



Australian Government
**Department of Education,
Science and Training**

The Role of DEST: Opportunities and Responsibilities for Research Data

Long-lived Collections: The Future of Australia's Research Data
National Library of Australia , 11 September 2007

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Focus of Talk

- DEST's role
- Converging Agendas
- PMSEIC Data for Science Working Group
- Elements of DEST's Response
 - Research Quality Framework & ASHER
 - Australian Access Federation
 - Accessibility Framework
 - The Australian National Data Service



DEST Role

- to engage stakeholders in building a trusted collaborative environment to collectively address issues of common interest
- to ensure that the policy and funding framework provides the right environment and incentives to encourage excellent research and foster greater collaboration and utilisation of data



Strategic Directions

- Research infrastructure and data should be accessible:
 - to a range of users – research community, government, states and territories; and
 - under controlled, authenticated but simple access regimes.
- Access should be independent of location – network infrastructure should therefore be robust and reliable.
- Data should be discoverable, accessible, managed and long-lived.
- The effect of the investments by governments and research communities in research and education should be maximised.



Converging Agendas

Network

Australian Research and Education Network

High Performance Computing Capability

National Computational Infrastructure

Data Management

PMSEIC Data for Science Working Group

Accessibility Framework

Research Quality Framework

Australian National Data Service

Interoperation and Collaboration Infrastructure (soon to be known as the Australian Research Collaboration Service)

Access & Security

Australian Access Federation

Coordination & Collaboration

e-Research Coordinating Committee

NCRIS Platforms for Collaboration



The PMSEIC Data for Science Working Group

- Suggested a cooperative, Whole of Government approach within a National Strategic Framework
- Key Recommendations included:
 - National network of data repositories
 - Improve sharing and collaboration
 - Increase skilled workforce for best practice in data management



Addressing PMSEIC Data for Science recommendations

- Research Quality Framework
- Australian Access Federation
- Accessibility Framework
- Australian National Data Services



Research Quality Framework (RQF)

- Funding from the Systemic Infrastructure Initiative (SII) has supported the development and deployment of digital repository technology eg. ARROW, APSR, RUBRIC.
- The Australian Scheme for Higher Education Repositories (ASHER) has provided \$25.5 million for
 - purchase of hardware and software to establish or update a repository, and
 - support to meet the workload involved with populating the institution's repository

in order to make research outputs available for RQF assessment.



Australian Access Federation

- The Minister approved \$4.8 million to establish the Australian Access Federation (AAF).
- The AAF:
 - aims to provide a national authentication and authorisation framework for higher education and research;
 - will play a critical role in ensuring seamless access to research infrastructure and research outputs;
 - builds on SII investments; and
 - will also be developed so that it can be extended to the schools and vocational education and training sectors over time.



Accessibility Framework

- Accessibility to publicly funded research outputs is fundamental to the process of scholarship.
- The Accessibility Framework is about ensuring that publicly funded research outputs are accessible by the public, by government, by business.
- It includes elements of:
 - Technology;
 - Policy; and
 - A robust regulatory framework

Australian National Data Service (ANDS)

- a key component of the Platforms for Collaboration
 - to deliver greater access to Australia's research data assets in forms that support easier and more effective data use and re-use
- on-going consultation for a consensus view of the services ANDS should offer
 - Technical Working Group has been working on detailed descriptions of the services

