

**University
of Twente**

**The Research and HE
Information Market**

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Scientific Information

- authors

- want to publish more

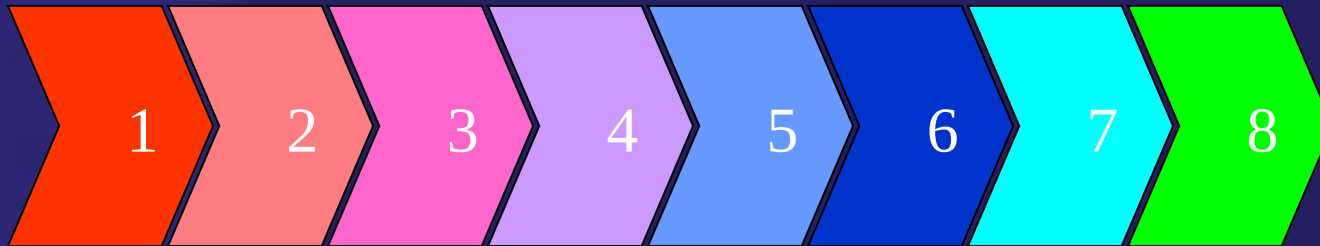
- readers

- want to read less

Vision

- **global, federated network**
 - repositories of information
 - research and education
 - white, grey or even black
 - management information
- **market: research and HE community**
 - students, teachers, researchers
- **focus: open system**

Information value chain



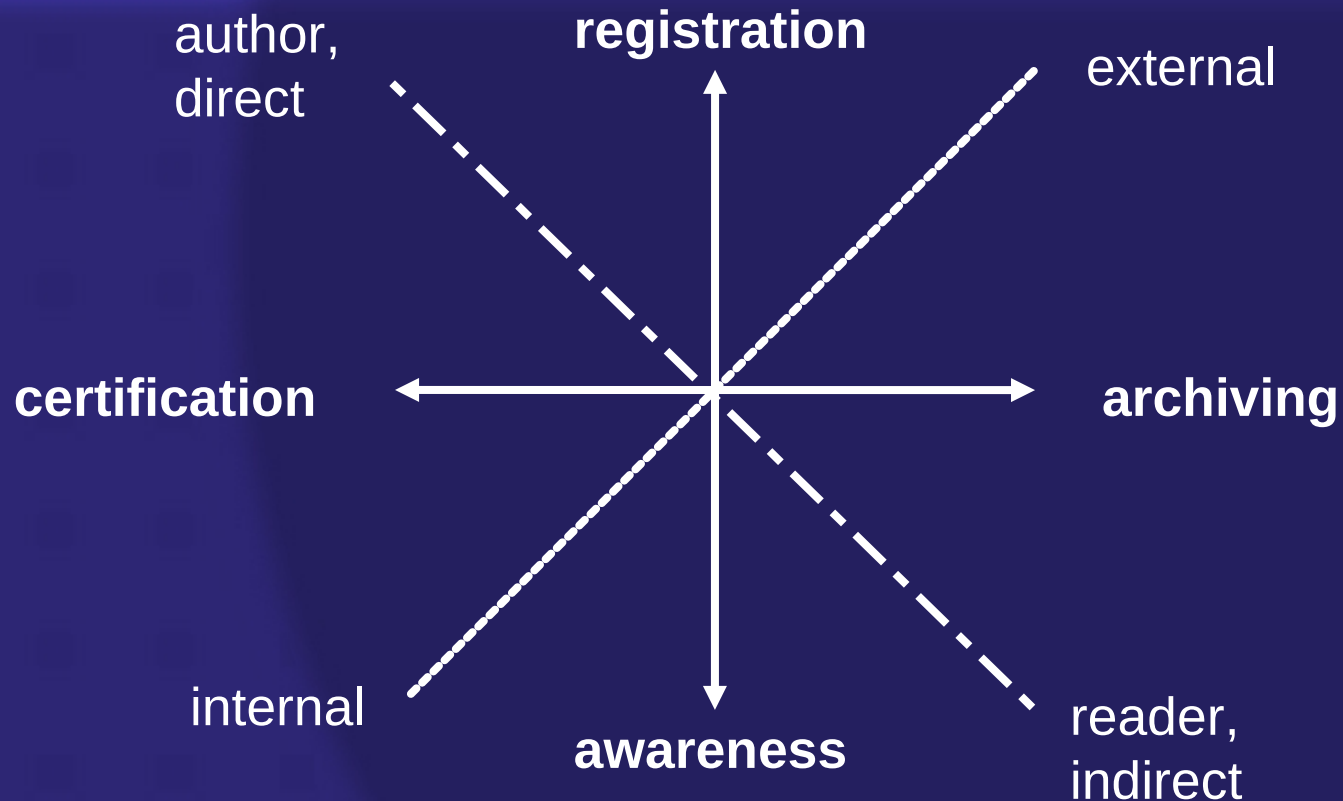
1:  creation
2:  acquisition
3:  certification
4:  disclosure

