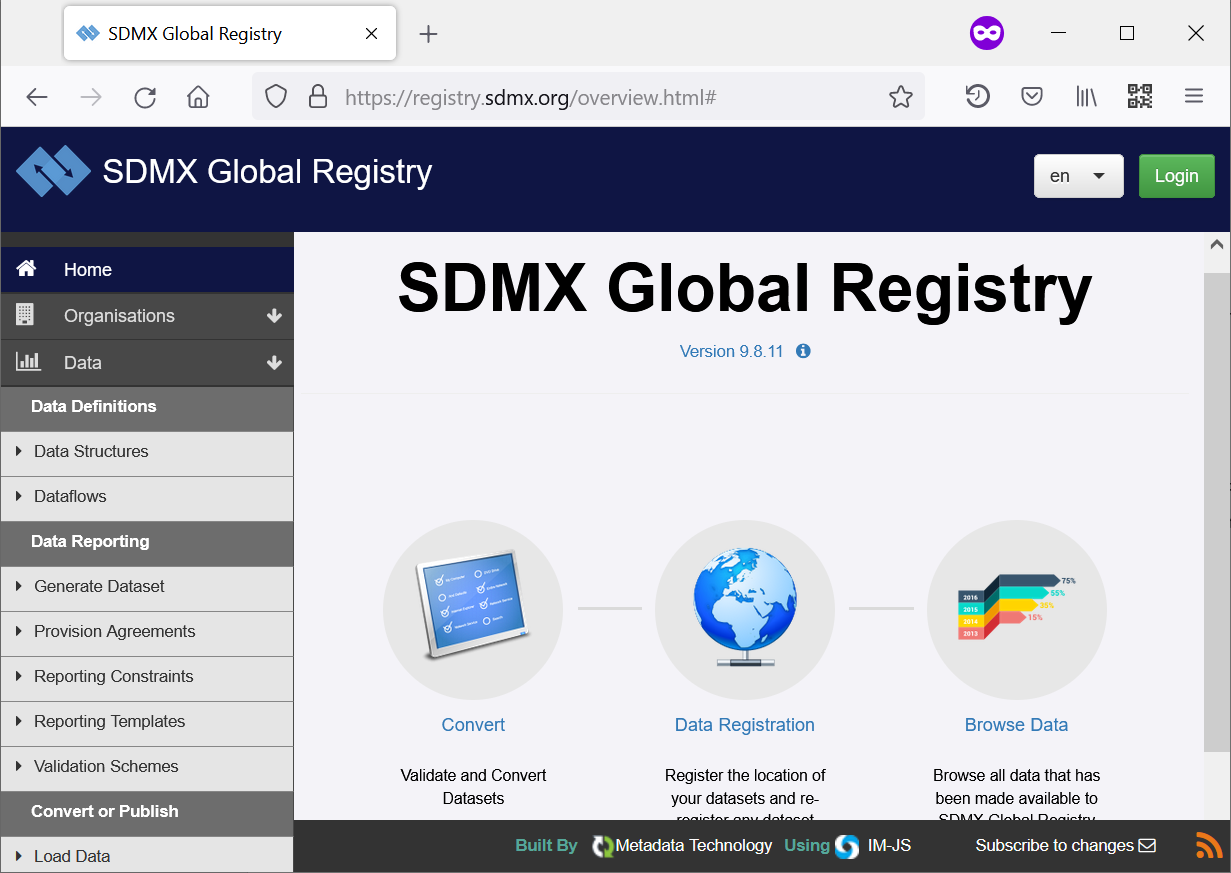
# Exercise 6

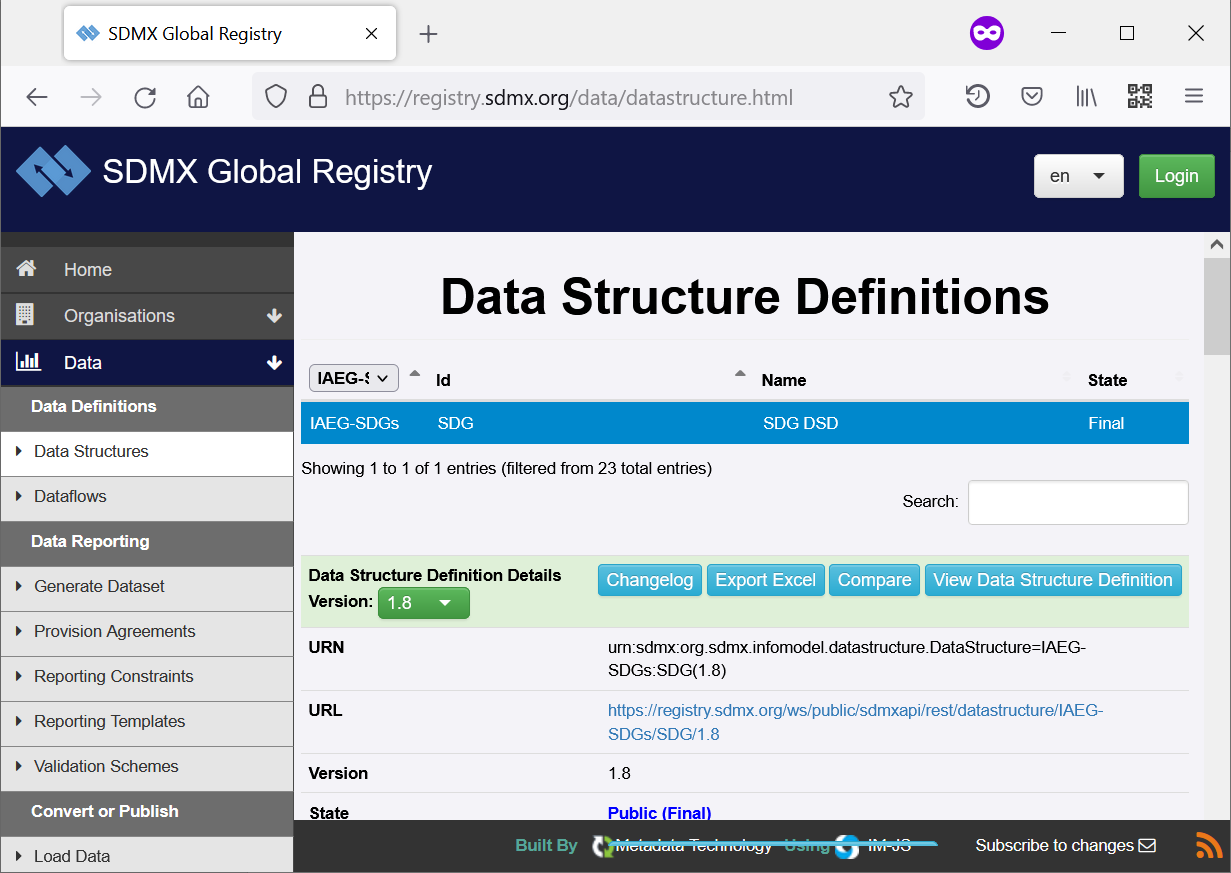
## Creating a customized SDG Data Structure Definition

