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Group 3

OAI protocol beyond discovery metadata

Workshop on OAI and peer review journals in Europe
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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

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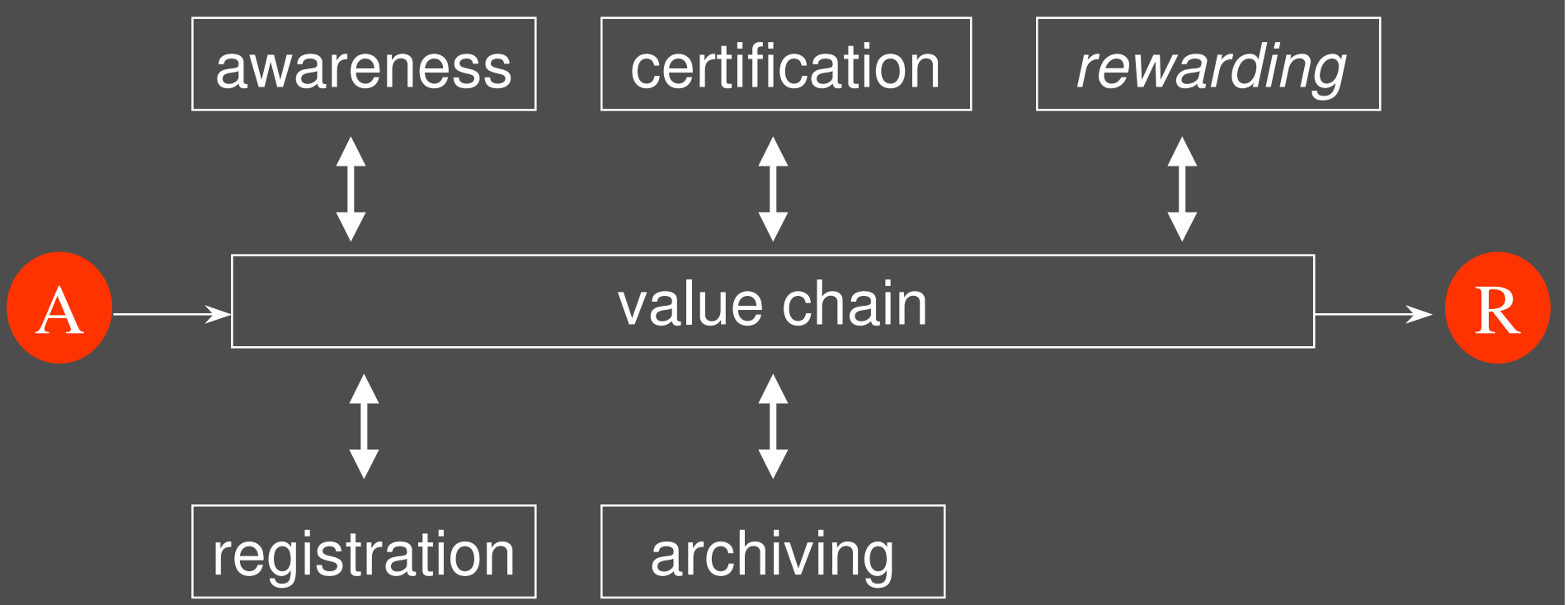
rewarding	*evaluating & rewarding performance*

