



# OpenClinica's Development Model

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# What is Open Source Software (OSS)?



**OpenClinica**

Open Source for Clinical Research

- The freedom to run a program, for any purpose
- The freedom to study how a program works and adapt it to a person's needs. Access to the source code is a precondition for this
- The freedom to redistribute copies so that you can help your neighbor
- The freedom to improve a program and release improvements to the public, so the whole community benefits. Access to source code is a precondition for this.

*Ethic of code sharing, peer review, free software dates to early days of computing*

*"Open Source" label gained prominence in late 1990s*

Source: Free Software Foundation, <http://www.fsf.org/licensing/essays/free-sw.html>

Also see Open Source Software Definition, <http://www.opensource.org/docs/osd>

# YOU Use Open Source!

## OpenClinica

Open Source for Clinical Research

### ■ The underpinnings of the Web are open source:

- Java
- PHP
- HTML
- Sendmail
- Apache
- Linux
- Unix
- Mac OS X
- Firefox
- MySQL
- Posgtgres
- Android
- Chrome



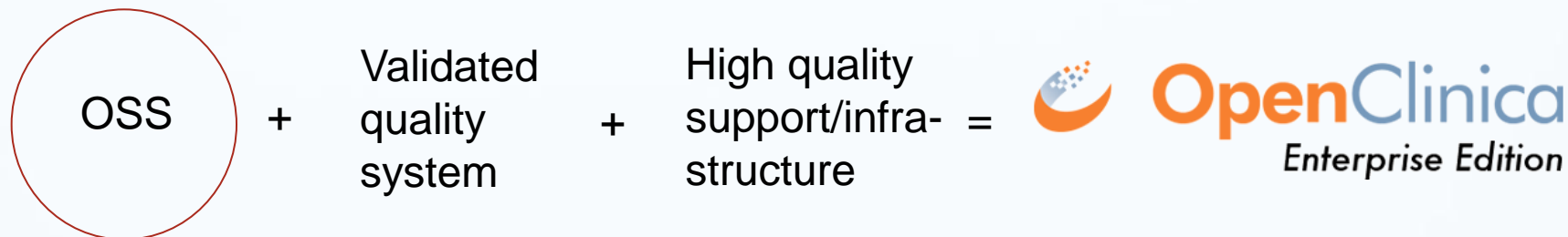
### ■ There are hundreds of thousands of OSS projects\*

\*SourceForge alone hosted 230,00 as of June 1, 2010. See <http://sourceforge.net/about>.



# Why open source?

- Our Commercial open source model:



- We believe that:
  - Success with EDC software does not come from the software itself, but in how it is implemented, used, and supported.
  - A vibrant open source community can create an EDC technology platform that is superior in many ways.

# Why open source

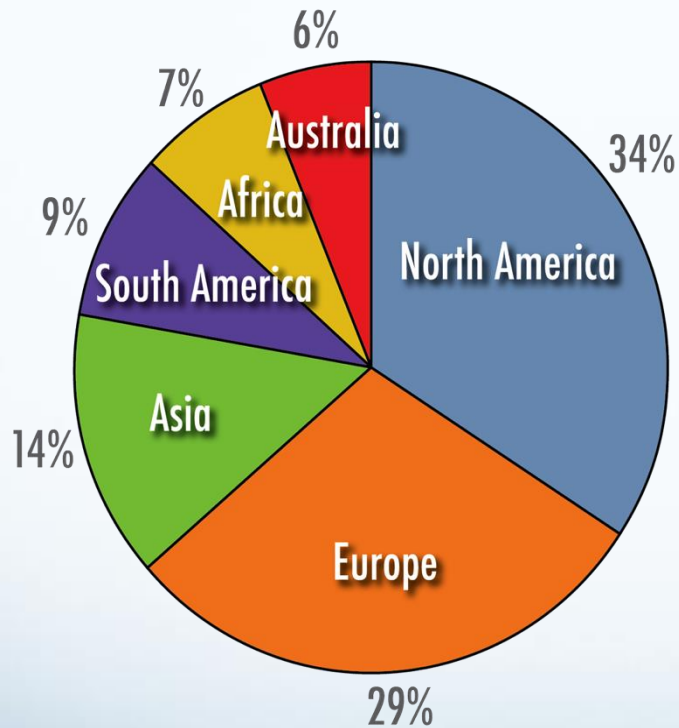
- Enhanced innovation
- Accelerated adoption
- Lower sales and marketing costs

Thus far, this strategy has yielded:

