



Andrew Treloar, ARROW Technical Architect and DART Project Architect

DART Overview Presentation



***Dataset Acquisition
Accessibility & Annotation
e-Research Technologies***

Funding acknowledgement

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DART Dimensions

- **\$3.23M**
- **3 partners (Monash (PI), UQ, JCU)**
- **15 months**
 - Ends in Dec 2006
- **28 Separate work packages**
 - Data Collection, Monitoring and Quality Assurance (DMQ)
 - Storage and Interoperability (SI)
 - Content and Rights (CR)
 - Annotation and Assessment (AA)
 - Discovery and Access (DA)

DART Overview

The DART project will undertake a co-ordinated programme of eResearch requirements analysis, software development, policy and guideline creation and prototyping to investigate how best to:

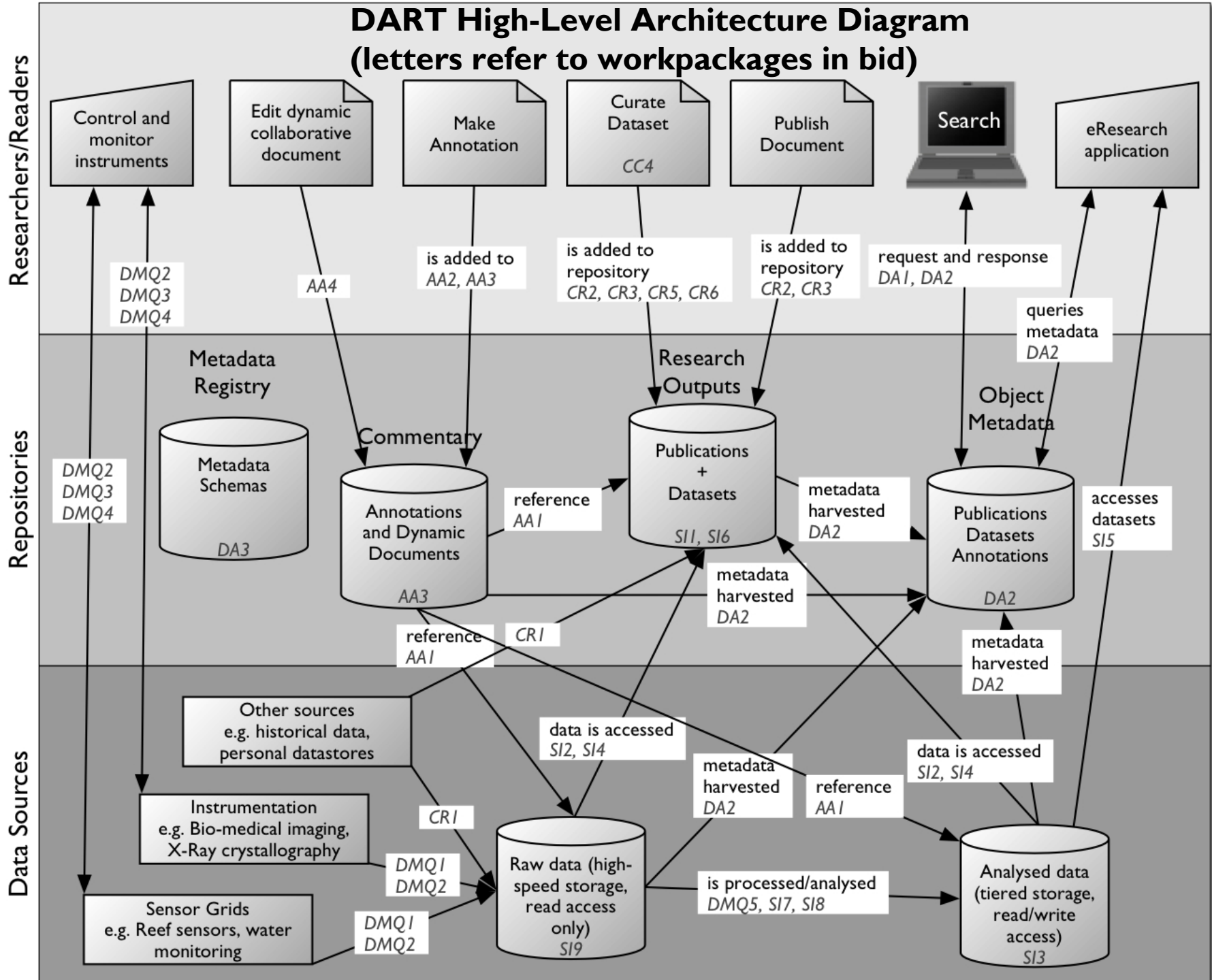
- collect, capture and retain large data sets and streams from a range of different sources;
- deal with the infrastructural issues of scale, sustainability and interoperability between repositories;
- support deposit into, access to, and annotation by a range of actors, to a set of digital libraries which include publications, datasets, simulations, software and dynamic knowledge representations;
- assist researchers in dealing with intellectual property issues during the research process;
- adopt next-generation methods for research publication, dissemination and access.

