Identify the classification scheme items, cei, without parent, using the path enumeration information

For each one of identified classification scheme items cei

Create the corresponding ontology class, Ci

Identify the classification scheme items, cej, which are children of cei, using the path enumeration information

For each one of identified classification scheme items cej

Create the corresponding ontology class, Cj

Set up the relation between Cj and Ci

[number of cei = 1]

Create an ad-hoc class as the root class of the ontology

Set up the relation between Ci and the ad-hoc class

[number of cei > 1]
Create the LEGISLATORS, SENIOR OFFICIALS AND MANAGERS class

Create the Legislators and senior officials class

Set up the relation between the Legislators and senior officials class and the LEGISLATORS, SENIOR OFFICIALS AND MANAGERS class

Create the Corporate managers class

Set up the relation between the Corporate managers class and the LEGISLATORS, SENIOR OFFICIALS AND MANAGERS class

Create the PROFESSIONALS class

Create the Occupation class

Set up the relation between the LEGISLATORS, SENIOR OFFICIALS AND MANAGERS class and the Occupation class

Set up the relation between the PROFESSIONALS class and the Occupation class
Identify the classification scheme items, cei, without parent, using the adjacency list information.

For each one of identified classification scheme items cei:

Create the corresponding ontology class, Ci

Identify the classification scheme items, cej, which are children of cei, using the adjacency list information.

For each one of identified classification scheme items cej:

Create the corresponding ontology class, Cj

Set up the subClassOf relation between Cj and Ci.

[number of cei = 1]

Create an ad-hoc class as the root class of the ontology.

Set up the subClassOf relation between Ci and the ad-hoc class.

[number of cei > 1]
Create the Water area class

Create the Environmental area class and set up the subClassOf relation between it and Water area class.

Create the Inland/marine class and set up the subClassOf relation between it and Environmental area class.

Create the Ocean class and set up the subClassOf relation between it and Environmental area class.

Create the North/South/Equatorial class and set up the subClassOf relation between it and Environmental area class.

Create the Fishing Statistical area class and set up the subClassOf relation between it and Water area class.

Create the FAO Statistical area class and set up the subClassOf relation between it and Fishing Statistical area class.

Create the Areal grid system class and set up the subClassOf relation between it and Fishing Statistical area class.

Create the Jurisdiction area class and set up the subClassOf relation between it and Water area class.
Create the learning class and the personal development class.

Create the competence class and assert that competence is subClassOf learning.

Create the performance class and assert that performance is subClassOf development.

Assert that achievement is label of performance.

Assert that competence is relatedClass of performance.

Create the skill class and assert that skill is subClassOf competence.

Create the efficiency class and assert that efficiency is subClassOf performance.

Create the failure class and assert that failure is subClassOf performance.

Create the success class and assert that success is subClassOf performance.
Create the Poaceae class

Create the Oryza class and assert that Oryza is subClassOf Poaceae.

Create the Rice class and assert that Rice is relatedClass of Oryza.

Create the Cereals class.

Assert that Rice is subClassOf Cereals.

Create the Paddy class and assert that Paddy is equivalentClass of Rice.
Identify the records that contain thesaurus terms without broader term, using the record-based model information

For each one of identified terms $t_i$

- Create the corresponding ontology class, $C_i$
- Identify the thesaurus terms, $t_j$, which are narrower terms of $t_i$. They are referenced in the same record that contains $t_i$
- For each one of identified thesaurus terms $t_j$
  - Create the corresponding ontology class, $C_j$
  - Set up the $subClassOf$ relation between $C_j$ and $C_i$

- Identify the thesaurus terms, $t_r$, which are narrower terms of $t_i$. They are referenced in the same record that contains $t_i$
- For each one of identified thesaurus terms $t_r$
  - Create the corresponding ontology class, $C_r$
  - Set up the $relatedClass$ relation between $C_r$ and $C_i$

- Identify the thesaurus terms, $t_q$, which are equivalent terms of $t_i$. They are referenced in the same record that contains $t_i$
- For each one of identified thesaurus terms $t_q$

Use the logical pattern proposed by Corcho et al.