A DCAP for the Social and Solidarity Economy

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The Social and Solidarity Economy

Cooperatives

Mutualities

Associations

Among others...

The SSE is different from the economy of State and Market since it is created by an organised civil society.

Common Good, i.e., goals are not neither centered in profit nor in individualistic needs.
SSE Web Platforms

Implement Interoperability between SSE Web platforms

DCAP!
SSE Web Platforms interoperability

International Network for the promotion of the SSE (RIPESS)

Group ESSGlobal

DCAP - SSE
Methodology

- DCAP development -> complex task -> open environment
- The importance of methods -> Me4MAP
- Me4MAP was developed in the framework of a PhD using the Design Science Research methodology
- DCAP-SSE development was informed by Me4MAP
Me4MAP (first Stage)

• In the **first Stage** we developed the **Functional Requirements**. This activity included the sub-activities of:
  • definition of the *vision* of the project;
  • definition of the *application domain*;
  • elicitation of the *high-level requirements*;
  • development of the *use-case model*;
  • elicitation of the *functional requirements*.
Me4MAP (second Stage)

- In the **second Stage** we developed the **Domain Model**. This activity included the sub-activities:
  - definition of the *environmental scan*;
  - definition of the *domain model*.
Me4MAP (third Stage)

• In the third Stage, we developed the Description Set. This activity included the sub-activities of:

  • Development of Pre-Description Set profile including sub-activities of:
    • Definition of the Detailed Domain Model;
    • Definition of the Vocabulary Alignment;
    • Definition of the Constraints Matrix.
  
  • Encoding of the Description Set Profile.
Functional Requirements

• enable the creation and sharing of consistent metadata;

• support the search by any or all items: “SSEInitiative”, “Network”, “Product”, “Sale Options” and “Product-Input;”

• support the search for any property of each element mentioned in the previous paragraph and also “Cost Composition” of any Product-Input.
RDF Vocabularies used in the DCAP-SSE

- **dc**: Dublin Core Terms  
  - [http://purl.org/dc/terms/](http://purl.org/dc/terms/)
- **v**: VCARD vocabulary  
  - [http://www.w3.org/2006/vcard/ns/](http://www.w3.org/2006/vcard/ns/)
- **foaf**: Friend of a Friend Vocabulary  
  - [http://xmlns.com/foaf/0.1/](http://xmlns.com/foaf/0.1/)
- **schema**: Schema.org  
  - [http://schema.org](http://schema.org)
- **gr**: Good Relations vocabulary (e-commerce)  
  - [http://purl.org/goodrelations/v1#](http://purl.org/goodrelations/v1#)
- **essglobal**: SSE vocabulary  
  - [http://purlg.org/essglobal/vocab/](http://purlg.org/essglobal/vocab/)
Data Model - UML Class diagram
Constraints Matrix

