

The Guided Evolution of Open Source Communities

Georg Link

Matt Germonprez

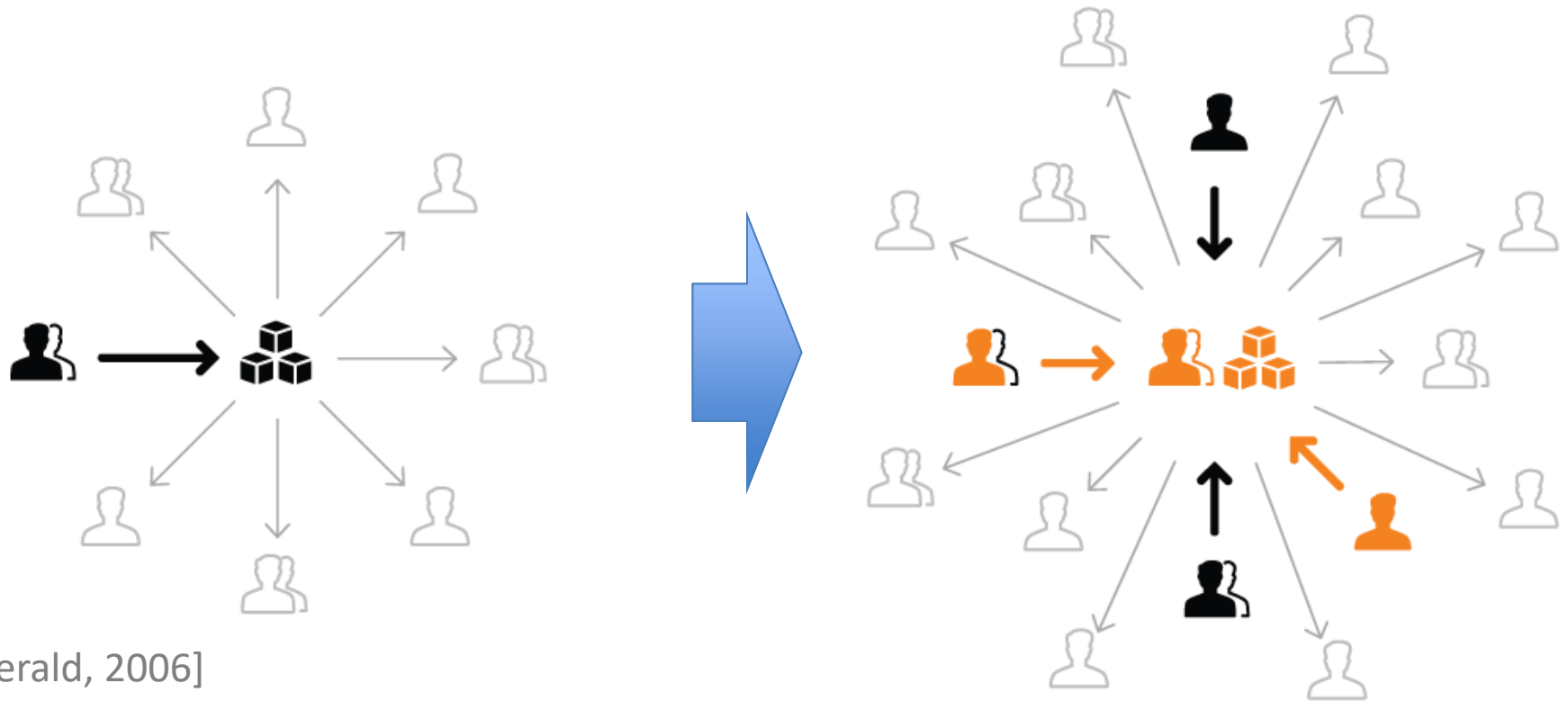
14th Annual Big XII+ MIS Research Symposium



Agenda

- Open source communities evolve
- Corporate influence
- Open source foundations
- Changing Relationships
- Example FOSSology
- Research Question
- Method

