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Group 3



OAI protocol beyond discovery metadata

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- the current OAMH protocol in the preprint context
 - discovery metadata
- other uses of OAMH protocol in the preprint context?
 - certification metadata
 - archival metadata
 - usage metadata
 - author metadata
 -



Systems for scholarly communication {Roosendaal & Geurts}

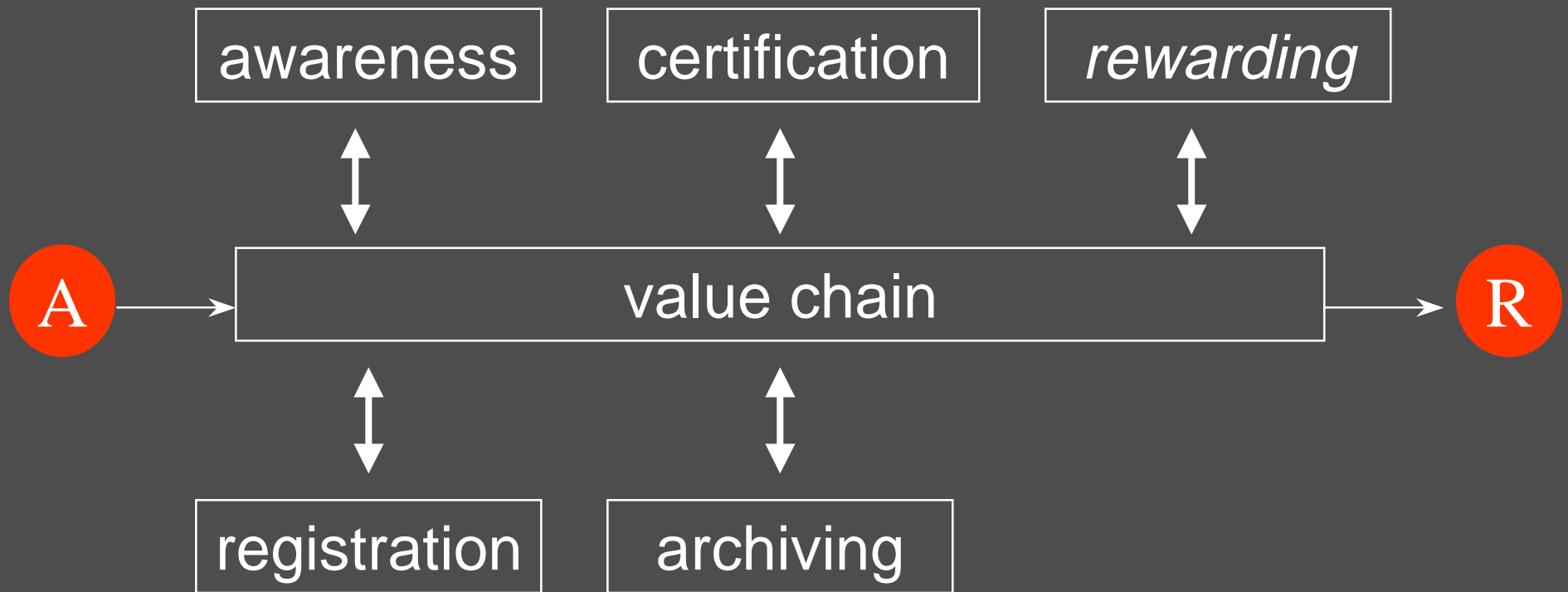
registration	claiming a new finding
certification	certifying the claim
awareness	ensure information throughput
archiving	preserving the heritage



Systems for scholarly communication {Roosendaal & Geurts}

registration	claiming a new finding
certification	certifying the claim
awareness	ensure information throughput
archiving	preserving the heritage
<i>rewarding</i>	<i>evaluating & rewarding performance</i>





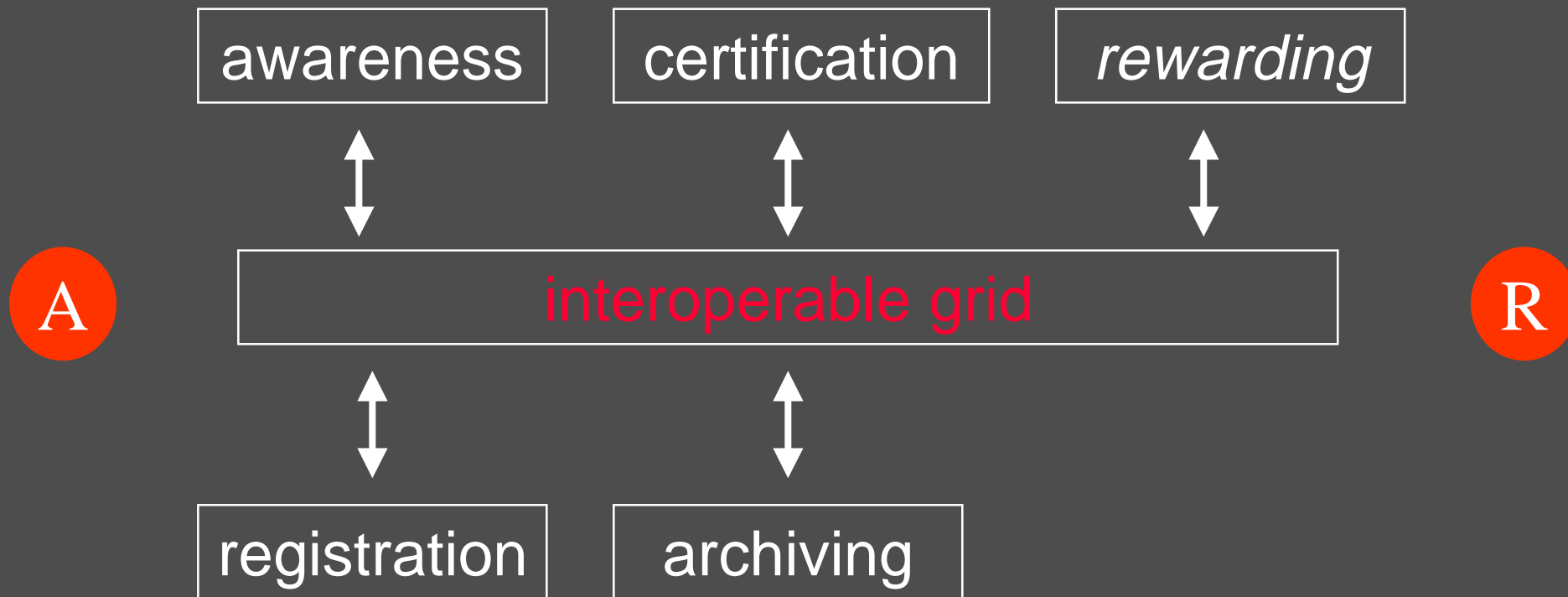
In a fully electronic scholarly communication system , the implementation of the functions

