

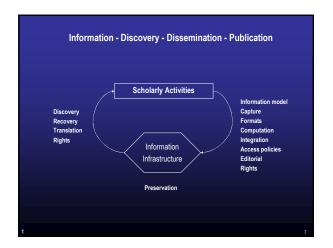


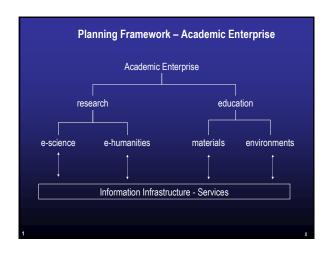
APSR Mission The Partnership seeks to: foster digital continuity and sustainability practices wrt a national data repository fabric; maintain strong international linkages and collaborations; establish a demonstrator program within partner organisations; establish a Sustainable Digital Collections Centre to run partnership programs; coordinate and integrate activities with related infrastructure initiatives.

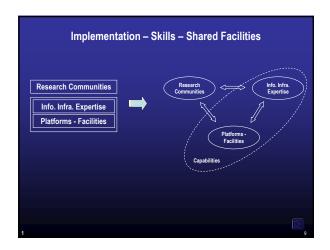


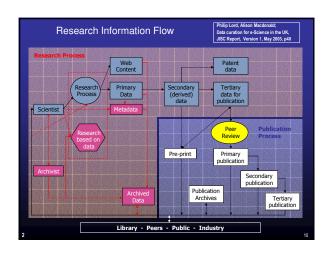
e-Research – A new paradigm The invention and exploitation of advanced IT To generate, curate and analyse research data From experiments, observations and simulations Quality management, preservation and reliable evidence To develop and explore models and simulations Computation and data at extreme scales Trustworthy, economic, timely and relevant results To enable dynamic, distributed virtual organisations Facilitating collaboration with information and resource sharing Security, reliability, accountability, manageability and agility [Tony Hey – Dir. UK e-Science]

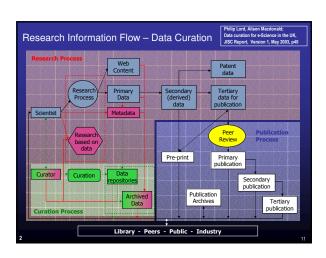
Community Declarations (open access) ... We define open access as a comprehensive source of human knowledge and cultural heritage that has been approved by the scientific community. ... the future Web has to be sustainable, interactive, and transparent. Content and software tools must be openly accessible and compatible. ... Open access contributions include original scientific research results, raw data and metadata, source materials, digital representations of pictorial and graphical materials and scholarly multimedia material. Open access contributions complete version of the work and all supplemental materials, ... in an appropriate standard electronic format is deposited (and thus published) in at least one online repository using suitable technical standards supported and maintained by an academic institution, scholarly society, government agency ... and long-term archiving.

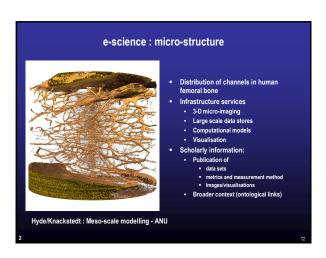








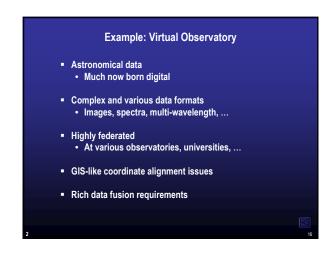




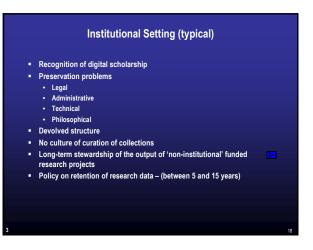




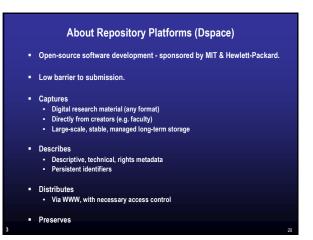
Example: PARADISEC - Linguistics archive of unique and endangered material from Asia-Pacific - 6000 languages in the world today - Only a few hundred left at the end of this century - 2500 in Asia Pacific - 800 in Papua New Guinea - Sustainability is critical - Many old analogue tapes, many TB of data - Complex rights management - Cultural constraints (eg. gender-based) - Time varying (speakers die, period of mourning)







Implementation setting (ANU) Born-digital scholarly material Research data, scholarly writing, learning objects Digitised collections Macho1, Paradesic, ePrints, Artserve, Chinese Digital Archive 1966-1976, Historic Photographic Collections, ... Proliferation of systems Prints, CONTENTdm, 4D, Filemaker pro, MS Access, mysql, php ... Need for broad spectrum repositories Acquisition Specific purpose application - custom built Open source DSpace, Fedora, FTOR, MyCoRe, ePrints, CDSware



