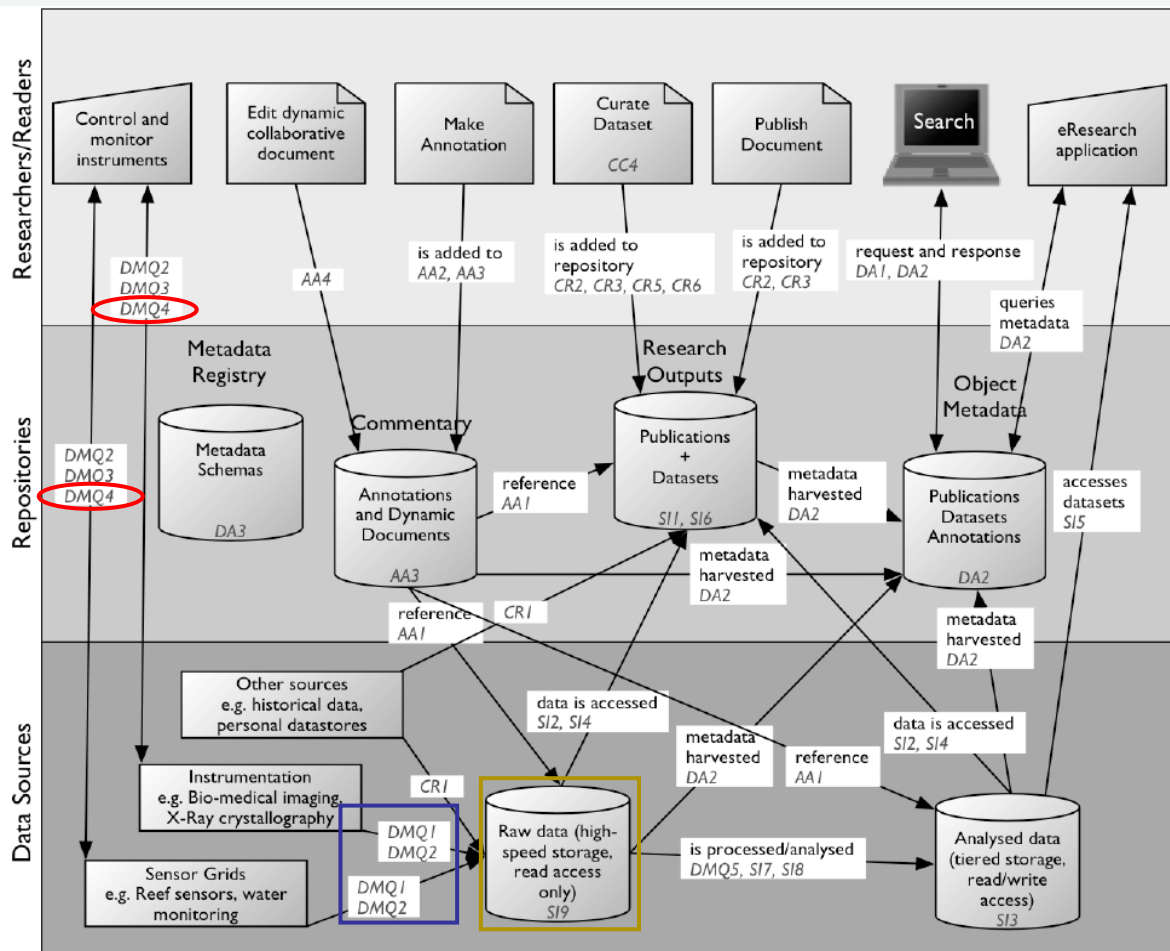


DMQ4: Instruments & Sensors for online remote access

- Sai Sun
- DART – UQ

Outline of Work Package



Objective:
 Provide online, remote access to pilot working instruments/sensors



Outline of Work Package (cont.)

- Developing visualization tools for data collected from instruments and sensors – to provide the user a friendly interface to request past data in a particular period or satisfying some constraints.
- Data processing and data mining for living data streams collected from instruments and sensors – to monitor and analyze especially interesting or emergent data from extensive data streams on-the-fly.



Current work

■ Document Review

- CIMA – Common Instrument Middleware Architecture
- SRB – Storage Resource Broker
- Techniques for developing Visualization tools:
 - SMIL – Synchronized Multimedia Integration Language
 - HTML+TIME – Timed Interactive Multimedia Extensions for HTML
 - SVG – Scalable Vector Graphics
 - Software that Suzanne developed
<http://metadata.net/sunago/fusion/visualisation/index.html>



Current Work (cont.)

- Make some simple demo

<http://www.itee.uq.edu.au/~sunsai>

- Begin JCU collaboration

Meet Ian and Mat in the middleware workshop



Future Expansion/Work Plans

- Install components of CIMA? to access the real-time sensor data streams created in JCU
- Finish the demo for advanced search interfaces
- Implement the visualization tools on the real sensor data

- Familiarise with the grid technologies
- Survey the research work in grid DB, sensor networks and data streams
- Identify application with data intensive and real-time requirements for CIMA



Thank You