5:  production
6:  distribution
7:  dissemination
8:  usage

Engines for change

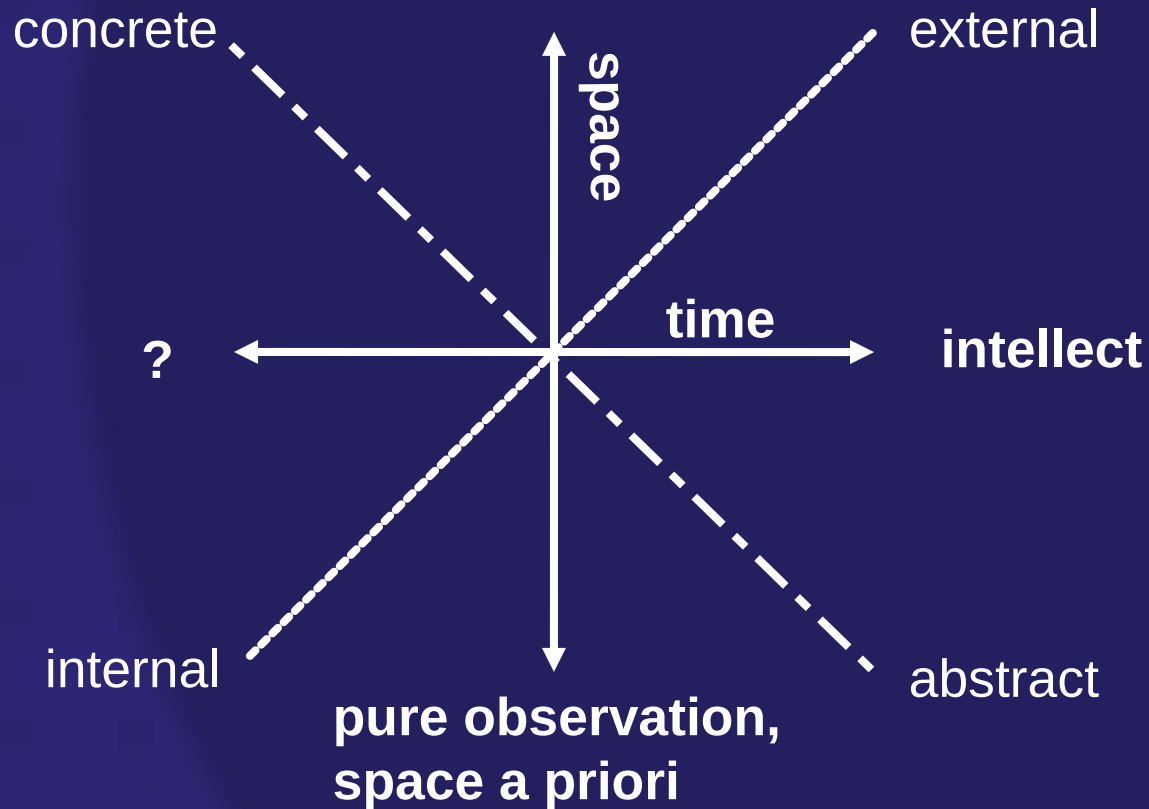
- **ICT in scientific communication**
 - availability \Leftrightarrow use
- **broad developments in**
 - research
 - education
- **functions in scientific communication**

