

# Phasor Data Observations

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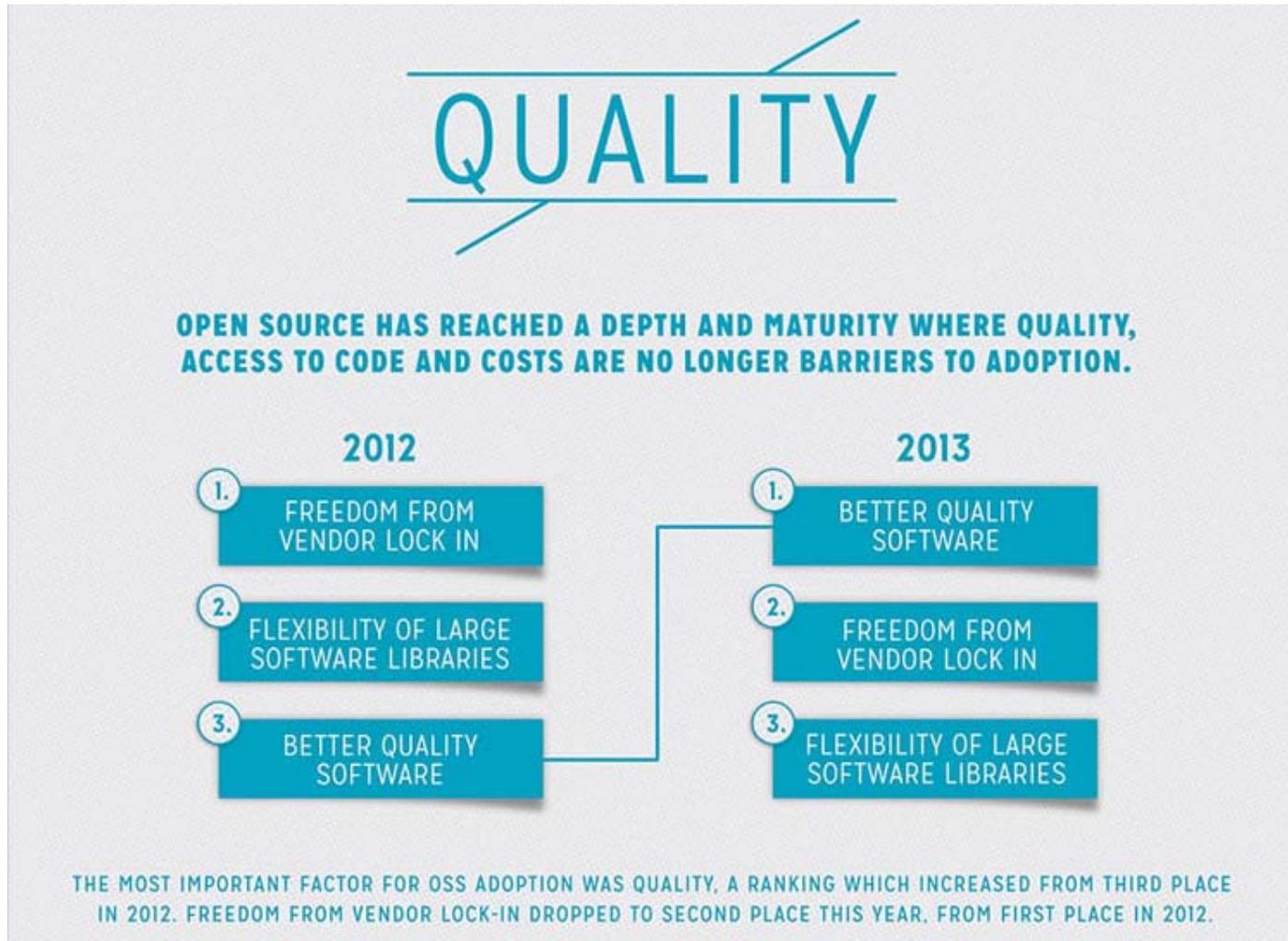
- Change control / configuration processes
  - Data Quality / Conditioning
  - Speed of historical data extracts
  - Loading of internal networks
  - Exchange of configuration data
  - Integration of phasor data with internal systems
  - Exchange of analytic / visualization information
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# Building an Open Source Community