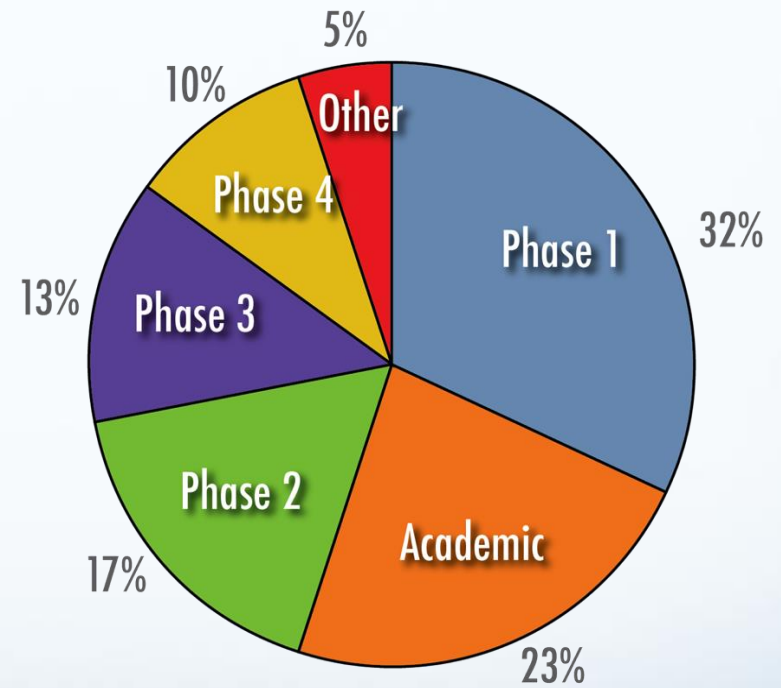
- Widespread geographic adoption; half academic, half industry
- Usage in thousands of studies of all types
- A community with over 18,000 registered members
- The fastest growing clinical trial software

# OpenClinica Usage

## Geographic Distribution



## Study Types



# Who uses OpenClinica?

■ Industry sponsors

■ Contract Research Organizations (CROs)

■ Academic Centers

■ Government Agencies



# Why do people adopt OpenClinica?

- Open source guarantees freedoms
- Robust, commercial grade support
- Can be easily adapted and extended
- Removes barriers
- Improved transparency, accuracy, and interoperability



# OpenClinica Editions

- **Community Edition**  
Freely available and provides basic EDC and clinical data management capabilities. Community supported.
- **Enterprise Edition**  
Enhanced, certified, and fully supported for mission-critical settings. Available “per study” or multiple studies.

# Developing the OpenClinica Software

- A key to maximizing our joint success is through a vibrant and innovative open source community.
- This is enabled by **transparency** and **collaboration**.
- Key public resources:
  - Docs site (<https://docs.openclinica.com>): User Guide, Technical Guide, Product Roadmap
  - JIRA ([jira.openclinica.com](https://jira.openclinica.com) – manages development backlog (bugs and new features)
  - Code repository (Mercurial) - OpenClinica's development team puts out developer releases every 3 weeks (every iteration) [dev.openclinica.com/hg](https://dev.openclinica.com/hg) (login req'd)
  - Mailing lists ([users@openclinica.org](mailto:users@openclinica.org), [developers@openclinica.org](mailto:developers@openclinica.org)). Archives:
    - <https://mailman.openclinica.com/pipermail/users/>
    - <https://mailman.openclinica.com/pipermail/developers/>

# Product Roadmap and Backlog

- Product Backlog:
  - <https://docs.openclinica.com/release-notes>
- Using Jira:
  - [jira.openclinica.com](https://jira.openclinica.com)
  - Work organized into “projects”
  - Backlog
  - How to add a new ticket, comment on an existing ticket
  - Detailed information about progress of each issue
  - Agile board



# Interested in Developing with OpenClinica?

Mercurial:



- [dev.openclinica.com/hg](https://dev.openclinica.com/hg)
- Can download latest development releases
- Possible ability to commit can be given to regular, trusted contributors

# OpenClinica Mailing Lists

- 2 lists:
  - For users: [users@openclinica.org](mailto:users@openclinica.org)
  - For developers: [developers@openclinica.org](mailto:developers@openclinica.org)
- List archives:
  - <https://mailman.openclinica.com/pipermail/users/>
  - <https://mailman.openclinica.com/pipermail/developers/>
- Approx 2,000+ subscribers on each list
- Lists are unmoderated and non-commercial
- Great place to get feedback, obtain support for an idea, ask a question. People who do this gain visibility for themselves and their company.
- Will likely soon be converted into a discussion board format

# Questions & Answers

- Thank you for your time!