New Zealand

Data Saving and Sharing in a Digital Age: Issues and Implications

Peter Davis and Martin von Randow
Centre of Methods & Policy Application in the Social Sciences
Faculty of Arts, The University of Auckland

THE UNIVERSITY OF AUCKLAND
NEW ZEALAND
Te Whare Wānanga o Tāmaki Makaurau

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Wellington
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NZSSDS
Social Science Data Service

Tertiary Education Commission
Te Amorangi Mātauranga Matua

BeSTGRID

ENABLED BY KAREN

The University of Auckland

Presentation outline

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- Background paper
  - Outline of TEC-funded pilot project
  - Significance of data saving and sharing
  - Some issues and implications
- Response of a UK research funder
  - Medical Research Council
- NZ Social Science Data Service (NZSSDS)
  - Data acquisition and preservation
  - Data access and analysis
  - Training
- Nesstar Demonstration
- Questions?

TEC Data Service Project

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- Objectives and components
  - Acquire and protect key data sets
  - Trial the exchange and analysis of data via BeSTGRID
  - Establish sustainable model
  - Training for provision and use of services
- Outcome – Data Service
  - Key social science data sets archived
  - Those data sets readily accessible
  - User community with necessary skills
- Key partners
  - Social science departments
  - BeSTGRID project team
  - Australian Social Science Data Archive (ASSDA)

Background to significance

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- Technology
  - Common digital medium for all data
  - High-performance computing
  - Exchange of data via internet
- Government policy
  - “Knowledge” economy
  - Value of science investment
  - Funders insisting on saving and sharing
- Science community
  - Power of secondary data analysis
  - Re-use of expensive data
  - Primary collections harder
  - Transparency and integrity

Wider implications

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- Research funders
  - Insist on saving and sharing of data by grant holders?
- University authorities
  - Encourage saving and sharing among employees?
- Ethics committees
  - Favour preservation and re-use of research data?
- Scientific community
  - Save, share and document data, take to secondary analysis?
- Information managers
  - Will library be custodian of research data? Role of ITSS?
- Data service concept
  - Is there a sustainable business/professional model?

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MRC Data Sharing Initiative:

The Forward Strategy

MAKING BETTER USE OF MRC-FUNDED RESEARCH DATA

www.mrc.ac.uk/PolicyGuidance/EthicsAndGovernance/DataSharing

allan.sudlow@headoffice.mrc.ac.uk

Why Preserve or Share Research Data?

- **Reduce Duplication**
  - **Effort of Data Creation and Analyses**
- **Secondary Analysis**
  - **Comparative & Confirmatory analysis**
  - **Testing of new & alternative hypotheses, tools & methods**
  - **Meta-analysis e.g. systematic analysis of clinical trials data**
- **Data enrichment**
  - **Linking datasets**
  - **Large-scale pooling for complex or comprehensive analyses**
- **Asset management**

Data Access Principles

- **Governance of access to & use of MRC-funded research data must balance the interests of data providers, users & research participants (personal data).**

- **Access policies & practices must be transparent, equitable, practicable & provide clear decisions, consistent with MRC data sharing policy.**

- **Access policies must comply with statutory and other regulatory requirements, and good research practice.**

- **Principles supported by online, example-led guidance on:**
  - **Dataset discovery**
  - **Governing access and use of data**
  - **Data sharing agreements**
  - **Data from research involving people**
  - **Funding data access**

Forward Strategy: Vision

1. **Discovery of MRC research data along with metadata and other essential documentation**

2. **Managed access to, and use of, data for high-quality secondary research**

3. **Curation to enable informed re-use of preserved data**

4. **Long-term preservation of high-value MRC-funded datasets**

5. **Development of tools, standards and guidance needed to support these activities.**