In this exercise, you will customize the SDG Data Structure Definition using the ILO DSD Constructor.

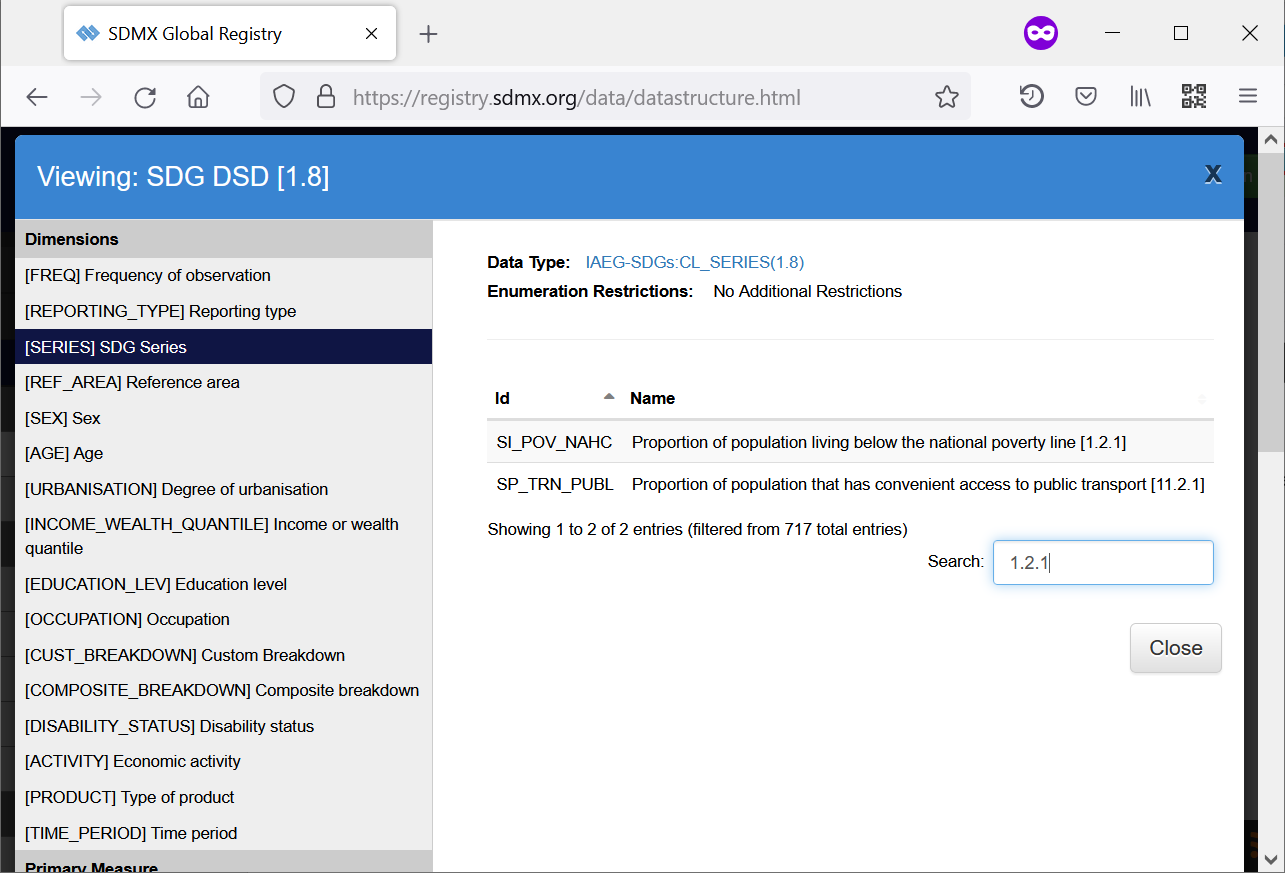
1. Open spreadsheet **Exercise 6.xlsx**. Note that it contains Antarctica’s SDG Indicator 1.2.1 “Proportion of population living below the national poverty line, by sex and age”, and is disaggregated by sex and age.
2. Start your browser and open page <https://registry.sdmx.org>. This is the SDMX Global Registry, where global and cross-domain DSDs, concepts, code lists, and other artefacts are stored. Click **SDMX Global** **Registry Home**.
3. Click **Data** on the left. In the menu that opens, click **Data Structures**. This will list DSDs stored at the Global Registry.

