

JISC Grant Funding 07/11

Cover Sheet for Bids <i>(All sections must be completed)</i>			
Please indicate which strand you are applying for:	Strand A1 <input type="checkbox"/>	Strand B <input type="checkbox"/>	
	Strand A2 <input checked="" type="checkbox"/>	Strand C <input type="checkbox"/>	
Name of Lead Institution: University of Southampton			
Name of Proposed Project: DataPool			
Name(s) of Project Partners(s) Archaeology Data Service, Digital Curation Centre <small>(except commercial sector – see below)</small>			
This project involves one or more commercial sector partners NO (delete as appropriate)		Name(s) of any commercial partner company (ies)	
Full Contact Details for Primary Contact: Name: Mark Brown Position: University Librarian Email: mlb@soton.ac.uk Tel: 023 8059 2677 Address: Hartley Library, University of Southampton, Highfield, Southampton. SO17 1BJ			
Length of Project: 18 months			
Project Start Date: 1 October 2011		Project End Date: 31 March 2013	
Total Funding Requested from JISC: £ 213,823			
Total Institutional Contributions: £ 286,142			
Outline Project Description The DataPool project will build capacity within the institution to support good data management practice across all disciplines, including multi-disciplinary activity, throughout the data lifecycle. This will enable us to share and develop expertise and engagement within the institution so that we can share data, openly where possible, with the wider community. The focus on cultural change will be underpinned by development of the technical infrastructure and a clear policy framework. This supports the middle phase of the 10 year roadmap identified by the previous JISC funded Institutional Data Management Blueprint (IDMB) project. Activity and dissemination will be closely integrated with the work of the University's multi-disciplinary Strategic Research Groups (USRG) to ensure continuing alignment with leading-edge institutional strategy.			
I have looked at the example FOI form at Appendix A and included an FOI form in this bid		YES	
I have read the Funding Call and associated Terms and Conditions of Grant at Appendix B		YES	

A Appropriateness and Fit to Programme Objectives and Overall value to the JISC Community

Aims and Objectives

1. The aim of the DataPool project is to build capacity within the institution to support effective data management practice across all disciplines, including multi-disciplinary activity, throughout the data lifecycle. A focus on cultural change will be underpinned by development of a clear policy framework, an enhanced technical infrastructure and a strategy for supporting researchers in managing their data in line with the middle phase of the 10 year roadmap identified by the previous JISC funded Institutional Data Management Blueprint (IDMB) project.¹ There are five overarching objectives:

- a) **Implement an institutional research data policy** with guidance for researchers;
- b) **launch and populate an institutional data repository** as part of the research data management infrastructure;
- c) **develop the skills of professional support staff** such as librarians, IT specialists and bid managers so they can provide a coherent institutional service to support data management requirements;
- d) **provide integrated training for PhD students** through the institution-wide Graduate Centre and curriculum development;
- e) **embed effective data management** through close alignment with the work of the University's multi-disciplinary Strategic Research Groups (USRG)².

Added Value to JISC Community

2. The IDMB project scoped the University of Southampton's data management strategy for the next decade, in a framework designed to bring together policy, technical requirements and service support to encompass the needs of a multi-disciplinary institution. DataPool will provide the community with evidence of an institutional approach to implementing policy, a model for using the global, open source EPrints repository as an integrated part of a data management infrastructure, and will deliver a flexible model for providing service and training support for researchers based on a partnership between the Library, Computing and senior, leading academics. Cost monitoring will model scalability and provide an evidence-base for financial decision-making; across the sector dissemination of these outputs will reduce start-up implementation costs for other HEIs, including those projects funded under strand A1 of this call, and through the USRG's external collaborations, inform funders in industry, charities and other public bodies beyond the HE sector. In addition we will become a founder member of the Research Data Management BoF for projects working at the same level of maturity in the research data management area in the JISC community to share their experiences.³

3. Summary of outcomes

- a) institutional policy will be shared on the institutional and DCC websites to maximise exposure along with a report on our implementation experience;
- b) model of integrating an EPrints data repository offer into the wider data management infrastructure and culture;
- c) specialist repository support for discipline-specific data quickly shared with the UK repository community through the EPrints App Store⁴.
- d) cost-modelling, including full cost-benefit analysis of whole institution data management training commitment;
- e) training materials and case studies to be shared with the community for reuse;
- f) model of embedded training in Graduate School programme for PhD students;



Figure 1: DataPool builds on previous JISC experience

¹ <http://www.southamptondata.org/>

² <http://www.multidisciplinary.soton.ac.uk/groups/>

³ Membership also includes Bristol, Cambridge, Edinburgh, Leicester and Manchester.

