

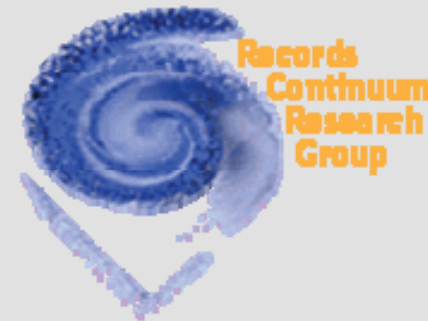


Open Forum on Metadata Registries
19-22 May 2008, Sydney

Clever Recordkeeping Metadata Project

**Metadata registries for
recordkeeping metadata
interoperability**

Dr Joanne Evans



Clever Recordkeeping Metadata Project

ARC Linkage Project 2003-2005

Chief Investigator

- Professor Sue McKemmish, Monash University

Partner Investigators

- Professor Anne Gilliland-Swetland, UCLA
- Mr Adrian Cunningham, National Archives of Australia

Industry Partners and Collaborators

- National Archives of Australia
- State Records Authority of New South Wales
- Australia Society of Archivists, Committee on Descriptive Standards



<http://www.infotech.monash.edu.au/research/groups/rcrg/crkm>

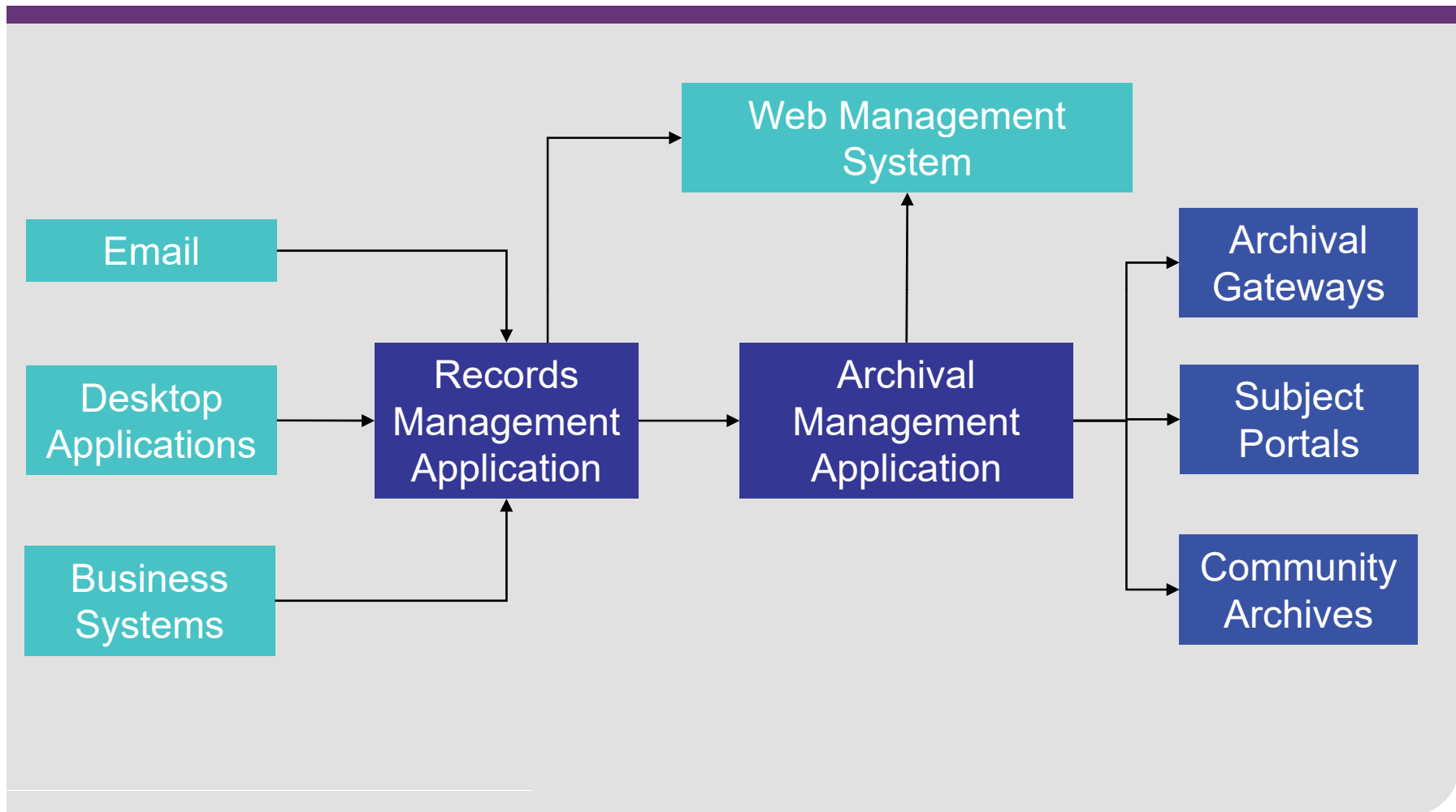
Imperatives for recordkeeping metadata interoperability

- *... Most organizations have serious operational problems regarding the processes by which they manage electronic records, one of their most important assets. ...*
- *... Many of the findings are worse than they otherwise might be because the business functions required to successfully manage electronic records operate in an independent “silo” context. ...*
- *... The number and magnitude of organizational and operational problems reflected in the survey findings collectively create stunning business risks.*