Open source communities evolve



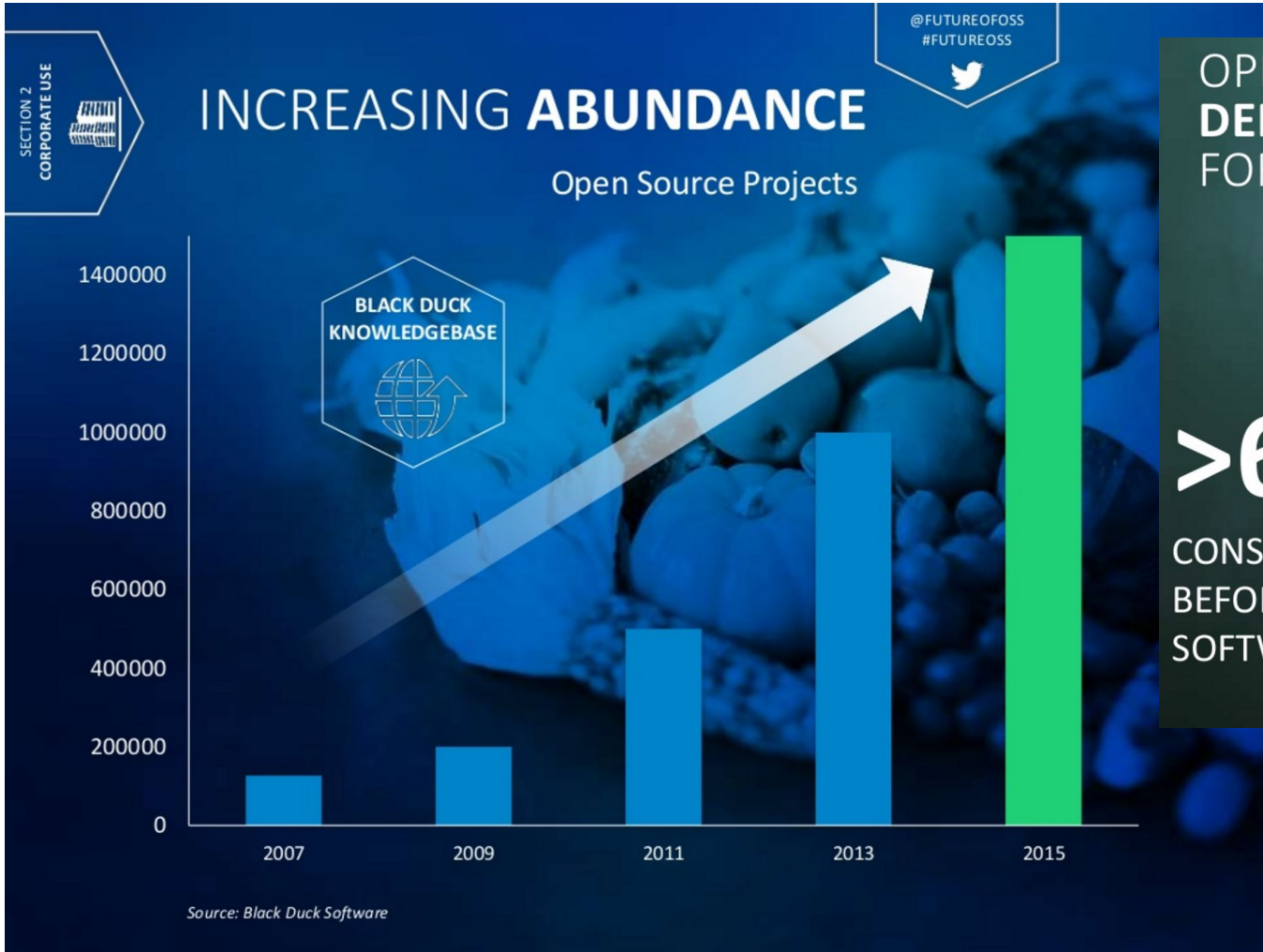
[Fitzgerald, 2006]

[Lee, Kim, & Gupta, 2009]

[Méndez-Durón & García, 2009]

[Spaeth, Krogh, & He, 2015]