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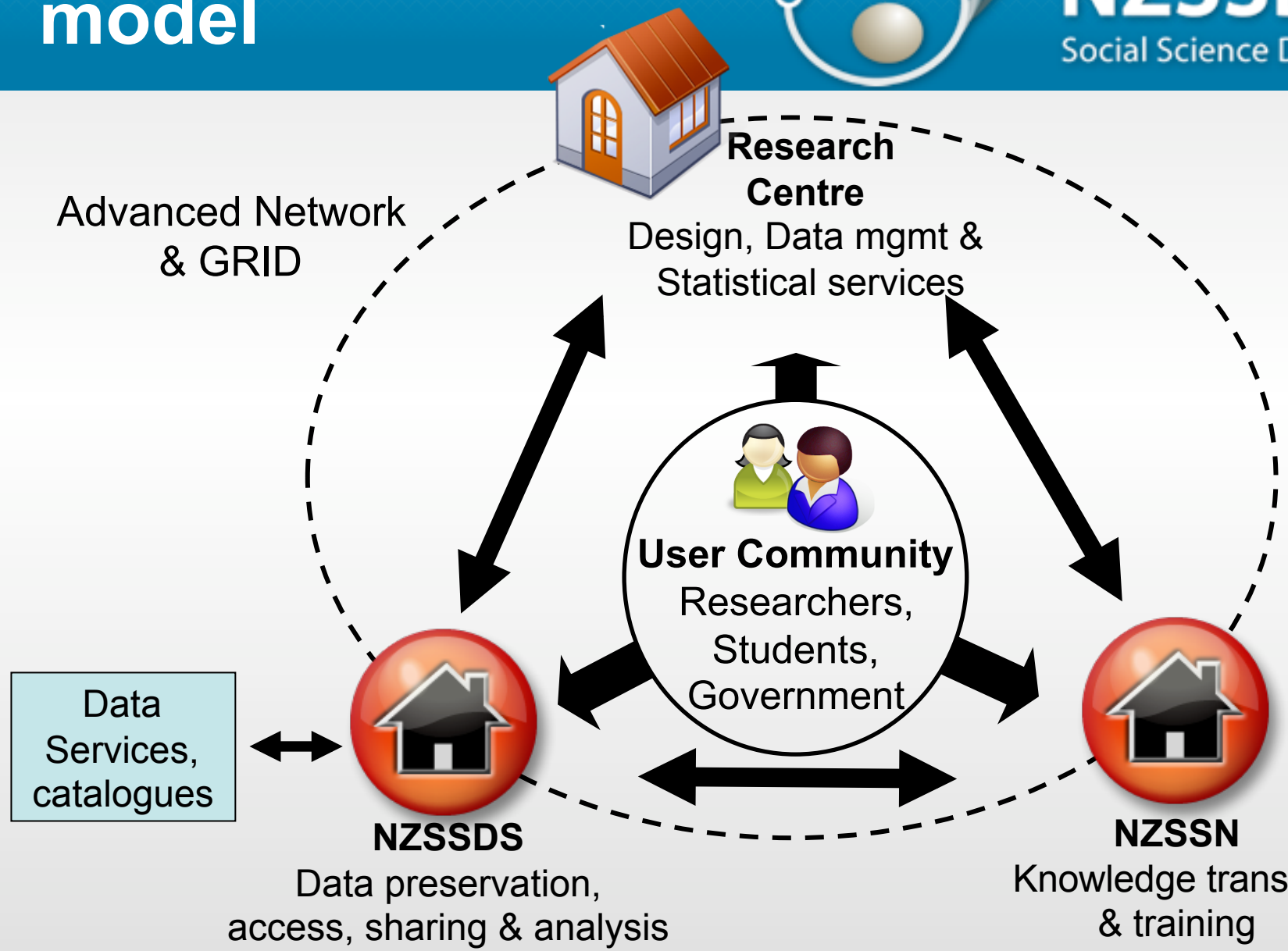
Business service model

