Land Monitoring RO

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***Abstract*—This is a RO created for Land Monitoring Activities**

I. Introduction

This document provides a paper-style view of the Research Object (RO) "*Land Monitoring RO*"[1] , which is a *snapshot* generated from the live RO "*Land Monitoring RO*"[2]. The ROs have been created, managed and preserved via ROHub platform [1]. Please refer to [2] for a general introduction to the RO concept, to [3] for a detailed description of the RO model, and to [4] for more information about ROHub platform.

The RO is of type *"Basic", which represents a general aggregation of related resources.* [3].

An overview of this RO is depicted in Figure 1. In summary, the hypothesis of this work is described in *LAND MONITORING-hypotesis.docx*[4]; Additionally, this RO has been enriched automatically with the following annotations:

- concepts (most frequently mentioned in the RO): *case, techniques, user, use, changes, information, user, analysis, sensing, Sentinel, Monitoring, LAND, communities*
- domains (fields of knowledge in which the main concepts are commonly used): *building industry, military, programming*
- frequent expressions (most frequently mentioned noun phrases): *land monitoring data, data privacy, data selection, service information, data provenance, archived data, social media information*
- named entities (most frequently mentioned):
  - Places: *Everest*



Fig. 1. Research Object Sketch

II. Resources

The resources encapsulated by the RO are summarized in table I

[1] *http://sandbox.rohub.org/rodl/ROs/LandMonitoring-2-snapshot/*
[2] *http://sandbox.rohub.org/rodl/ROs/LandMonitoring-2/*
[3] See RO types definitions at http://w3id.org/ro/earth-science#
[4] http://sandbox.rohub.org/rodl/ROs/LandMonitoring-2-snapshot/LAND%20MONITORING-hypotesis.docx

TABLE I
Research Object Resources

name	size	type
LAND MONITORING-hypotesis.docx	439.7 KB	Hypothesis
Land Monitoring - conclusions.docx	11.2 KB	Conclusions
Sentinel-1_User_Handbook.pdf	3.0 MB	Document
imgTest.png	24.4 KB	Sketch

Acknowledgment

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References

[1] The Research Object Management Platform - ROHub http://www.rohub.org/.
[2] K. Belhajjame, O. Corcho, D. Garijo, J. Zhao, P. Missier, D. Newman, R. Palma, S. Bechhofer, E. García Cuesta, J. M. Gómez-Pérez, S. Soiland-Reyes, L. Verdes-Montenegro, D. De Roure, and C. Goble "Workflow-Centric Research Objects: First Class Citizens in Scholarly Discourse", Proceedings of Workshop on the Semantic Publishing, SePublica Crete, Greece 28 May 2012.
[3] Belhajjame K., Zhao J., Garijo D., Gamble M., Hettne K., Palma R., Mina E., Corcho O., Gómez-Pérez J. M., Bechhofer S., Klyne G., Goble C. "Using a suite of ontologies for preserving workflow-centric research objects", Journal of Web Semantics: Science, Services and Agents on the World Wide Web Available online 11 February 2015 ISSN 1570-8268.
[4] Palma R., Corcho O., Gómez-Pérez J. M., Mazurek, C. "ROHub - A Digital Library of Research Objects Supporting Scientists Towards Reproducible Science". In Semantic Publishing Challenge of Proc. Extended Semantic Web Conference (ESWC) Crete, Greece 25-29 May 2014