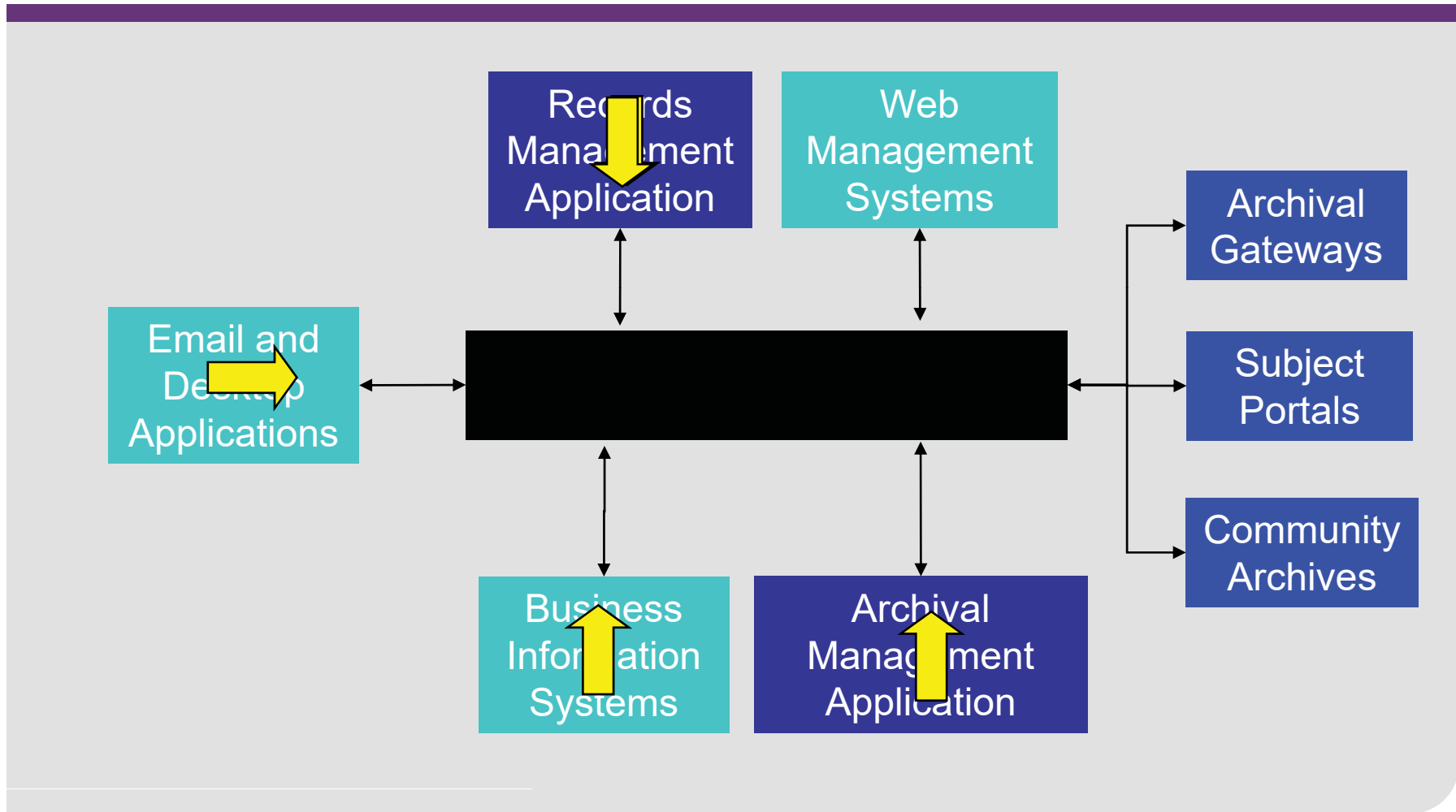
Robert F. Williams and Lori J. Ashley, *2005 Electronic Records Management Survey 2005 – A Renewed Call to Action White Paper*, Cohasset Associates Inc., 2005, 68 pp, <http://www.merresource.com/pdf/survey2005.pdf>



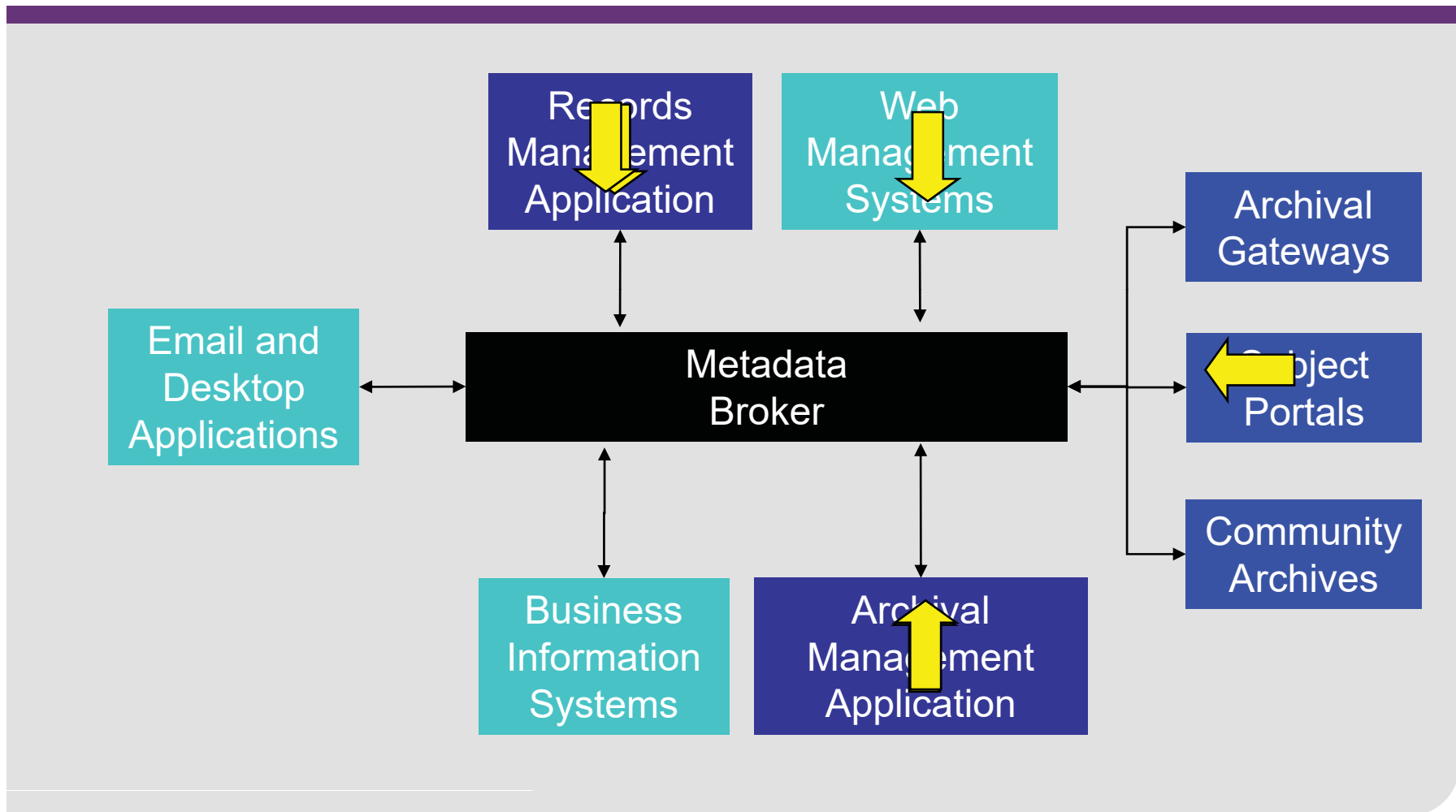
Traditional recordkeeping architectures



Metadata broker as middleware



Metadata broker as middleware (cont.)



