Official Development Assistance

The following table (Table 1) presents how the main entities are modeled by using the appropriate classes. As can be seen, each distinct concept and entity is modeled using a different class. The business information is modeled using classes from well-known ontologies. The namespaces are presented in Table 3.

|  |  |
| --- | --- |
| **Concept/Entity** | **Class** |
| Aid activity/project | elod:AidActivity |
| Committed amount | elod:CommittedItem |
| Disbursed amount | elod:DisbursedItem |
| Transaction | elod:Transaction |
| Amount | elod:Amount |
| Country  Region  Currency  OECD sector  Organization type  Transaction type  Aid type  Finance type  Flow type  Activity status type  Collaboration type | skos:Concept |
| Organization (benefactor/beneficiary) | foaf:Organization  org:Organization  gr:BusinessEntity  rov:RegisteredOrganization |

Table 1: The core classes of the proposed general model

The following table (Table 2) presents how the core classes are related with the appropriate properties.

|  |  |  |
| --- | --- | --- |
| **Domain** | **Property** | **Range** |
| elod:AidActivity | elod:benefactor | foaf:Organization  org:Organization  gr:BusinessEntity  rov:RegisteredOrganization |
| elod:AidActivity | elod:beneficiary | foaf:Organization  org:Organization  gr:BusinessEntity  rov:RegisteredOrganization |
| elod:AidActivity | elod:sector | skos:Concept |
| elod:AidActivity | elod:countryIsoCode | skos:Concept |
| elod:AidActivity | elod:aidType | skos:Concept |
| elod:AidActivity | elod:flowType | skos:Concept |
| elod:AidActivity | elod:financeType | skos:Concept |
| elod:AidActivity | elod:activityStatusType | skos:Concept |
| elod:AidActivity | elod:collaborationType | skos:Concept |
| elod:AidActivity | elod:hasRelatedCommittedItem | elod:ComittedItem |
| elod:Transaction  elod:CommittedItem  elod:DisbursedItem | elod:amount | elod:Amount |
| elod:Amount  elod:Transaction | elod:hasCurrency | skos:Concept |
| elod:AidActivity | elod:hasRelatedDisbursedItem | elod:DisbursedIt  em |
| foaf:Organization  org:Organization  gr:BusinessEntity  rov:RegisteredOrganization | rov:orgType | skos:Concept |
| elod:AidActivity | elod:hasTransaction | elod:Transaction |
| elod:Transaction | elod:benefactor | foaf:Organization |
| elod:Transaction | elod:beneficiary | foaf:Organization |
| elod:Transaction | elod:transactionType | skos:Concept |

Table 2: The interconnections among the classes using the appropriate properties

**Prefixes**

|  |  |  |
| --- | --- | --- |
| **Prefix** | **Namespace** | **Ontology name** |
| elod | http://linkedeconomy.org/ontology# | Linked Economy |
| foaf | http://xmlns.com/foaf/0.1/ | FOAF |
| org | http://www.w3.org/ns/org# | Organizations |
| rov | http://www.w3.org/ns/regorg# | Registered Organization |
| gr | http://purl.org/goodrelations/v1# | Good Relations |

Table 3: The namespaces

**Datatype Properties**

|  |  |
| --- | --- |
| **Property** | **Range** |
| elod:projectId | xsd:string |
| dct:title | xsd:string |
| dct:description | xsd:string |
| dct:modified | xsd:dateTime |
| elod:plannedStartDate | xsd:dateTime |
| elod:plannedEndDate | xsd:dateTime |
| elod:startDate | xsd:dateTime |
| elod:endDate | xsd:dateTime |
| elod:hasCurrencyValue | xsd:float |
| foaf:name | xsd:string |
| elod:refCode | xsd:string |
| elod:transactionDate | xsd:dateTime |
| elod:valueDate | xsd:dateTime |

Table 4: Datatype properties