- is distributed
- is done by different parties

- It would be interesting if information that is the result of performing the functions could travel across the system
- Such information would probably be metadata

=> Interoperable grid connecting the functions





A

R

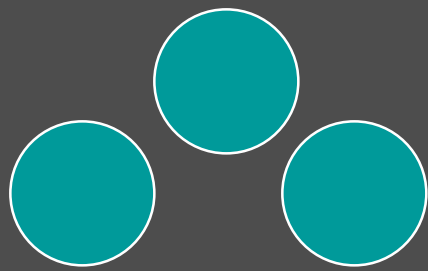
awareness

registration

O A I

discovery metadata pointing at a preprint





service providers

awareness

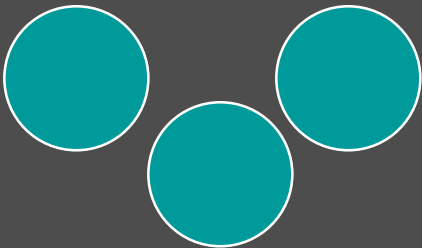


O A I

A

R

registration



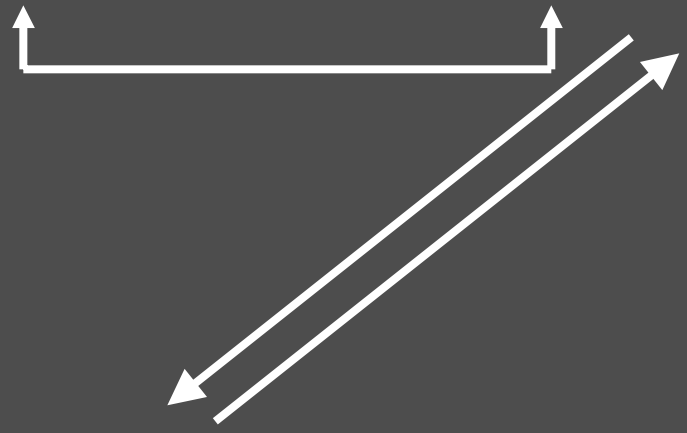
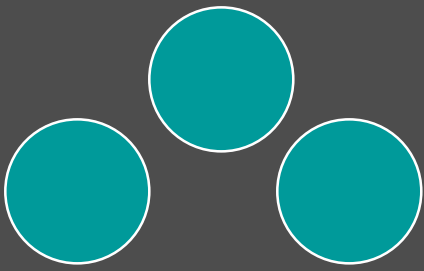
data providers



awareness

certification

Certification m eta
Data



registration

D iscovery m eta
Data



- Can OAMH protocol be of any help
- With as little changes as possible?

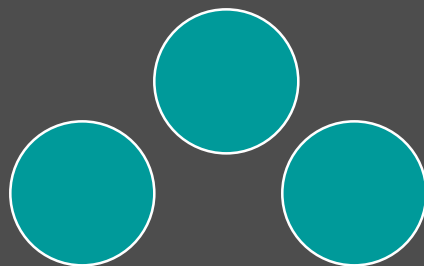


Two approaches re certification information:

- Collection level certification metadata
 - description container in reply to OAI Identify verb
- Item level certification metadata: ?



awareness



certification



From repository to certification service:

- ID transferred via explicit author action
 - author e-mail
 - Using function of repository (cf ChemWeb)
- ID OAI-harvested by certification service (datestamp)

registration

ID Discovery meta
Data



awareness

certification

Certification meta **N ID**
Data

A

From certification service to others:

- **N ID** O A I-harvested by others
- O A I-harvest is Datestamp based
- **N ID / ID** connection must be explicit in harvested records

registration

ID Discovery meta
Data



Architectural Representation of different types of metadata



Architectural Representation of different types of metadata

- Modularity
- Complexity to agree on a one-size-fits-all format
- Natural fit with OAI concept of parallel metadata formats / metadata format identifiers
- Even multiple certification-related metadata records



ID



Metadata Format for certification data

- Cross-community "header"
- Community-specific "body"
- Header:
 - original ID
 - Certification agency
 - Date of "manuscript submission"
 - Date of certification
 - Certification-type (it would be great to have a controlled vocabulary)
 - certification-status



- Can O A M H protocol be of any help?
 - yes
- W ith as little changes as possible?
 - yes

Could actually be tested in:

- arX iv
 - J H E P
 - A P S
 - S L A C / S P I R E S
- Zentra l B latt fur M athem atik (certifying certified material)
- CERN certification process