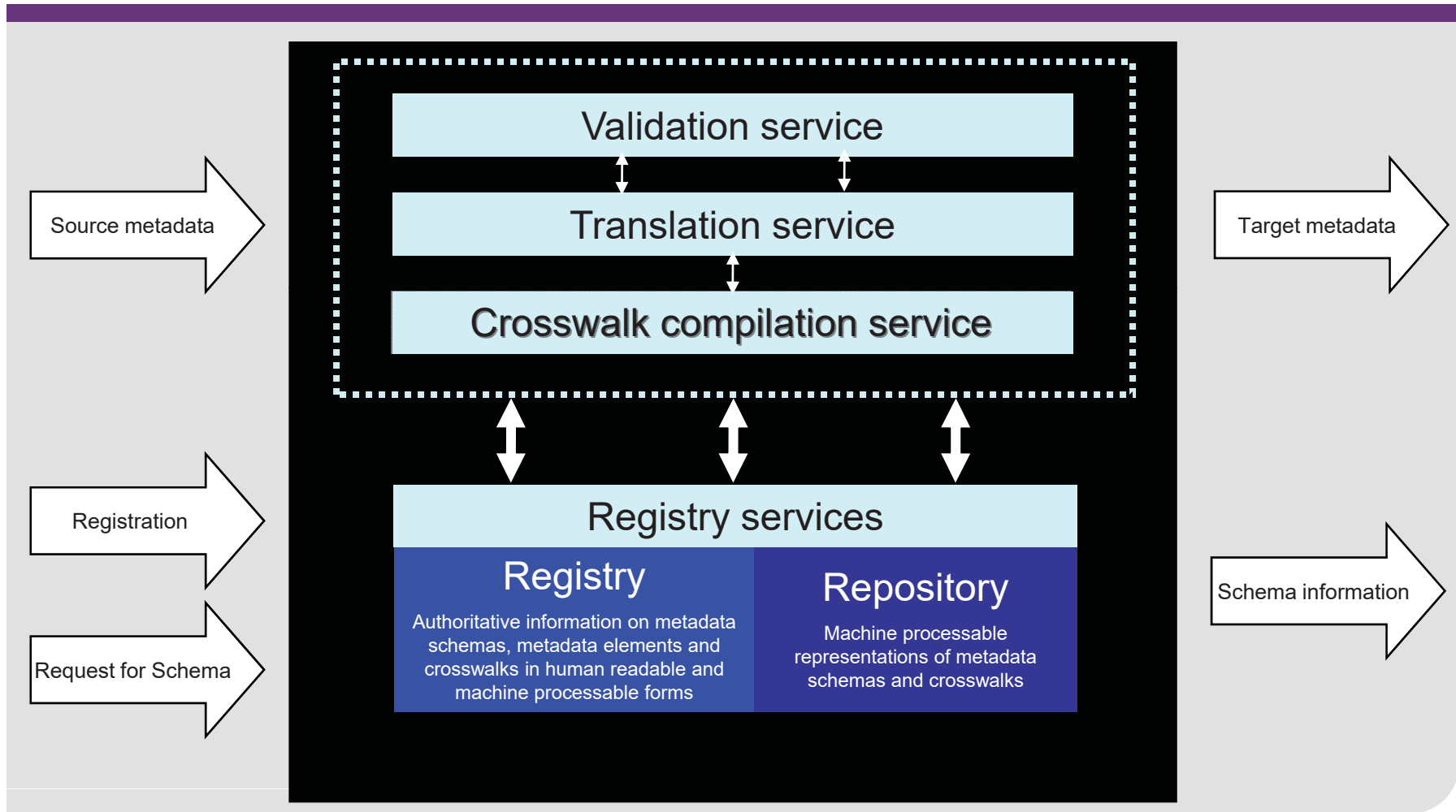
First iteration outcomes

- **Observations**
 - Standards not as interoperable as assumed
 - Complexity in recordkeeping metadata re-use
 - Limitations of current recordkeeping metadata standards
- **Reflections on observations**
 - Sustainability requires moving beyond hand crafting crosswalks and hard wiring applications
 - Constraints of records management and archival processes, technologies and tools developed for paper recordkeeping and in application-centric IT environments

Second iteration agenda

- **Develop CRKM Broker as a cluster of web services**
- **Revise scenario processes in line with continuum and service oriented**
- **Test use of the CRKM Broker within such a framework**
- **Develop business case for recordkeeping metadata in such a framework**