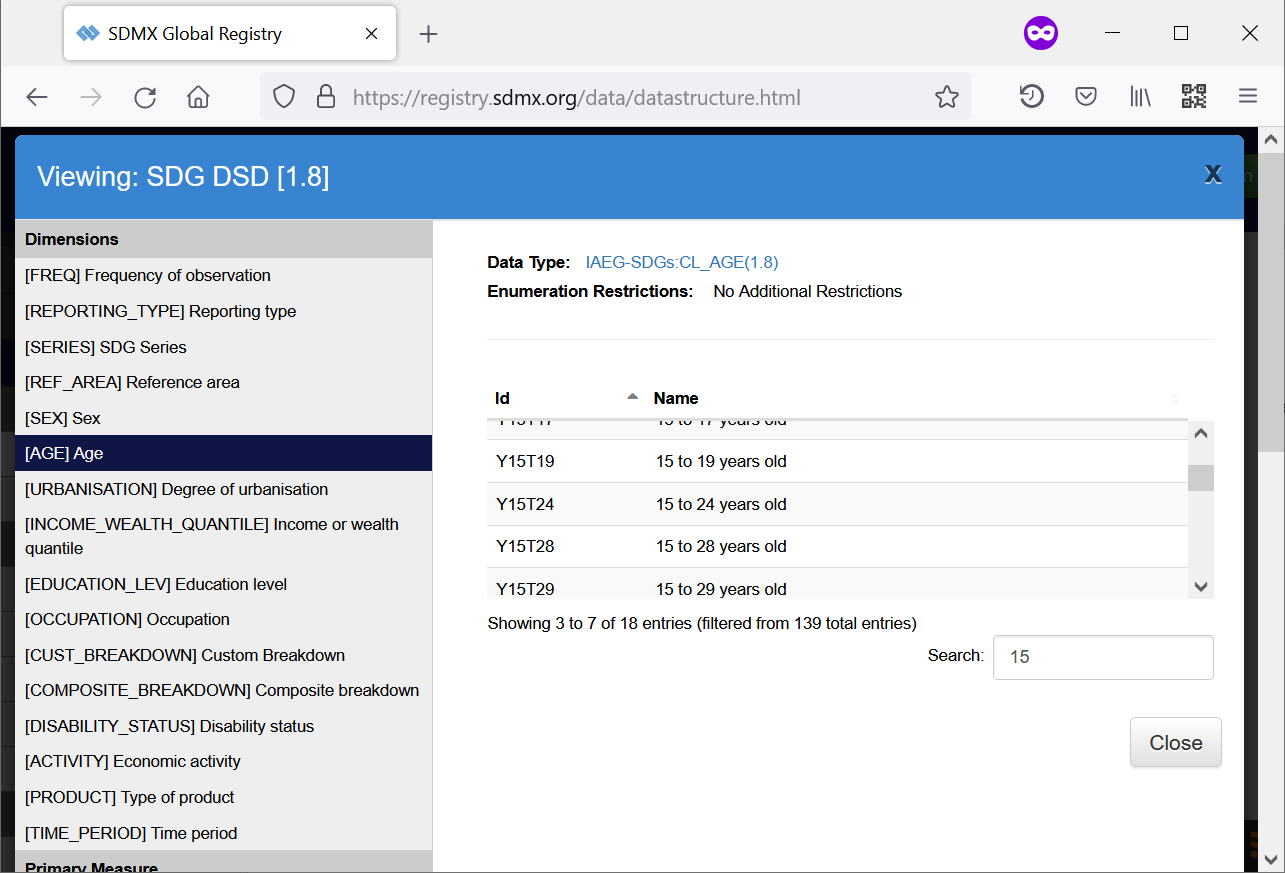


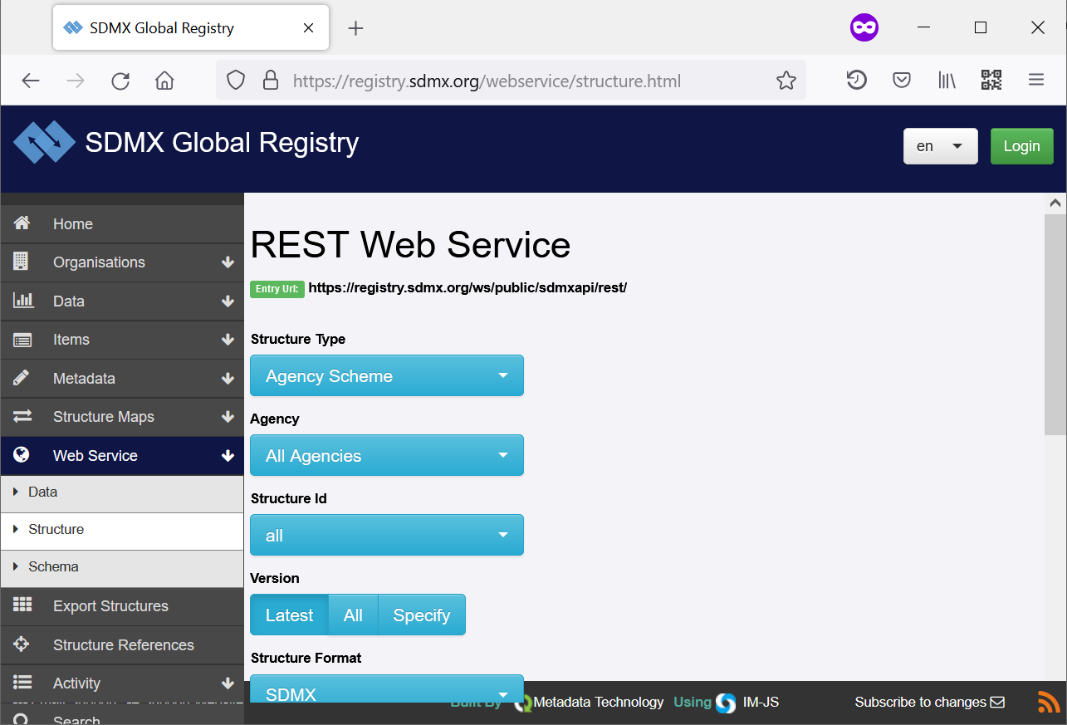
1. Global DSDs are now displayed. To quickly locate the SDG DSD, select **IAEG-SDGs** in the agency drop-down. Then, select the **SDG DSD** and click **View Data Structure Definition**.