⁴ <http://eprintsnews.blogspot.com/2010/09/theres-repository-app-for-that-eprints.html>

- g) training needs analysis and training programme for support staff to share with all HEIs;
- h) examples of integrated use of training case studies to enhance continuing professional development for researchers and curriculum development for students.

Alignment with JISC Initiatives

4. The University of Southampton has been involved in national initiatives on data management including the UKRDS and JISC projects, and has contributed to developing models for data management at both discipline and institutional level.⁵ Strategically we are committed to open metadata and research data made available through this project will adhere to this principle.⁶ We play an important role in the development of linked open data and open research data, unless there are legitimate grounds for embargo.⁷ We are an affiliate member through JISC of the Open Planets Foundation⁸ (as well as a contributing technical developer) and are committed to exploring best practice in digital curation and preservation. The Microsoft Institute for High Performance Computing (IHPC), based at Southampton is exploring cutting edge development of tools and services for data transfer and storage, including cloud computing which aligns with a number of current JISC initiatives. The project team includes people with a significant amount of experience in the technical and cultural aspects of supporting open access to research outputs and JISC initiatives in scholarly communication.

Sustainability Strategy

5. A key strength of this project is the continuing commitment by senior managers and leading academics to a strategic approach to data management supported by a strong partnership between researchers and support services. The focus on capacity building and training will include cost modelling to ensure that there is a picture of the full costs needed for sustainability, not just technical, storage and staffing costs. The project aims to develop the skills of staff by enhancing their existing roles and to deliver training through established approaches to fully embed data management into institutional culture. Support for researchers will be targeted at point-of-need in the data management lifecycle along with awareness-raising through existing disciplinary and multi-disciplinary activity.

B Quality of Proposal and Robustness of Workplan Project Plan, Timescales and Deliverables

6. WP0 covers project management. The other work packages address the following key issues:

- WP 1. Research Data Management System Implementation
- WP 2. Research Data Management Policy Ratification and Implementation
- WP 3. Integrated Training, Guidance and Support for Researchers
- WP 4. Dissemination, within the institution and externally to ensure other HEIs benefit

WP0: Project Management

Project team: Mark Brown (University Librarian) WP leader, Les Carr (ECS, Eprints), Peter Hancock (iSolutions, Director), Graeme Earl (Humanities), Wendy White (Library).

7. The PRINCE2 project management methodology will be adopted, as used at the University of Southampton for all major projects. Individual work packages will be managed by work package managers, and coordinated by the project PI at quarterly meetings. Members of the team will attend all JISC meetings as required and will work with other projects as opportunities present themselves. The project will be guided by a Steering Group that will meet every six months, comprising senior management from the key stakeholders at University of Southampton, many of whom are on relevant national and international groups and have supported the IDMB project.⁹ External members from DCC, University of Oxford,

⁵ These include IDMB, DataShare, CLADDIER, eCrystals, MyExperiment, GRADE, BioSimGrid, Kultur

⁶ <http://www.jisc.ac.uk/news/stories/2011/07/openmetadata.aspx>

⁷ <http://data.southampton.ac.uk/>

⁸ <http://www.openplanetsfoundation.org/members>

⁹ Steering Group: Philip Nelson (Pro-VC Research), Adam Wheeler (Provost and DVC), Jeremy Frey (Chemistry), Helen Snaith (National Oceanography Centre Southampton), Simon Cox (Engineering Sciences), Graeme Earl

UK Data Archive and NOCS will provide valuable objective input. This will ensure that the project is engaging fully in the national context.

