

BIND 10: How We Do Stuff

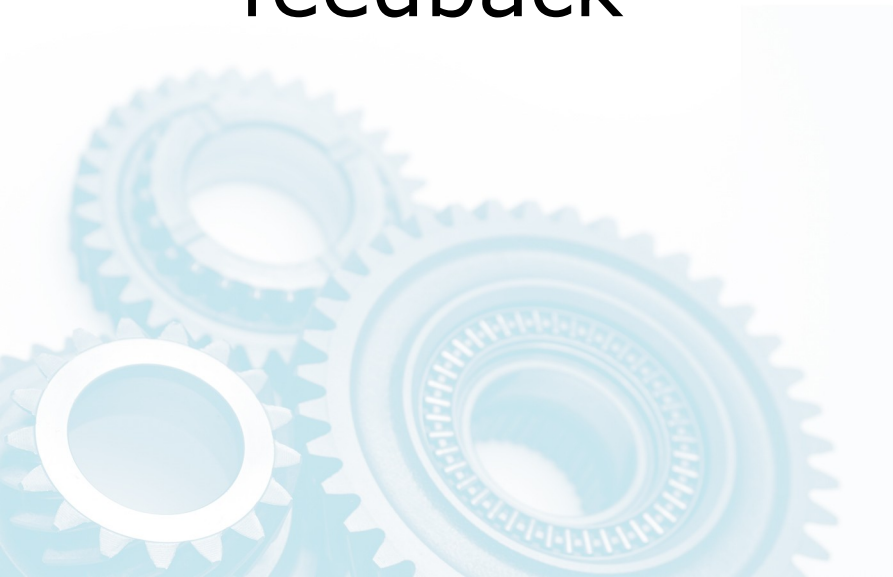
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Objectives

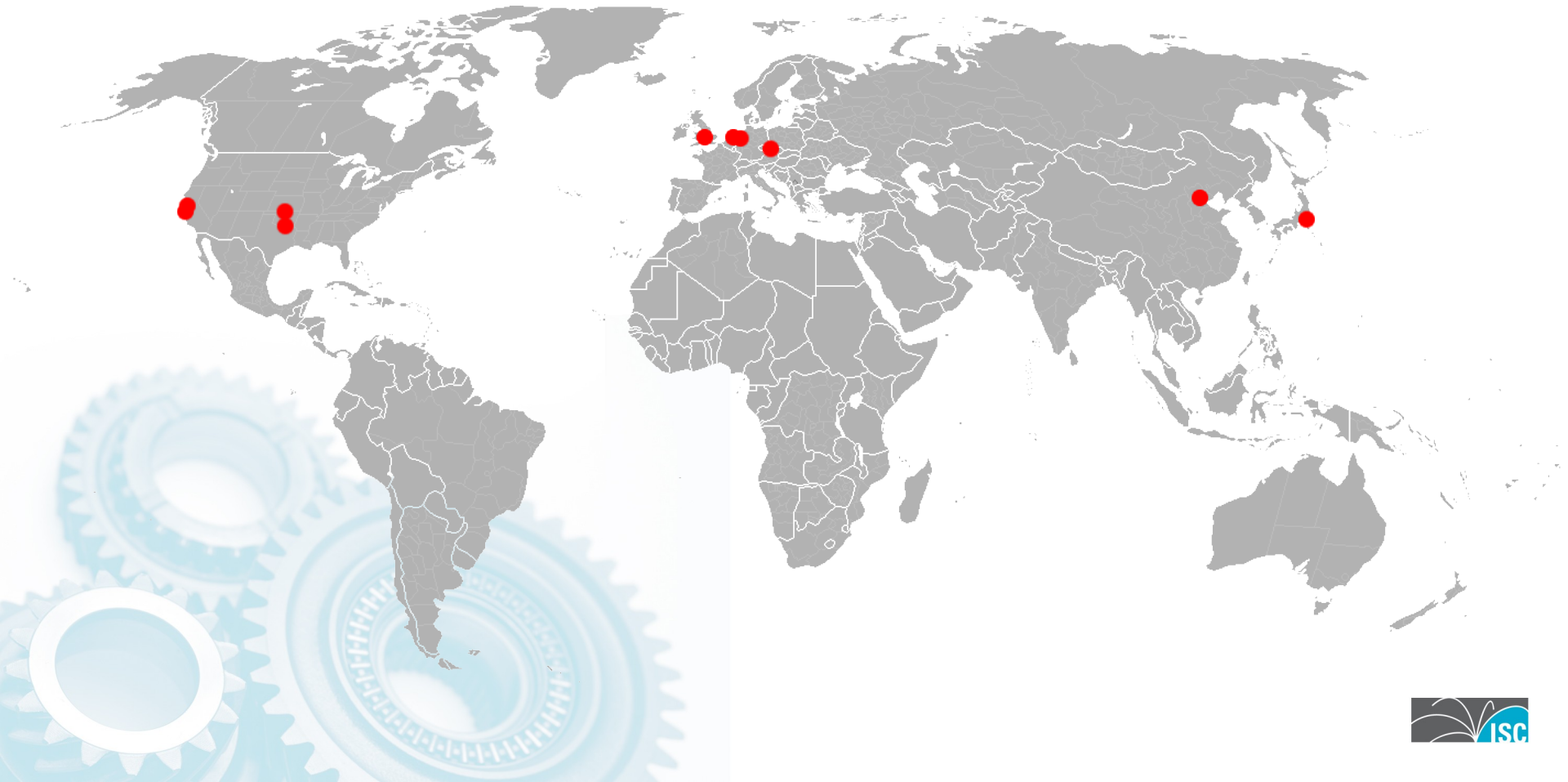
Share techniques we use so that:

1. Rest of ISC can steal what might work for them
2. BIND 10 can get advice & other feedback



Challenges I: Time

- 6 time zones; 16 hours of spread



Challenges II: Space

- 4 corporate offices
- 8 home offices

Only JPRS & CNNIC engineers work in the same physical office with other BIND 10 staff!

- Face-to-face meetings require EPIC TRAVEL by at least some of the team



Challenges III: Time Again

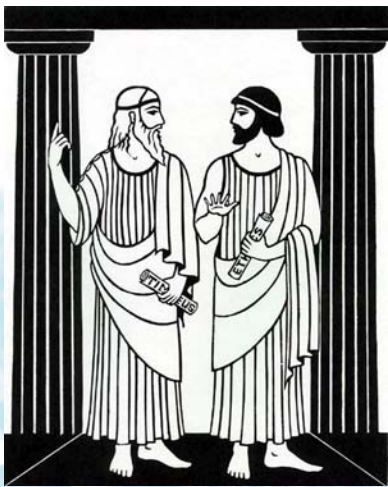
- Expected lifetime: 5 years
- Longest project for me...
- Longest ISC project evar?!?!?11
- Team members will come & go



Challenges IV: Culture

- Sponsor & team member cultures
- ISC culture

*The things you do without knowing
that you do them.*



How We Do Stuff

- Communication
- Tools & Techniques
- Organization



Communication:

Peer to Peer Communication

- VoIP
- Jabber
- E-mail
- Walk over to someone's desk
(JPRS and CNNIC only)



Communication:

Face to Face Meetings

- About 3 per year
 - Mostly at 950 Charter St.
 - One in Beijing, next year in Prague
- A full week. FULL.
- Published – but flexible – agenda
- Minuted
- Varies in focus

Communication: Weekly Conference Calls

- Tuesdays @ 15:00 UTC
 - 00:00 Tokyo
 - 08:00 PDT, 07:00 PST
- ISC VoIP room (1337)
- WebEx – good for JPRS & CNNIC
- Published agenda
- Minuted (in real time!)
- 90 minute hard limit (usually less)

Communication:

Daily “stand-up meetings”

- Out of Scrum world
- Daily at:
 - 09:00 UTC (Eastern hemisphere)
 - 10:30 PT (Western hemisphere)
- 10 minutes
- Starts ON TIME
- “I did this”, “I will do that”, “help!”

Communication: Jabber

- bind10 room on jabber.isc.org
- Unofficial... “just a tool”
- Logged – FOR INTERNAL USE ONLY
- Currently open



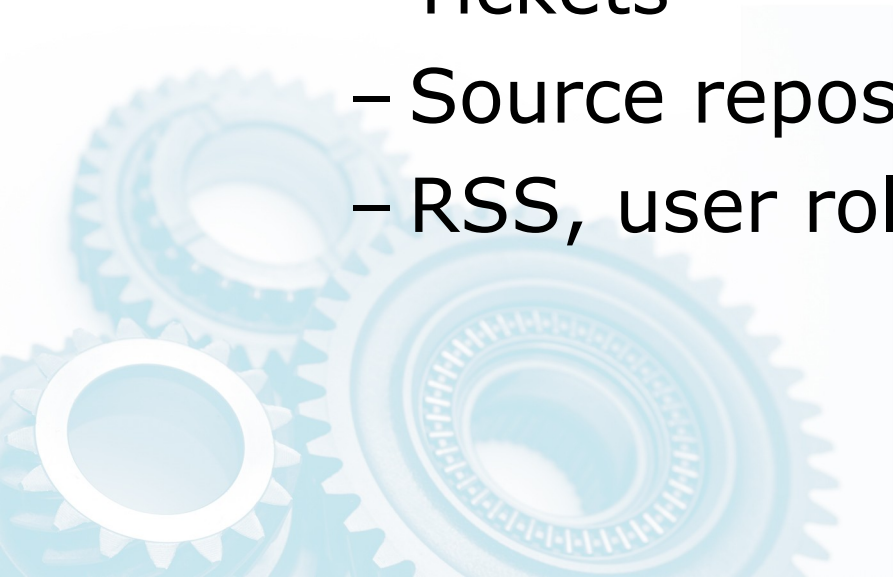
Communication: E-mail

- bind10-steering
- bind10-announce (+bind-announce)
- bind10-users
- bind10-dev
- bind10-team



Tools & Techniques: Trac

- Came from IRRToolSet experience
- Web-based development tool
 - Wiki
 - Release planning
 - Tickets
 - Source repository integration
 - RSS, user roles, other stuff...