Second iteration CRKM Broker

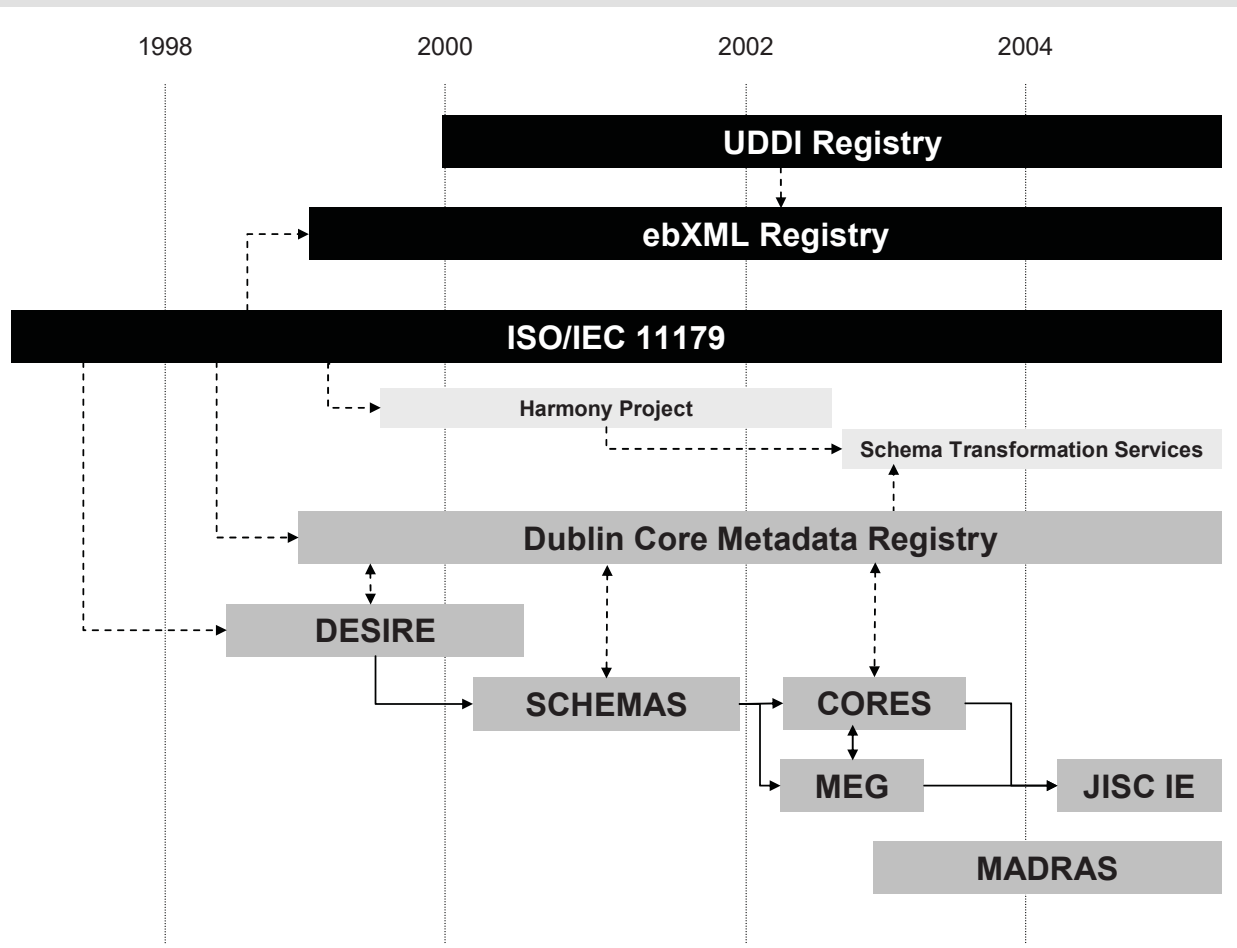


Registry Evaluation

- **Registry Standards and Specifications**
 - ISO/IEC 11179 Metadata Registries standard (1994 –)
 - ebXML Registry specification (1999 –)
 - UDDI Registry specification (2000 –)
- **Registry Prototypes**
 - Dublin Core Metadata Registry (1999 –)
 - DESIRE Metadata Registry Framework (1998 – 2000)
 - SCHEMAS: Forum for Metadata Schema Designers and Implementers (2000 – 2001)
 - CORES – A Forum on Shared Metadata Vocabularies (2002 – 2003)
 - MEG Registry Project (2002 – 2003)
 - JISC IE Metadata Schema Registry (2004 – 2005)
 - InterPARES 2 Metadata and Archival Description Registry and Analysis System (MADRAS) (2003 – 2006)
- **Translation Research Projects**
 - Harmony Project (1999 – 2002)
 - OCLC Metadata Schema Transformation Services, Metadata Switch (2002 – 2004)



Registry Timeline



Types of registries

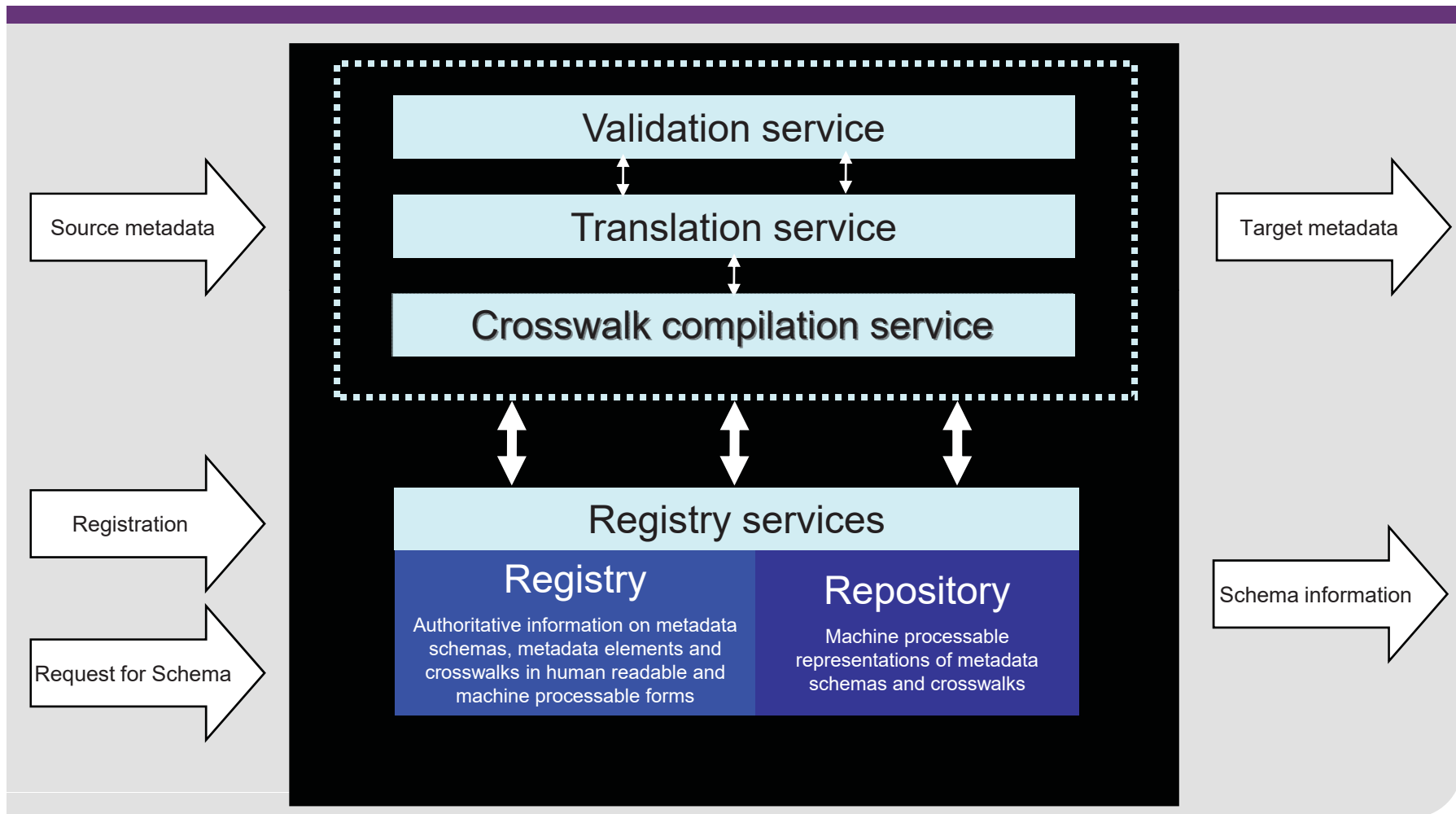
- **General**

- Manage metadata and pointers to resource objects
- e.g. UDDI, ebXML, MADRAS

- **Metadata**

- manage metadata about the semantics and syntax of metadata
- e.g. ISO/IEC 11179, Dublin Core Registry, DESIRE/SCHEMAS/CORES/MEG/JISC IE Registry Prototypes

