

cluster coordinates

scope and assumptions in the eFair context











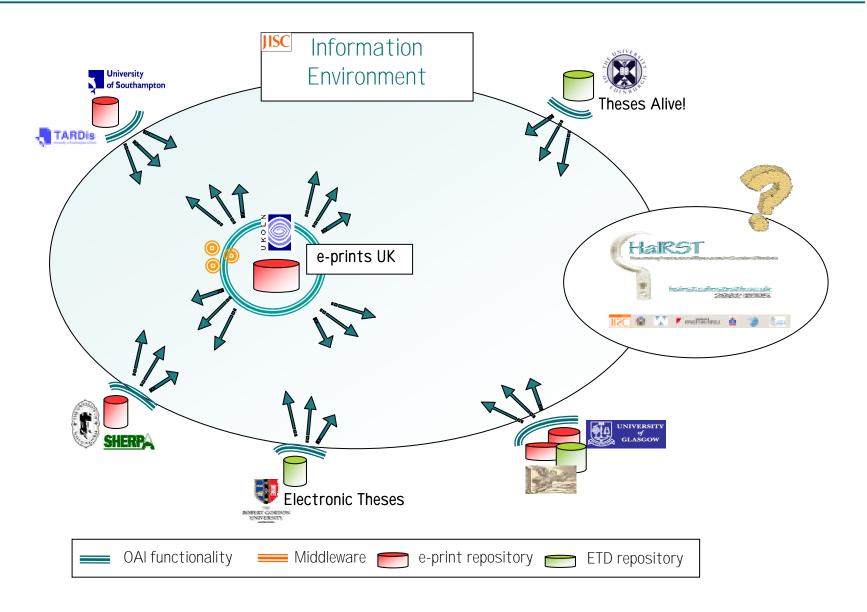




cluster traits

- FAIR mission: develop the service infrastructure of the IE;
 - deposit: build local DNER collections at institutional IE nodes;
 - disclosure: open local DNER collections to remote IE services;
 - discovery: locate remote DNER components from local IE services;
 - middleware: support interoperability & promote participation;
- eFair primary strand: deposit & disclosure services at IE 'end-points':
 - focus on research output: e-prints and ETDs;
 - OAI assumption: pre-harvesting services;
 - some technical enquiries: 'what software, what formats, what interface?'
 - many organisational enquiries: 'what policies as to content, preservation, IPR, submission, classification, ...?';
 - plenty of advocacy!
- eFair secondary strand: post-harvesting services:
 - discovery services;
 - middleware services (e.g. metadata enhancements);
 - DC assumption;

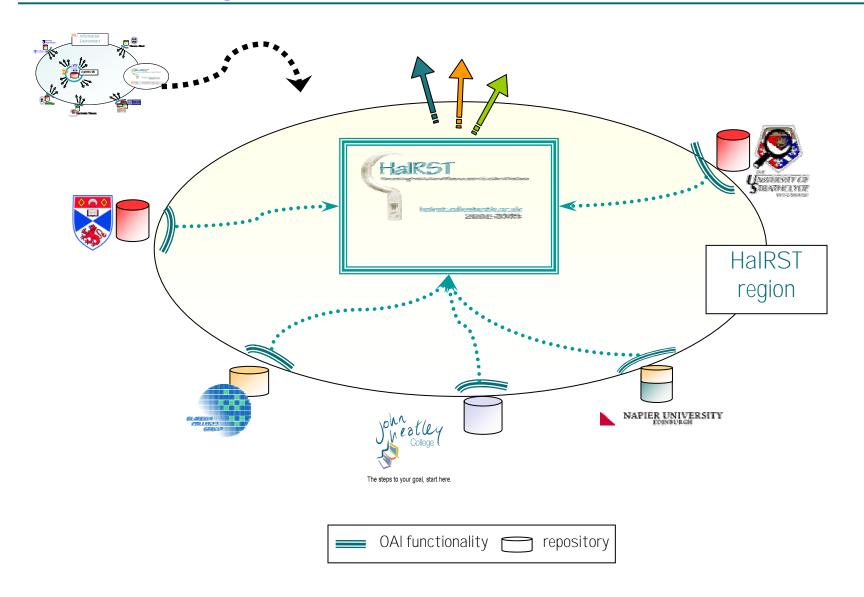
cluster map



project traits

- A 'complete' exercise in OAI-based interoperability within the IE:
 - multiple, cross-sector partners-as-data-providers:
 - 3 Scottish Universities & 10 Glasgow Colleges;
 - technical & cultural diversity: data, metadata, hardware, software, people, requirements, policies, cultures, agendas,...;
 - often competitive environment;
 - pre-harvesting services: local deposit and disclosure services
 - post-harvesting services: discovery, metadata mapping, and further disclosure services;
- A rich investigation:
 - technically: identify & explore different software pathways to OAI compliance:
 - from 'thick', comprehensive solutions (e.g. eprints.org)...
 - ...to 'thin', ad-hoc layers on top of pre-existing back-ends (e.g. OAICat), including bare file-systems;
 - culturally: understand different milieus to tailor and promote the JISC message of interoperability;