Tools & Techniques: Subversion

- Chosen by fiat
- “Better CVS”
- Works okay... *is* a better CVS
- Replacing with git
- ***PUBLIC***

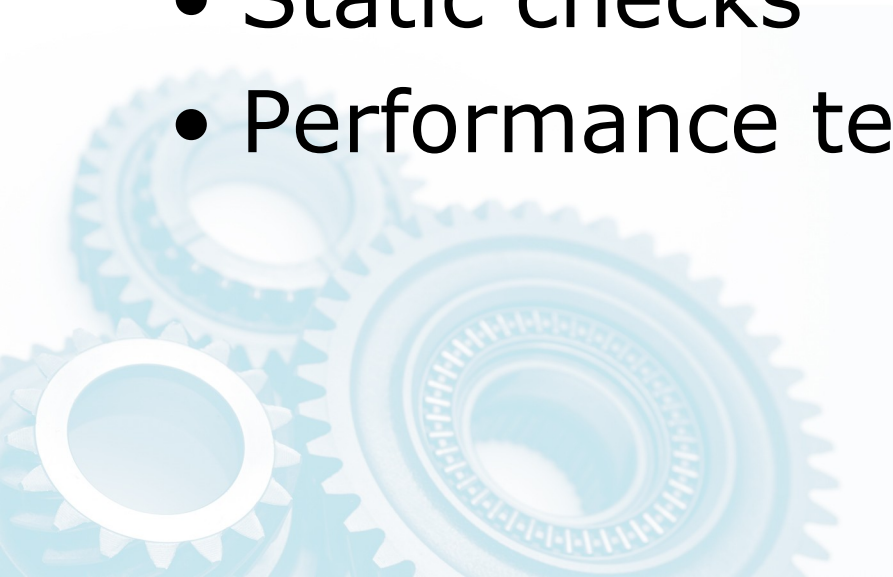


Hanging Your Washing Out

- Users see latest & greatest
- Users can get *any* change
- Developer comments visible
- Private branches need special care
- Security issues are tricky

Tools & Techniques: Code Quality Help

- Code coverage reports
 - C++ and Python
- Build and unit tests
 - Various CPU, OS, compilers
- Static checks
- Performance tests



Organization: Review Process

- All code is reviewed by someone
- Documented on Trac site:
 - Describes process
 - Include checklist
 - Refers to other guidelines



Organization: Releases

- Development snapshots
 - Builds
 - Passes tests
 - Documentation updated
- Documented on Trac site
- 4-6 weeks per release (may change)
- “new feature freeze”
- “code freeze”

Organization:

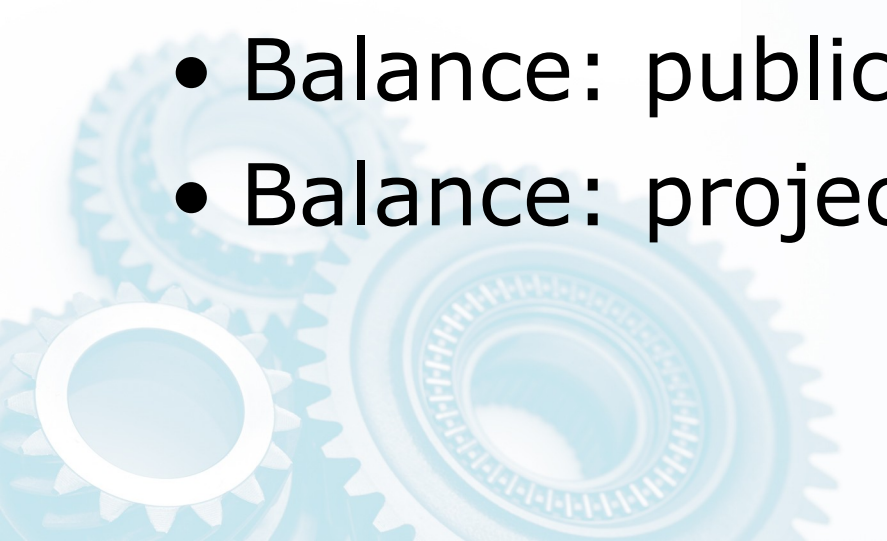
Documentation Review

- Documents need to be reviewed
- Re-review is also necessary
 - Goal is for each document to have a periodic review
 - No tools for this yet, but someday...



Known Problems

- Agendas, status updates, and so on
 - Not fun
 - Tend to get forgotten or arrive late
- Project plans
 - Everyone wants detail
- Balance: publicity & obscurity
- Balance: project & non-project work



Questions? Comments?