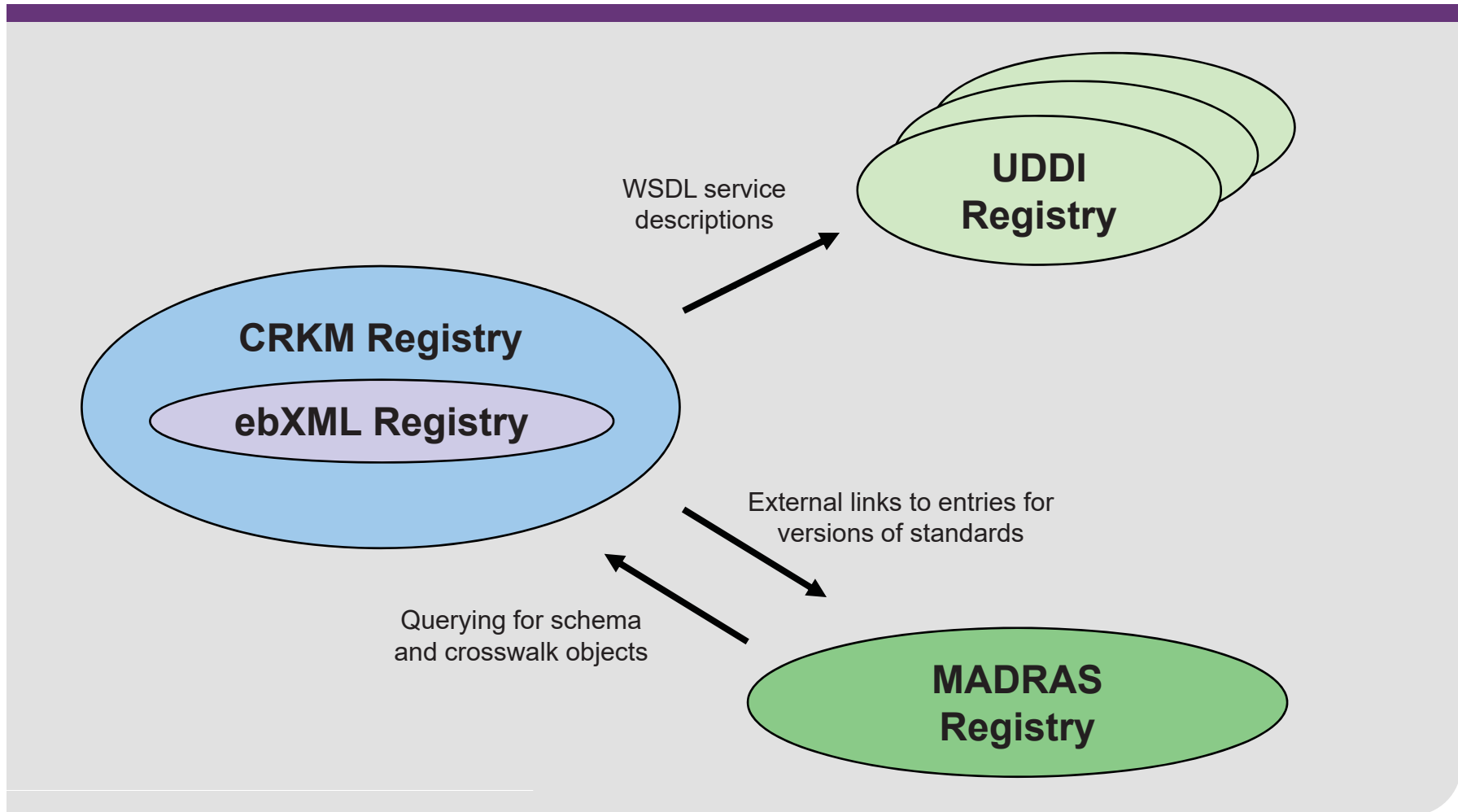
Second iteration CRKM Broker



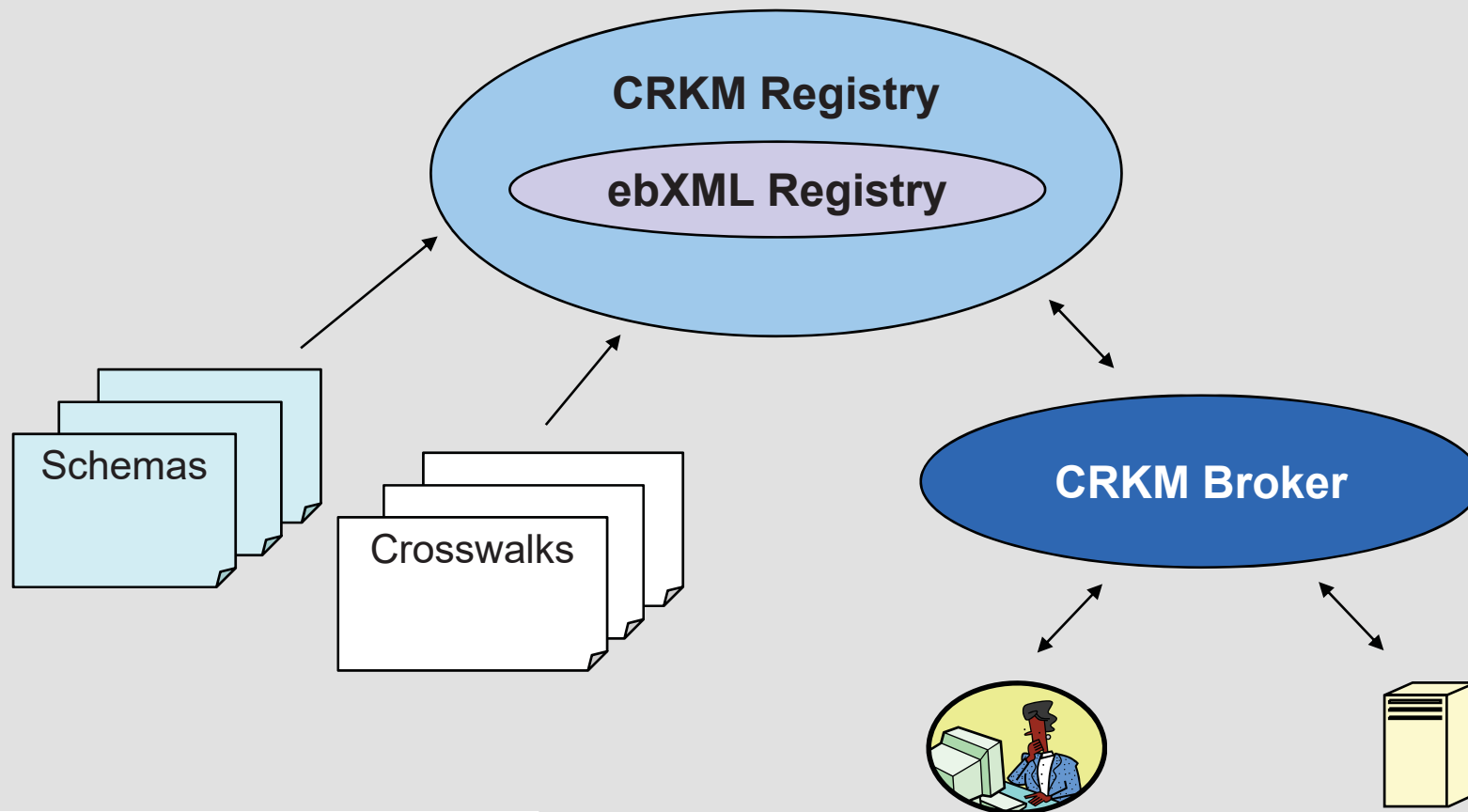
ebXML Registry

- **Two part specification of requirements for object repository and associated registry**
 - ebXML Registry Information Model
 - ebXML Registry Services and Protocols
- **Availability of freeBXML Registry - open source reference implementation of an ebXML Registry**
 - see <http://ebxmlrr.sourceforge.net/>