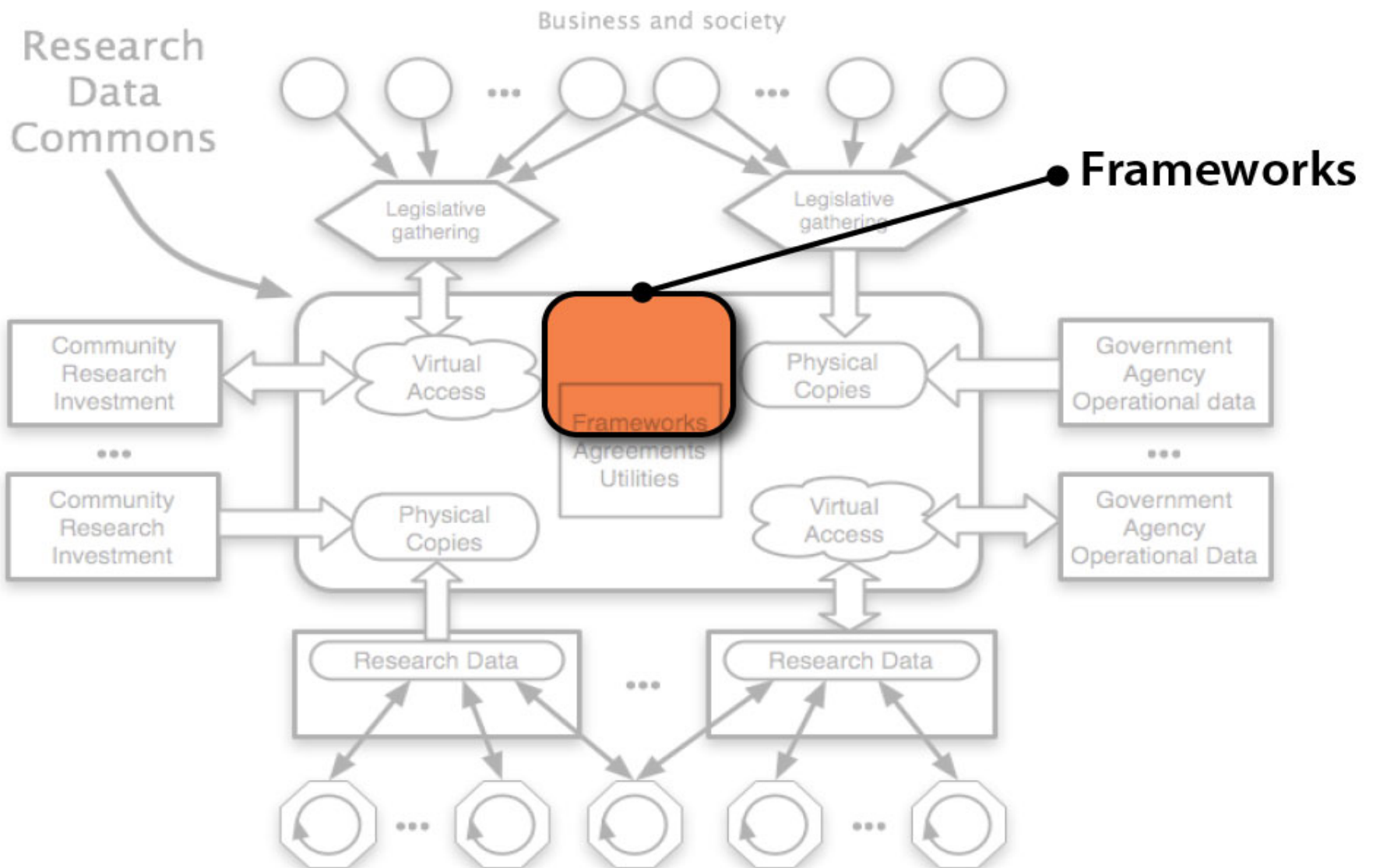


ANDS Objectives

- Improve data management systems;
- Improve data collection and management practices;
- Improve the national data management environment;
- Enhance data discovery and access;
- Increase data re-use; and
- Enable Australian participation in international and multidisciplinary research.