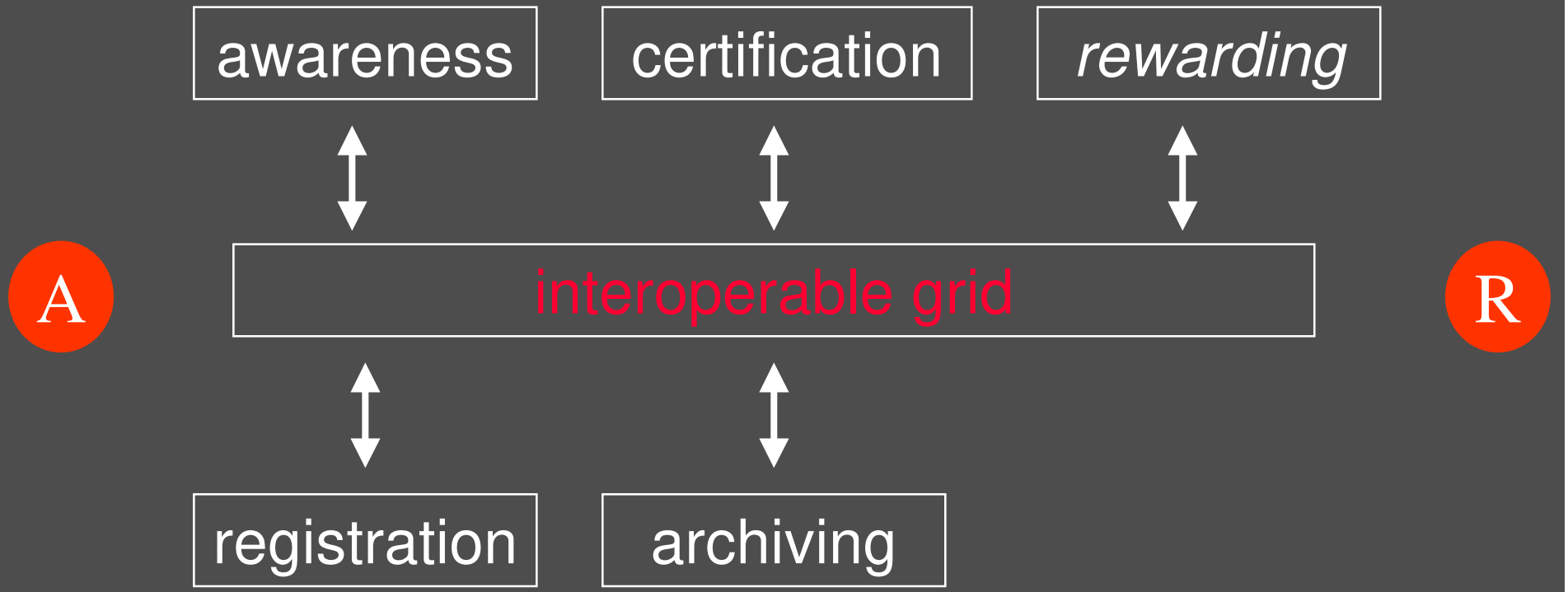

awareness
certification
rewarding
A
value chain
R
registration
archiving

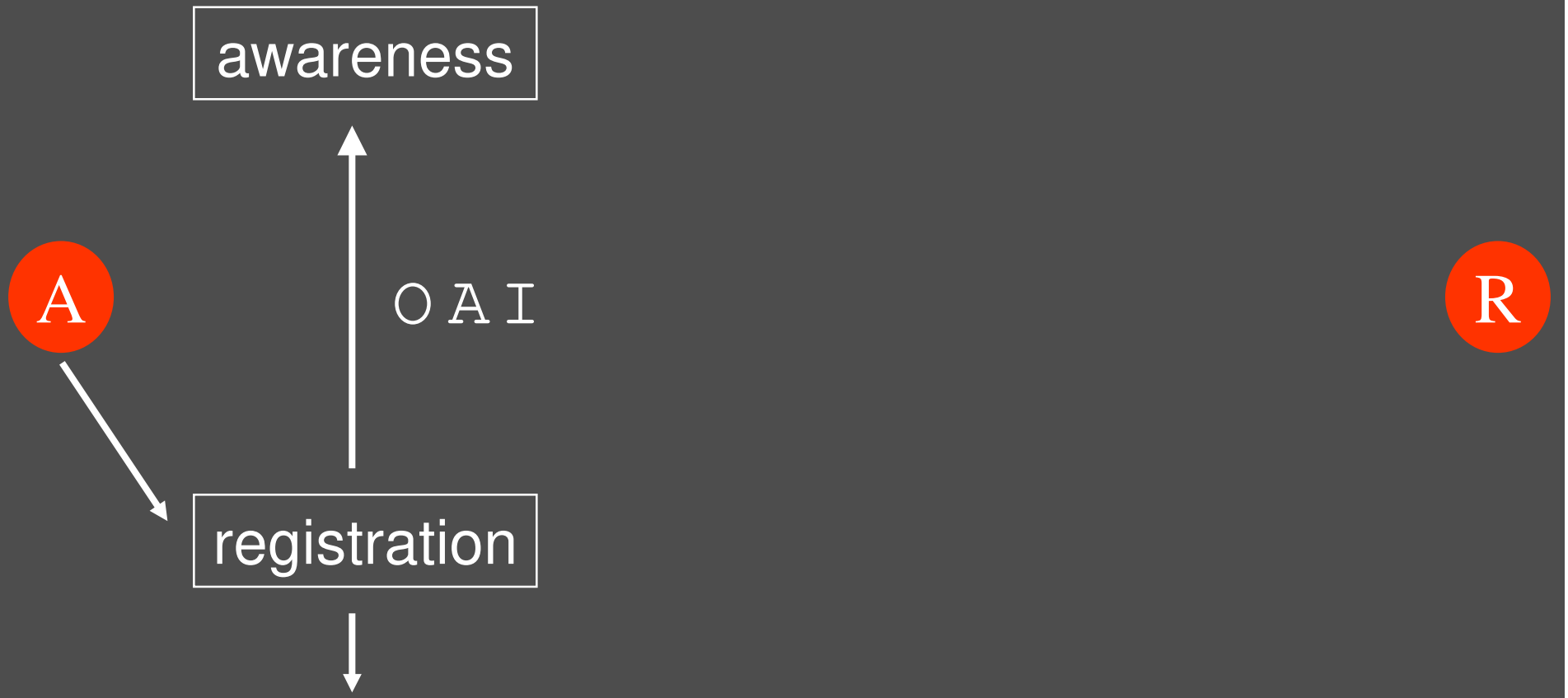
In a fully electronic scholarly communication system, the implementation of the functions

