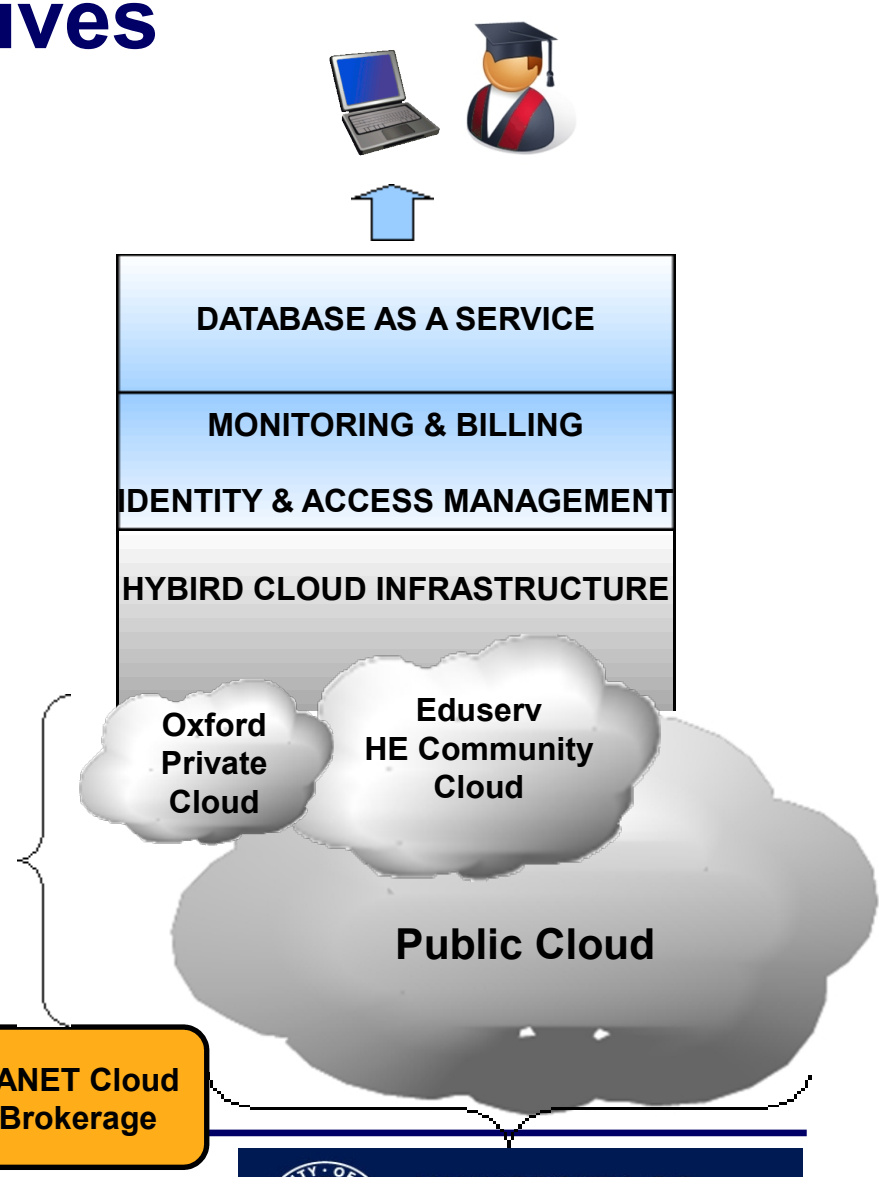
# Virtual Infrastructure with Database as a Service (VIDaaS) Project

**Monday 14th November 2011**

**James A J Wilson**
James.wilson@oucs.ox.ac.uk

# VIDaaS objectives

- Deliver costs savings / efficiencies to UK research (part of the UMF)
- Create production-ready 'Database as a Service' (DaaS)
- Create hybrid cloud infrastructure on which to host DaaS
- Enable sharing of infrastructure and services
- Provide appropriate user training and support for DaaS
- Ensure services are sustainable beyond the life-span of the project