DART Objectives

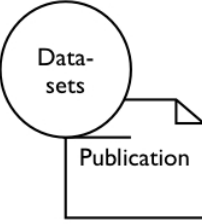



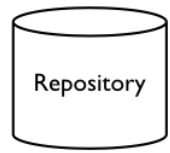
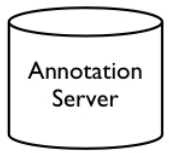
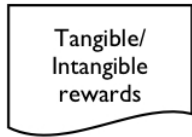
The specific objectives of the DART project are:

- to *support and enable researchers, end-users, and appropriate computer systems* to manage the creation and collection of data and to gain greater access to data and documents
- by *gathering, managing and archiving data and documents* and managing their access
- so that *researchers are more easily able to perform their work* and do so at a much higher level of insight and productivity than was previously possible,
- and so that the *Australian public has greater visibility of, and access to, publicly funded research.*

DART High-Level Architecture Diagram (letters refer to workpackages in bid)



DART Benefits (modified Pathways model)

Scholarly Processes	Research	Registration	Certification	Awareness	Archiving	Annotation	Rewarding
Process Outputs							
Without DART	<ul style="list-style-type: none"> • Poor curation • Fragmented collaboration • Poor support for sensors, large datasets 	<ul style="list-style-type: none"> • Reliant on journal processes • Rarely possible for datasets 	<ul style="list-style-type: none"> • Based on journal quality as proxy for article • Datasets problematic 	<ul style="list-style-type: none"> • Hard to discover datasets and other digital objects 	<ul style="list-style-type: none"> • Reliant on journals • Poor support for datasets 	<ul style="list-style-type: none"> • No ability for annotation of publications or datasets 	<ul style="list-style-type: none"> • Largely based on publications • Based on peer evaluations
With DART	<ul style="list-style-type: none"> • Data curation • Collaboration support • Support for eResearch 	<ul style="list-style-type: none"> • Immediate registration • Datasets and other digital objects accepted 	<ul style="list-style-type: none"> • Other quality measures possible • Digital objects rateable 	<ul style="list-style-type: none"> • Datasets now treated in same way as publications 	<ul style="list-style-type: none"> • Datasets now treated in same way as publications • Secure archive 	<ul style="list-style-type: none"> • Annotation of publications or datasets by researchers and readers 	<ul style="list-style-type: none"> • Now based on datasets and annotations • Visible to wider group
Benefits for Researchers	<ul style="list-style-type: none"> • More effective research • No data loss 	<ul style="list-style-type: none"> • Guaranteed priority • Range of digital objects 	<ul style="list-style-type: none"> • Better assessment of all research outputs 	<ul style="list-style-type: none"> • Easier to locate and build on existing work 	<ul style="list-style-type: none"> • Ability to locate archival datasets • No data loss 	<ul style="list-style-type: none"> • Improved collaboration and validation • Faster communication 	<ul style="list-style-type: none"> • More immediate feedback
Benefits for Public	<ul style="list-style-type: none"> • Better use of taxpayer funds • Improved research outcomes 	<ul style="list-style-type: none"> • Improved efficiency • Visibility of priority claims 	<ul style="list-style-type: none"> • Better visibility of quality measures for range of outputs 	<ul style="list-style-type: none"> • More efficient research • Improved research outcomes 	<ul style="list-style-type: none"> • Access to archived data • Improved visibility over research outputs 	<ul style="list-style-type: none"> • Visibility into research process • Ability to annotate! 	<ul style="list-style-type: none"> • Ability to influence rewards • Improved research outcomes

Website

- <http://dart.edu.au/>
 - Contains public version of bid document
 - This presentation