Open Access for and based on Informatics R&D

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Open Access for Informatics R&D
Informatics R&D

- **Systems**
  - Development frameworks
  - Testing environments
  - e-Infrastructures
  - Simulation environments
  - Innovative User Applications
  - ...

Mostly developed by reuse, integration and extension of existing solutions
Observation 1:
Comprehensive scientific communication
Observation 2: fastly evolving domain

- Papers become obsolete very soon
- In many cases there is no time to write papers
Scientific communication instruments

- De-facto instruments
  - Web pages
  - Wikis
  - Discussion forums
  - e-mailing lists
  - Sw distribution sites
  - ......

- 304 open access CS journals
  *Directory of Open Access Journals (DOAJ)*
Open Access based on Informatics R&D
“A complete version of the work and all supplemental materials, including a copy of the permission as stated above, in an appropriate standard electronic format is deposited (and thus published) in at least one online repository using suitable technical standards (such as the Open Archive definitions) that is supported and maintained by an academic institution, scholarly society, government agency, or other well established organization that seeks to enable open access, unrestricted distribution, interoperability, and long-term archiving.”

*Berlin Declaration on Open Access to Knowledge in the Sciences and Humanities, 22 October 2003, Berlin*
DRIVER & OpenAIRE

- DRIVER – Digital Repository Infrastructure for European Research
  - 5,710,000 documents
  - in 314 repositories
  - from 42 countries
    http://search.driver.research-infrastructures.eu/

- OpenAIRE – EU Pilot for supporting Special Clause 39
  http://www.openaire.eu/
Many open challenges

- How to represent and manage digital objects able to support multifacet scientific communication?

- How to model and digitally represent policies?