Open source is growing



OPEN SOURCE IS THE
DEFAULT APPROACH
FOR SOFTWARE

>66%

CONSIDER OSS OPTIONS
BEFORE PROPRIETARY
SOFTWARE ALTERNATIVES



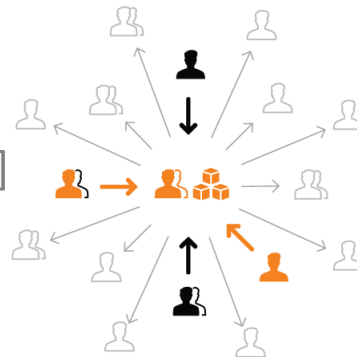
Organizations engage with open source communities



Organization



Open Source Community



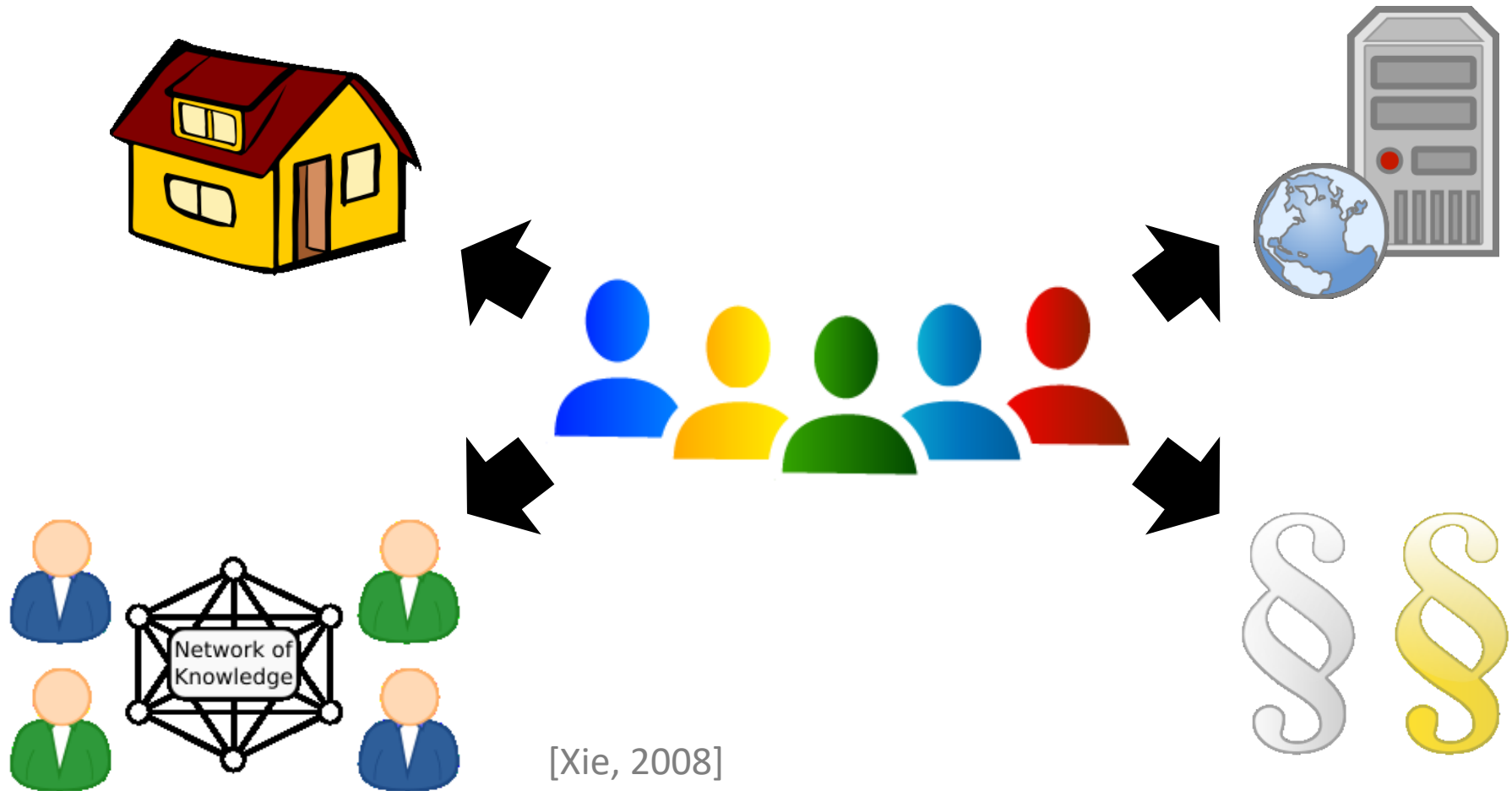
[Beecher, Capiluppi, & Boldyreff, 2009]