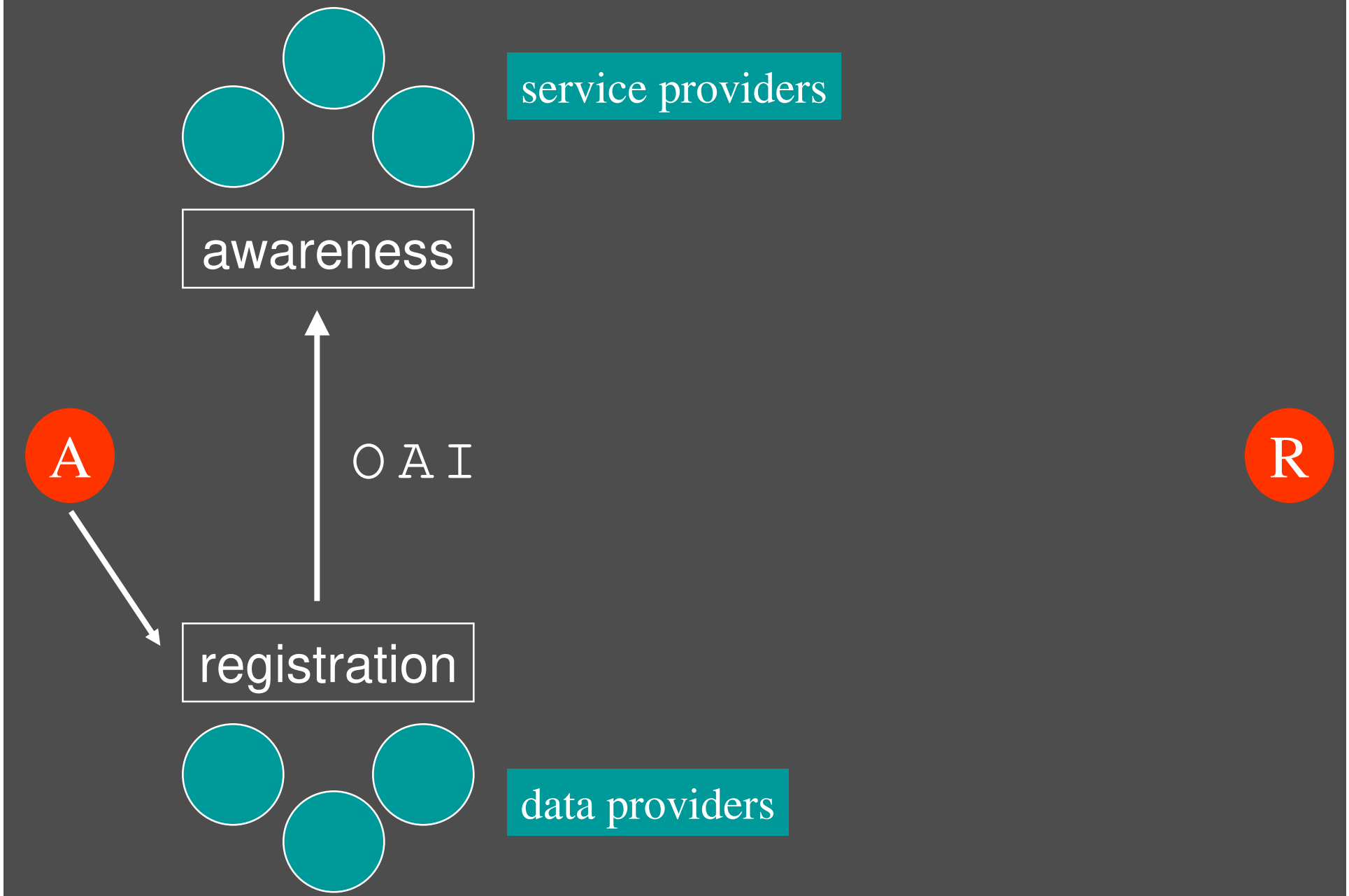
- is distributed
- is done by different parties

