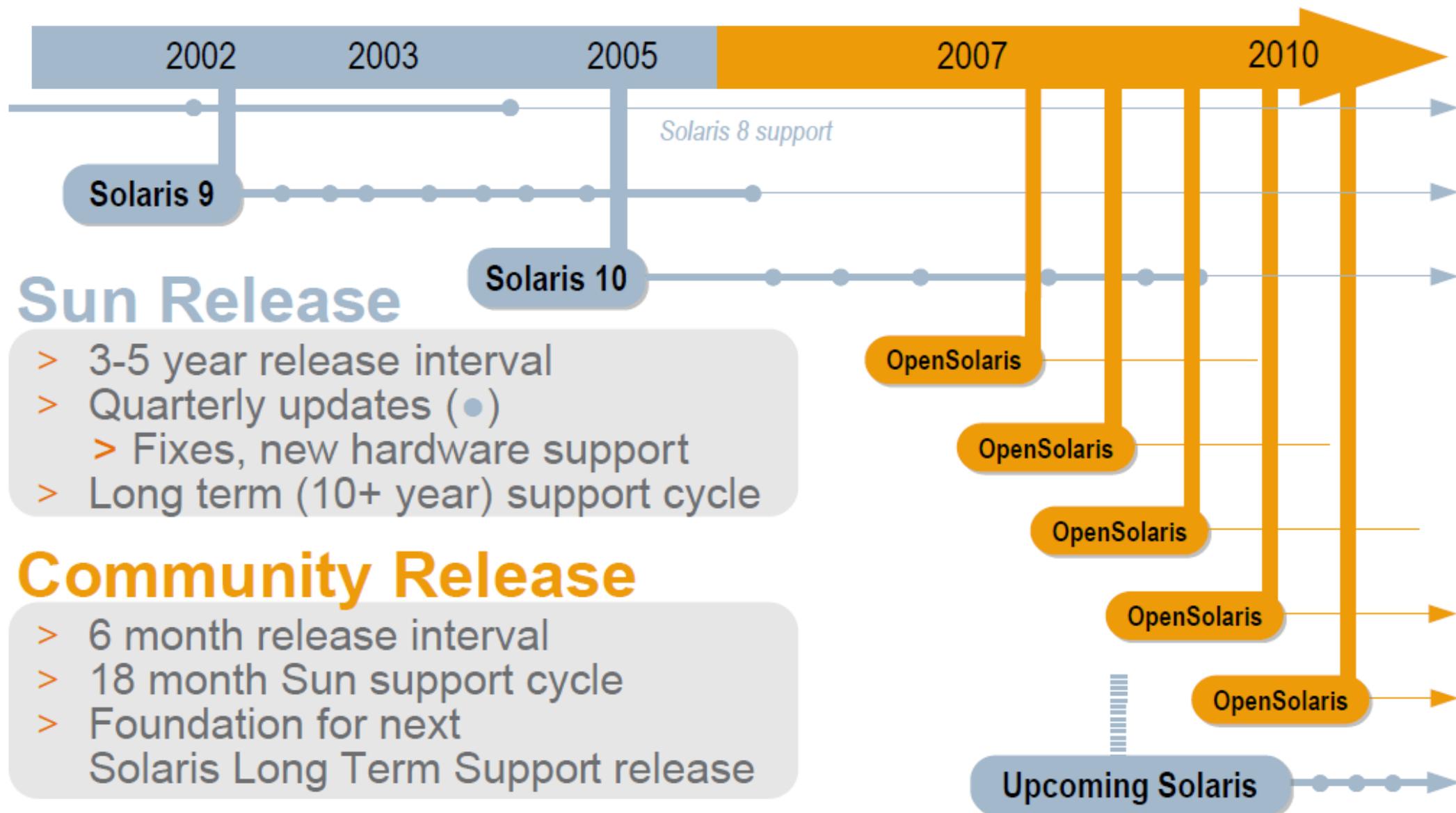
Inspect and  
Optimize  
with DTTrace

# Personalize with IPS

# Protect and Rollback with ZFS

# Solaris Release Model

## 20 Years, One Development Train



# Contributing

Community building rests on the notion of welcoming contributions.