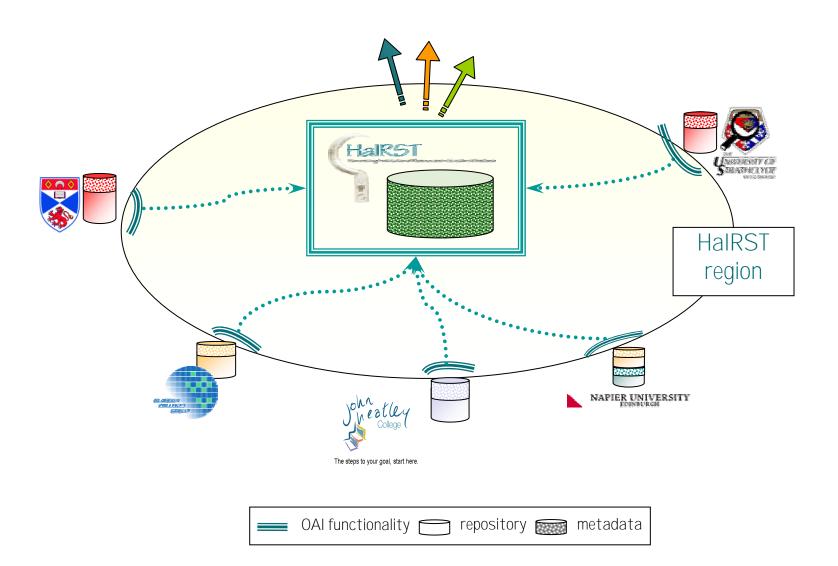
HalRST region



metadata

- the challenge of exporting local diversity in the IE:
 - loosen the DC assumption: no single metadata standard or application profile;
 - would simplify post-harvesting service deployment, but...
 - ...if simple, impoverish overall IE functionality: one-stop entrypoints with GCD functionality only...;
 - ...if complex, limit the IE scope only to 'rich' nodes;
 - harvest multiple standards or profiles:
 - local, inter-provider, project-wide, wider...;
 - typically, *modularly* composed from multiple international standards (DC, MARC, DCMI-Edu, LOM, IMS, ...);
 - through local extensions and/or refinements;
 - from simple to complex, enough to satisfy local requirements;
 - deploy a post-harvesting discovery service that exploits metadata diversity to the benefits of users...
 - ...how?

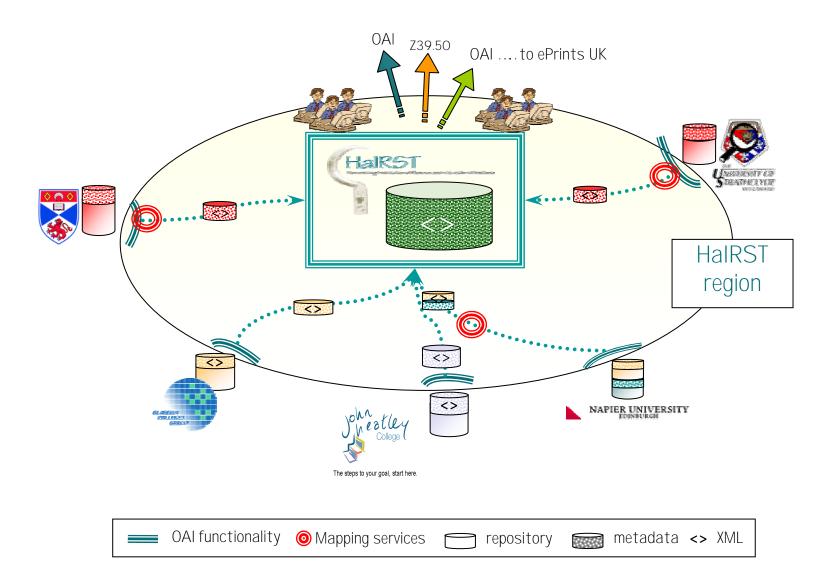
HalRST region (rev.)



approach

- application profiles are:
 - arbitrarily-grained extensions/refinements of single, top-level, DC-like profile;
 - syntactically incarnated in XML (syntactic interoperability), possibly RDFbased (structural interoperability);
 - native or derived from pre-existing forms (e.g. MARC, IMS);
 - if derived, locally by providers or remotely by harvesters/brokers/aggregators, etc. through mapping services;
 - harvested into semi-structured repository (file-based or native XML DB);
 - queried with an XQuery-like language via a graphical Web interface that:
 - allows incremental structuring of queries;
 - from keyword- to field-based to a mixture of the two
 - simpler-query=larger-input, harder-query = smaller-input...and yet as large as it may be:
 - requires some dumb-down mechanism;
 - further disclosed into the IE via OAI (hierarchical harvesting) or Z39.50 (distributed searching);

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progress

- slow!....coordination is difficult, small steps on all different fronts:
- Resource Assessment Exercise across partners (Dec02-Feb03);
 - of staff, hardware, software, and management resources;
 - for logistic arrangements of: staffing & purchasing policies, resource identification, per-partner OAI software pathways design;
 - resource identification is difficult! Different agenda and motivations inter- and mostly cross-sector;
 - a delegation model of participation is often preferred;

next steps:

- Metadata Orientation Event (Apr03): Assessing standards and practices for local metadata profiles;
- start deploying and developing partner-specific deposit and disclosure services;
- summer goal: complete harvesting of DC-only sample metadata into XML-based repository;

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