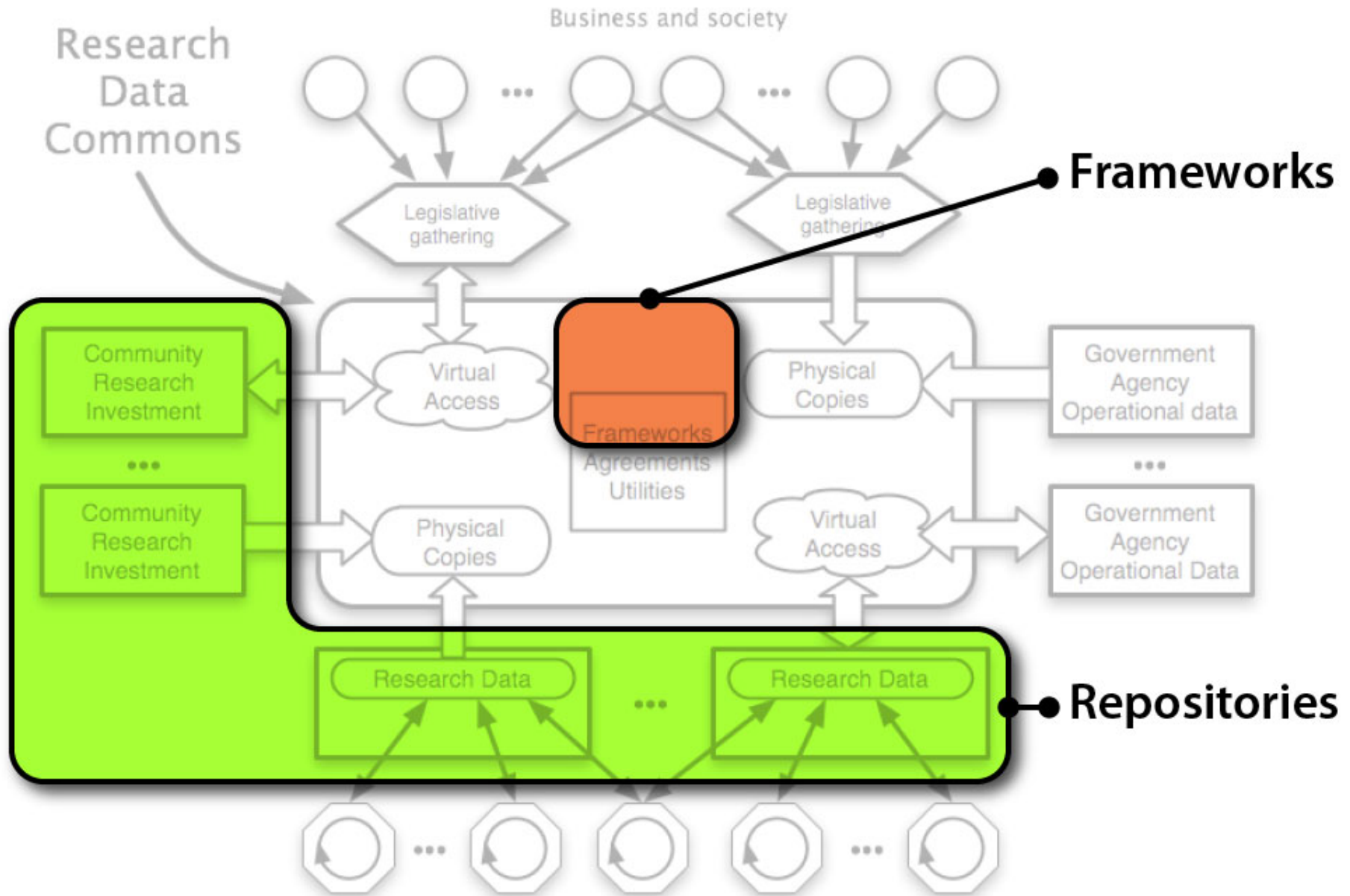


Proposed ANDS Activities within Data Commons context



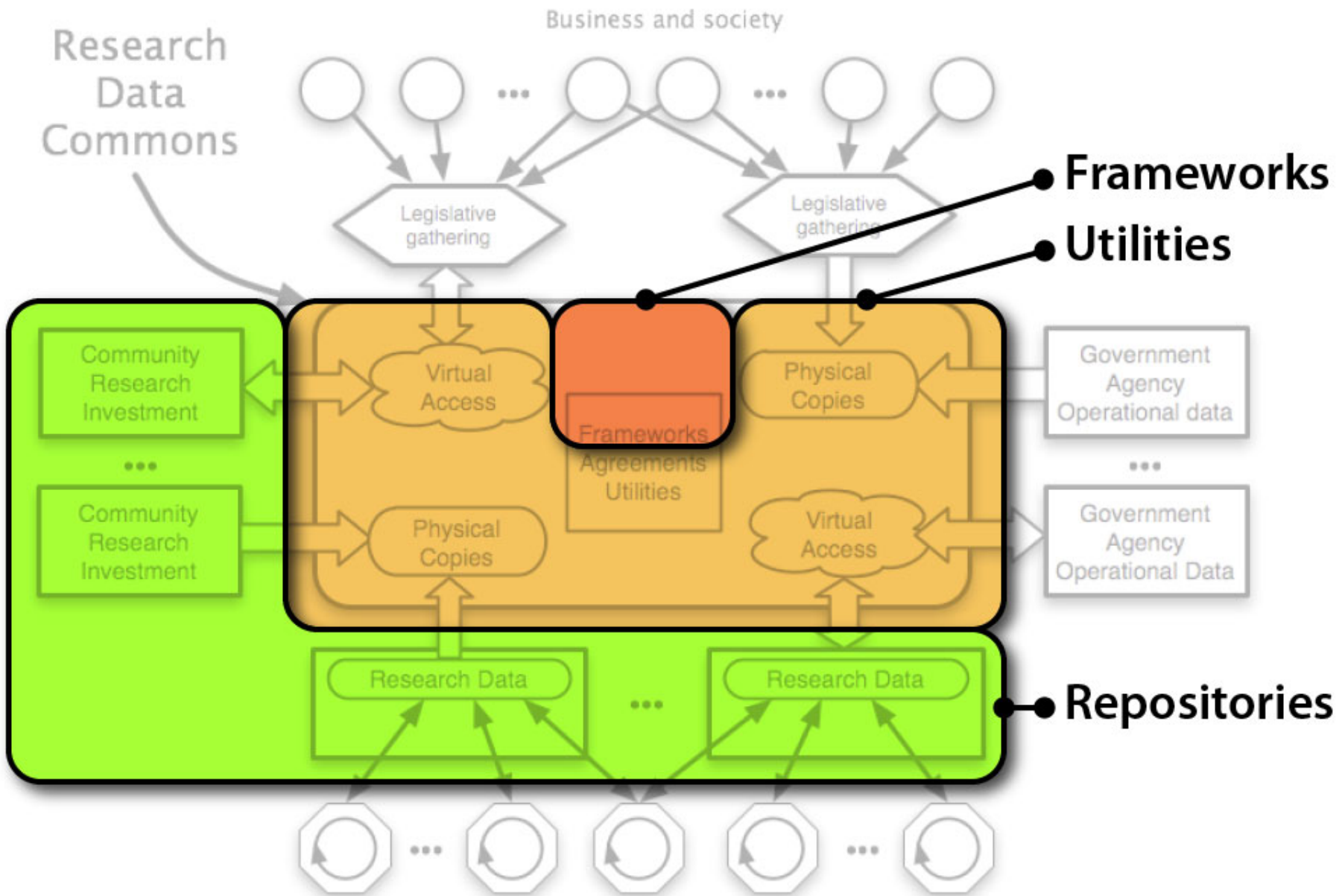
courtesy Andrian Burton, Markus Buchhorn, Chris Blackall

Proposed ANDS Activities within Data Commons context (2)

