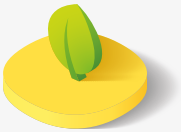
39 Hints to Facilitate the Use of Semantics for Data on Agriculture and Nutrition

The Challenge:

Enhancing data interoperability in agriculture by promoting the use of semantics for agricultural data. For this purpose the RDA Agrisemantics Working Group performed an analysis of the current landscape of use of semantic resources with agricultural data, based on first-hand experience of our group members, as well as on bibliometric investigation, and an analysis of existing repositories. Despite the many possible applications of semantics and the interest shown by research and industry alike, their actual implementation and use is lagging behind. A large number of resources are not in machine-readable formats or do not have public APIs, while those available are often used beyond their intended area of use, possibly leading to problems. There is a strong need for "lifting" semantic resources to the web, and create new ones appropriate to their intended use.



Produced by: Agrisemantics WG

https://www.rd-alliance.org/groups/agrisemantics-wg.html

What is the solution?

Based on the landscape analysis of use of semantic resources with agricultural data, a set of high level recommendations were defined for future activities and implementations to facilitate the use of semantics for data on agriculture and nutrition. These recommendations were arranged according to the skill sets and roles that are in the best position to implement them. This resulted in 39 hints for researchers and practitioners to extend them according to their area of expertise.

What is the impact?

The document contains a number of highlights on issues to be addressed in order to make the use of semantics more straightforward and widespread. The RDA Agrisemantics Working Group expects the document to help share awareness about semantics among experts in different areas and support strategic allocation of resources in future development.

Find out more about this Recommendation

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