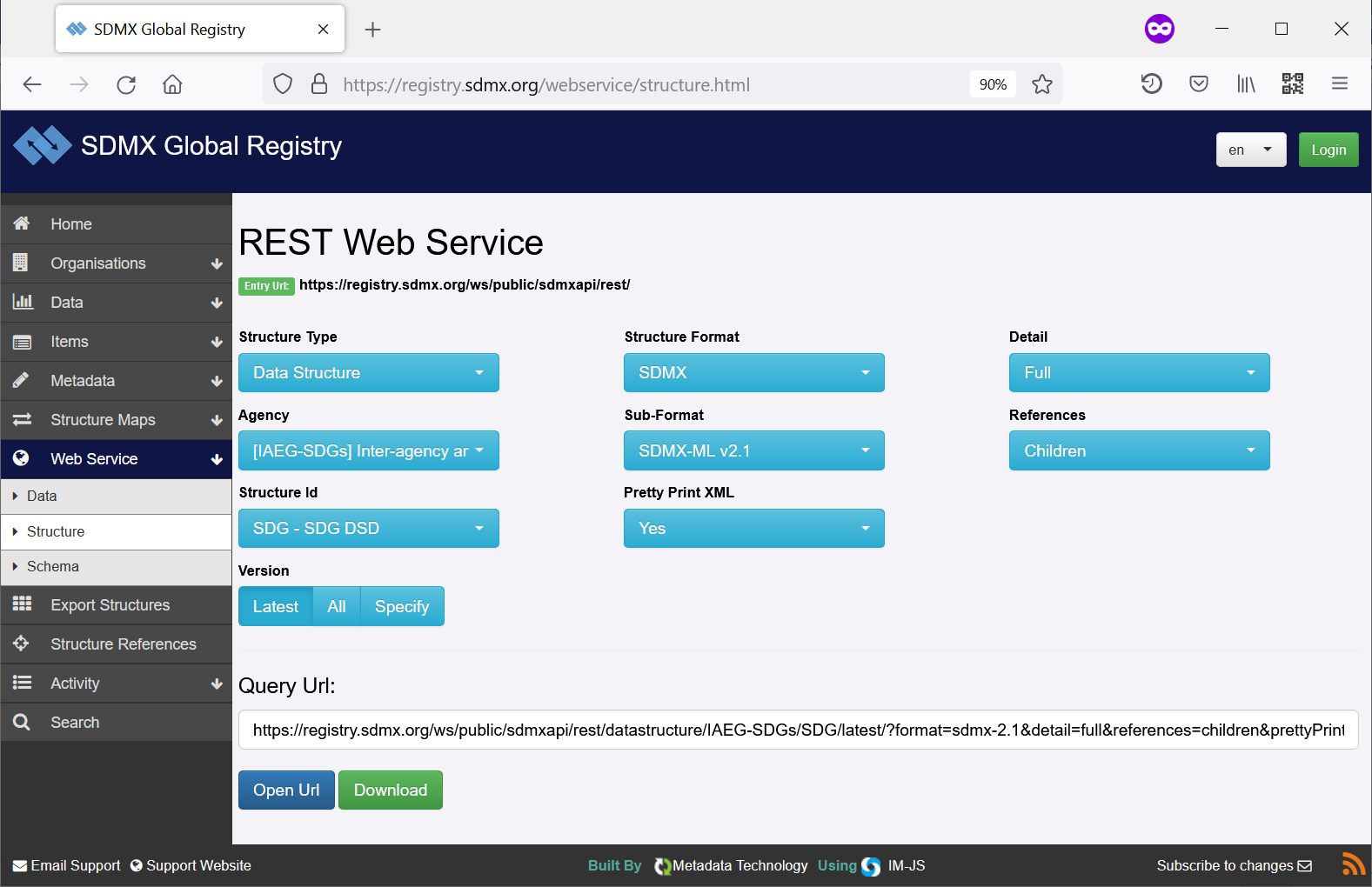
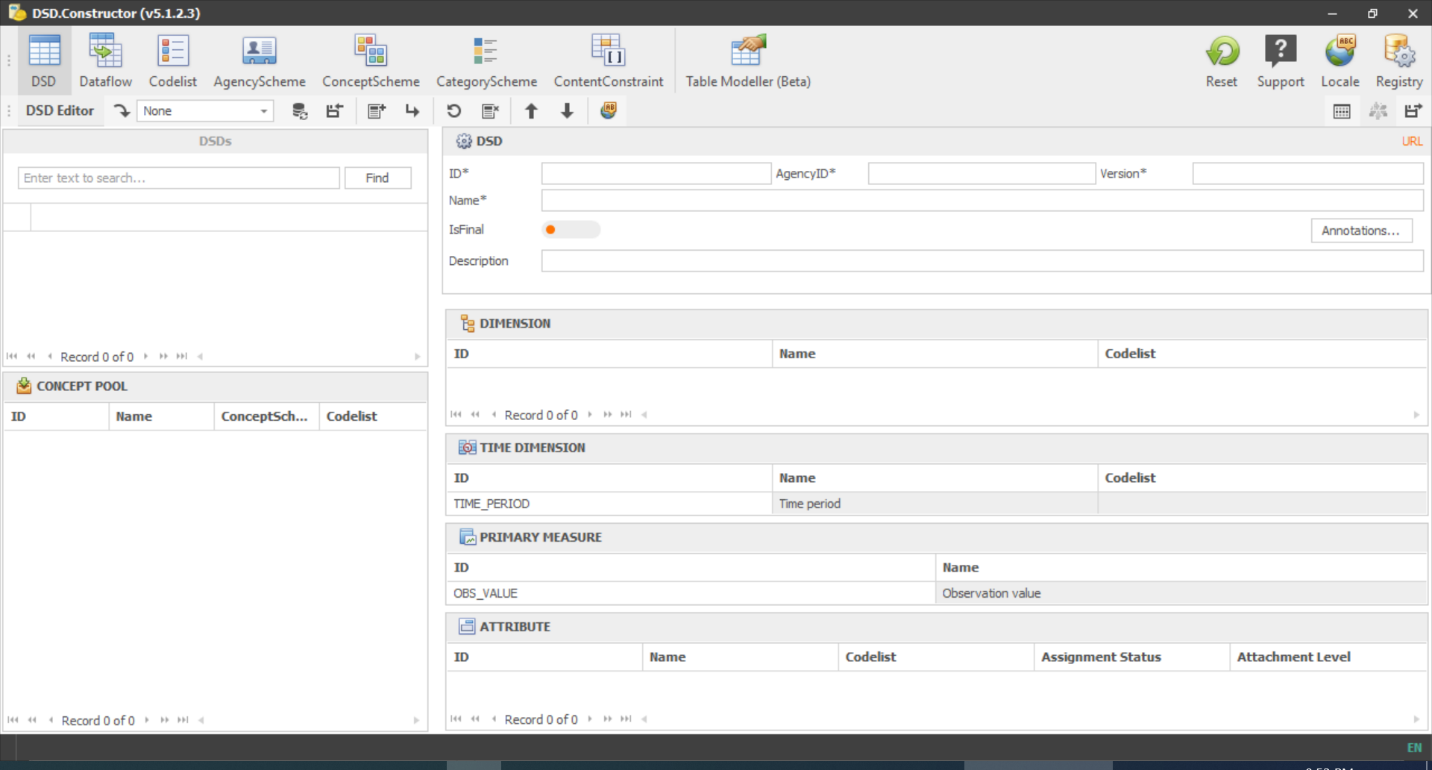


