



Services development toolkit for Open Research Data (Promarket)

W. Som de Cerff (1), H Schwichtenberg (2), A. Gemünd (2), S. Claus (2), J. Reichwald (3), S. Denvil (4), P. Mazetti (5), and S. Nativi (5)

(1) Royal Netherlands Meteorological Institute, R&D ICT & Sensor Technology, De Bilt, Netherlands (sdecerff@knmi.nl), (2) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V., (3) QOSIT Softwaretechnik GmbH, (4) Centre National De La Recherche Scientifique, (5) Consiglio Nazionale delle Ricerche – Istituto sull’Inquinamento Atmosferico

According to the declaration of the Organisation for Economic Co-operation and Development (OECD) on Open Access: “OECD Principles and Guidelines for Access to Research Data from Public Funding” research data should be available for everyone and Europe follows these directions (Digital Agenda, N. Kroes).

Data being ‘open’ does not mean directly applicable: research data are often complex to use and difficult to interpret by non-experts. Also, if extra services are needed, e.g. certain delivery guarantees, SLAs need to be negotiated. Comparable to OSS development models, where software is open and services and support are paid for, there is a large potential for commercial activities and services around this open and free research data. E.g. Climate, weather or data from instruments can be used to generate business values when offered as easy and reliable services for Apps integration.

The project will design a toolkit for developers in research data centres. The tools will allow to develop services to provide research data and map business processes e.g. automatic service level agreements to their service to make open research data attractive for commercial and academic use by the centre and others. It will enable to build and develop open, reliable and scalable services and end products, e.g. accessible from end user devices such as smart phones. Researchers, interested citizen or company developers will be enabled to access open data as an “easy-to-use” service and aggregate it with other services. The project will address a broad range of developers and give them a toolkit in well-known settings, portable, scalable, open and useable in public development environments and tools. This topic will be addressed technically by utilizing service-oriented approaches based on open standards and protocols, combined with new programming models and techniques.