



Open source software in Further Education in the UK

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http://www.oss-watch.ac.uk

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- State of OSS in UK FE
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We are...

- National innovation centre supporting open source in Further Education (FE) and Higher Education (HE)
- Free of charge for FE and HE
- JISC-funded since 2003 (4th period of funding)
- Who: Ross Gardler, 5 staff, 4 contractors
- Where: Oxford University Computing Services





What we do

Advice on all things open

- Procurement, engagement, development, legal
- Services
 - Consultancy, events, presentations, community
- Publications
 - Briefing notes, surveys, case studies, slides http://www.oss-watch.ac.uk/resources/







What we don't do

- Advocacy
- Lawyer-like legal advice
- Teach programming
- Develop software for others
- Recommend specific software





Open source software





It starts with a licence

Software released under an OSI approved licence



 In practice, approx. same as free software (FSF)





Open source definition

- Free redistribution
- Source code
- Derived works
- Integrity of the author's work
- No discrimination against persons or groups
- etc. http://www.opensource.org/docs/definition.php





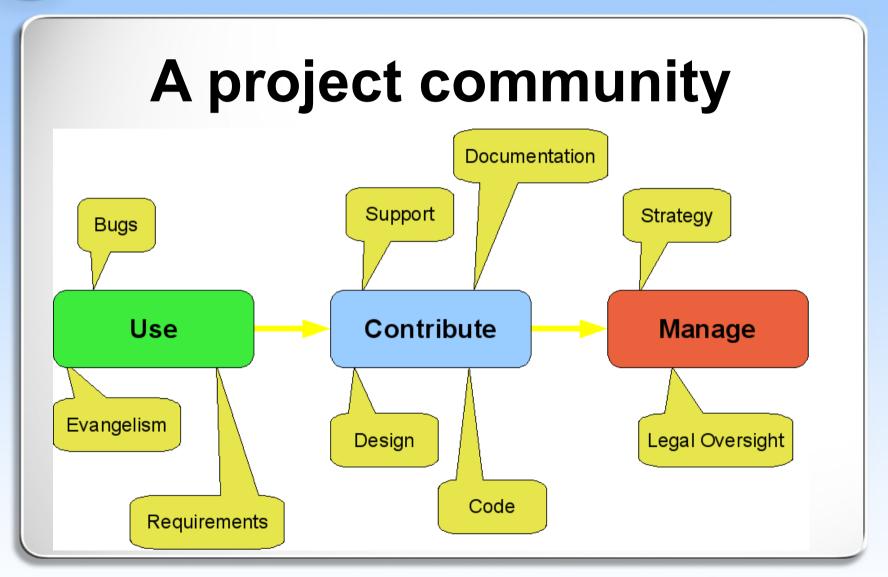
But it's much more than a licence

- "The real value of open source software is that it allows communities to work together and solve problems" [7] I. Wladawsky-Berger, IBM
- Sustainable communities

- Open formats and standards
- Open development











Some myths (1)

Myth

- Anarchic projects managed by volunteers
- Facts
 - Linux Foundation board: Novell, Oracle, Fujitsu,
 Intel, IBM, Hitachi, HP, AMD, NEC, Texas
 Instruments, Motorola
 - Sun: 34+ projects. Mozilla: AOL, Google
 - UK Open source consortium: 56 members





Some myths (2)

- Myth
 - Free (as in free beer)

- Facts
 - Costs: staff, support, training...
 - 50% companies deploying more than 25 open source products, > 20% savings in IT budget [1] InfoWorld
 - 1% companies costs went up [1]





Some myths (3)

- Myth
 - You can't generate income from OSS

- Facts
 - Worldwide revenue \$1.8bn in 2006 rising to \$5.8bn in 2011 [5] IDC report





Some myths (4)

Myth

- You have to engage with the project if you use open source
- Facts
 - You can outsource all support and development services if you want to





OSS always right? (1)

- No
 - Consider open source alongside closed source and make an informed decision
- Some key pitfalls with open source
 - You need the right person or company to administer and support it
 - Open source projects sometimes lack support mechanisms and/or resources (docs, communities, etc.)





OSS always right? (2)

- Sometimes open source is just a marketing tool
 - Crippled open source version, all features in closed source version
 - Closed development methodology





Why should you care?





Official guidelines

- **UK Government** will consider OSS solutions alongside proprietary ones in IT procurements. Contracts will be awarded on a value for money basis [2]
- The [EC] will consider OSS solutions the same way as proprietary ones in IT procurements. Contracts will be awarded on a value for money basis [3]
- JISC-funded projects must not discriminate between open source and closed source software, unless the purpose of the projects or services specifically requires it [4]





Market reality

- "Open source is the most significant allencompassing and long-term trend that the software industry has seen since the early 1980s" [5] IDC report
- "By 2012, more than 90 percent of enterprises will use open source in direct or embedded forms" [6] Gartner report





Your needs?