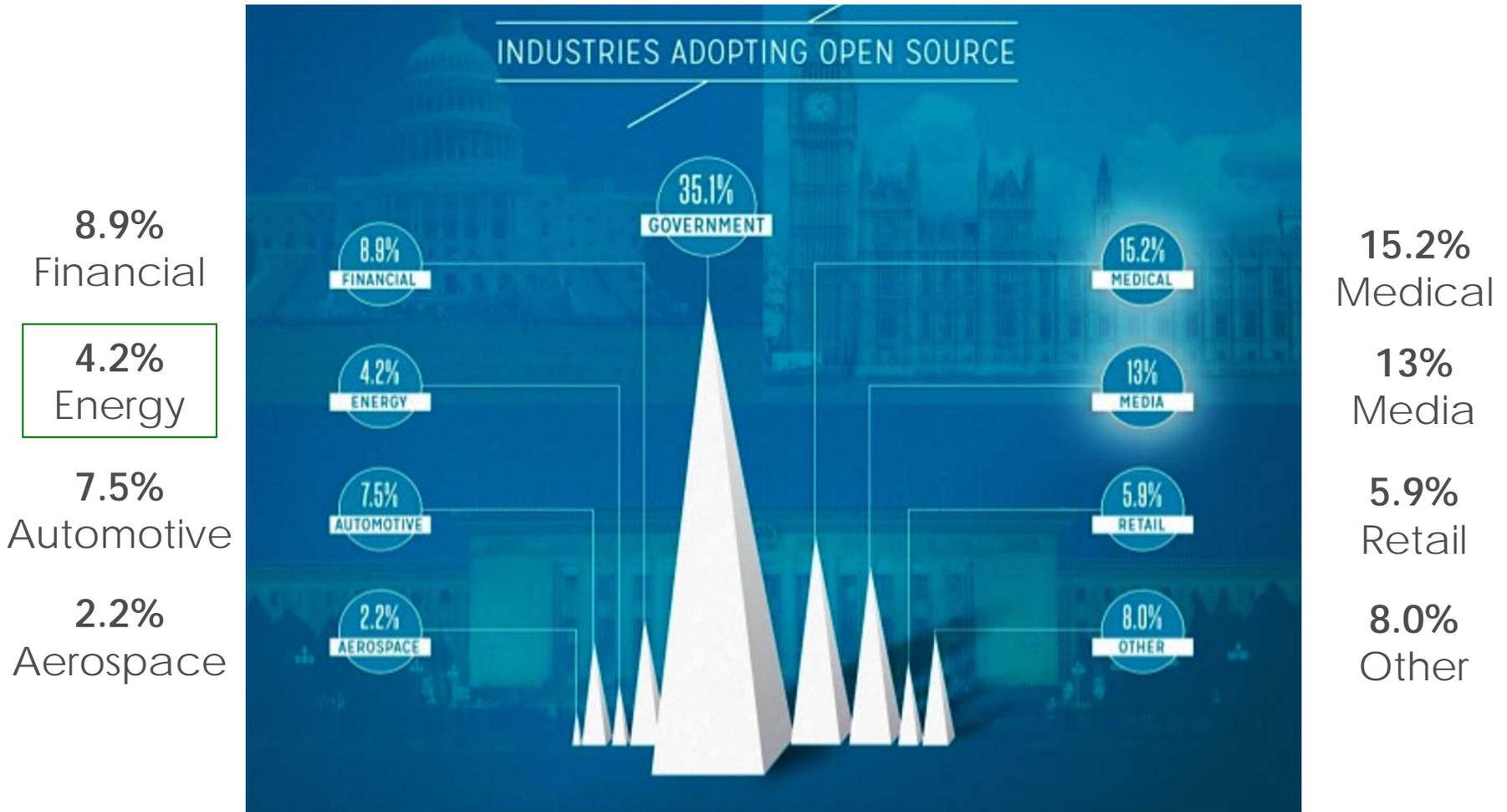
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# Value of OSS



Source: Black Duck Software. *The 2013 Future of Open Source Software Survey Results*