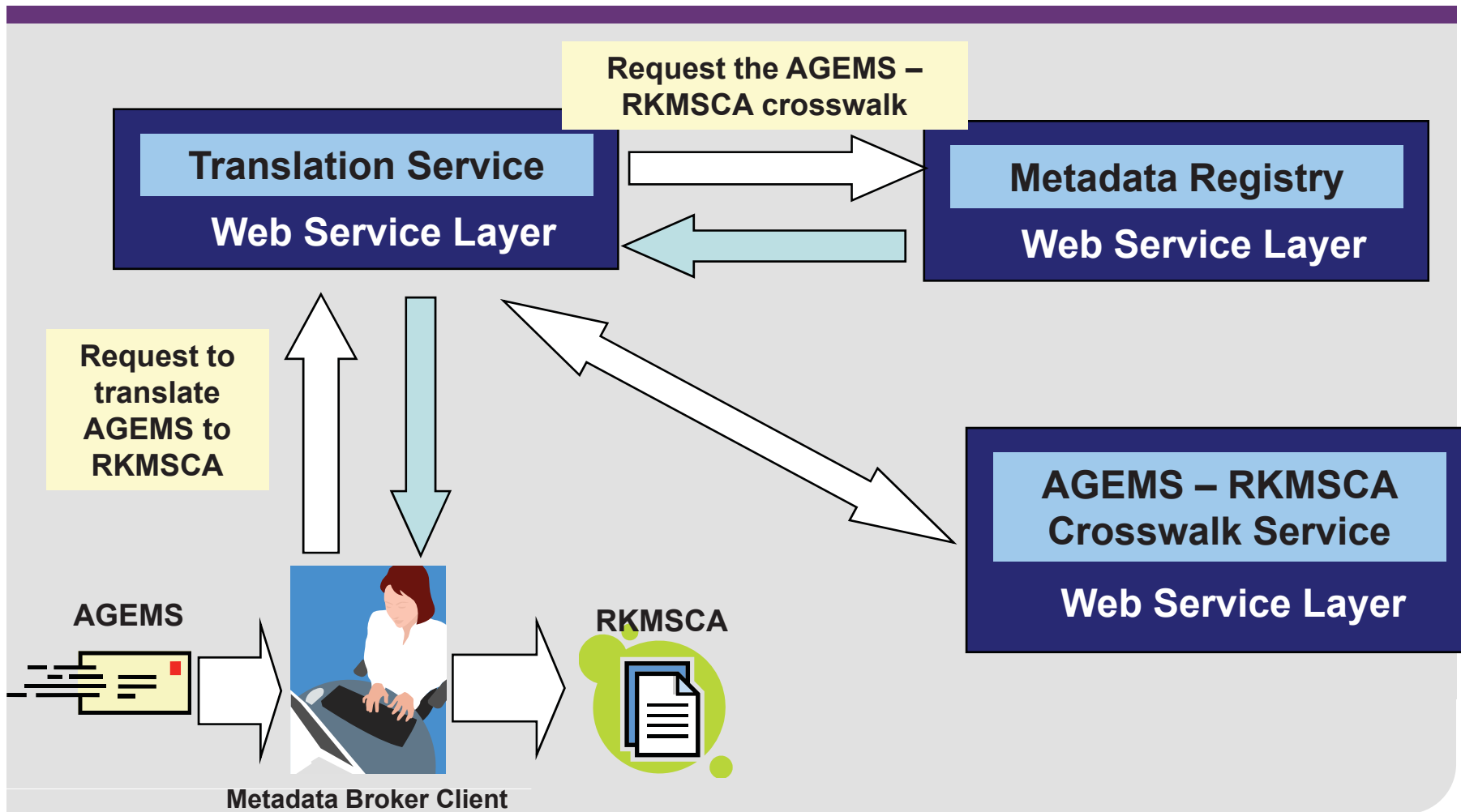
CRKM Registry Implementation Framework



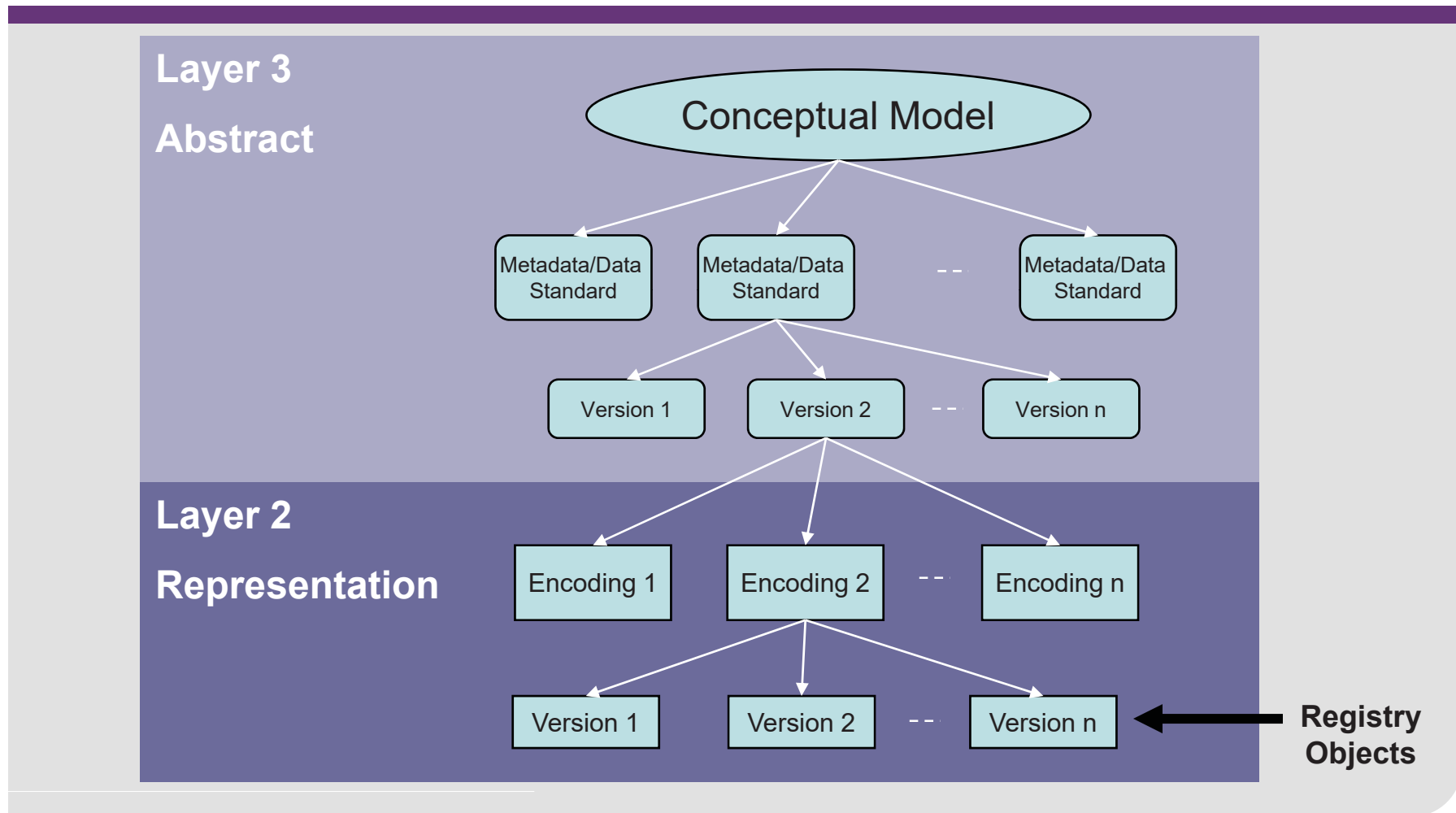
Metadata broker as web services cluster



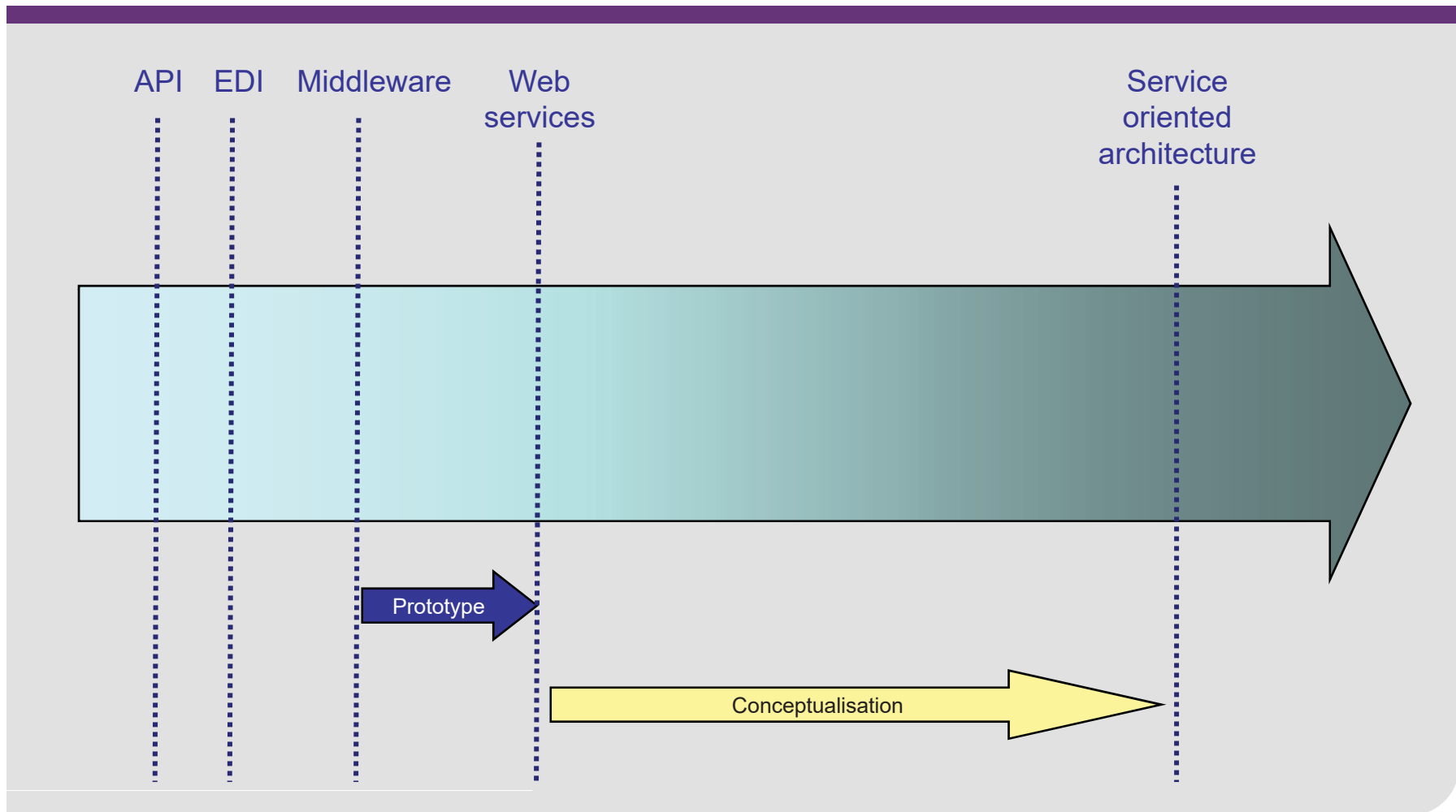
Metadata broker as web services cluster



CRKM Registry Information Model

