







# MaDAM - A Pilot Data Management Infrastructure for Biomedical Researchers at The University of Manchester

**Project Team** 

MeRC: June Finch (PM), Mhorag Goff, Meik Poschen, Rob Procter

RCS: Simon Collins, Mary McDerby

JRUL: Jon Besson, Tom Grahame, Lorraine Beard (PI)

**Project Sponsor** 

Jan Wilkinson (JRUL)

**User Representatives** 

Simon Hubbard (Life Sciences), Alan Jackson (Medical School)





# The University of Manchester

#### MaDAM

- General & Local Context
  - Project Approach
  - -Pre-MaDAM Situation
- -What does MaDAM provide?
  - Researcher Benefits
    - -What's to come?

### MaDAM Context – Funder retention policies, FOI, Increasing pressure from publishers/funders to share



### MaDAM Context - Institutional Repository eScholar - launched 2009



### MaDAM Context - Manchester Informatics - University addressing the problem via "SAC"



## MaDAM Context £ JISC-Funded "MaDAM" Project runs to June 2011 £ University Contributed £120K plus staff time



### MaDAM Approach – Researcher-need led, initial discussions, prototypes, workshops



### Pre-MaDAM - Inconsistent ad hoc data management solutions available within the user community



Pre-MaDAM – Users report multiple copies of data, difficult to track down the right version



### Pre-MaDAM – Lab books used for metadata with associated search difficulties



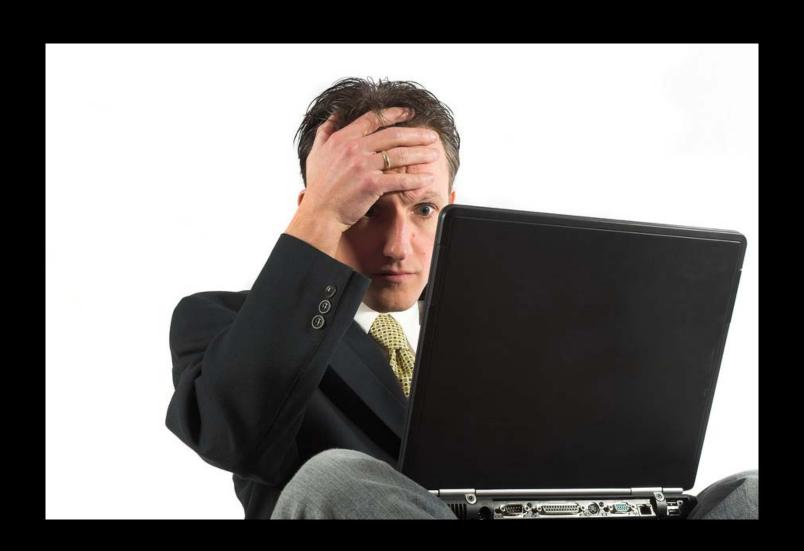
Pre-MaDAM – Much use of portable devices for transfer, storage and sharing



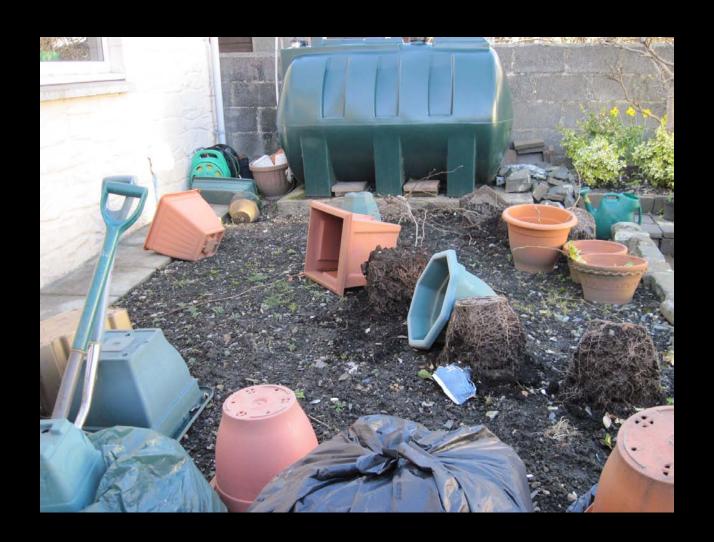
### Pre-MaDAM – "Failed" experiment data often retained, but rarely revisited



#### Pre-MaDAM – Backup policies not always in place



### Pre-MaDAM – Decentralised and fragmented storage



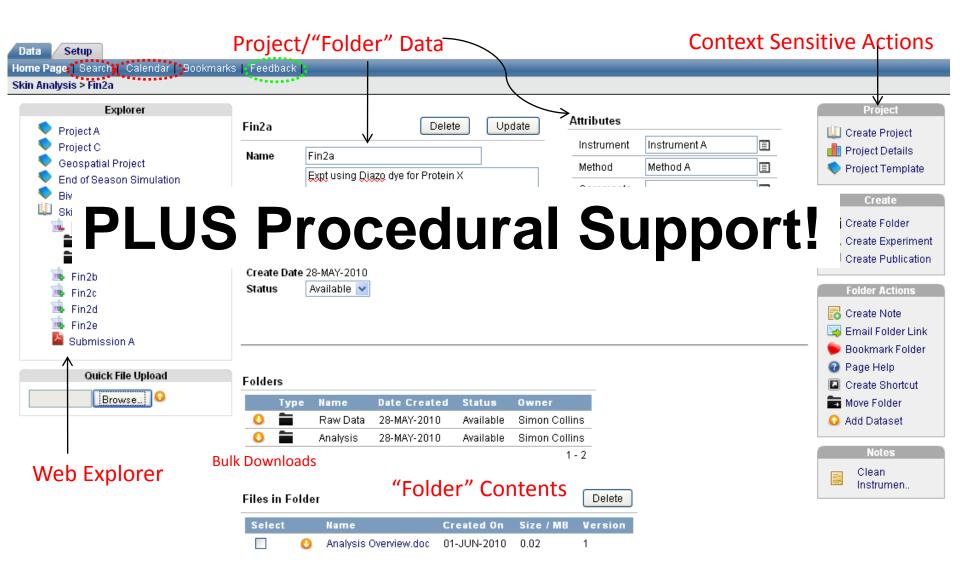
#### Pre-MaDAM – Limited means of disseminating data



