13. Vehicles, new registrations (hist. input)
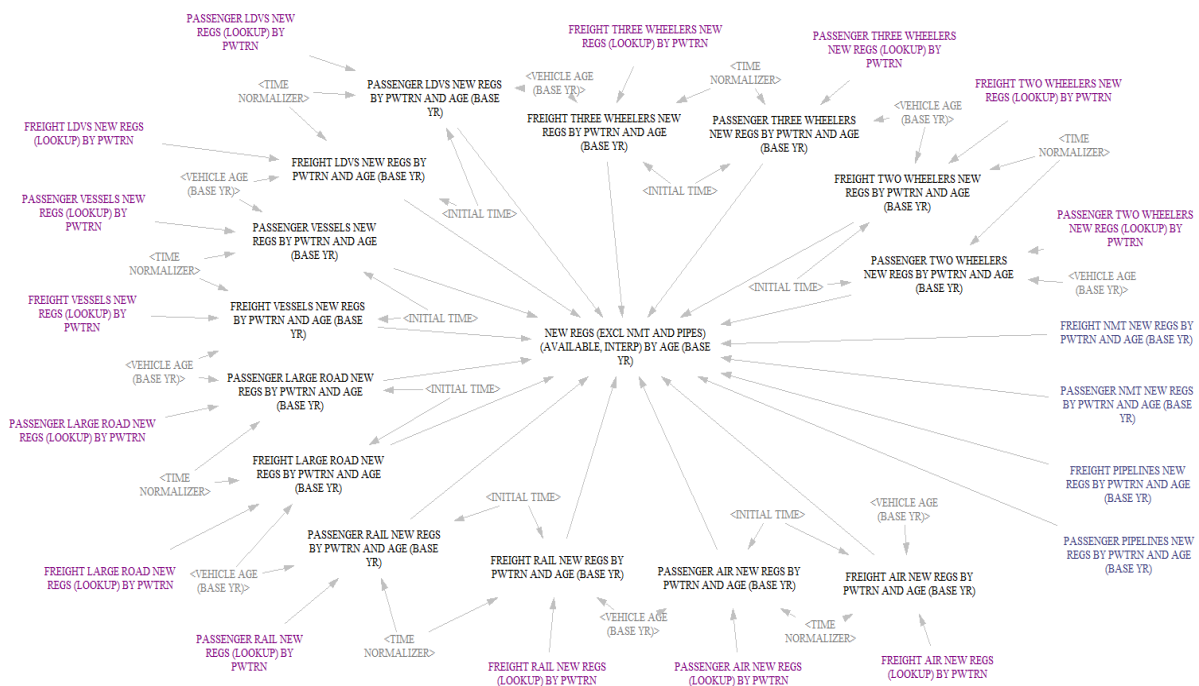
Overview

Target

The purpose of this view is to gather in one variable the data introduced by the user in the ForFITS Excel file concerning historical new vehicle registrations.

Structure

The general appearance of the view is shown in Figure 13.1. Inputs from the ForFITS Excel file are entered in the variable coloured in purple, combining information on the base year, 5 and 10 years earlier.

Figure 13.1   Vehicles, new registrations (historical input): general appearance of the Vensim sketch

Detailed description of the view

Inputs

The variables in purple gathers information introduced by the user in the ForFITS Excel file as "Newly registered vehicles" and "Powertrain group shares in each vehicle class" under the headings "INITIAL CONDITIONS", "Initial transport system", "New vehicle registrations", "Base year", "Base year-5" and "Base year-10" of the "Table of contents" tab. The tables requiring the user to enter data are located in the "User Inputs (BASE Y)" tab. Each service, mode, area and vehicle class, is covered in the tables concerning "Newly registered vehicles". The powertrain shares within each vehicle class are enterd in the "Powertrain group shares in each vehicle class" tables.

Each lookup variable contains the historical sales for a specific service and mode split by area, vehicle class and powertrain.

The internal circle of variables in black is equivalent to the purple circle but introducing the subscript age. These variables assign the sales at the base year as age "ZERO", those at the BASE YEAR-5 as age "V" and the sales at BASE YEAR-10 as age "X". The new registrations for years between the base year, base year -5 and base year -10 are obtained by means of linear interpolations. For this reason, it is a good practice to enter information that does not represent a specific year, but rather an average of the three (or five) years around the input point.

Outputs

The variable in the centre of the view is the result of putting together all the data for different modes and services and therefore it gathers the vehicle sales within the last ten years prior to the base year split by service, mode (except non-motorised transport and pipelines), area, vehicle class, powertrain and age (from ZERO to X). It is used in the view "vehicles, new registrations (historical)", which defines a full profile of historical new vehicle registrations for the ForFITS model.