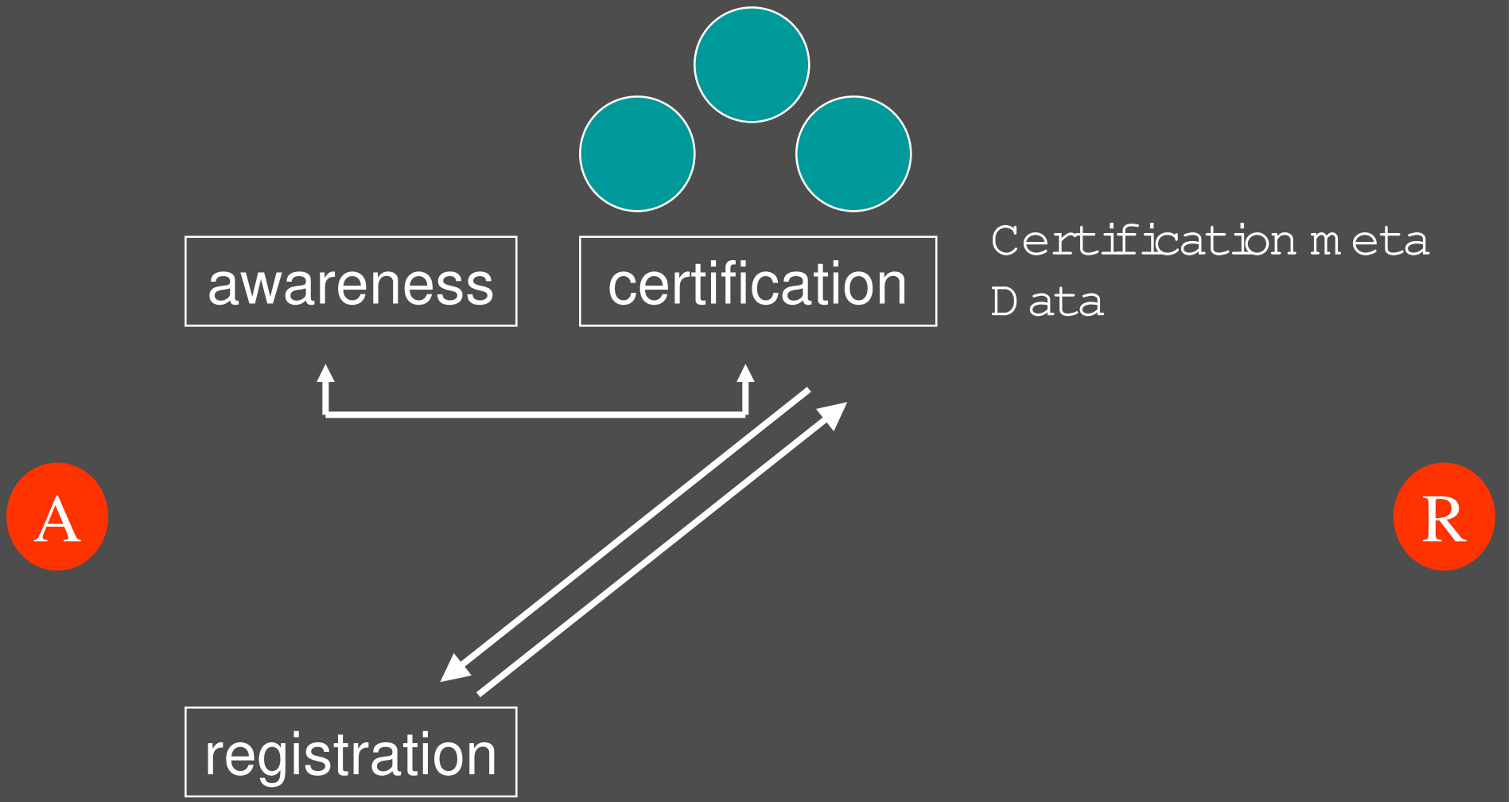
- It would be interesting if information that is the result of performing the functions could travel across the system
- Such information would probably be metadata