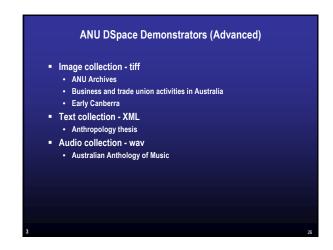
Pospace Information Model Communities Research units of the organisation Collections (in communities) Distinct groupings of like items Items (in collections) Logical content objects Receive persistent identifier Bitstreams (in items) Individual files Receive preservation treatment MacKenzie Smith, Associate Director for Technology MIT Libraries Dispace: An Open Source Institutional Digital Repository Space: An Open Source Institutional Digital Repository

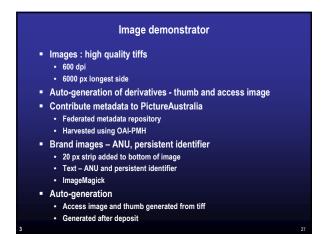


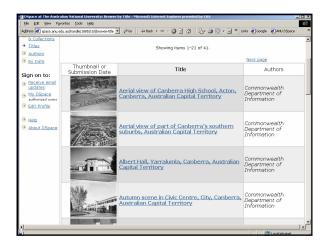
DSpace format support Known/supported TIFF, SGML/XML, AIFF, PDF, TXT Known/unsupported Microsoft Word, PowerPoint (common, proprietary) Lotus 1-2-3, Visicalc, WordPerfect (less common) Unknown/unsupported One-of-a-kind software program

DSpace Federation - Governance of the code - An initial group of system architects and developers - Copyright and licensing of code & DSpace trademark - Foster new and innovative uses of the platform - Institutional repository forum - Preservation - Access - Advocacy, marketing, assessment - SIGs

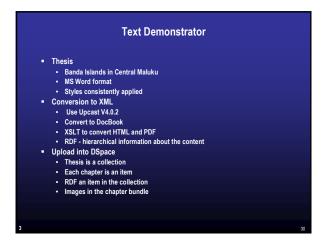
Strategic Alliances • Strategic Alliances • Global Digital Format Registry • SIMILE • CNRI Handles • Creative Commons • Google • eg Google pilot project • Google, OCLC & DSpace community • Improve access to scholarly material using Google's search technology • Mechanism not yet developed however goal to enable new services based on harvested scholarly collections

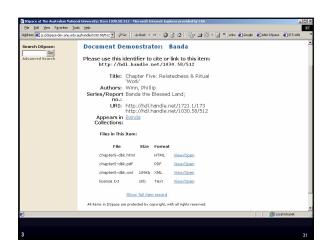


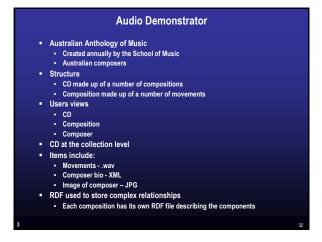


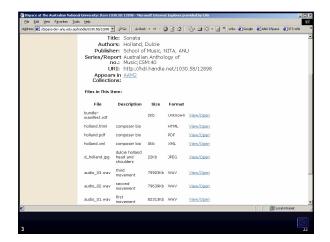










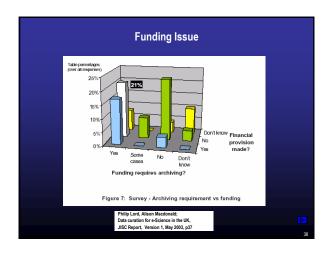












Community Declarations (mission)

- The Internet has fundamentally changed the practical and economic realities of distributing scientific knowledge and cultural heritage. For the first time ever, the Internet now offers the chance to constitute a global and interactive representation of human knowledge, including cultural heritage and the guarantee of worldwide access.
- ... Obviously, these developments will be able to significantly modify the nature of scientific publishing as well as the existing system of quality assurance.
- ... to promote the Internet as a functional instrument for a global scientific knowledge base and human reflection and to specify measures which research policy makers, research institutions, funding agencies, libraries, archives and museums need to consider.

Berlin Declaration

APSR Context (Summary)

E-Research Data Management
Digital to digital research methods – digitised primary data
Trusted data availability over the life-time of its value

National Infrastructure Development
Systemic Infrastructure Funding:
Networks – AREN - ARENAC
APAC-2
Research Information Infrastructure - ARIIC

International Data-Grid Focus
Physics, astronomy, social sciences
Digital Library Programs (US)
Data Curation Centre (UK)

APAC-2 Data Grid
Uniform access to distributed large scale data sets
Establishing archives of animations from digital models
Searching/analysing distributed large scale research data sets wrt Col