WP1: Research Data Management System Implementation

Work package team: Les Carr (ECS, EPrints) WP leader, Peter Hancock (iSolutions), Simon Cox (Engineering Sciences), Graeme Earl (Humanities), Wendy White (Library)

Task	Deliverable
T1.1 Data Infrastructure Requirements Analysis	D1.1 Consolidation of local data storage options
T1.2 Define local and distributed storage options	D1.2 Provide appropriate range of storage
T1.3 Scale-up pilot Eprints data repository to institutional service	D1.3 Launch and populate institutional data repository
T1.4 Test three-layer metadata model for scalability with extended range of disciplines	D1.4 Define best-practice metadata models for each academic discipline
T1.5 Test import and export of data and three-tier metadata using Sword2	D1.5 Report on data export/export implementation
T1.6 Test new business model	D1.6 Refine business model

8. The institutional data repository, based on the EPrints software, will be rolled out across all disciplines to provide a central catalogue of institutional data assets. This requirement was a key conclusion of the Services and Infrastructure Analysis undertaken for the IDMB project¹⁰. The repository will have access to storage sufficient to demonstrate an approach for that data, but will also provide links to data held elsewhere, both externally in subject/funders' repositories and internally using other systems. This will include use of SharePoint, building on the pilot with Archaeology data, as the institution continues to explore the best fit for SharePoint as part of the infrastructure¹¹. This approach will inform the business model.

9. This WP will also explore the mechanisms for transferring data and metadata into the data repository from other local data stores, and exporting data from the repository (including discipline repositories through partnership with the Archaeology Data Service) using the SWORD2 protocol. We will use the three-layer metadata model, piloted by IDMB¹², developing additional functionality to aid ingest and exchange of metadata and to develop best practice examples by discipline, maximising discoverability and data management opportunities. Enhanced data handling facilities will be made available to the international repository community through the EPrints App store¹³ as discipline-specific packages (e.g. for SWORD2 integration with lab equipment, appropriate packaging of complex data collections, and bespoke dataset visualisation and user interaction).

10. A requirements analysis will be undertaken to support options to make data storage and exposure more coherent and cost effective¹⁴. This will include an assessment of the viability of local data solutions and will make recommendations for phasing out those which will be better served by core research data management provision, including exploring cloud services for storage and options provided by the recent JISC/UMF developments, including the "Software as a Service" tools as they become available. This will encompass the Southampton led UMF initiative to develop a generic e-lab notebook for recording and sharing academic data nationally, and how data from Southampton best interfaces with the national service.¹⁵ We will build on the computation, storage and data transfer expertise within the IHPC, and the national DataCite service to provide DOIs for our data and develop guidance on the quality assurance process and workflow for assigning DOIs. We will also

(Humanities), Pete Hancock (iSolutions, Director), Mark Brown (University Librarian), Wendy White (Head of Scholarly Communication), Mylene Ployart (Associate Director, Research and Innovation Services), Graham Pryor (Associate Director, DCC), Sally Rumsey (University of Oxford), Louise Corti (Associate Director, UK Data Archive).

¹⁰ Takeda, K. (2010), Initial Findings Report, p75, p97.

¹¹ Including contribution from the Microsoft-funded *Sharepoint Archival Information Systems* project

¹² Takeda, K. (2010), Initial Findings Report, p88.

¹³ Project outputs in the EPrints App store (or "EPrints Bazaar") will be made available on a no-cost, open source basis

¹⁴ IDMB identified many data stores across the University, many with low capacity. Initial Findings Report, p75.

¹⁵ http://www.soton.ac.uk/chemistry/news/...cloudbased_services.page

consider the potential for regional approaches. UCL, Southampton and Oxford are currently exploring a regional approach to a number of research based IT challenges including research data with the aim of working together to help drive efficiency, collaboration and consistency.

WP2: Research Data Management Policy Ratification and Implementation

Work package team: Mark Brown (University Librarian) WP leader, Les Carr (ECS, EPrints), Graeme Earl (Humanities), Jeremy Frey (Chemistry)

Task	Deliverable
	D2.1 Ratified Institutional Research Data Management Policy
T2.2 Design Policy advocacy toolkit	D2.2 Policy advocacy toolkit
T2.3 Develop one-stop shop for data management advice and guidance	D2.3 One-stop shop for data management advice and guidance
	D2.4 Policy implementation report

11. DataPool will capture the consultation process to adopt the institutional data management policy, the draft of which was produced for the IDMB project. The policy will be ratified towards the start of the project. We already have commitment from senior staff such as the Associate Deans Research and the Pro-Vice Chancellor for Research, expertise from Legal Services, Research and Innovation Service, iSolutions and the Library, as well as a group of researchers representing different disciplines, and this process will maximize awareness of the policy, with data policy "champions" identified for each Faculty. These key building blocks will provide the basis for rolling out the advocacy and support model, which includes an advocacy tool kit and the development of a one stop shop for data management advice and guidance, a priority identified by the IDMB project as a result of feedback from the questionnaire, interviews and workshops.