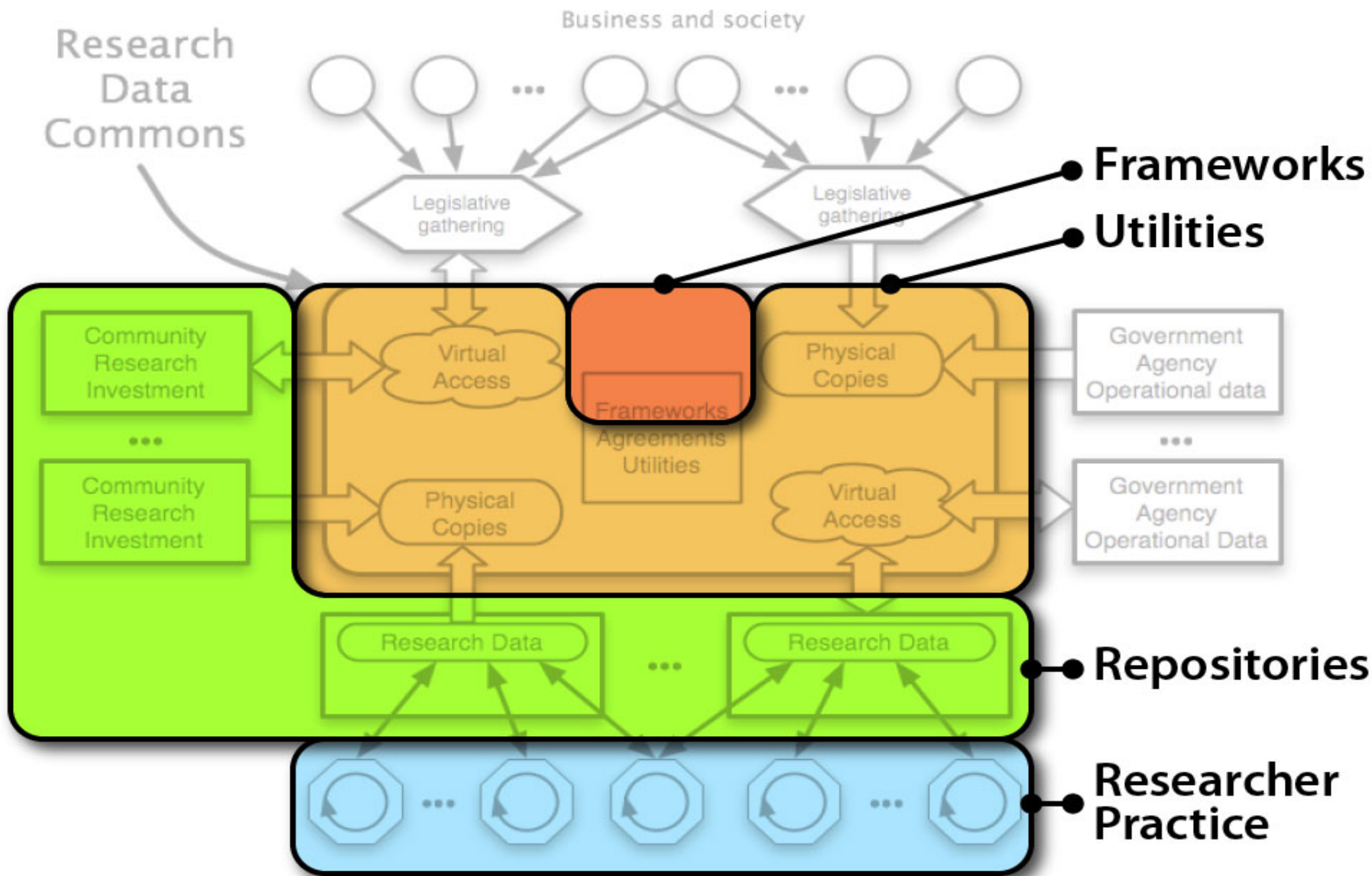


courtesy Andrian Burton, Markus Buchhorn, Chris Blackall

Proposed ANDS Activities within Data Commons context (3)



Proposed ANDS Activities within Data Commons context (4)



courtesy Andrian Burton, Markus Buchhorn, Chris Blackall

ANDS Programs

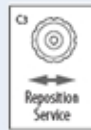
Frameworks

Set of Frameworks including:
*Consensus Community Vision
*Data Ownership
*Stewardship Responsibilities
*Accessibility Responsibilities
*Access Rights & Responsibilities
*Licensing Protocols
*Conditions of Funding
*Federation Participation Agreements
*Institutional Policy Templates
*Project Data Management Policy



Repositories

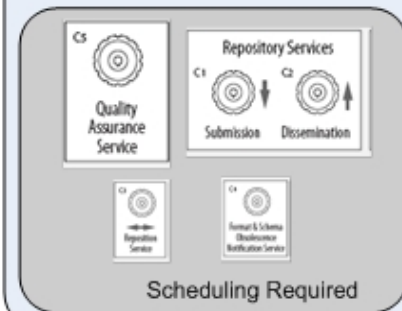
Standard Content Environment
propogated via:
*Resource Development & Training
*Repository Reference System
*Repository Consultancy
*Repository Rating



F Public Interface			
Ingest	Local Stats.	Access	Local Discovery
Presentation			
Local Interface			
Local Management			
Storage Interface			
Data	Metadata	Identifiers	

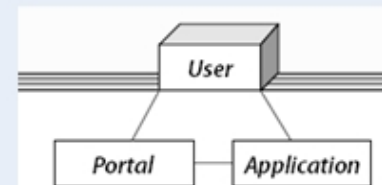
Utilities

Commons Utilities:
*Identifier Services
*Discovery Portal
*Collections /Service Registry
*Access Policies Rights Registry
Federation Architecture & Consultancy
Common Services (to be scheduled)



Researcher Practice

Tools
Consultancy
Resource Development & Training





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Questions?