[Dahlander & Wallin, 2006]

[Germonprez & Levy, 2015]

[Kelty, 2013]

Open source foundations provide services and guidance



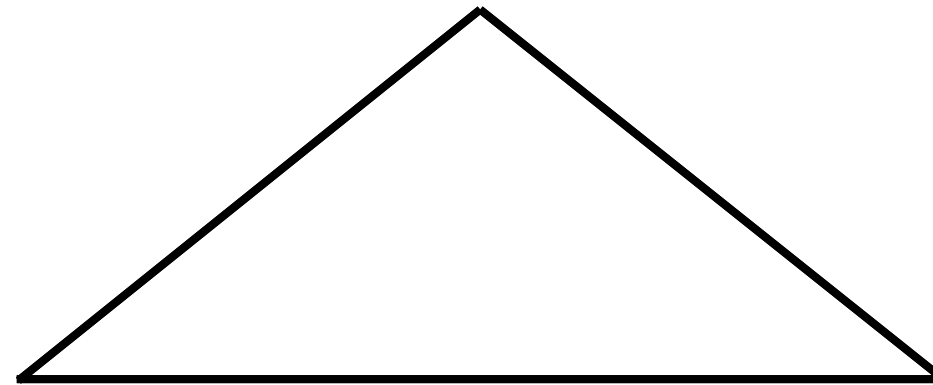
[Xie, 2008]

[Collaborative Projects, 2015]