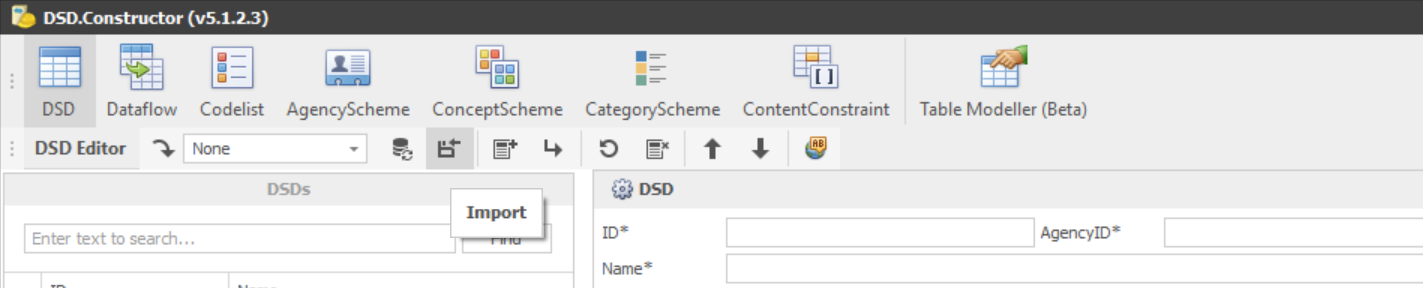
1. The SDG Data Structure Definition opens and its concepts and their representations are displayed. Select the **SERIES** dimension on the left. The **CL\_SERIES** code list is displayed. Type **1.2.1** into the search box to quickly find series codes for the indicator.



1. Click the **AGE** dimension on the left and check whether all age groups used in the dataset are present in the code list.
2. You may notice that one of the age groups is missing from the global DSD. To add the age group to Antarctica’s national DSD, you will need to download the DSD, take ownership of affected artefacts, and add the age group to the code list.
3. Click **Close** to close the DSD window. In the menu on the left, select **Web Service** and then **Structure**. The **REST Web Service** window opens.