Functions

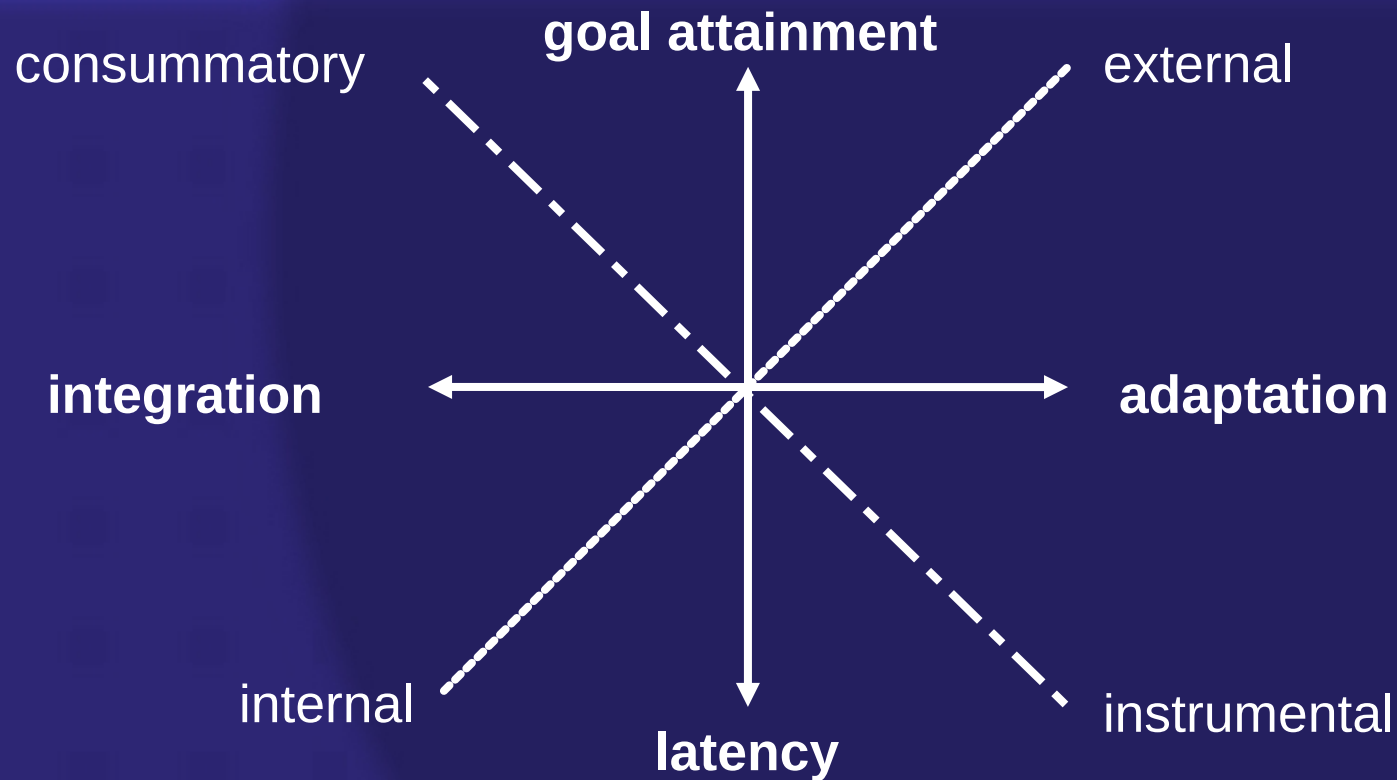


Kant

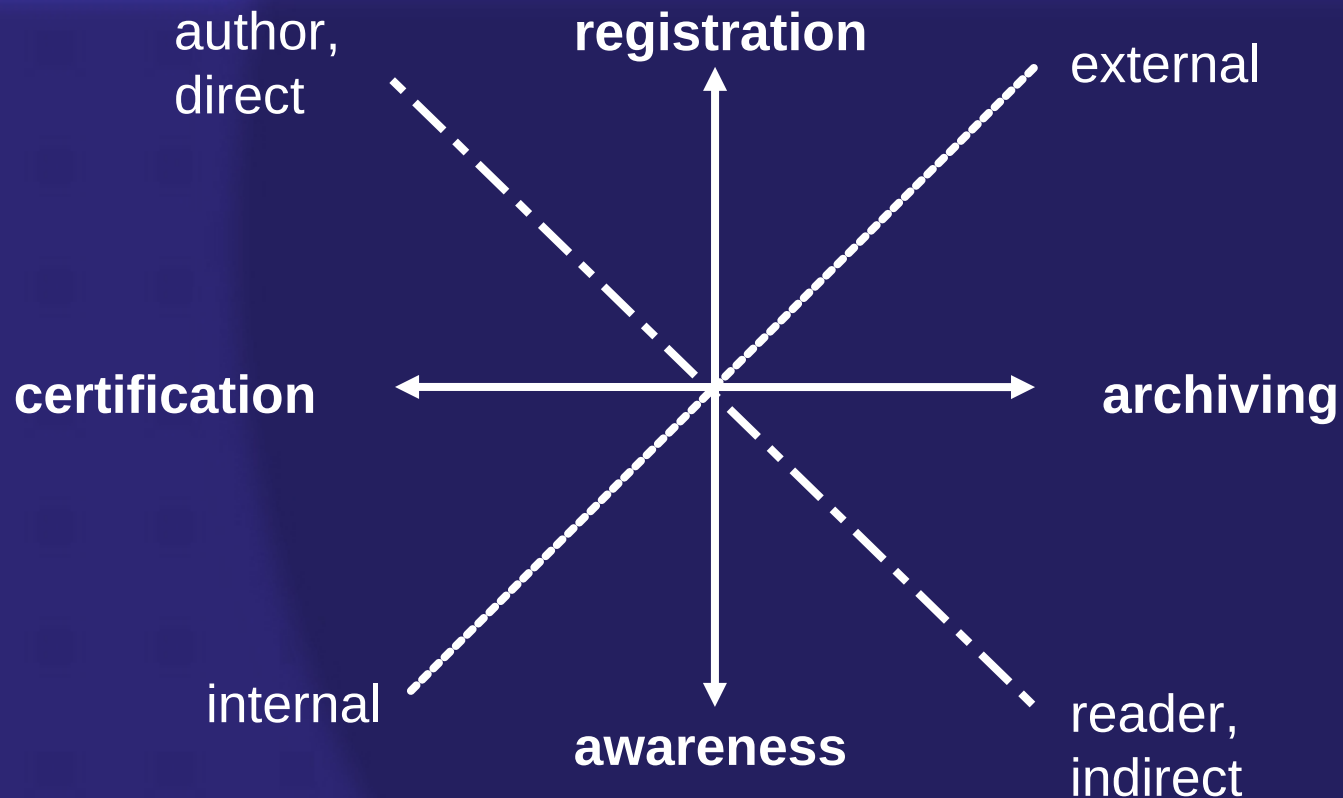
empirical observation,
space a posteriori



Parsons



Functions



Certification

Gross

- ° “Peer review negotiates the level of claims permissible in a scientific paper. The higher the level, the higher the paper’s status; the higher the status, the more difficult the negotiation”

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Observations

- **institutional repositories**
 - research and HE institutions
 - knowledge-intensive organisations & companies
- **coherent user access**
 - common information environment
- **federating**
 - repositories
 - libraries

