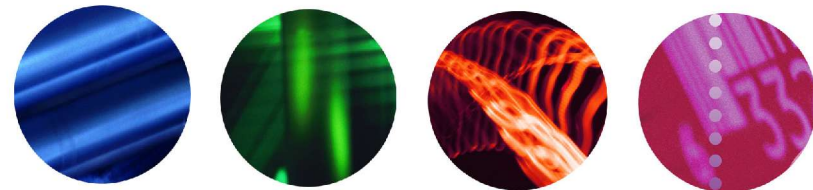


Developing JISC Open Source Policy and Practice

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Supporting education and research

What are policies for?

- A policy is a high-level statement which aims to establish a set of practices for the general good of the organisation or community
 - Normally a top-down exercise
 - But to be successful, it needs to command a broad degree of consensus
 - Some common examples: health and safety policy, procurement policy, IT security policy ...



How do you develop one?

- Be clear about
 - What the policy sets out to achieve
 - Who its target audience is
 - How the messages are best put across
 - How responsibilities are defined and allocated
 - And (in most cases) what will happen if the policy is contravened
 - Most of all, make sure that what the policy says is practical and can be implemented
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Background

- e-Government Unit Policy on OSS
 - Creates obligations for JISC (and other parties, including Research Councils and DTI)
 - Top level JISC Strategy
 - References OSS (in connection with interoperability, standards and digital preservation)
 - A current major preoccupation with sustainability
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The main drivers

- Return on investment of public funding
 - Directly: i.e.
 - In JISC's internal service development
 - In sustaining and exploiting software arising from JISC development projects
 - Indirectly: i.e. by helping universities and colleges to invest to best advantage
 - National and international co-ordination of software infrastructure
 - Hard to do without open source
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Advice to institutions

- JISC doesn't tell universities and colleges what to do internally!
 - But it does provide advice and support where required
 - OSS Watch: neutral advice on all aspects of open source software
 - JISCInfonet: advice on procurement and evaluation
 - Recent “compare and contrast” report on proprietary, open source and managed services; cf. Michael Coen's talk later today
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JISC production services

- Example 1: JISC data centres
 - Past services have sometimes been built with proprietary components
 - Often creates lock-in
 - Tends to inhibit flexibility, e.g. if service needs to be relocated
 - JISC policy needs to address these issues
 - Example 2: access management
 - Athens service was once wholly closed
 - JISC now investing in Shibboleth (open source)
 - Athens itself becoming much more open
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JISC development projects

- Not always primarily directed at software development
 - Much JISC development is concerned with soft factors, proof of concept etc.
 - But there has been a significant shift in recent years
 - E-learning tools & technologies work
 - Middleware programmes (including e-libraries/information environment)
 - Growing e-research involvement
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What happens next?

- Historically, a mixed picture
 - In the absence of clear policy, the continuation plan has been left to projects themselves
 - Not necessarily a death warrant! Cf. The example of MailScanner (more detail shortly)
 - But arguably leaves too much to chance
 - Some software products have received on-going funding
 - Usually because they have found their way into a JISC production service
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MailScanner

- Funded by a £20K 1-year grant in 2000/1
 - Now “the world's most widely-used email security and anti-spam system”
 - Over 330,000 downloads
 - Over 40,000 active user sites
 - Universities, government depts, companies ...
 - Successful community generated
 - Original author (Southampton Univ) spends ~ 1 day a week maintaining and coordinating
 - Other contributors look after specified parts of the distribution



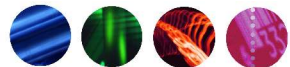
What's the secret?

- Cornered a select OSS niche
 - Commercial competition is high-cost
 - Simple clean design, pluggable, extensible
 - Began as virus detector only (initially just for Sophos, later extended to multiple anti-virus vendors)
 - Added its own spam detection (now also optionally interfaces to SpamAssassin)
 - Just added phishing detection
 - Initially written as Sendmail utility only, now also interfaces to Exim, Postfix etc.



How can JISC do better?

- Currently considering a range of options
 - From the status quo at one end
 - To a managed JISC-badged repository, with or without maintenance of selected products, at the other
 - Product selection would be a key issue in the latter case: funds will always be constrained so selection is inevitable
 - Significant current interest in the e-Science OMII model (see later slides)
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Prototype to production

- Some issues here are:
 - Robustness & usability (user testing)
 - Documentation
 - Dependencies (platforms, libraries etc.)
 - Packaging (e.g. for ease of installation, ease of upgrade etc.)
 - Should JISC think of giving follow-up funding expressly for this kind of “productising”?
 - And what sort of people do this best?
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What is OMII?

- OMII stands for Open Middleware Infrastructure Institute
 - Funded by the e-Science Core Programme via EPSRC for 3 years
 - Began work early 2004
 - Remit is to acquire, develop and distribute robust open source Grid software for e-Research
 - A major part of OMII's effort goes into packaging, testing, quality assurance generally
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Could JISC use this model?

- A bit early to tell as yet
 - OMII has a highly focused remit (lower level Grid services)
 - JISC's activities cover a much wider range of application and function
 - OMII's budget is currently £2M+ per annum – and it's clearly not enough
 - So with any kind of realistic expenditure, JISC would have to exert *very* tough product selection processes
 - How could this be achieved?



Other models???

- So far we've mainly talked about ensuring continuity
 - What about the real problem: maintenance (or maintainability)?
 - Could JISC do more to create and foster self-help communities?
 - Are there ways to bring OSS service companies into the equation?
 - Could JISC broker subscription models in which customers pay for support?
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The draft JISC policy

- Very much work in progress 😊
 - Much of the initial input by OSS Watch, then bounced back and forth with JISC
 - Has been seen (once) by a number of the key JISC committees
 - Their comments need to be incorporated in a further draft
 - Some changes in presentation being contemplated to improve impact
 - But – overall – not likely to undergo radical change from here onwards
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So what's in it?

- In three parts
 - Policy guidelines for JISC when writing calls for proposals, ITTs etc.
 - Policy guidelines for JISC services (and JISC projects generally)
 - Policy guidelines for JISC-funded software development activities specifically
 - N.B. Nothing as yet about advice to institutions
 - Should this be added? Would it improve the policy as a whole?
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The content

- The first two sections are by and large uncontroversial
 - Almost motherhood and apple pie, you might say ...
 - But worth making explicit just the same
 - The software development section has attracted most comment
 - Do some projects require stricter standards than others?
 - Licensing is always a sensitive issue
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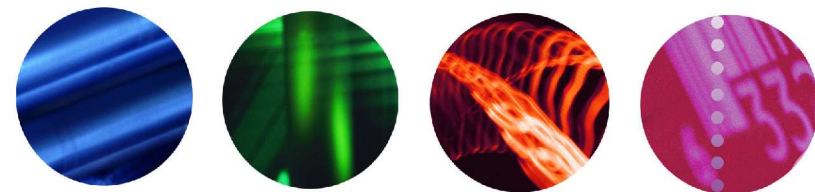


Summary & conclusions

- Sustainability (of services and software) is perhaps JISC's biggest problem
 - Open source policy can contribute significantly to this
 - But getting the model right is crucial
 - The real achievement would be to foster viable communities without overmuch subsidy from JISC
 - And the big problem here is selection
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Discussion ...



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