Title: Interoperability of KOS Metadata Schemas in BARTOC and JSKOS

Authors: Jakob Voß (VZG Göttingen, Germany) and Andreas Ledl (Basel University Library, Switzerland)

Abstract:

Since its foundation less than three years ago the Basel Register of Thesauri, Ontologies & Classifications (BARTOC) has collected information about more than 1.900 Knowledge Organization Systems (KOS) and 70 KOS related registries. The catalog is based on several controlled vocabularies (EuroVoc, DDC, ISO 639-2, Wikidata, NKOS KOS Types Vocabulary, ILC) and available as Open Data at http://bartoc.org/. The registry has joined forces with an initiative initially developed independently to unify access to KOS data: JSKOS defines a data format based on RDF and JSON to express structure, metadata, mappings and other information about KOS in a uniform way. JSKOS also makes use of SKOS and JSON-LD, so KOS information in JSKOS can be provided as Linked Open Data. The JSKOS standard is being complemented by an API to cover the most important use cases of KOS reuse.

The collaboration between BARTOC and JSKOS includes collective curation of KOS data and joint development of a metadata schema for description of KOS, based on NKOS Application Profile. The aims of both projects are:

1 Make KOS resources more visible
2 Provide key characteristics of KOS resources
3 Encourage human assessment of these resources by applicability to semantic projects
4 Promote information exchange and knowledge sharing
5 Provide uniform access to KOS data
6 Ease use of KOS data in web applications
7 Foster availability and usefulness of KOS in general

Both BARTOC and JSKOS will be presented and discussed with regard to the chances of fulfilling these aims.