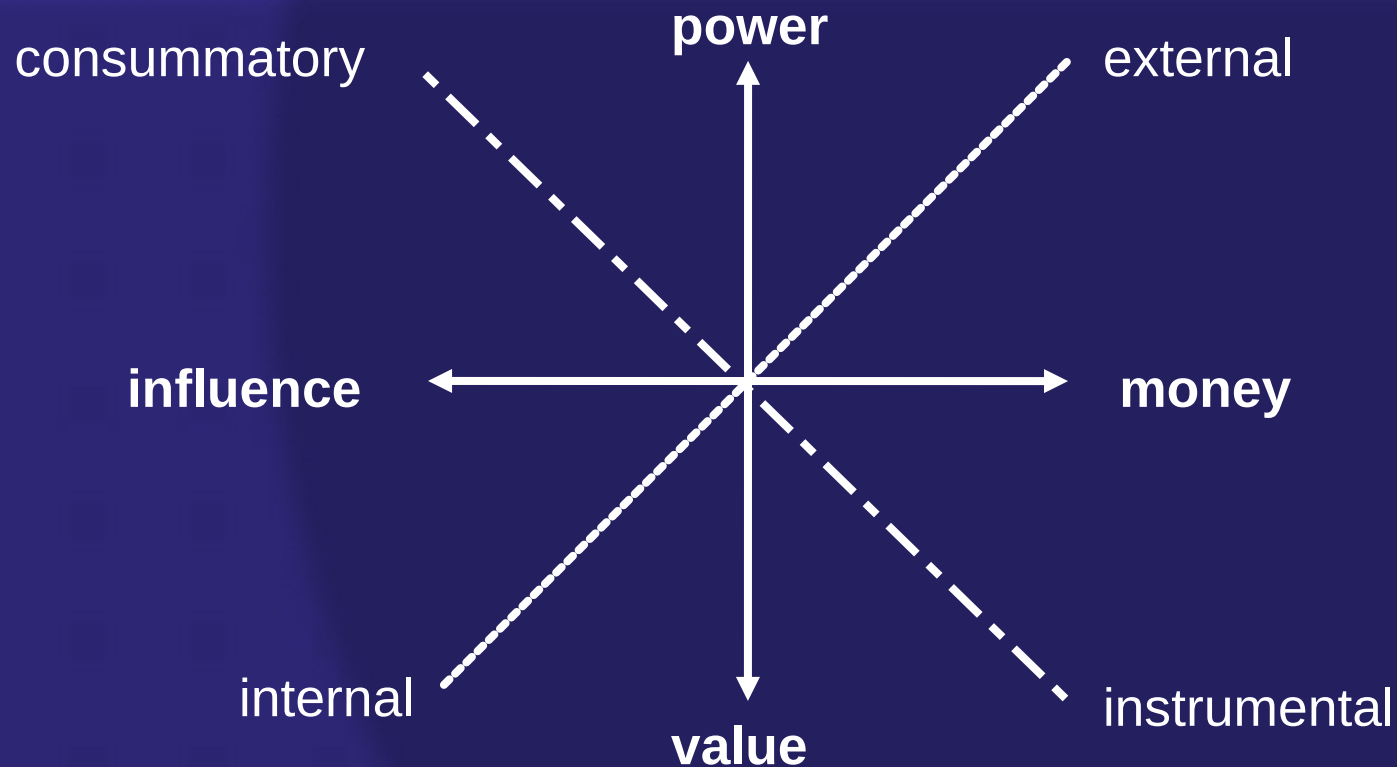
Acceptance

- **sufficient critical mass**
- **different value chains possible**
 - organisational models
 - legal models
 - business models
- **cohesive and coherent network**

Stakeholders

- **return on investment**
 - each stakeholder: own currencies of exchange

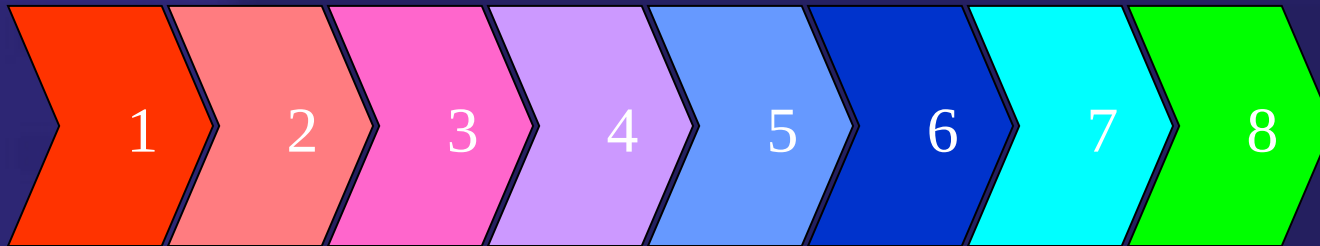
Currencies of exchange







Stakeholders

- **return on investment**
 - each stakeholder: own currencies of exchange
- **strategy based on vision**
 - maximum flexibility
- **high level strategy**
- **value chain**

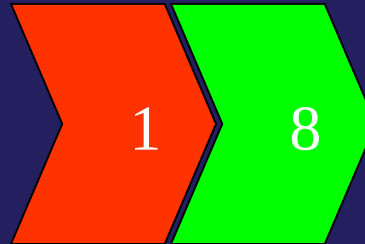
Value chain





1:  author
2:  publisher
3:  reviewer
4:  publisher

5:  agent
6:  university
7:  library
8:  reader

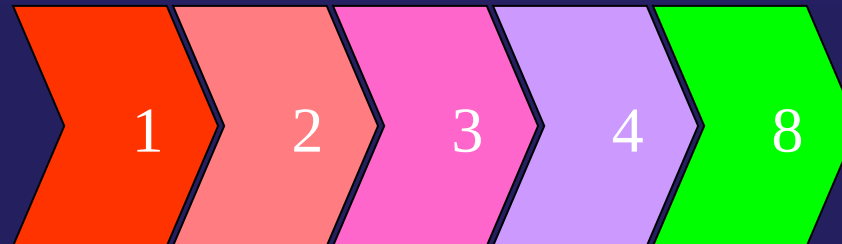
Ideally?