### Pre-MaDAM – No archiving policies to support long-term curation



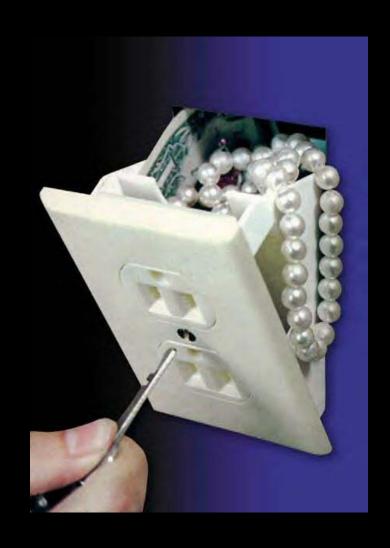
#### MaDAM Pilot: Research Data Management



### MaDAM provides: support in the parts of the workflow users are interested in



MaDAM provides: trusted secure storage to reduce risks of data loss



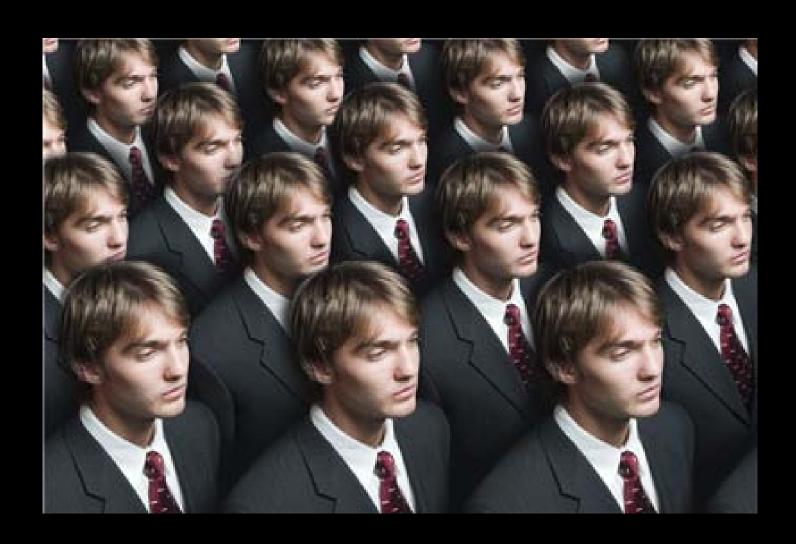
MaDAM provides: a mechanism to make metadata visible and searchable



### MaDAM provides: easier, more secure owner-controlled data sharing



### MaDAM provides: an end to redundancy by making existing resources easier to discover



### MaDAM provides: (via eScholar) media format accessibility for long-term reuse



### MaDAM provides: compliance with legal and funder obligations









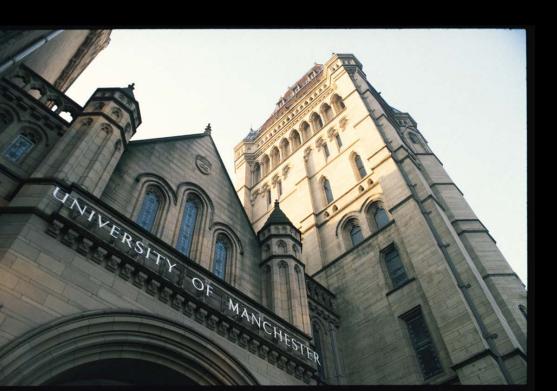






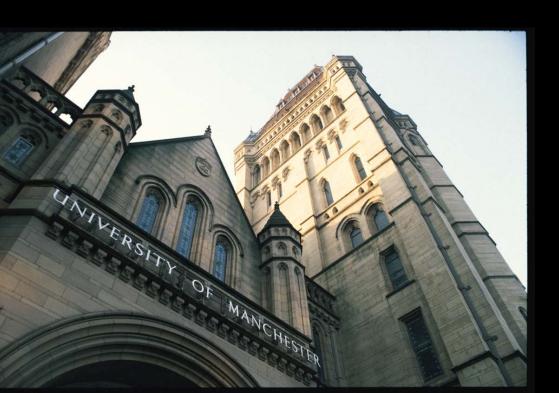
#### **Institutional Benefits:**

- 1. Researcher time spent on research
- 2. "Bulk-buying" across the Institution leads to cost benefits in storage (MaDAM moving towards UoM Virtualised Storage system) and an ability to buy storage on demand.
- 3. Energy/equipment efficiency through centralisation



#### **Institutional Benefits:**

- 4. Easier costing for data management needs in proposals
- 5. Enhanced Reputation for the University
- 6. Easier compliance with funder & legal obligations



#### National Future:

- 1. Funders data management requirements to become stricter
- 2. Search across subject and institutional repositories
- 3. Academic ratings associated with data?



#### Local Future:



Library to run up the service

Funded via grants (?)

**Transitional Project** 

Future Enhancements: Data Plan Creation (later talk) Capture, Sharing, Creation





The University of Manchester



### Many Thanks!

http://www.merc.ac.uk/?q=MaDAM http://www.library.manchester.ac.uk/aboutus/projects/madam