# Energy On the Low-Side of Use



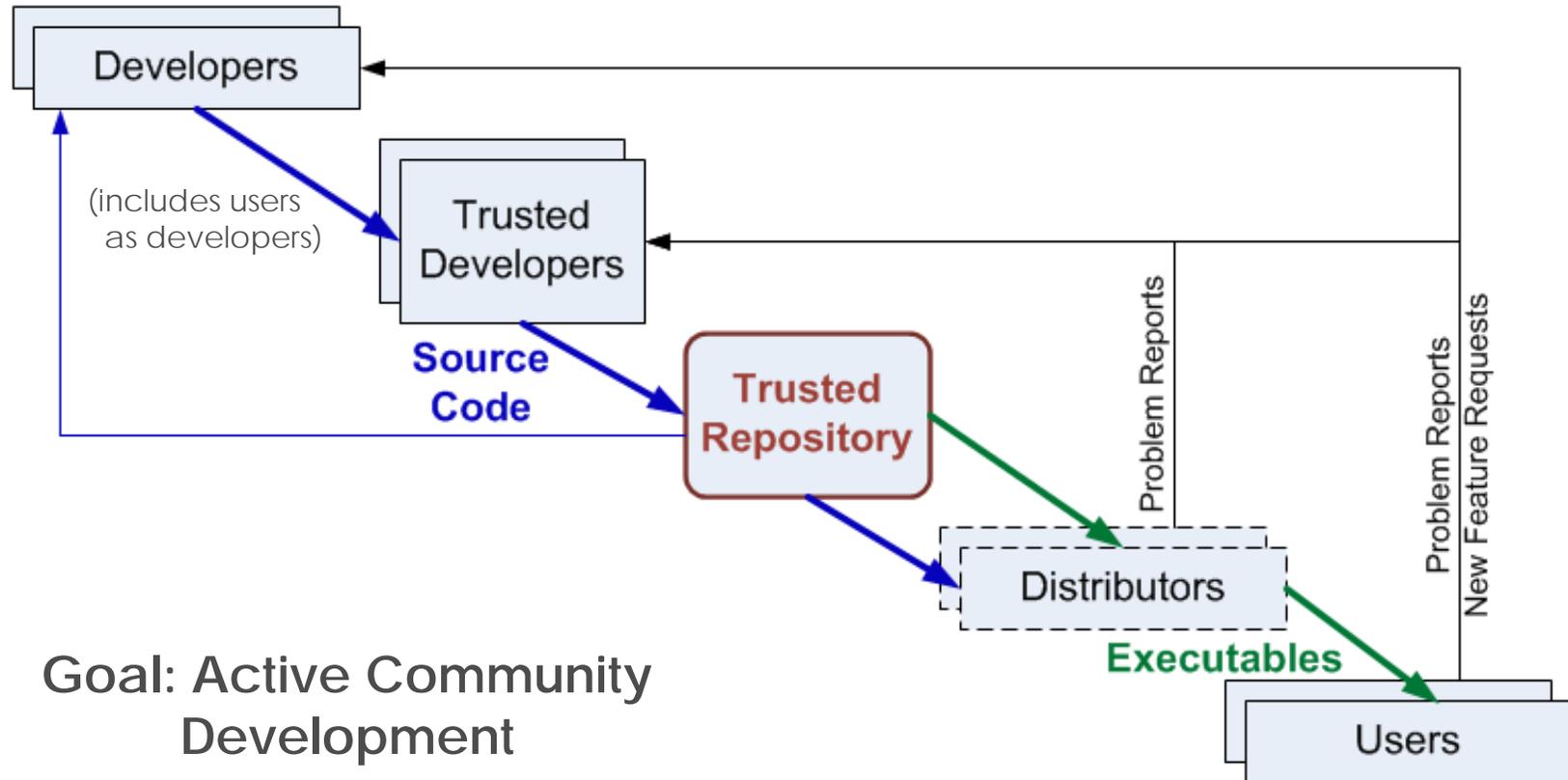
Source: Black Duck Software. *The 2013 Future of Open Source Software Survey Results*

