

# Land Monitoring Change Detecting Step

<http://emanuele79.livejournal.com/>

**Abstract**—This RO describes the change detecting step.

## I. INTRODUCTION

This document provides a paper-style view of the Research Object (RO) “*Land Monitoring Change Detecting Step*”<sup>1</sup> generated. The RO has 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.<sup>2</sup>

An overview of this RO is depicted in Figure 1. In summary, the hypothesis of this work is described in *Land\_Monitoring\_Workflow\_hypothesis.docx*<sup>3</sup>; Additionally, this RO has been enriched automatically with the following annotations:

- concepts (most frequently mentioned in the RO): *change, RO, step, detection, methodology*
- domains (fields of knowledge in which the main concepts are commonly used): *ecology, anatomy, nets*
- frequent expressions (most frequently mentioned noun phrases): *image processing algorithm, SAR-based technique, change detection*

## II. RESOURCES

The resources encapsulated by the RO are summarized in table I

TABLE I  
RESEARCH OBJECT RESOURCES

| name                                      | size     | type         |
|-------------------------------------------|----------|--------------|
| sketch.png                                | 4.6 KB   | Sketch       |
| input_AoI.txt                             | 60.0 B   | ExampleInput |
| input_prodID.txt                          | 154.0 B  | ExampleInput |
| output.json                               | 180.3 KB |              |
| Sentinel-1_User_Handbook.pdf              | 3.0 MB   |              |
| workflow.t2flow                           | 5.2 KB   | Workflow     |
| Land_Monitoring_Workflow_hypothesis.docx  | 11.8 KB  | Hypothesis   |
| Land_Monitoring_Workflow_conclusions.docx | 11.2 KB  | Conclusions  |

<sup>1</sup>[http://sandbox.rohub.org/rodl/ROs/LandMonitoring\\_Change\\_Detecting/](http://sandbox.rohub.org/rodl/ROs/LandMonitoring_Change_Detecting/)

<sup>2</sup>See RO types definitions at <http://w3id.org/ro/earth-science#>

<sup>3</sup>[http://sandbox.rohub.org/rodl/ROs/LandMonitoring\\_Change\\_Detecting/Land\\_Monitoring\\_Workflow\\_hypothesis.docx](http://sandbox.rohub.org/rodl/ROs/LandMonitoring_Change_Detecting/Land_Monitoring_Workflow_hypothesis.docx)

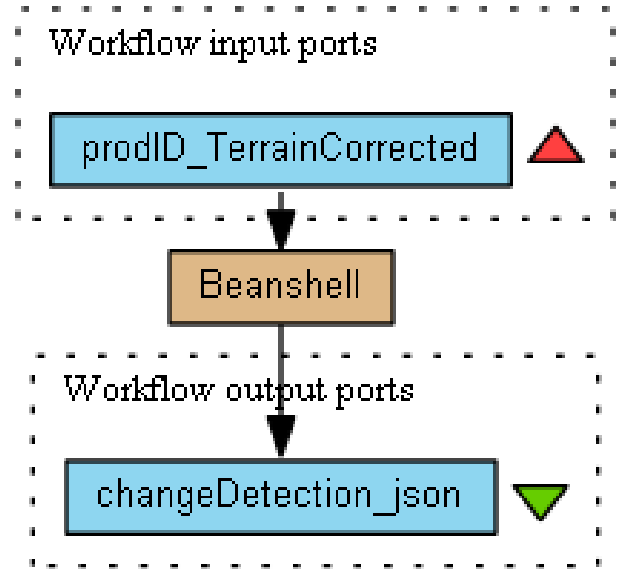


Fig. 1. Research Object Sketch

## ACKNOWLEDGMENT

The Research Object was uploaded to ROHub by <http://emanuele79.livejournal.com/>. ROHub portal development was supported by EVER-EST EU project (HORIZON 2020 grant 674907).

## REFERENCES

- [1] The Research Object Management Platform - ROHub <http://www.rohub.org/>.
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- [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