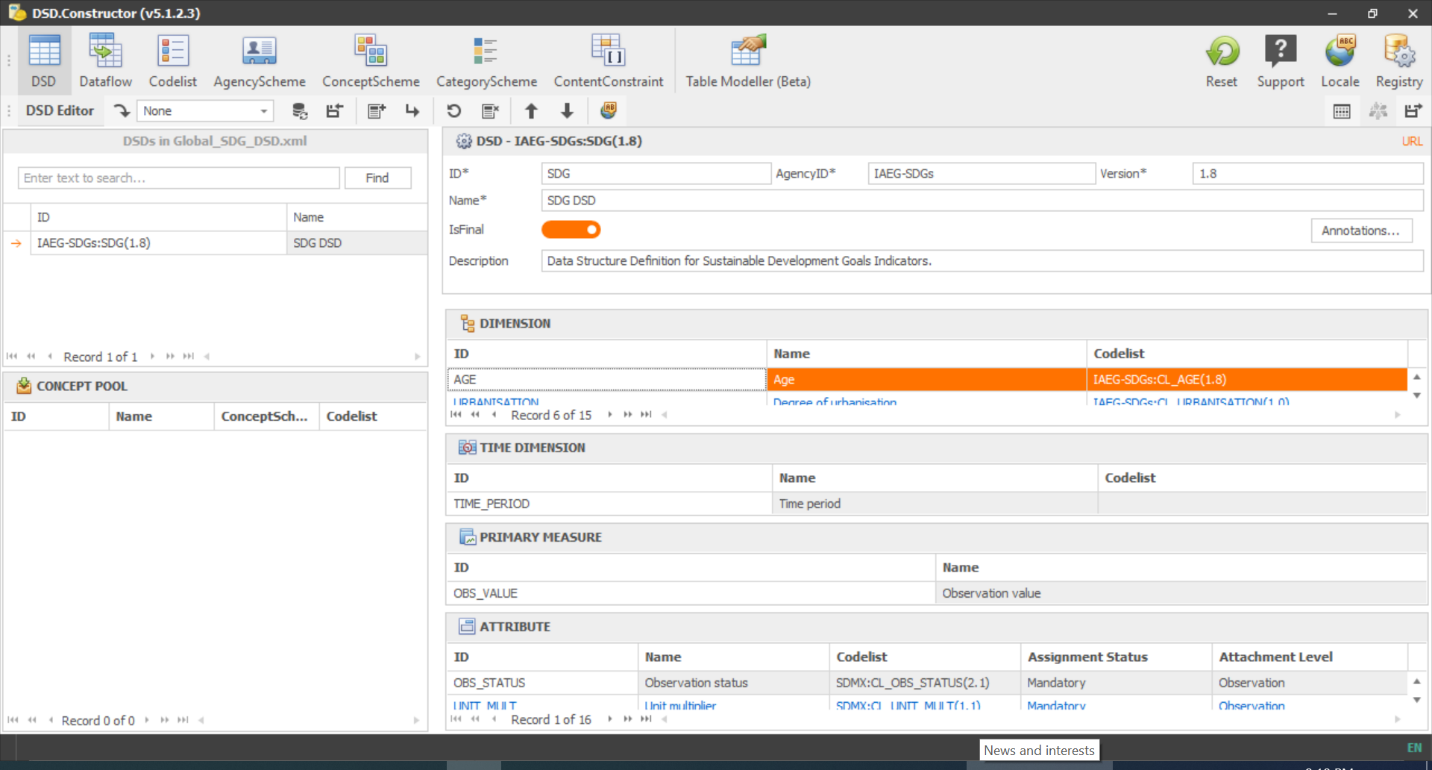
1. On this screen, you can select and download one artefact or a group of related artefacts. Make selection as follows:
   * Structure Type: **Data Structure**
   * Agency: **IAEG-SDGs**
   * Structure Id: **SDG**
   * Version: **Latest**
   * Structure Format: **SDMX**
   * Sub-format: **SDMX-ML 2.1**
   * Pretty print XML: **Yes**
     + Optional; helps viewing and speeds up processing
   * Detail: **Full**
   * References: **Children**
     + This will download the DSD and all artefacts that it references, i.e. Agency Scheme, Concept Scheme, and Code Lists. If **All** is selected then all Dataflows and Content Constraints will also be downloaded.
2. Click **Download** and save the file as **Global\_SDG\_DSD.xml**.
   * You may also wish to click **Open URL** and inspect the structure. It should contain the Agency Scheme, Concept Scheme, Code Lists, and Data Structure (DSD).
3. Now that you have downloaded the global SDG DSD, you will customize it. Start the ILO DSD Constructor. It opens in the DSD Editor mode.
4. Load the SDG DSD: click the Import button and select the file **Global\_SDG\_DSD.xml**.
   * DSD Constructor can also download artefacts directly from the registry.



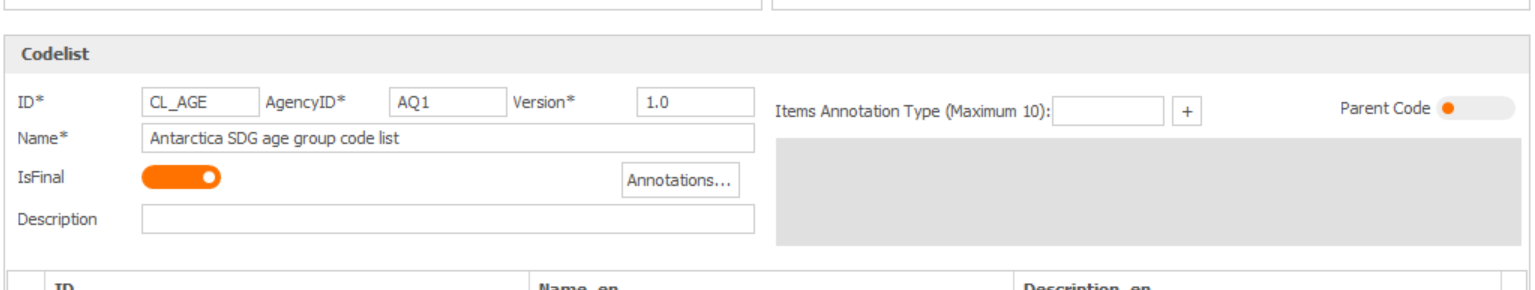
1. The DSD is now loaded. Double-click SDG DSD to populate the screen and edit the DSD.