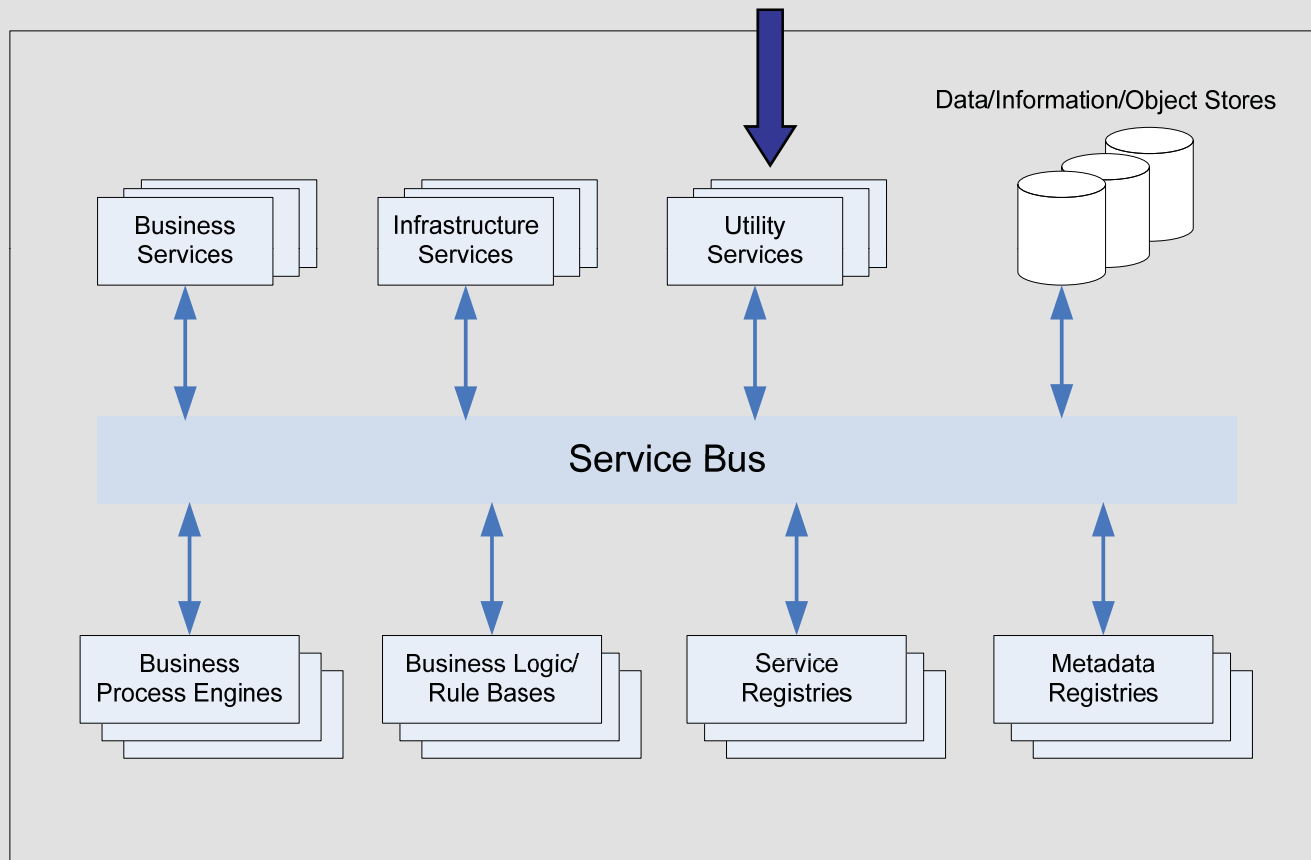


Realising sustainable interoperability

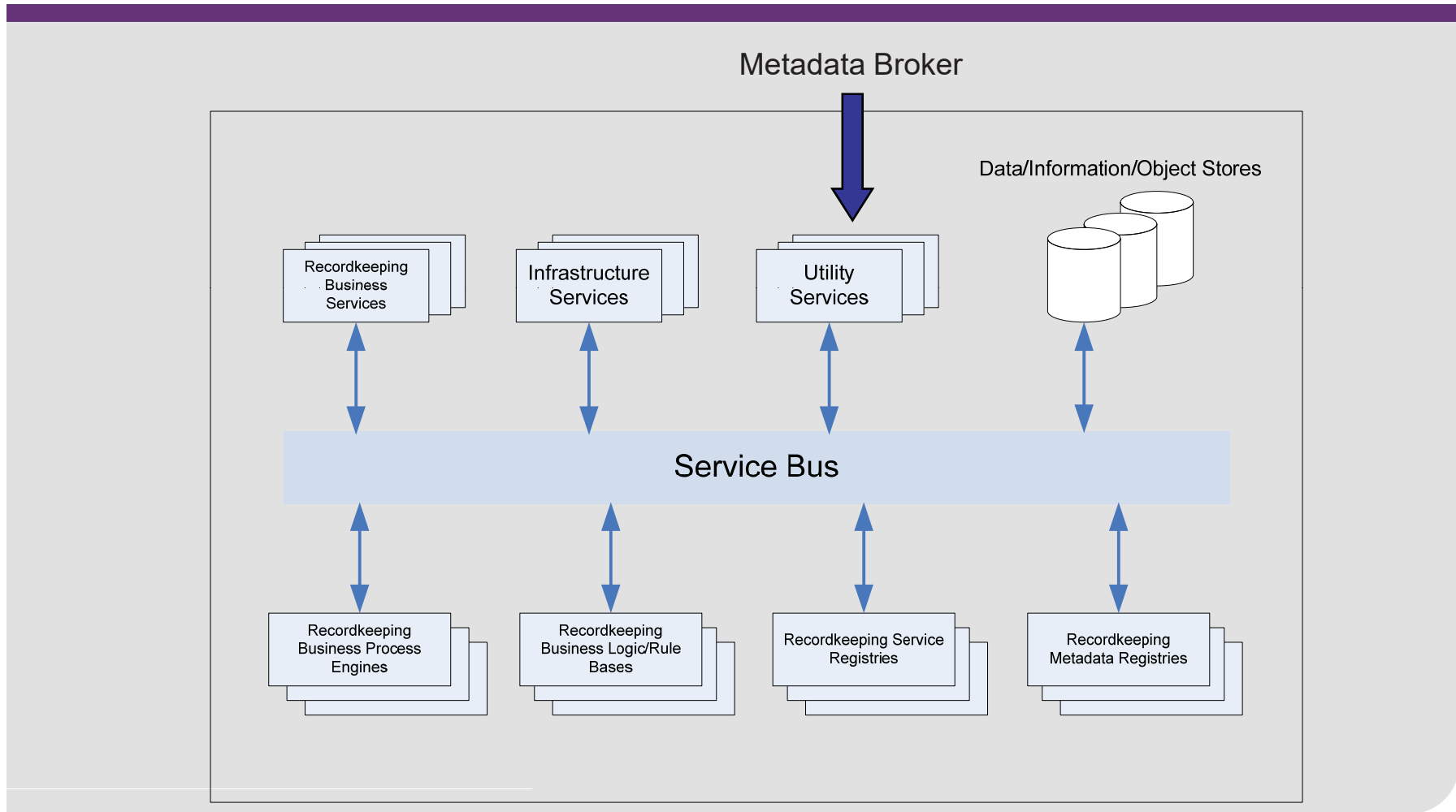


Service oriented architectures

Recordkeeping Services



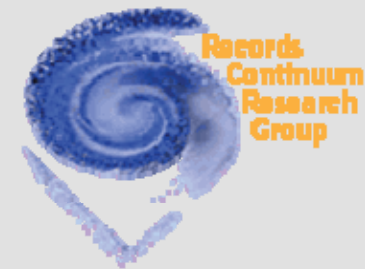
Recordkeeping services in SOA



For more information

- **See the Clever Recordkeeping Metadata Project web site at:-**

[http://www.infotech.monash.edu.au/
research/groups/rcrg/crkm](http://www.infotech.monash.edu.au/research/groups/rcrg/crkm)



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