# Defining Contributions

Code, Scripts, Tests, Help, Presentations,  
User Groups, Conferences, Artwork,  
Translations, University Courses, Graphics,  
Ads, Training Materials, Screencasts, Videos,  
Wikis, Evangelism, Docs, Articles, Blogs,  
Podcasts, Development Process, Tutorials,  
Input Methods, Feedback, SCM,  
Emancipation, DTS, Distributions, Books,  
Ports, Governance, Packages ...

condensolaris

# The Secret



**Community Building is Personal**

# Working the Secret

- There are no short cuts. It takes time.
- Take the initiative. Assert yourself.
  - Find a Community or Project. Join the list, observe, introduce yourself, ask questions, start small.
  - Offer to do something concrete: fix something, update something, translate something. Get a commitment.
  - Go and do that something. Actually do it.
  - Ask leaders to walk you through a contribution process.
  - No process? Write one. No leaders? Be one.
- Participate: Projects & Communities  
<http://opensolaris.org/os/participate/>

**Japan**

# OpenSolaris in Japan

- Multi Phase Approach
- Sun Customer Base
- Tokyo Linux User Group
- Tokyo2Point0
- Developers' Lounge
- Cross Cultural Engineering
- Contributions
- g11n, marketing, engineering, education

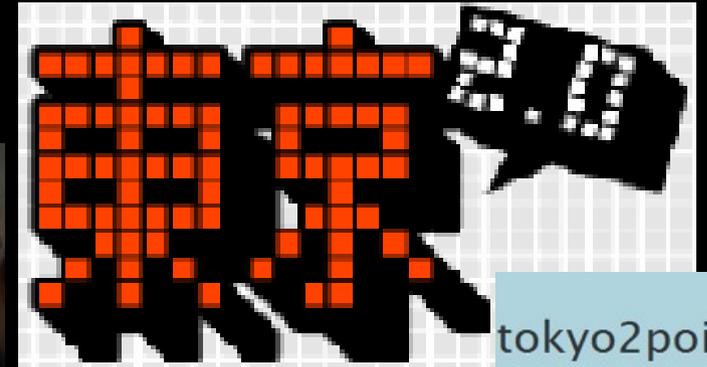