Adjustments in the relationships occur

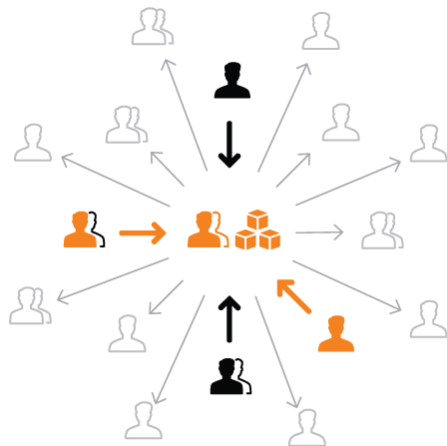


Organization



Open Source
Community

Open Source
Foundation



FOSSology was released open source and joined the Linux Foundation



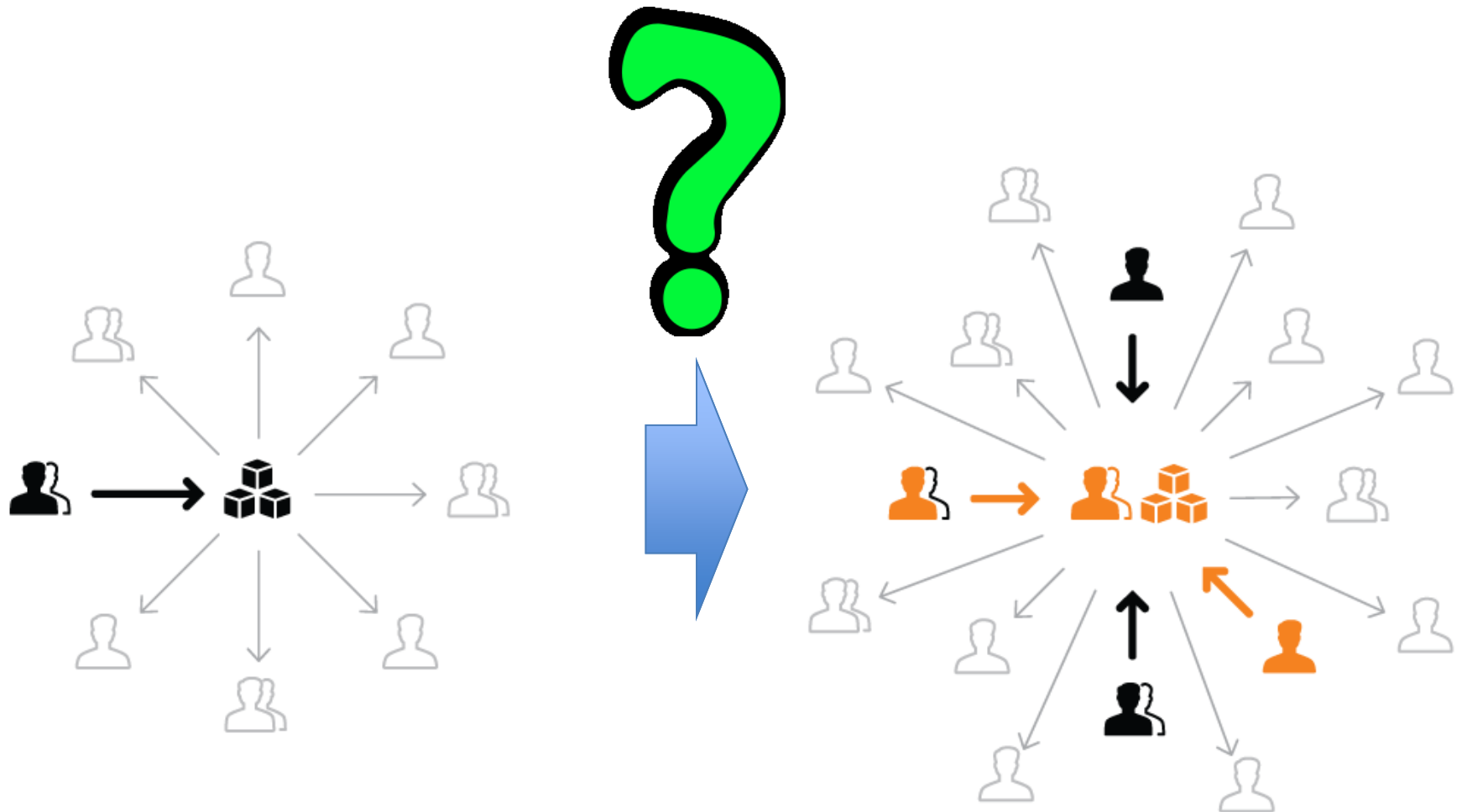
Research Questions

- RQ 1: How are health and sustainability factors used to determine which communities are supported by the Linux Foundation?
- RQ 2: How do health and sustainability factors change as open source communities evolve?
- RQ 3: How are health and sustainability factors understood by different community stakeholders?

RQ 1: How are health and sustainability factors used to determine which communities are supported by the Linux Foundation?



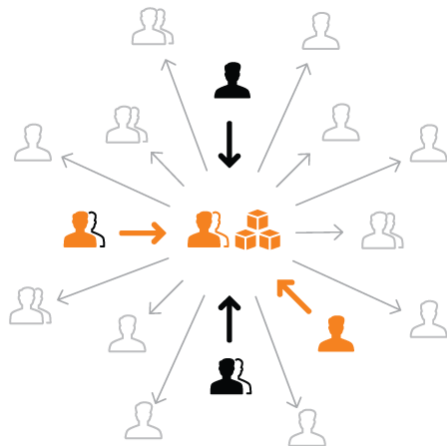
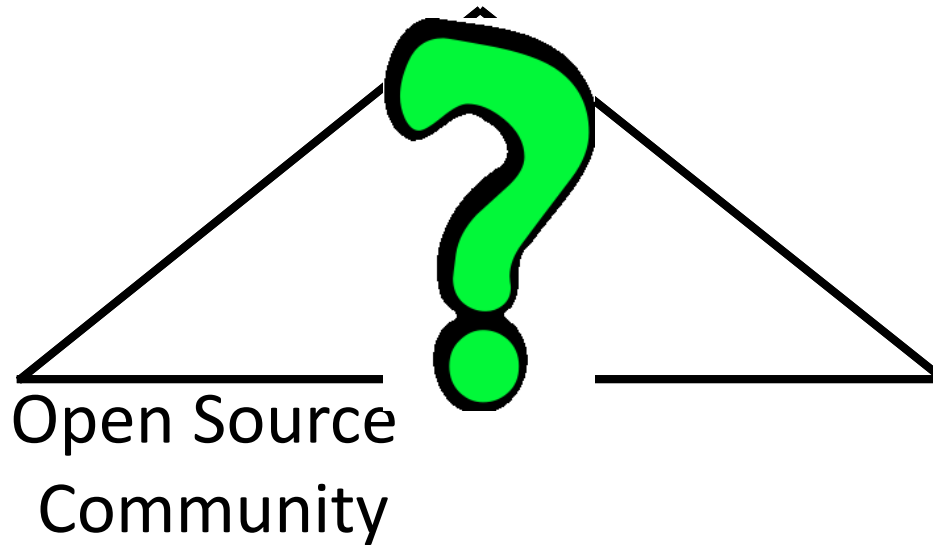
RQ 2 How do health and sustainability factors change as open source communities evolve?