1. In the Dimensions pane, double-click AGE to edit the dimension and its code list.



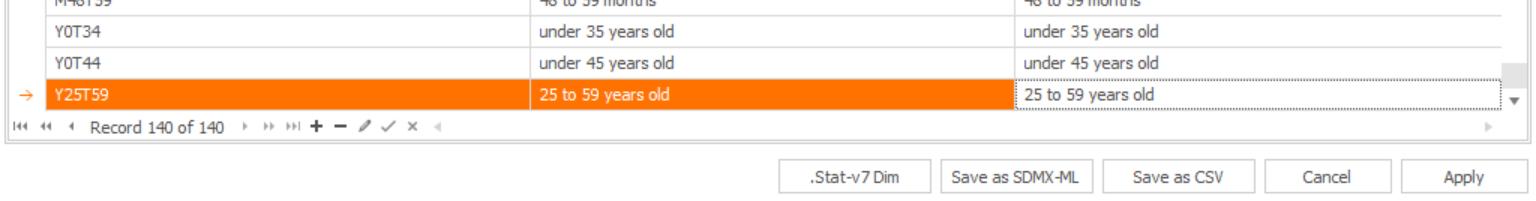
1. The **Edit Dimension** window opens. Observe that the concept ID, name, and other properties, as well as code list ID, name, and other properties, are displayed.
2. Before any modification, you must take ownership of affected artefact. In this case, you are updating the code list.
   * Type **AQ1** into the **AgencyID** box to assign ownership to agency AQ1.
   * Type 1.0 into the **Version** box.
   * Type **Antarctica SDG age group code list** into the code list **Name** box.



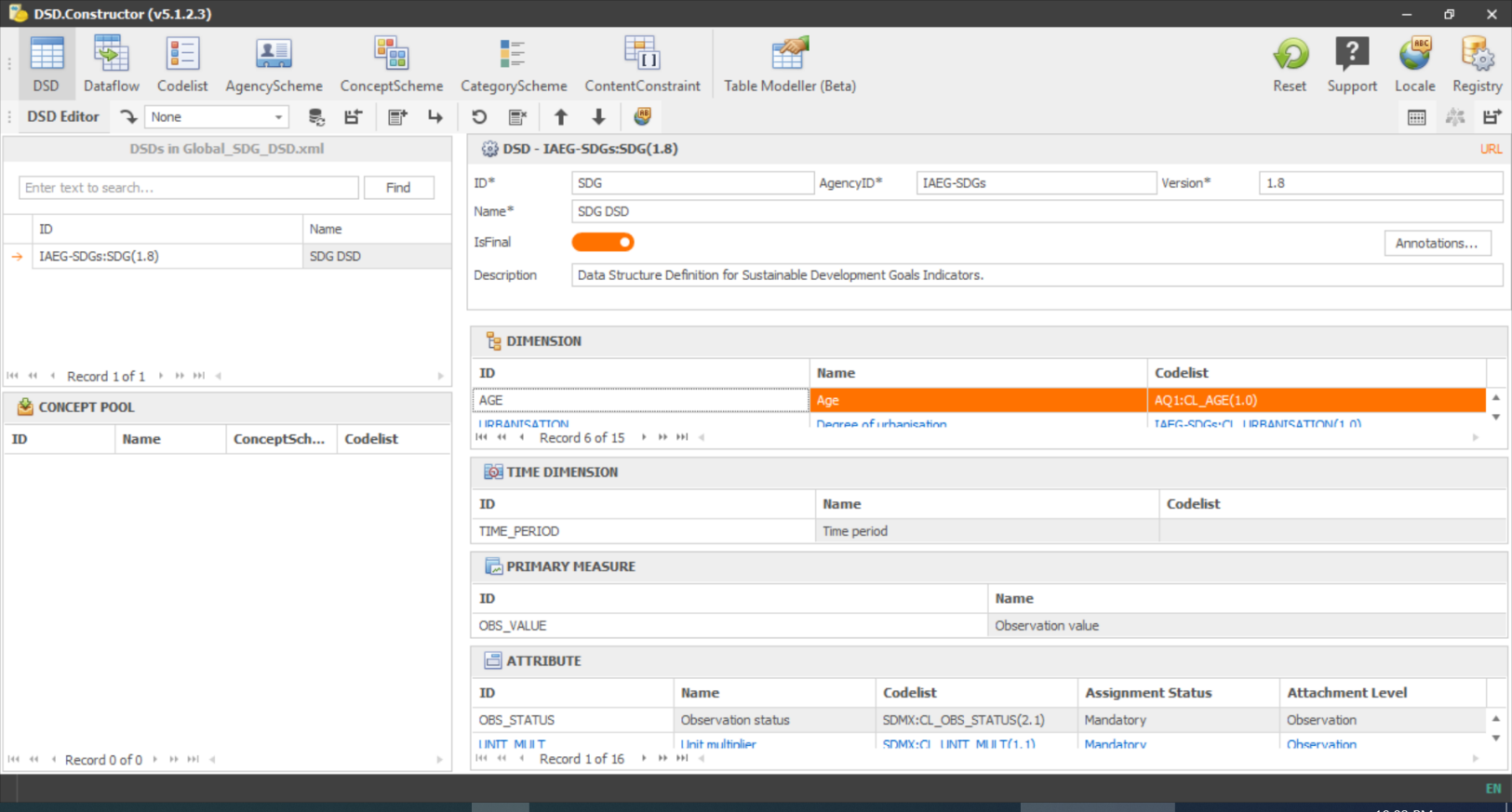
Note 1: Since this is Antarctica’s first age group code list, it’s a good idea to change the version to 1.0. Later, if the code list needs to be modified after the DSD is published, the code list version must change. See [Guidelines on the Versioning of SDMX Artefacts](https://sdmx.org/wp-content/uploads/Guidelines_on_versioning_v1_0.pdf) for further detail.

Note 2: Normally, while a code list is under development, the **IsFinal** property should be set to False. However, since in this case we are immediately releasing the DSD, we can leave this property at True.

