Academic Careers Understood through Measurements and Norms

European 7th Framework collaborative project
Capacities, Science in Society 2010
Grant Agreement: 266632
9 institutional partners, in 7 countries

http://research-acumen.eu
The aim is to give researchers a voice in evaluation. This involves:

- Evidence based arguments
- Shift to dialog orientation
- Selection of indicators
- Narrative component
- Good Evaluation Practices
- Envisioned as web service
expertise
- scientific/scholarly
- technological
- communication
- organizational
- knowledge transfer
- educational

GEP guidelines:
- development of evidence based arguments (what counts as evidence?)

output
- publications
- public media
- teaching
- web/social media
- data sets
- software/tools
- infrastructure
- grant proposals

GEP guidelines:
- comprehensive list
- expanded forms
- establishing provenance

influence
- on science
- on society
- on economy
- on teaching

GEP guidelines:
- taxonomy of indicators:
  - bibliometric,
  - webometric
  - altmetric

Tatum and Wouters | 20 March 2013
output infrastructure

*(networked content?)*

- academic publishers
- university press
- institutional repositories
- research information systems
- data repositories
- semantic ontologies
- researcher (social) networks
- publishing on the Web

**proposal:** a thin layer of open interoperability
Layered (hourglass) Architecture

interoperability layer - maximize interoperability - minimize interfaces -

- competition for applications
- depends on, but does not disrupt interoperability layer

Innovation is pushed to the upper and lower layers

- new technologies, infrastructures can be implemented without disruption to the interoperability

Internet Layers

PC Layers

(Zittrain’s theory of Generativity [3])

References:
Thin Layer of Open Interoperability

*(universal provenance protocol)*

- **creator**
  - author
  - software dev
  - data curator
  - filmmaker
  - etc.

- **object**
  - journal article
  - software app
  - data set
  - film, visualization
  - etc.
Content Network (hourglass metaphor)

**Interface layers**
- User interface | applications
- Search and query functionality

**Infrastructure layers**
- Provenance layer - maximize interoperability - minimize interfaces - feature free, stable layer -
- Storage | data structures
- Rights management | analytics

**Creator/Object**
- Competition and innovation (e.g. among service providers) is pushed to the outer layers
- Adaptability without disrupting interoperability
- As the system evolves, the thin layer of (core) interoperability remains stable