Project of Strategic Interest NEXTDATA

Scientific Report
for the reference period 01 – 01 – 2014 / 31 – 12 -2014

WP 2.7 Data Access Portal

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1. Scheduled activities, expected results and Milestones

WP1 Coordination and Management: Administrative and financial management; technical and scientific coordination; project Web site.

WP2 Requirements and System Architecture Design: second cycle of general requirements; second cycle of general system and interoperability architecture; second cycle of Web Portal architecture; coordination with other programmes.

WP3 System Development, Integration, and Test: System of Systems middleware extension and integration; second phase of Web Portal development; middleware scalability enhancement; system Integration and Testing.

WP4 Operating the System: Operation of the testing infrastructure; general operation of the consolidated System of Systems.

WP5 Dissemination: Dissemination and promotion; outreach support

2. Deliverables expected for the reference period

Number	Description	Release date
D2.1	General System Requirements (final version)	M14
D2.2	General System and Interoperability Architecture (final version)	M24
D2.4	Open Data Policy	M14
D3.1	NextData extended Brokering middleware	M24
D3.2	NextData Web Portal	M24
D5.1	Dedicated presentations	M24

3. Activities which have been actually conducted during the reference period

The second Project Milestone was achieved:

M2: Consolidated version of the ND System of Systems infrastructure, implementing advanced functionalities (M24)

3.1 Research activities

- Specification of "non functional requirements" of the NextData e-infrastructure, including GEOSS Interoperability requirements.
- Extension of the NextData e-infrastructure architecture for data access –in addition to discoverability.

3.2 Applications; technological and computational aspects

- Advanced Brokering framework installation and configuration (access plus discovery) on the scalable computational platform of CINECA.

- Second prototype of the Next Data Web Portal, including basic and advanced functionalities for the data access.
- Brokering of the NextData systems that have shared their resources applying the necessary Data Sharing e Data Management rules –see the "Open Data Policy" Deliverable;
- Production of the test infrastructure.

3.3 Formation

Seminar/workshop at the CNR-DTA for the main NextData systems Providers to present the first Web Portal prototype and get feedbacks for the second one.

3.4 Dissemination

NextData SoSIna Web site management (http://essilab.eu/nextdata/sosina/).

3.5 Participation in conferences, workshops, meetings

- *Meeting NextData.*
- *GEO Plenary/GEO Ministerial Summit/GEPW.*
- *AGU/EGU*

4. Results obtained during the reference period

4.1 Specific results (Data libraries, Measurements, Numerical simulations, etc)

- Second prototype of the NextData Web Portal.
- Brokering of the dataset actually shared by NextData systems Providers according to a set of general principles.

4.2 Publications

4.3 Availability of data and model outputs (format, type of library, etc)

Data shared via NextData can be discovered, a preview is available as a map for most of them, they can be directly downloaded by Users – if an access functionality is supported by the data provider.

4.3 Completed Deliverables

D2.1   General System Requirements (final version)

D2.2   General System and Interoperability Architecture (final version)

D2.3: Architettura del portale Web (final version)

D2.4   Open Data Policy

D3.1   NextData extended Brokering middleware

D3.2   NextData Web Portal

D5.1   Dedicated presentations

5. Comment on differences between expected activities/results/Deliverables and those which have been actually performed.
No significant differences.

6. Expected activities for the following reference period.

As described in the Executive Plan of SoSIna Project, in the next 12 months the final NextData brokering framework and Web portal will be released.