12. The advocacy toolkit will draw on existing good practice and avoid reproducing material that can already been found elsewhere. It will dovetail with the institutional communication strategy outlined as part of dissemination in WP4, and use a scenario approach to provide researchers and support staff with specific issues such as meeting funders' requirements, meeting FOI requests for data, developing data management plans in grant proposals. Southampton has significant experience in embedding repository practice and meeting the cultural challenges of implementing new policies and services.¹⁶

13. The one stop shop will provide an integrated approach to delivering institutional data management policy, related institutional policies that impact on data management, the advocacy toolkit, the training materials and contact information to support the services developed in WP4. It will also signpost users to existing high quality guidance from sources such as the DCC, funding bodies¹⁷ and resources from other JISC funded data management projects. The aim is for any user to quickly get to the information they need in "one click". To ensure this is achieved there will be full usability testing at all stages of the site development with a cross disciplinary user group drawn from the University Strategic Research Groups, PhD students involved in training (WP4) and support services.

14. To maximize the benefit of this work for the wider community we will write a policy implementation report that will detail: the process of policy ratification, the process of developing the advocacy materials with examples of how they have been used and the iterative user testing of the one stop shop.

WP3: Integrated Training, Guidance and Support for Researchers

Work package team: Wendy White (Library) WP leader, Les Carr (ECS, EPrints), Graeme Earl (Humanities), Jeremy Frey (Chemistry)

Task	Deliverable
T3.1 Design Graduate Centre Data Management Training Programme	D3.1 Embed Graduate Centre Data Management Training Programme
T3.2 Develop roles and map and workflow model for Desk-side Support Service	D3.2 Deliver Desk-side Support Service for Data management planning

¹⁶ e.g. TARDIS, KULTUR, DataShare, DepositMO.

¹⁷ including tracking policy directives such as that recently released by the EPSRC.

T3.3 Identify and Share discipline-led best practice	D3.3 Best practice multi-disciplinary awayday
T3.4 Develop best practice case studies	D3.4 Case studies for reuse and training implementation report
T3.5 Support Services Training Needs Analysis	D3.5 Support Services Training programme and implementation report
T3.6 Develop approach for a cost-model for holistic institutional training provision	D3.6 Cost model of training provision

15. This WP focuses on training to build expertise in data management, curation and sharing within all relevant roles in the institution. This includes developing the skills of researchers and those supporting research activity e.g. academic liaison librarians, IT and technical professionals and research bid managers. We will build on the pilot data management training workshops developed as part of the IDMB project, which were incorporated into the MSc in Archeological Computing and the research skills module undertaken by all Archaeology masters students. This work will be extended to other masters modules and inform the design of a full data management training programme to be offered through the Researcher Development and Graduate Centre,¹⁸ part of the strategic remit of the University Professional Development Unit (PDU). Working with the PDU to develop an integrated training offer for inclusion in continuing professional development activities for all academic staff, we will repurpose existing material, including outputs from the JISC RDMTrain projects, and develop some case studies based on real examples of data management practice.

Case study 1: Managing and sharing your PhD data

16. This will chart a best practice example of data management throughout the lifecycle of a PhD, including making the text and data available in the institutional repositories, employing the three levels of metadata structure, mapping relationships between objects and enhancing the existing templates to capture better metadata headers for spreadsheets, tables and images. This will be used to also create a new template for use by masters students.

Case study 2: Archiving project tweets, blogs and websites

17. This will use the tweets and blogs from this project as an example for good "end of project" practice in continuing to make available this valuable informal source of information. It will make technical recommendations on capture, archiving and searchability. It will also draw on the outputs of other projects and disseminate them in semantically rich ways.

Case study 3: Depositing with a funder/subject data repository - making the most of funder and institutional support

18. As institutional support for data management develops, there is a need for this to work in complement to the requirements for the deposit of data in other repositories. This case study will take a worked example of the deposit process in the Faculty of Humanities with an external funder, mapping use of both institutional and funder guidance. It will also provide an example of data deposited elsewhere with a linked entry in the institutional data catalogue.

