



Developing and Applying Principles for Discovery and Access for the UK Data Service

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What is the UK Data Archive?

- Acquires, curates and provides access to the UK's largest collection of social and economic data
- UK DATA ARCHIVE

- Based at the University of Essex
- Celebrating our 50th Anniversary
- Major projects in partnership:
 - UK Data Service (UKDS): unified access to social, economic & population data across the UK
 - Administrative Data Service: coordinating service of the Administrative Data Research Network
 - Support for the Big Data Network

What is the UK Data Service (UKDS)?

- Funded by ESRC, provides unified access to the UK's largest collection of social, economic & population data
- Access to/preservation of high-quality local, regional, national and international social and economic data for secondary research and teaching
- Support for policy-relevant research in the higher education, public and commercial sectors
- Guidance and training for the development of skills in data discovery, use, and management
- Development of best practice in digital preservation and sharing and sharing of expertise with international data providers



UKDS Partner Institutions







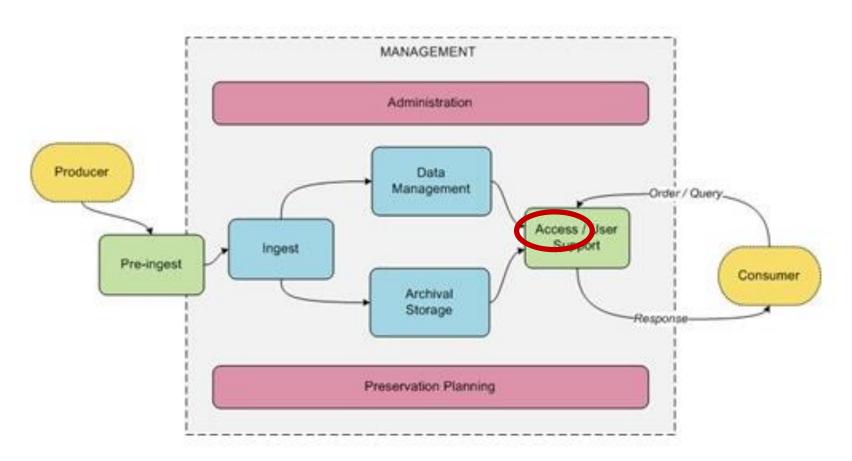








Functions organized around OAIS



Access (includes discovery)

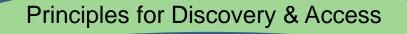
- Designing systems and functionalities for discovery and access
- Services to facilitate discovery (including thesauri and controlled vocabularies)
- Pipeline of metadata through our system to facilitate discovery
- Managing administration of access to safeguarded/ controlled data
- Facilitating work across sites and teams to consider how to evolve our systems in line with user needs

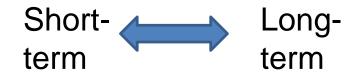
Current access and discovery context

- Central catalogue for discovering our data (Discover)
- Points to a diverse set of access points:
 - Method of access (download and/or online analysis)
 - Level of access (open, safeguarded, or controlled)
 - Topic (e.g., specialized tools for Census data)
- Technology team developing next-generation data repository (which will improve variable-level access)
- Ongoing need to improve and evolve our systems to meet user needs and new opportunities, in a strategic and user-led manner

Current set of projects

- 1. Developing a user experience (UX) programme
 - a. Enhance coordination
 - b. Employ systematically across service development
- 2. Principles for discovery and access
 - a. Opportunity to think strategically at a time of transition
 - b. Guide operational and development decision-making
- 3. Enhance current discovery portal (Discover Phase 3)
- 4. Provide input on discovery and access requirements for our next-generation data repository





Enhance current discovery portal

D&A for nextgeneration repository

User Experience Programme user needs assessment

Process

- 1. UX: consultant:
 - 1. upskilling staff
 - 2. plan for a sustainable, coordinated long-term programme
- 2. Principles
 - Wide consultation with staff at various levels
 - b. Processing results and drafting principles for feedback
- 3. Current discovery portal/Next-generation repository
 - a. Internal information sources (including staff knowledge)
 - b. Environmental scan
 - c. User survey (launches today)
 - d. Interviews (start this week)
 - e. Development of use cases and requirements

Use case template

1. Use cases by user scenario:

As a	I want to	So that I can
As a researcher from an institution not using federated access management	Register with the UK Data archive	Access data

2. Current user experience:

CURRENT EXPERIENCE	WAYS CURRENT EXPERIENCE
ukdataservice.ac.uk	COULD BE BETTER

3. Writing a requirement based on the use case, prioritising, and noting ideas on how to meet the requirement:

REQUIREMENT	MoSCoW	IDEAS & SUGGESTIONS
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4. Justifying and quantifying the need and priority for the use case:

Use Case Justification	No. Users Requesting
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Initial results: in discovery portal, revisit:

- Relevance ranking
- Searching of variables and datasets together
- Filters
- Subject browsing (& deeper integration with HASSET thesaurus)
- Layout (home, results, catalogue record)
- Clarity of access paths & conditions
- Highlighting usage

"If I were a UKDS user I'd want..."

able access available better clear clicks compare different displayed documentation download easy etc filter grouped help information key locate maybe metadata pane possible **Process** quality quant queries questions quick quickly regular relevant resources results routes save Search simple special specific support system training type usage useful USEr variables website work

"Realistically I think UKDS users will..."



"To provide the best service to users regarding discovery and access, staff (within and across teams) should..."

able assigned better careful colleagues Communicate complaint consider customers develop disagree discovery effectively finds functions gift helpdesk helpful important increased join keep learn level listen making outreach ownership partners people problems procedures provide quality queries revisit Service skills staff standards survive taught team thesaurus think tool training understand USEIS work

"In the realm of discovery and access, what are the UKDS's biggest strengths are..."



Initial results: principles, some themes:

- User-driven
- Expectations: what users expect of us, and what we can realistically expect of them
- Perform tasks quickly and easily
- Access relevant data
- Clear information
- Threats and role of other search engines
- Utilize & develop staff skills
- Work & communicate as a team

Next steps

- Complete user studies
- Synthesize information
- Develop requirements, then:
 - Prioritize
 - Select
 - Implement
- Beta testing and future iteration

Conclusion: emerging principles we're already living by in this process

- Be user-led
 - Get user input throughout the product and service design & improvement life cycle
 - Have all system requirements stem from user needs
- Get the input and feedback from staff at all levels, especially those "at the coalface"
- Benefit from the diverse and complementary skills and strengths of different staff members and welcome different points of view
- Use simple systems to address complex problems



Questions

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