# Is the OSS debate closed?

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- 30% of participating corporations “make it easy” for employees to participate in OSS projects
- 50% see OSS as a means to retain competitive advantage
- 68% see OSS as a way to lower cost and improve efficiency
- 72% of those selecting OSS say that “many eyes” makes OSS more secure

# OSS Development Model



From David A. Wheeler Presentation, 11/4/2009

# Value of Community

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## To OSS owner

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- Improved Quality --  
Larger test base
- Lower Cost – Shared cost of debugging / extension
- Improved Security – More eyes
- Corporate promotion

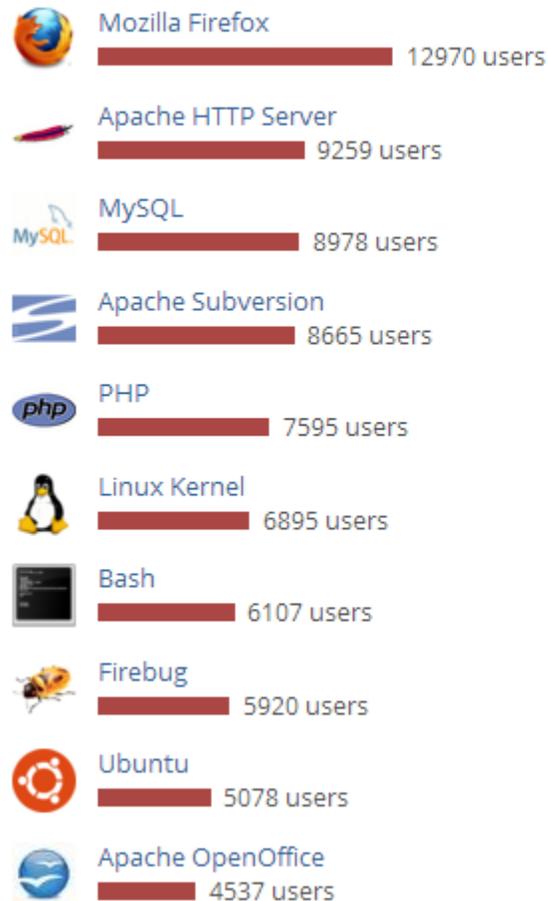
## To Participant

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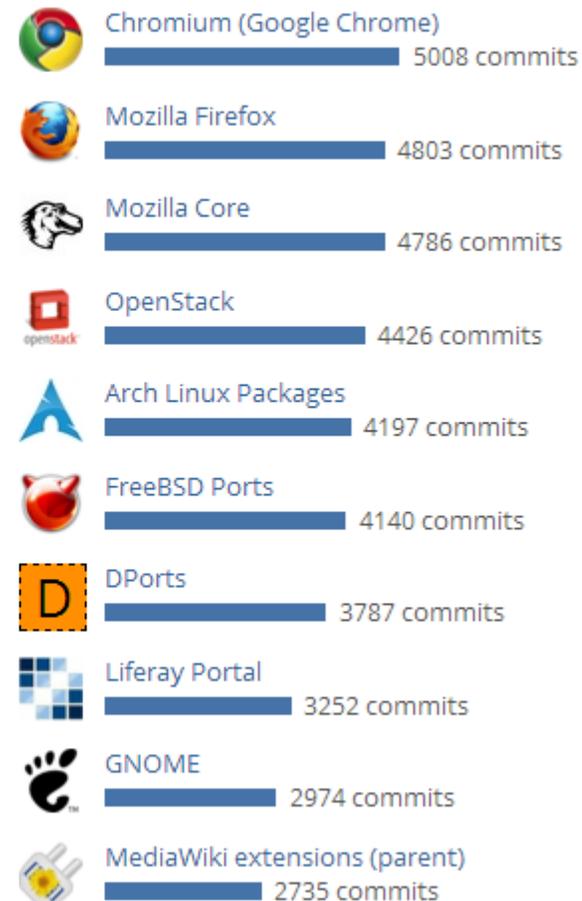
- Lower cost
  - Develop high-quality solutions quickly
  - Shape overall project direction
  - Obtain support for implementation of extensions
- Professional Growth --  
Improved inventory of techniques and skills