Case study 4: Sharing your data safely

19. This study will provide an example of good practice in data sharing through the lifecycle of a project, including ethical and legal issues. It will create an exemplar for making data openly available and for using open data from external sources. All the new resources to support the data management training programme will be made available on open access via the institutional learning materials repository, EdShare.¹⁹

20. The second strand of WP3 is about building capacity to support effective data management based on the partnership model developed under IDMB when interviews with researchers conducted as co-interviews with an academic liaison librarian and a PhD student, brought together complementary knowledge and expertise. To further the model we will conduct a training needs gap analysis with staff across the services who deliver support to researchers, and use this to inform the design and delivery a training programme

¹⁸ The Centre facilitates and monitors training for the Faculty Graduate Schools and Doctoral Training Centres, supporting research masters through to early career researchers

¹⁹ <http://www.edshare.soton.ac.uk/>

to enhance capacity and skills. The DCC will work with us on the design and contribute to the delivery; a report on the training needs analysis and the programme implementation will be made available to all HEIs to share the benefits of this approach.

21. The enhanced capacity will underpin the roll out of the institutional data repository in WP1. We will also develop a deskside support service to support data management planning and other data related queries, building on the existing desk-side services run by iSolutions and the Library,²⁰ and following the pattern set by the Library in integrating support for ePrints Soton into the main deskside service as part of the JISC funded DepositMO project.²¹ As part of this we will map the roles and responsibilities for institutional desk-side support for data management and develop a workflow model, linked to relevant expertise across the institution, to deliver the service. The design will build on experience from other institutions e.g. the work at Monash and Purdue.

22. To align these developments to the strategic research agenda of the institution, the University Strategic Research Groups will host an awayday on data management issues, which will be led by the Digital Economy USRG and feedback from this awayday will inform developments in all work packages.

23. The final output of this work package will be a model which costs all the elements of training provision reflecting the need to take into account institutional training commitments in line with the report by Neil Beagrie.²² This will be made openly available as a tool for other institutions that are looking to cost their data management training.

WP4: Dissemination

Work package team: Mark Brown (University Librarian) WP leader, Les Carr (ECS), Graeme Earl (Humanities), Jeremy Frey (Chemistry), Pete Hancock (iSolutions), Wendy White (Library)

Task	Deliverable
	D4.1 Project collaboration website
T4.2 Develop Institutional Communication Strategy	D4.2 Implementation of Comms Strategy
	D4.3 Final project workshop
	D4.4 Workshop and report

24. In WP4 an institutional communication strategy will be developed to promote the Research Data Management Policy and the advantages of engaging with the new model to support researchers throughout the data lifecycle. This will include:

- Formal discussions with senior staff through University/Faculty research committees
- Engagement with the multidisciplinary USRGs. They have partnerships with public, private and third sector organisations, extending the impact of effective dissemination
- informal approaches to sharing with researchers as part of their usual workflow.

25. The institutional communication strategy will be made available on the project website.²³ Approaches will include blog posts, reports from conferences and workshops (which will include sharing project progress at relevant data curation events) and use of a wiki to support sharing of documentation. The whole project website itself will be captured and archived as a training case study. We will extend the use of the crowdsourcing approach that was piloted in the IDMB project to gather ideas from researchers, with a particular aim to encourage PhD students to share ideas as part of the training programme.

26. All project reports will be made available as open access documents via the institutional research repository. The Institutional Research Data Management Policy will be made available via the University of Southampton website and the DCC website. We will actively collaborate with the DCC on approaches to dissemination and support.

²⁰ <http://www.soton.ac.uk/isolutions/computing/training/deskside/>, <http://www.soton.ac.uk/library/services/deskside>

²¹ <http://blogs.ecs.soton.ac.uk/depositmo/>

²² Beagrie, C. (2011) Benefits from the Infrastructure Projects in the JISC Managing Research Data Programme, draft report.

²³ <http://www.southamptondata.org/>

27. To help review progress at the end of the project and to aid planning for the next phase of the 10 year roadmap, we will hold an end of project workshop which will aim to capture key successes, challenges and next steps. This will inform the final project report.