NZSSDS
Social Science Data Service



Middleware – NESSTAR

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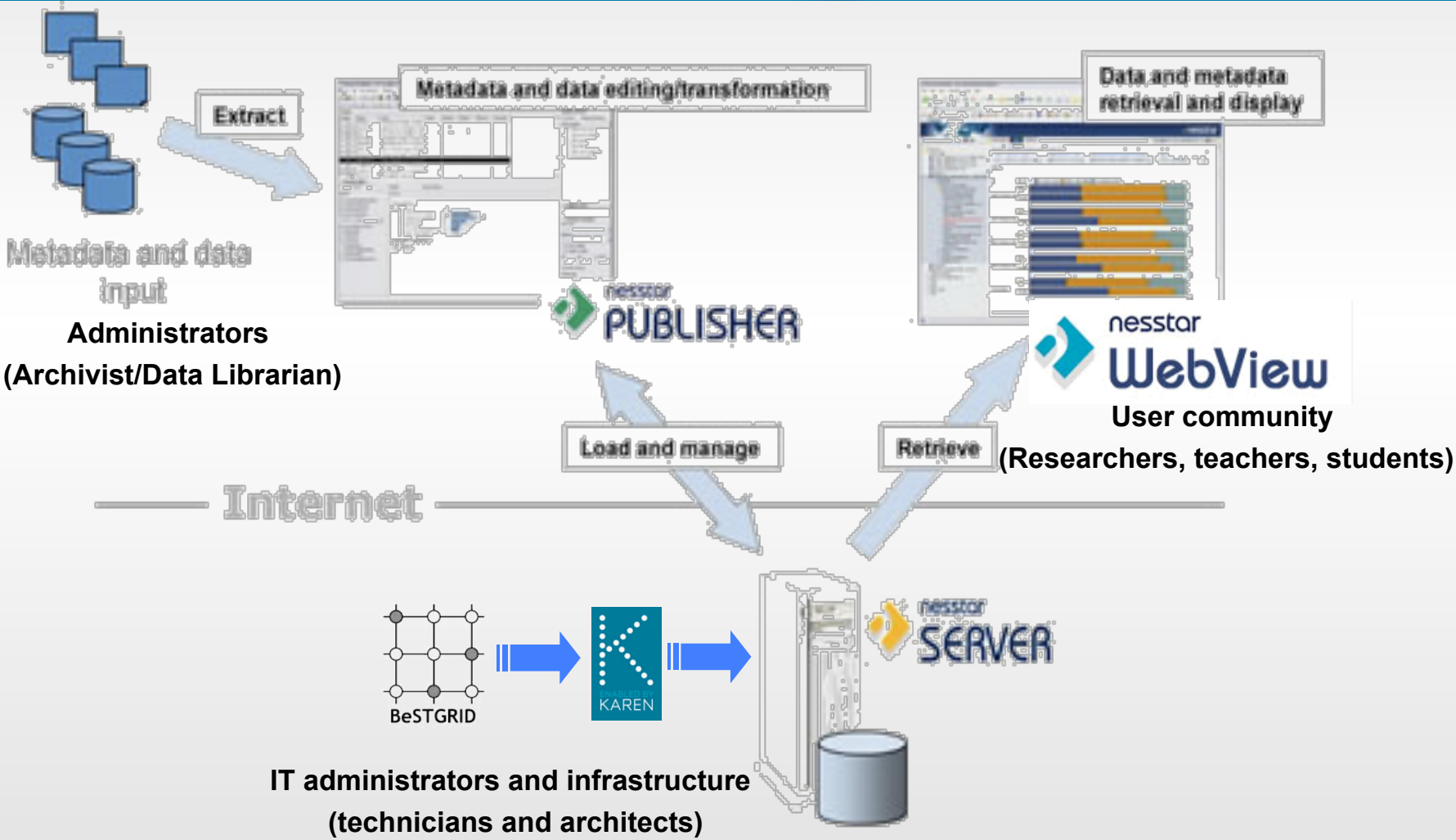

Administrators
(Archivist/Data Librarian)

User community
(Researchers, teachers, students)

IT administrators and infrastructure
(technicians and architects)

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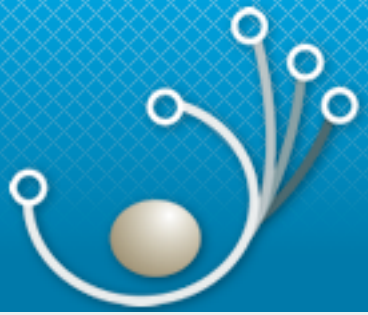

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  - WebView; metadata, analysis and download
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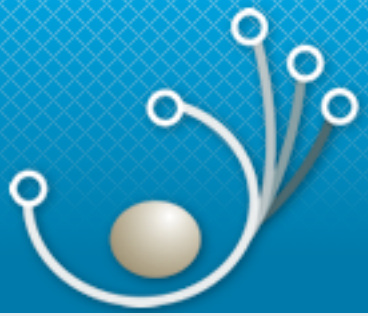
International Community



NZSSDS
Social Science Data Service

- ASSDA – Australian Social Science Data Archive; http://assda.anu.edu.au
- CESSDA – Council of European Social Science Data Archives; http://www.cessda.org
- IASSIST – International Association of Social Science Information Service and Technology; http://www.iassistdata.org
- ICPSR – Inter-University Consortium for Political and Social Research; http://www.icpsr.umich.edu/

Using the service – more info?

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- Contact Martin, admin@nzssds.org.nz
- For further information about NZSSDS please visit:

http://www.nzssds.org.nz

Questions?