RQ 3 How are health and sustainability factors understood by different community stakeholders?



Organization



Learning through participant observation



[Kozinets, 2015]

[van Maanen, 1988]

[Weick, 1989]

[Boyatzis, 1998]

Contributions

- Understanding communal health and sustainability throughout community evolution
- Linux Foundation can adjust its guidance of open source community evolution
- Communal preparation and mastery of challenges in open source community evolution

UNIVERSITY OF
Nebraska
Omaha



References

- Beecher, K., Capiluppi, A., & Boldyreff, C. (2009). Identifying exogenous drivers and evolutionary stages in FLOSS projects. *Journal Systems and Software*, 82(5), 739–750. <http://doi.org/10.1016/j.jss.2008.10.026>
- Black Duck Software. (2015, April). 2015 Future of Open Source Survey Results. Retrieved from <http://www.slideshare.net/blackducksoftware/2015-future-of-open-source-survey-results>
- Boyatzis, R. E. (1998). *Transforming qualitative information: Thematic analysis and code development*. Sage Publications, Thousand Oaks, CA.
- Collaborative Projects. (2015). Retrieved from <http://collabprojects.linuxfoundation.org/>
- Dahlander, L., & Wallin, M. W. (2006). A man on the inside: Unlocking communities as complementary assets. *Research Policy*, 35(8), 1243–1259. <http://doi.org/10.1016/j.respol.2006.09.011>
- Fitzgerald, B. (2006). The Transformation of Open Source Software. *MIS Quarterly*, 30(3), 587–598.
- Germonprez, M., & Levy, M. (2015). Is it Egalitarianism or Enterprise Strategy? Exploring a New Method of Innovation in Open Source. Retrieved from <http://aisel.aisnet.org/amcis2015/StrategicUse/GeneralPresentations/18/>
- Kelty, C. M. (2013). There is No Free Software. *Journal of Peer Production*, (3). Retrieved from <http://peerproduction.net/issues/issue-3-free-software-epistemics/debate/there-is-no-free-software/>
- Kozinets, R. V. (2015). *Netnography: Redefined*. SAGE Publications.
- Lee, S.-Y. T., Kim, H.-W., & Gupta, S. (2009). Measuring open source software success. *Omega*, 37(2), 426–438. <http://doi.org/10.1016/j.omega.2007.05.005>
- Méndez-Durón, R., & García, C. (2009). Returns from social capital in open source software networks. *Journal of Evolutionary Economics*, 19(2), 277–295. <http://doi.org/10.1007/s00191-008-0125-5>
- Spaeth, S., Krogh, G. von, & He, F. (2015). Research Note—Perceived Firm Attributes and Intrinsic Motivation in Sponsored Open Source Software Projects. *Information Systems Research*, 26(1), 224–237. <http://doi.org/10.1287/isre.2014.0539>
- van Maanen, J. (1988). *Tales of the Field: On Writing Ethnography*. The University of Chicago Press.
- Weick, K. E. (1989). Theory Construction as Disciplined Imagination. *The Academy Management Review*, 14(4), 516–531.
- Xie, Z. (2008). Open source software foundation: Company involvement, governance, and effectiveness. *Pro Quest Dissertations Theses*.

Images

- <https://medium.com/eightshapes-llc/team-models-for-scaling-a-design-system-2cf9d03be6a0#.ej6bwkbfm>
- https://commons.wikimedia.org/wiki/File:Community_engagement_-_logo_for_Wikimedia_France.png
- <https://openclipart.org/>