Quality Assurance and Risk Management

28. The IDMB project will be led by experienced senior staff from across the University with extensive management experience. The PRINCE2 project management methodology will be used, with the full Quality Assurance Plan incorporated into this. This project benefits from the strong working relationships between the research and professional groups within the University. The table below details and analyses the main risks associated with the project.

Risk	Probability (1-5)	Severity (1-5)	Score (P x S)	Actions to Prevent/ Manage Risk
Staffing	2	5	10	All project staff identified and available. Project Management from existing staff. Strong project team culture already exists.
Organisational	1	4	4	Project Plan to clarify relationships and expectations between partners. Existing collaboration between stakeholders on which to build.
Financial	2	5	10	Project Team has extensive experience with similar projects.
Technical	2	4	8	High level of expertise proven over several projects; existing of pilot infrastructure is already in place.
Legal	2	1	2	Institution has access to good legal support.

IPR

29. The model(s) for protecting intellectual property will be written into the consortium agreement before the project starts. The consortium agreement will include clauses that address the following: Detailed specification and descriptions of all background IP already developed and therefore owned by the University of Southampton; Foreground IP emerging from the project will be identified and the ownership of the IP agreed. Typically, foreground IP is freely available to all parties to the project and for a predetermined period from the conclusion of the project; Guidelines on the commercial exploitation of the IP generated by the project and the benefactors thereof. Software produced as part of the project will be based on open standards and released as open source.

C Engagement with the Community

Stakeholder Engagement

30. The Steering Group for the IDMB project included the Pro-Vice Chancellor for Research and the Deputy Vice-Chancellor to ensure that the project reflected and informed strategic priorities. Continuity of senior support will be essential for this phase of change management. The Steering Group will continue and be strengthened by representation from Research and Innovation Services, providing expertise in funders' policy and practice.

31. This project will develop a partnership approach to support for data management, making best use of skills from across all areas of the institution. It aims to ensure a sustainable approach, with robust clusters of expertise and conduits for knowledge transfer, thus minimising the risk of "single point of failure". This represents a commitment to facilitate a "learning organisation" approach to data management. We will engage with funders to promote complementary approaches and minimise duplication for researchers, extending work with the Archaeology Data Service and developing new links with the UK Data Archive.

Dissemination

32. As dissemination is essential for the success of the project there is a dedicated work package. There are a wide range of stakeholders identified and dissemination will be tailored where possible to different user communities, such as researchers, senior managers, librarians, IT professionals and research support specialists. The project will also use social media to support open engagement and debate across all sectors and make all of the project outputs available as open access or open source material.

Stakeholder Analysis

33. As this project is about cultural change and embedding practice there are a high number of stakeholders within the institution. There is also a significant global impact for stakeholders such as funders, collaborators and data users. Better quality data, more effectively shared and stored will be of benefit to many sectors. The following stakeholders are critical:

Researchers: Improved data management practice integrated into workflow, up to date training and point of need support, sharing of best practice through strategic research groups

Faculties: Provides coherent approach to data management and funder requirements

Institution: Catalogue of institutional data assets, appropriate storage and curation options for all data, coherent policy framework including a Research Data Management Policy, cost modelling to inform long term strategic planning

Library: Broadening of skills and knowledge for library staff, in partnership with other stakeholders develop and offer new data management support services and training

IT Service (iSolutions): Broadening of skills and knowledge for IT staff, in partnership with other stakeholders develop and offer new data management support services and training

Research and Innovation Services: Broadening of skills for bid managers/collaboration managers, in partnership with other stakeholders develop and offer new services

Researcher Development and Graduate Centre and Professional Development Unit
Integrated data management training for PhD students, CPD support for all academic staff, examples of curriculum innovation to support learning about data management

Funders and cross-sector data users: Preservation of data, easy to see data held through data repository, open access to data or easy request routes for data with restrictions

D Evaluation

34. The project will be evaluated using the following metrics and included in the relevant WP reports:

- Quantitative and qualitative feedback on use of the one stop shop
- Formal feedback from RDGC, CPD and deskside training, as part of existing feedback mechanisms
- Feedback from University Strategic Research Groups awayday
- Use of standing Library survey of researchers to obtain additional feedback
- Formal project review by steering group

E Previous Experience of the Project Team

35. **Dr Mark Brown** is University Librarian at the University of Southampton, responsible for the policy and strategic direction of the University Library. Project Director for a range of large scale JISC funded digitisation projects, and leader of the digitisation team and institutional development group within the Library. Recently Project Director for a number of JISC funded repository projects including KULTUR and DATASHARE, and member of the Project Group and Steering Group overseeing the Institutional Data Management Blueprint Project.