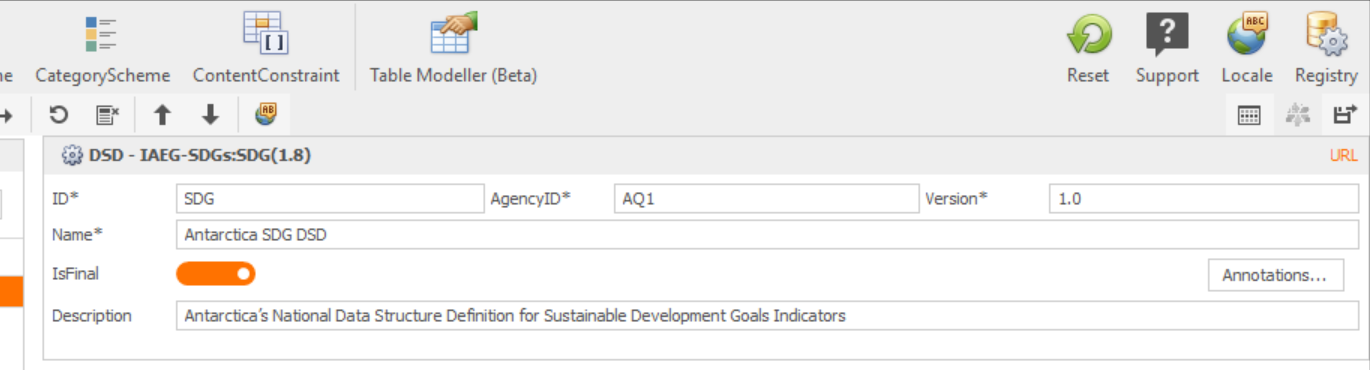
1. Click the + sign below the grid to add a new code.
2. A row is added. Type in the code as follows:
   * ID: **Y25T59**
   * Name\_en and Description\_en: **25 to 59 years old**

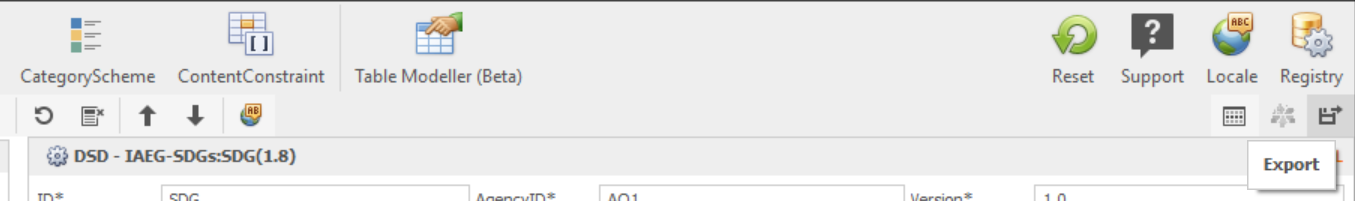
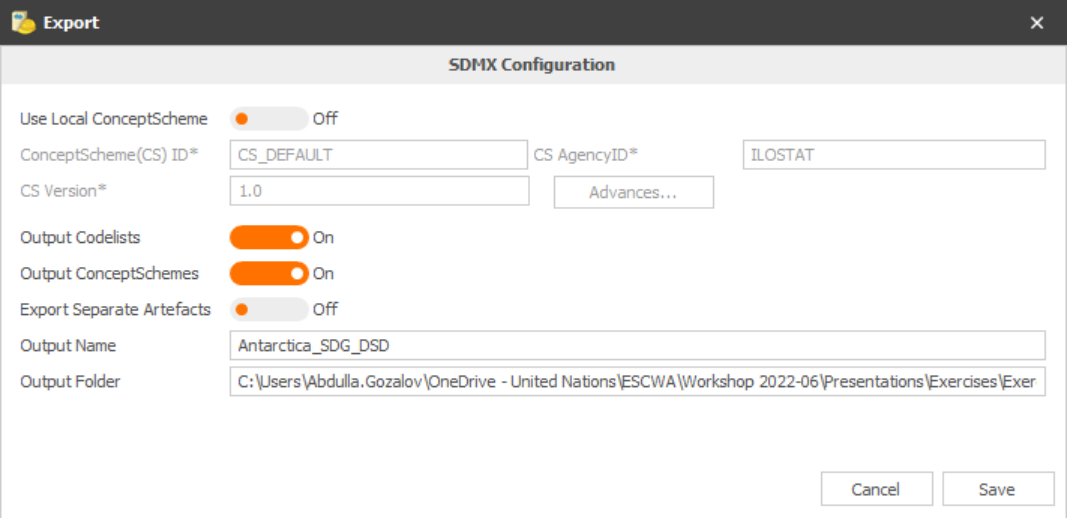
Then, click **Apply** to save the code list and close the window.

1. You return to the DSD Editor window. Note that identity of the code list assigned to the dimension **AGE** has changed.



1. Since a code list assigned to a dimension of the SDG DSD has been modified, you also need to take ownership of the DSD itself. Update the DSD properties as follows:
   * AgencyID: **AQ1**
   * Version: **1.0**
   * Name: **Antarctica SDG DSD**
   * Description: **Antarctica’s National Data Structure Definition for Sustainable Development Goals Indicators**.



1. Now, you can save the DSD into a file. Click the **Export** button.
2. The **Export** dialog comes up. Complete the fields as follows:
   * **Use Local ConceptScheme**: **Off** – we did not modify the global concept scheme.
   * **Output Codelists**: **On** – we want the code lists.
   * **Output ConceptSchemes**: **On** – we want the concept scheme.
   * **Export Separate Artefacts**: **Off** – want the Concept Scheme, Codelists, and DSD in the same file.
   * **Output Name**: **Antarctica\_SDG\_DSD**
   * **Output folder**: paste the address of the folder Exercise 6.
3. Congratulations! You have customized and saved a national SDG DSD. Later in the course, you will map Antarctica’s dataset to the customized DSD.
4. If you have time, you may wish to open the file Antarctica\_SDG\_DSD.xml in a browser (Chrome, Firefox, Edge) and inspect its contents.