# Ohloh Tracks ~ 650K OSS Projects

## Most Popular Projects



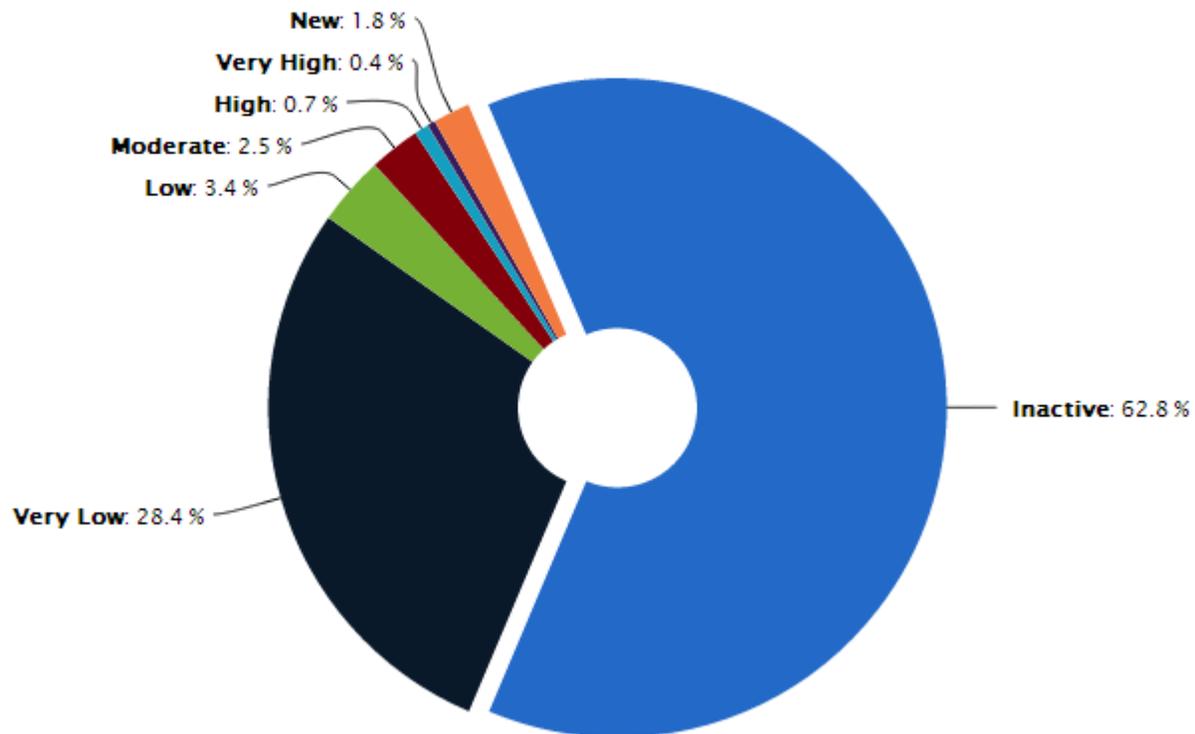
## Most Active Projects



# OSS Project Activity – 3.6% > Low

## Project Demographics by PAI

337,876 Projects out of 664,799 total have a PAI available



# Grid Open Source Software Alliance

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- **Focus:** Electric energy industry open source software
- **Business structure:** Not-for-profit corporation
- **Approach:** Public-private collaboration
- **Initial scope:** Defined with input from EPRI, NERC, NRECA, University of Illinois, DOE, PJM and a variety of electric energy stakeholders
- **Key stakeholders:** Utilities, electric entities, government agencies, universities, suppliers and international participants

# GOSSA Value Add

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- Guidelines  
Develop and maintain Grid OSS development and quality requirements
- Community Interaction  
Provide a forum for the grid community to collaborate, to identify the need for, and to develop and improve Grid OSS
- Grid OSS Inventory Awareness  
Maintenance of a virtual, one-stop shop for Grid OSS with regular updates provided to the GOSSA community
- Technology Transfer  
Support the distribution, utilization and integration of Grid OSS
- Technical Support Network Development  
Provide support to Grid OSS developers and users

EPRI is currently funding GOSSA to conduct a survey of the electric industry to determine level of OSS acceptance and barriers to industry community participation.