# Sun Customer Base



# Tokyo Linux UG



# Tokyo2Point0



# The Lounge & The Nomikai



# Cross Cultural Engineering



**Finally ...**



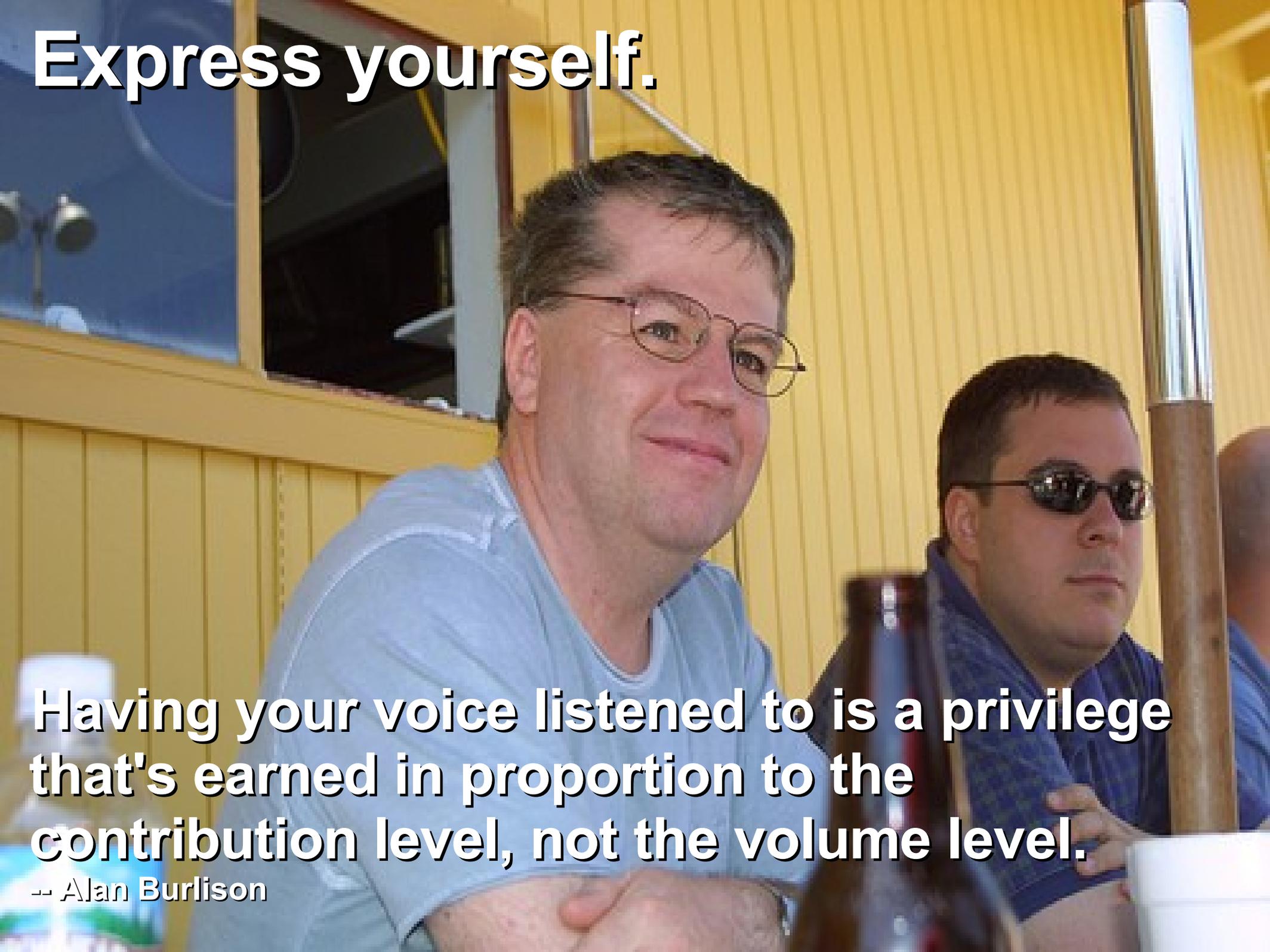
**Get Involved!**

Colorful stylized text on a neon sign, possibly reading "Colorful" or "Cultural".



**Be bold.**

# Express yourself.



**Having your voice listened to is a privilege that's earned in proportion to the contribution level, not the volume level.**

— Alan Burlison

# Take Action!



Ideas are expressed in code. The implementation is the idea. – Bryan Cantrill

```

T(SOB)_TYPEI(sob_ops) == I
w SOB)_USER_PI) { curthrea
st_flag | = T_WAKEABLE; } w
CL_SLEEP (t); /* assign kerne
priority */ THREAD_SLEEP (t,
etc-etc_lock); t->wchan = s
t->sob_ops = sob_ops; lw
OTRACE_SCHIED (sleep); if (w

```

狂热会员

open SOLARIS™

# That's it. Thank you!

Jim Grisanzio

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Member, OpenSolaris Governing Board

Sun Microsystems

<http://blogs.sun.com/jimgris> | [jim.grisanzio@sun.com](mailto:jim.grisanzio@sun.com)

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Notes associated with this presentation can be found in English, Japanese, Simplified Chinese, Spanish, Russian, and Brazilian Portuguese: <http://blogs.sun.com/jimgris/tags/building>

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