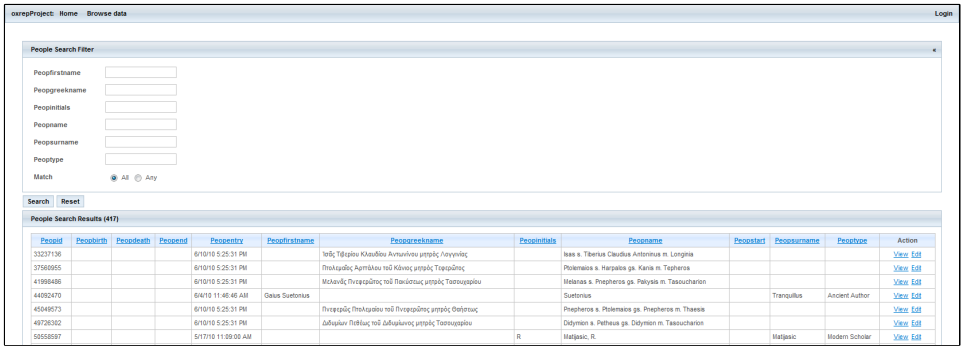


# What is the DaaS?

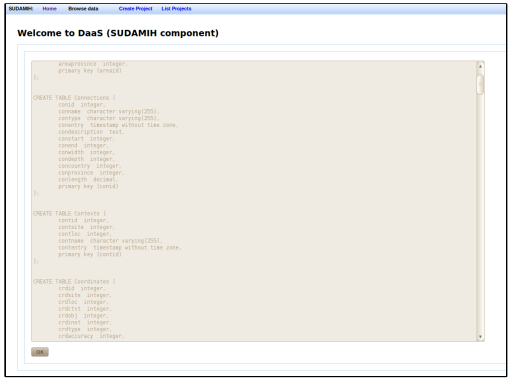
- A web-based system that will enable researchers to quickly and intuitively
  - build a relational database from scratch, or
  - Import an existing database in common formats (such as Access)
- Generic data addition, editing, and querying interfaces
  - Research groups may, if desired, develop their own Web front-end interfaces to databases hosted by DaaS
- Databases centrally hosted, maintained, and routinely backed up
- Access controls to determine who can view or edit each database
  - Enables cross-institutional collaboration
  - Easy to share data with colleagues or even the general public
- Metadata capture to improve data rediscovery

# DaaS Components

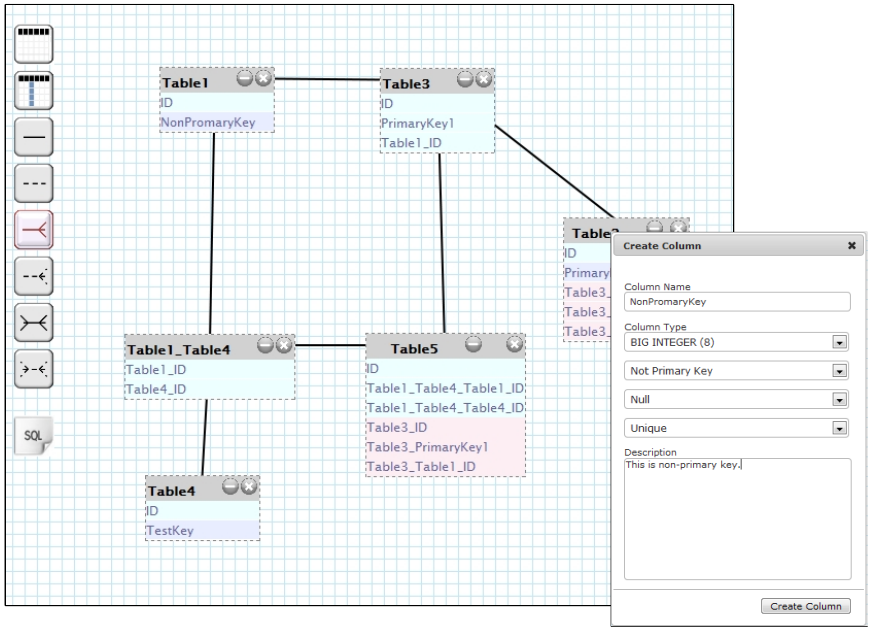
1.



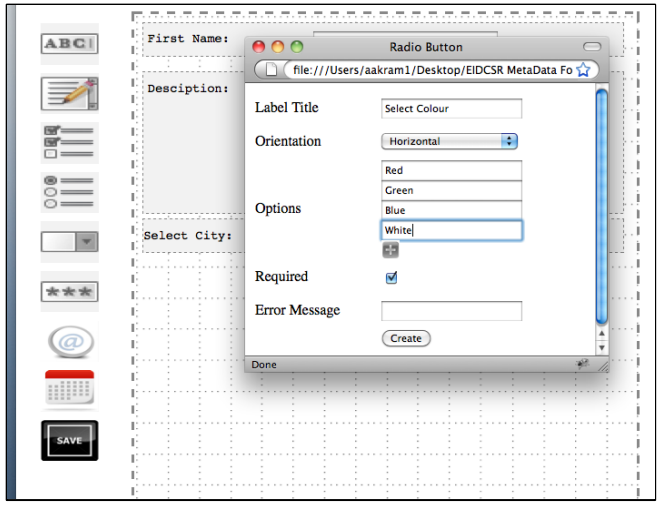

2.




3.




4.




& 5...

JISC Virtual Infrastructure with Database as a Service (VIDaaS)

UNIVERSITY OF OXFORD

# VIDaaS enhancements

- Extended functionality beyond the humanities
- Frequent testing with ‘early adopters’ group
  - In exchange for 3 years hosting without charge
- Improved user interface, documentation, and support
- Enabling ‘publication’ of data, or sub-sets of data
  - Both dynamic and static data publishing options
- XML databases as well as relational databases

# Contacts

http://vidaas.oucs.ox.ac.uk/

vidaas@oucs.ox.ac.uk