- Flexibility
- Interoperability
 - Do you consider this to be "single-vendor"?
- Avoidance of lock-in

- Viable alternatives
- More potential for students to learn software





State of OSS in UK FE





National survey 2008

- ICT Directors from
 - 454 FE/FE+HE institutions
 - 161 HE institutions
- 19% response rate





Limited resources in FE

- Typical FE ICT departments employ between 7 and 10 staff
- 7 times larger in HE

- FE staff lower technical qualifications on average
- Traditionally, FE less open source friendly than HE, but now you are catching up





Policy vs. practice

Policy

- In 2006, 30% institutions mentioned open source
- In 2008, 57%

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Staff contributions regulated in only 14%

Practice

- In 2006, 77% considered open source
- In 2008, 87% (but only 15% equally to closed source!)





Servers increasingly open

- All or almost all closed source
 - Reducing from 56% (2006) to 40% (2008)
- Mostly closed source
 - Increasing from 20% (2006) to 44% (2008)
- Half open and half closed source
 - Increasing from 3% (2008) to 11% (future)
- Similar trend on desktops





Criteria for procurement in FE

Top criteria

- Performance, interoperability with other products, familiarity and TCO (servers)
- Performance and avoid lock-ins, TCO (desktops)
- Bottom criteria
 - Ideological reasons and migration costs (servers)
 - Migration costs and legal issues (desktops)





Reasons to reject OSS given by FE

Top reasons on servers

- Lack of staff expertise and support
- Poor quality
- Top reasons on desktops
 - Not what users want
 - Lack of staff expertise
 - No solution for our need
 - Lack of support





Conclusions and references





Conclusions

- OSS Watch is here to help you info@oss-watch.ac.uk
- Open source starts with a licence, but works thanks to the community and development practices
- Volunteers, small and big businesses... but are they reaching FE?
- Trend is clearly towards more open source





References (1)

- [1] InfoWorld. Open Source Management: Trends, Requirements and Future Needs for the Open Source Enterprise. White paper. Downloaded 28 Oct 2008. http://www.infoworld.com/pdf/whitepaper/InfoWorld_Open_Source_Management.pdf
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- [6] Y.V. Natis et al. *The State of Open Source, 2008*. Gartner Report. Apr 2008. http://www.gartner.com/DisplayDocument?id=638643
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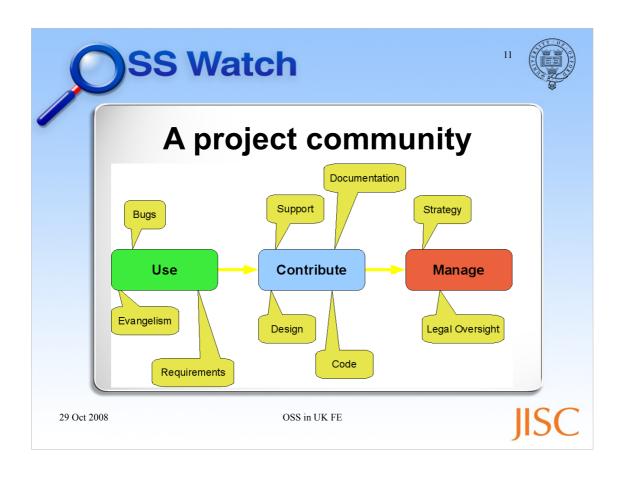


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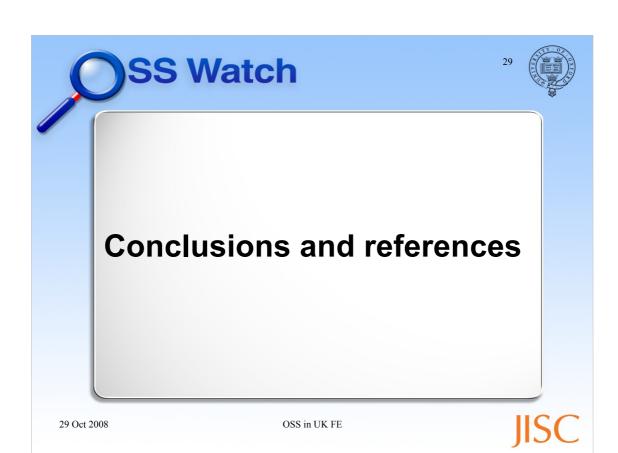




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