36. **Dr Leslie Carr** is Senior Lecturer in Web and Internet Science and leads the groups developing EPrints at the University of Southampton. He is the director of the EPrints Services repository hosting commercial activity, is a past chair of the Open Repositories conference, the manager of the ECS repository and a co-director of the Web Science Doctoral Training Centre.

37. **Professor Simon Cox** is Professor of Computational Methods within Engineering Sciences. He is Head of the Computational Engineering and Design Research Group and Associate Dean for Enterprise. He has won over £15Mn in funding, applying and developing high productivity computing in a variety of interdisciplinary computational science projects. He is Director of the Microsoft Institute for HPC, which is working with Microsoft on its future tools, technologies and platforms in the high performance computing arena. He sits on the EPSRC Technology Watch Panel, which is responsible for developing UK strategy in High Performance and Technical computing and Chairs the UK National Grid Collaboration Board.

38. **Dr Graeme Earl** is a senior lecturer in the Archaeological Computing Research Group. He is also chair of the Digital Economy University Strategic Research Group. He is a member of the Archaeology Data Service Management Board and the AHRC Peer Review College (Research and Technical). He is director of an AHRC Digital Equipment and Database Enhancement for Impact grant, co-director of an AHRC large grant focussed on archaeological data creation and management strategies, co-investigator on an RCUK DE large grant managing and presenting research data in innovative ways and co-investigator on an AHRC/EPSRC Science and Heritage grant addressing many simulation challenges.

39. **Professor Jeremy Frey** is Professor of Physical Chemistry and Head of Structure & Materials. He is involved with the UK e-Science programme, as PI of the CombeChem project looking at the ways in which e-Science and Grid infrastructure can be developed; in Electronic Laboratory Notebooks (ELNs), generating and applying a "Semantic Chemical Grid" and applying Web 2.0 & Social Network ideas with Chemical Blogs and related technologies. Core to the ideas of "Publication @ Source" for scientific data is his work on the interaction of eprint repositories with chemistry through the e-Bank & e-Crystals projects.

40. **Dr Peter Hancock** is Director of iSolutions, the Department that addresses ICT issues across the whole University. His Core Mission is to deliver robust services that match the University's Research and Educational needs. He has run major (£1m plus) projects whilst being a member of iSolutions ranging from delivering on the High Performance Computing University agenda through to redesigning and implementing a complete change to University Email Services which are now embraced by all members of the University. His primary focus is on delivering practical, usable solutions that fulfil specific business requirements

41. **Wendy White** is Head of Scholarly Communications. She is a member of the University Research and Enterprise Advisory Group. She chairs the University EPrints Systems Board, which oversees the governance of the ePrints Soton repository. She chaired the project management group for the KULTUR project, was a member of the project team for IDMB, DepositMO and DataShare. Currently she is on HEFCE's REF Data Collection Steering Group, the Advisory Board for the ESRC funded ReStore project and the RIN Information Handling Group, supporting national initiatives in data management training.

F Summary of Benefits and Institutional Contribution

42. This institutionally focussed project will build capacity, both technical and human, to develop a coherent approach to data management, curation, sharing and reuse. Work with the Archaeology Data Service will demonstrate capacity to support all funder requirements and explore mechanisms for effective export of data between discipline and institutional data repositories. The University of Southampton is investing significantly in its infrastructure and will provide matched funding of £120K capital investment alongside 50K from Microsoft for work with SharePoint as a means to support research activity. The collaboration with the DCC will focus on developing the skills of support staff and the creation and reuse of high quality guidance. This project will benefit staff in existing roles and we will provide substantial matched funding of staff time commitment; 4 library academic liaison librarians 50% total, 8 academic staff representing each Faculty through the RDGC working group at 10% total plus additional commitment from Research and Innovation Services and iSolutions. The project will contribute to the DCC's role in promoting data sharing policies and facilitating good practice in data creation and sharing.