# RRI Dimensions and related Key Performance Indicators

## Open Access - General Description

Open science (based primarily on the open access) is a practice in which the scientific process and outcomes are shared completely and in real time. It offers the potential to support information flow, collaboration and dialogue among professional and non-professional participants. (Grand et al., 2014). Winfield (2014) has distinguished between three levels of open science:

- Level 0: maintenance, sharing through web site.
- Level 1: Level 0 plus additional sharing via blogs, reports to comments or feedback.
- Level 2: Levels 0, 1 and additional uploading of experimental data sets to the project website.

Documentation of open access policies and mechanisms for promoting open science are examples of process indicators in this area. As for output indicators, research projects with virtual environments for sharing research results, and research projects with daily online laboratory notebooks can be used to measure open science. Perception indicators are measured through the extent to which members of the public visit such environment and find them useful.

## Open Access – List of Indicators

| Criteria | Type | Indicator |
|---|---|---|
| Open access/open science | Process | Existence of open science policies |
| | | Institutional mechanisms for promoting open science |
| | | Documentation of mechanisms for learning from open science experience |
| | Outcome | Amount of produced documentation as a result of HubIT project in open access, that is updated and actively used with a threshold frequency |
| | | Percentage of research projects/collaborations as a result of HubIT project, that have created outputs that are publicly available and actively used |
| | | Percentage of data repositories created in the project that include explanation and commentary to facilitate use. |
| | | Percentage of research projects that report real added value by an open science mechanism (for themselves and/or other actors) |
| | | Take up of the Open Access literature |
| Open access/open science | Perception | Feedback on the usability of the Open Access environment |
| | | Public perception of/ attitudes towards open access |