1:  author
2:  publisher
3:  reviewer
4:  publisher

5:  agent
6:  university
7:  library
8:  reader

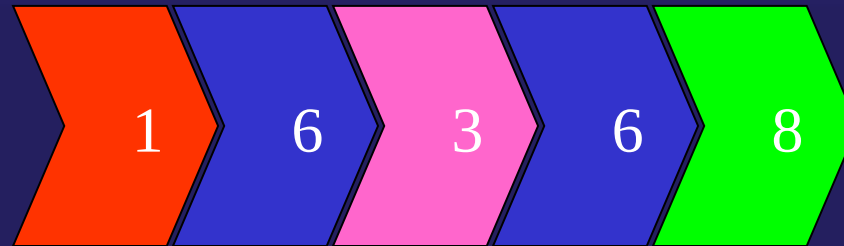
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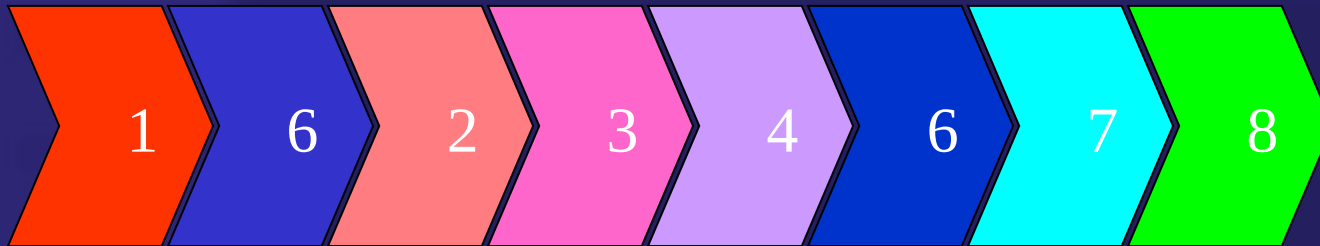
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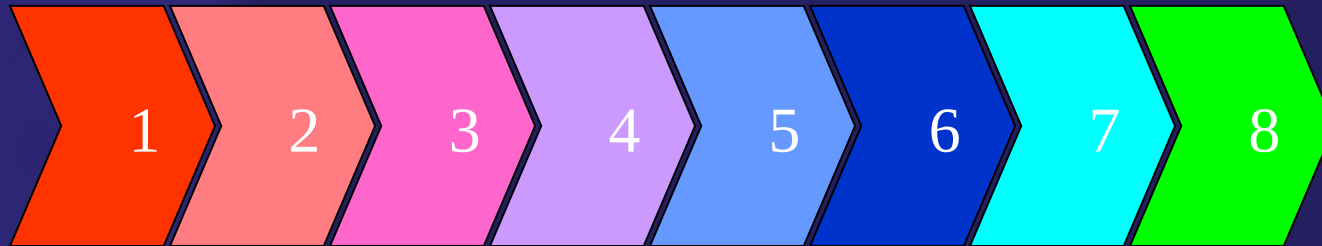
High level strategy

- **interest**
 - all stakeholders
- **single focus: USER**
 - author/reader
 - learners, researchers, teachers and students
 - comprehensive approach to USER behaviour
- **other stakeholders**
 - enablers





Goal

- **universities, knowledge institutions, scientific publishers**
 - make use of network
 - ensuring that architecture will serve needs

Strategic tasks



1:  creation
2:  acquisition
3:  certification
4:  disclosure

5:  production
6:  distribution
7:  archiving
8:  usage

Technology strategy

- **connecting repositories and libraries**
 - existing and future
- **integration**
 - resources syndication
- **shared architecture**
 - e-learning and e-science

Registration & archiving

- **universities**
 - integrated information environment
 - e-learning
 - e-publishing and e-archiving
- **in network of institutions**
 - network of repositories
 - institution-independent entities
 - international organisation

⇒ **value chain!**

Publishing function

- **facilitating/aggregating**
 - distribution \Rightarrow access and linking
 - certified material
 - different repositories
 - assistance to certification
- **international**

Structure

- **federated network**
 - repositories
 - archives
- **federated ownership**

Conclusions

- **develop and test new value chains**
 - university should take initiative
 - international development in education
 - new conditions
- **main issue: how can we get this done?**
 - not technological, but organisational issue
 - high level strategy