### Definition of Description Templates

<table>
<thead>
<tr>
<th>Description Template:</th>
<th>SSE Initiative</th>
<th>Property: essglobal:SSEInitiative</th>
<th>Usage: An organization, practice, network, or other initiative that is recognized as belonging within the social solidarity economy.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Label</td>
<td>Property</td>
<td>Range</td>
<td>Value String</td>
</tr>
<tr>
<td>Name</td>
<td>gr:name</td>
<td>literal</td>
<td>YES</td>
</tr>
<tr>
<td>Description</td>
<td>dcterms:description</td>
<td>literal</td>
<td>YES</td>
</tr>
<tr>
<td>Objective</td>
<td>essglobal:objective</td>
<td>literal</td>
<td>YES</td>
</tr>
<tr>
<td>Mission</td>
<td>essglobal:mission</td>
<td>literal</td>
<td>YES</td>
</tr>
<tr>
<td>Type</td>
<td>dc:type</td>
<td>literal</td>
<td>YES</td>
</tr>
<tr>
<td>Economic-Sector</td>
<td>essglobal:economicSector</td>
<td>non-liberal</td>
<td>no</td>
</tr>
<tr>
<td>Total of Women</td>
<td>essglobal:totalWomen</td>
<td>literal</td>
<td>YES</td>
</tr>
<tr>
<td>Total of Men</td>
<td>essglobal:totalMen</td>
<td>literal</td>
<td>YES</td>
</tr>
<tr>
<td>Total of Members</td>
<td>essglobal:totalMembers</td>
<td>literal</td>
<td>YES</td>
</tr>
<tr>
<td>Legal Form</td>
<td>essglobal:legalForm</td>
<td>non-liberal</td>
<td>no</td>
</tr>
<tr>
<td>URL</td>
<td>foaf:homepage</td>
<td>literal</td>
<td>YES</td>
</tr>
<tr>
<td>Has Product or Service</td>
<td>essglobal:hasProductOrService</td>
<td>non-liberal</td>
<td>YES</td>
</tr>
<tr>
<td>Has address</td>
<td>essglobal:hasAddress</td>
<td>non-liberal</td>
<td>YES</td>
</tr>
<tr>
<td>Is part of a Network</td>
<td>dcterms:isPartOf</td>
<td>non-liberal</td>
<td>YES</td>
</tr>
</tbody>
</table>

### Description Template: Network

<table>
<thead>
<tr>
<th>Description Template:</th>
<th>Network</th>
<th>Property: essglobal:Network</th>
<th>Usage: A network of individuals and/or organizations that participate in the SSE.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Label</td>
<td>Property</td>
<td>Range</td>
<td>Value String</td>
</tr>
<tr>
<td>Name</td>
<td>gr:name</td>
<td>literal</td>
<td>YES</td>
</tr>
<tr>
<td>Description</td>
<td>dcterms:description</td>
<td>literal</td>
<td>YES</td>
</tr>
<tr>
<td>Objective</td>
<td>essglobal:objective</td>
<td>literal</td>
<td>YES</td>
</tr>
<tr>
<td>Legal Form</td>
<td>essglobal:legalForm</td>
<td>non-liberal</td>
<td>no</td>
</tr>
<tr>
<td>Mission</td>
<td>essglobal:mission</td>
<td>literal</td>
<td>YES</td>
</tr>
</tbody>
</table>

*Table based on the table presented in the Guidelines for DCAP by Baker & Coyle (2009)*
Description Set Profile

http://purl.org/essglobal/dsp-xml
essglobal RDF vocabulary

• dimensions such as:
  • the description of specific characteristics of the SSE organisations (e.g. #men; #women);
  • the description of relations and networks that exist among SSE organisations;
  • the description of the product or service’s:
    • open cost;
    • labour costs.
essglobal RDF vocabulary

- 11 classes: 4 of these classes are sub-classes of well-known RDF vocabularies classes;

- 29 properties: 9 are object properties and the remaining 20, datatype properties.
5 new Vocabulary Encoding Schemes

- Economic Activities/Sectors:  
  http://purl.org/essglobal/standard/activities

- Macro-themes:  
  http://purl.org/essglobal/standard/themes

- Qualifiers:  
  http://purl.org/essglobal/standard/qualifiers

- Type of Labour:  
  http://purl.org/essglobal/standard/type-of-labour
Conclusions

• Me4MAP
• Primarily use of DCAP-SSE:
  • aid the discovery of SSE goods or services and networks;
  • Calculating statistical data.
• Example of application: a smartphone App presenting users the location and characteristics of nearby SSE organisations.
Future Work

• Research Track
  • DCAP-SSE here presented is a work-in-progress
    ->> continue the Me4MAP process.

• Marketing & Technical support Track
  • Dissemination plan
  • Manual & Use-Cases development

• Development Track
  • To find ways to present the SSE metadata
    within na application framework;
  • User interface development.
Thank you!
Obrigada!

Happy to answer your questions!
Disponível para responder às suas questões!

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