=> Interoperable grid connecting the functions


awareness
certification
rewarding
A
interoperable grid
R
registration
archiving


awareness
A
OAI
R
registration
discovery metadata pointing at a preprint

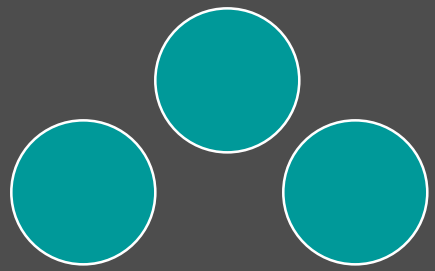

service providers
awareness
A
OAI
R
registration
data providers


awareness
certification
Certification meta
Data
A
R
registration
Discovery meta
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

A

registration

ID Discovery meta Data

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)

awareness

certification

Certification meta NID Data

From certification service to others:

- NID OAI-harvested by others
- OAI-harvest is Datestamp based
- NID/ID connection must be explicit in harvested records

A

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

Metadata Format for certification data

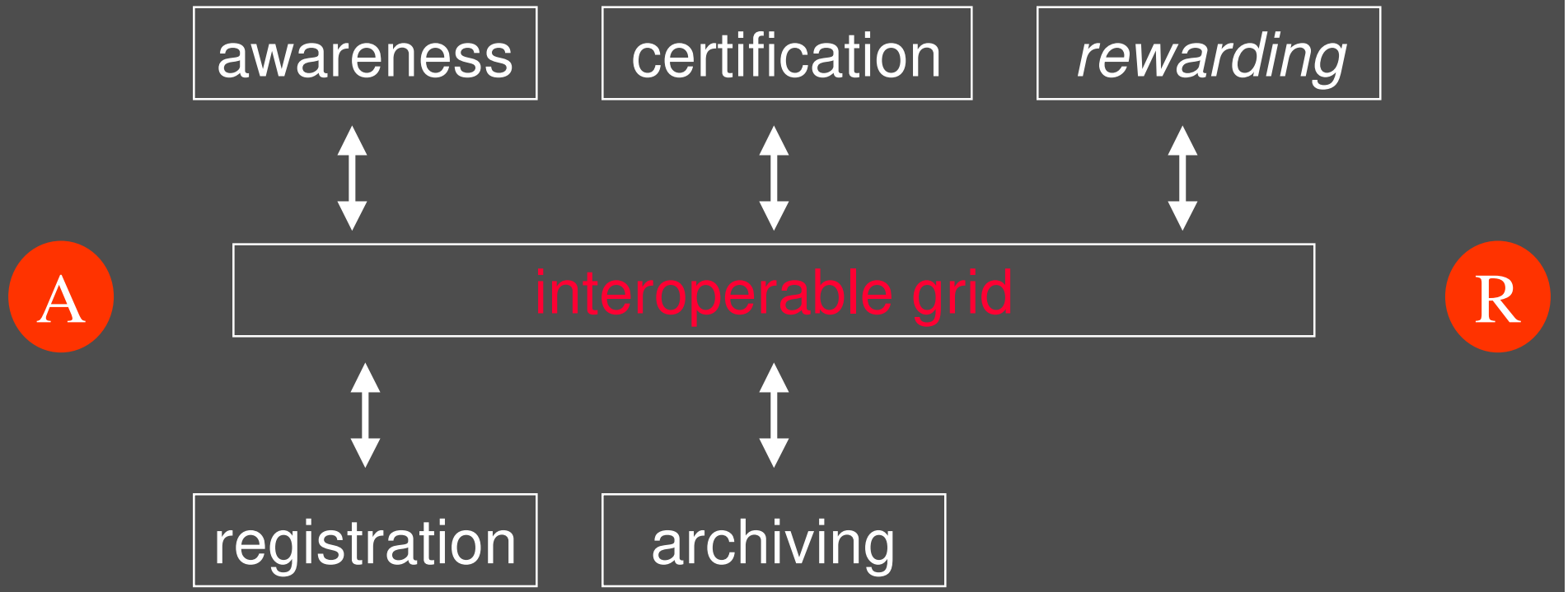
- Cross-community "header"
- Community-specific "body"

- Header:
  - originalID
  - Certification agency
  - Date of "manuscript submission"
  - Date of certification
  - Certification-type (it would be great to have a controlled vocabulary)
    - certification-status

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

Could actually be tested in:

- arXiv
  - JHEP
  - APS
  - SLAC/SPIRES
- ZentralBlatt fur Mathematik (certifying certified material)
- CERN certification process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