ORGANIZING FRAMEWORK NEEDED...
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LEVEL 1:
FOSS “PROJECT” RESEARCH

Social organization questions

• Institutional designs
  • publics/commons (Gerson)
  • Bazaar/Cathedral (Wasserman)
  • “Layered collaboration” /
    task granularity – Howison, German
  • Licensing – Jensen, German
  • Central control/decision processes/
    Governance – Repenning, Riedl
  • Requirements gathering – Lyytinen, Bach
  • Communication channels - Peters

• Collaborative tools – Wegstrom
• Leadership – Wallin
• Participants, positions, roles
  • Learning – Mockus
  • Work assignment – Mockus
  • Motivations - Sims
  • Participation - Peters
  • Programmer behavior - Riehle

• Social capital (e.g., trust) – Noll, Howison

... others
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MEDIUM SCALE: DIRECT EXTERNAL INFLUENCES/Generic Issues

Legal
• Licenses (German)
• Heterogeneous ones (Alspaugh)

Usability/Requirements/HCI
  Remix/reuse issues (Bach, Sim, Bach)

Web 2.0, Cloud and FOSS (Wagstrom, Kelty)

Business
• Factors for choosing FOSS/Proprietary – Greiner
• Financial impact/value – Gobeille

Policy issues
• FOSS in high criticality domains – Hissam
• FOSS in higher education – Bowker, Morelli

Government participation

Nonprofit participation

Cultural factors
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Cultural factors

Collective action across/between organizations
• open standards

BROAD SCALE: POLITICAL/ECONOMY OF FOSS

Gov policies
• open standards/interoperability

Adoption research - Madey
• national security
• economic competitiveness
• innovation

Economic impact
• Labor markets

Expansion to other domains
Or other “recursive publics”
• open gov - Wasserman
• hardware – Wagstrom
• science - Morelli

International variation questions

Democratic politics
• Public participation (Kelty)

Culture

Globalization/International collaboration (e.g., US-EU; South-South)
Where are the critical “hotspots” for study in the next 5-10 years?

FINE SCALE: FOSS “PROJECT” RESEARCH

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  - Work assignment – Mockus
  - Motivations - Sims
  - Participation - Peters
  - Programmer behavior – Riehle
  - role of external community

- Social capital (e.g., trust) – Noll, Howison

... others

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A Landsat system for FOSS?

• ND and FlossMole – “remote sensors of FOSS”
• What methods need to be supported?
  – Quant; Case Studies; Longitudinal; Modeling/simulation; network analysis
• What areas of organizing framework are key focal points?
• What sensors/resolution are needed?
  – E.g., standards for case data to promote comparative and meta-analysis
  – Data needed for studying business models
• LTER network for FOSS-related studies
FOSS PROJECT STUDIES

Collaborative structure
- Bazaar/Cathedral
- Central authority/Governance/leadership
- Legal – licenses
- Decision processes
- Positions, roles
- Layered collaboration (short/long tasks)
- Requirements gathering
- Conflicts/conflict resolution
- Knowledge distribution/heterogeneous Participants
- Technological effects

Support infrastructure
- Remixing/reuse
- Collaboration IT

Financing

Team heterogeneity
- Women
- Minorities

Participation

Positions:
Significant focus on internal project issues or multi-project research
Some focus on projects and connections to “external influences”

DIRECT EXTERNAL INFLUENCES

Nonprofits (foundations)

Businesses
- Value and financial impact
- High criticality domains
- Economic models & factors to help firms choose

Team heterogeneity Participation
- Women
- Minorities

Higher education
- FOSS to help higher ed
- Higher ed as contributor to FOSS

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Support infrastructure
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- Collaboration IT

Cultural factors

Interactions

Gov’t Participation
- high criticality domains

Legal
- licenses
- heterogeneous licenses

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FOSS PROJECTS

DIRECT EXTERNAL INFLUENCES

BROADER SOCIO-ECONOMIC SYSTEMS

Democratic Politics
- public participation

Gov policies
- software Procurement
- And broader – e.g., open gov Initiative

Open standards & interoperability

Market structures
- Labor markets – e.g., FOSS developers
- education

Law
- IP law

Culture

Relationship to other “recursive publics”
- e.g., wiki-collaborations,
  Educational sharing,
  Science, etc.

Interactions