

IVOA
Spring Interop
Registry Session II
22 May 2014 - ESAC



Educational Resources in the VO

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Outline



- ▶ Edu Note
 - ▶ The goal
 - ▶ The contents
 - ▶ *ContentLevel* & Curated registry
 - ▶ Document registry extension
 - ▶ «i18n» resources



Edu-IG Note goal

- ▶ introduce and explain practices followed and requirements found while creating and deploying astrophysical resources dedicated to educational purposes within the standard VO framework
- ▶ Issues, proposed solutions and desirables are reported to be possibly taken into account in future modifications of relevant standards.



TOPICS



- ▶ curation of educational resources inside or along with standard registries
- ▶ use cases and techniques for registering and locating documents, tutorials and similar within the registries
- ▶ dealing with multiple languages



Educational vs. Professional

- ▶ No real technical issue
 - ▶ teaching & dissemination: edu
 - ▶ research driven: pro
- ▶ Simple tagging solution
 - ▶ Help resource discrimination
 - ▶ Also at client side
- ▶ *vr.ContentLevel* granularity
 - ▶ 9 possible optional values (4 including the word «education»)
 - ▶ misused, probably not clear
 - school level not homogeneous from country to country
 - ▶ Simplify to:
 - ▶ *General – Research – Amateur*
 - *Add Educational? Substitute it to General?*

ContentLevel impact on registries



▶ Minimal

- ▶ 97% of registered resources have *ContentLevel* set to *Research*
- ▶ 2% have *ContentLevel* not set
- ▶ 1% different or multiple values

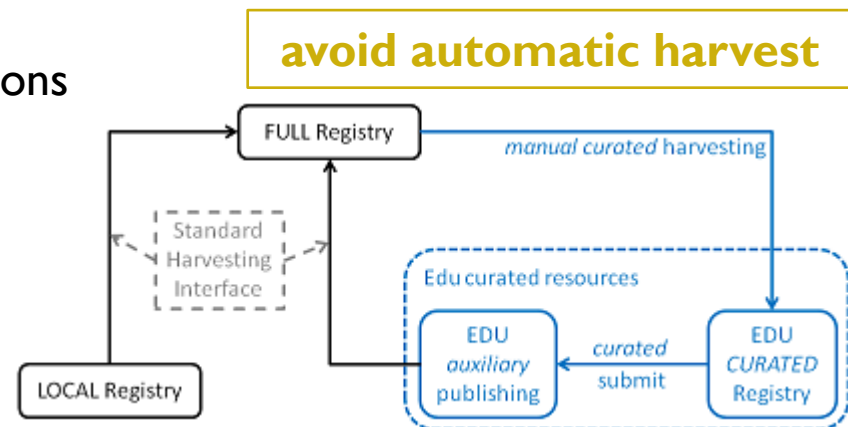
▶ While waiting

- ▶ Use the proposed solution as a «best practice»
- ▶ Registries MAY map
 - ▶ *University* → *Research*
 - ▶ *!Amateur* → *General*

Curated Registry for Edu resources



- ▶ ContentLevel solution is the tagging solution
- ▶ May be not sufficient to separate the «edu» and «pro» scenarios
 - ▶ Curate a dedicated registry resource
 - ▶ Requirements:
 - Registry management and update
 - IVOA registry architecture restrictions



- ▶ Need some input from Applications
 - ▶ Will this solution work?



Document Registry Extension

- ▶ Current registry extensions take not into account
 - ▶ Document language
 - ▶ Formatted/source material distinction
 - ▶ *accessURL* has not the same meaning

doc:Document Type Schema Definition

```
<xs:complexType name="Document" >
  <xs:complexContent >
    <xs:extension base="vr:Resource" >
      <xs:sequence >
        <xs:element name="language" type="xs:string" minOccurs="1"
          maxOccurs="unbounded" />
        <xs:element name="accessURL" type="vr:AccessURL" minOccurs="0"
          maxOccurs="unbounded" />
        <xs:element name="sourceURI" type="xs:anyURI" minOccurs="0"
          maxOccurs="unbounded" />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```



Document Registry Extension

- ▶ Language in accessURL
 - ▶ maintainability issue
 - ▶ «landing page» solution preferred
- ▶ Source code URI
 - ▶ Allow non-HTTP schemes
 - ▶ SVN, git, ...
- ▶ uses suggested *relationship* with other VO resources the document may use

```
<relationship>  
  <relationshipType>uses</relationshipType>  
  <relatedResource>The ALADIN image server</relatedResource>  
</relationship>
```




SVN repository

- ▶ **Goal**
 - ▶ (ideally) cooperatively develop documentation
 - ▶ repository of updated use cases for users
 - ▶ repository of master english docs for translators
- ▶ **Contribution guidelines**
 - ▶ Users (contributor, translator, user)
 - ▶ Document layout (readme, license, /res, /en, ...)
 - ▶ How to update the translation status
 - ▶ How to add a license
 - ▶ How to add, update and translate tutorials
 - ▶ Naming
- ▶ **Access**
 - ▶ <http://svn.ari.uni-heidelberg.de/svn/edu/>
 - ▶ https for committers

SVN repository: document schema



- ▶ AIDA_01_the_sky
 - ▶ README
 - ▶ brief description the use case (few rows)
 - ▶ contac person and e-mail
 - ▶ translation status
 - en (master): 24 Jan 2014
 - it: 24 Jan 2014
 - de: 14 Jun 2010
 - ▶ LICENSE
 - ▶ /en
 - ▶ en_aida_01_the_sky.doc
 - ▶ en_aida_01_the_sky.pdf
 - ▶ /...
 - ▶ (eventually) /res



Internationalization

- ▶ Educational dissemination in non English countries
 - ▶ DocRegExt
 - ▶ i18n titles?
 - ▶ ISO language code
 - ▶ Moving VOResource to allow different languages
 - ▶ i18n resources – multilingual
- ▶ SVN repo uses
 - ▶ «master» english resource
 - ▶ translated resources



IVOA Note on Educational Resources in Virtual Observatory
on Volute, link available on Edu IG wiki page

Thank you
for your attention!

