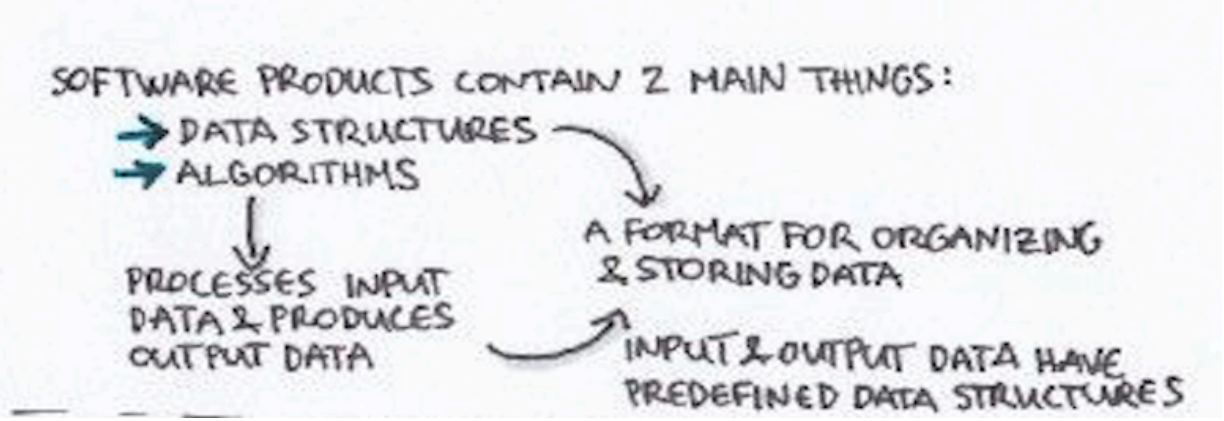
Data Model

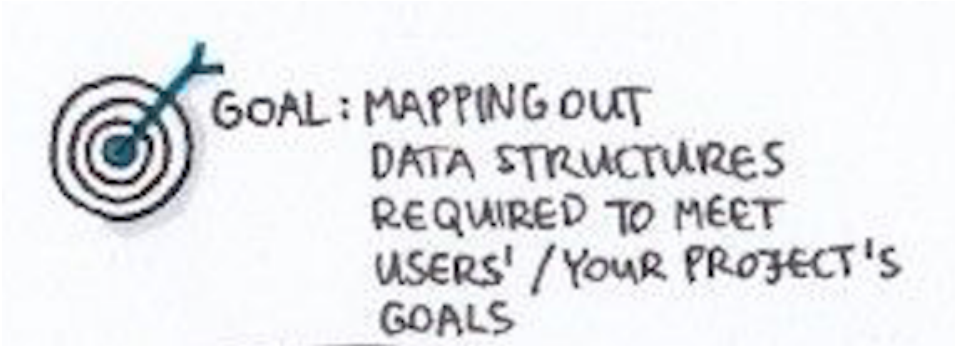
Vanshika Kansal

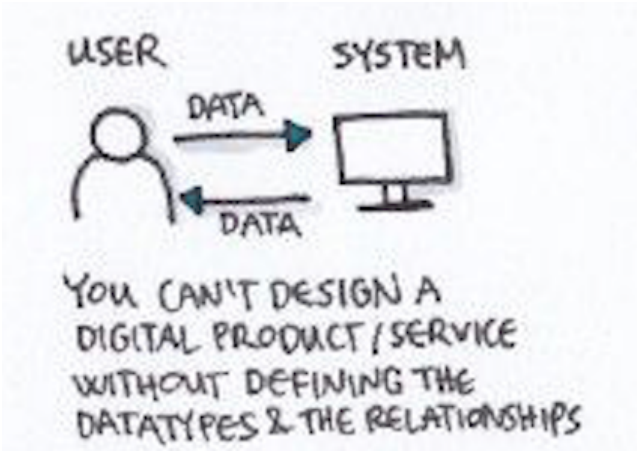
OU-LE3/SDC-FR

what?*

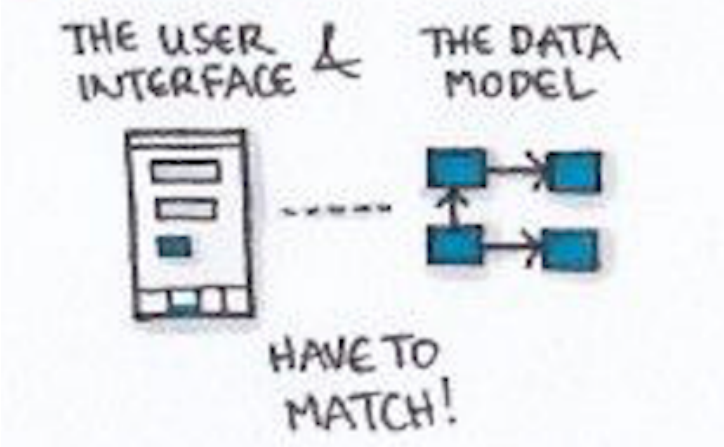
DATA MODEL



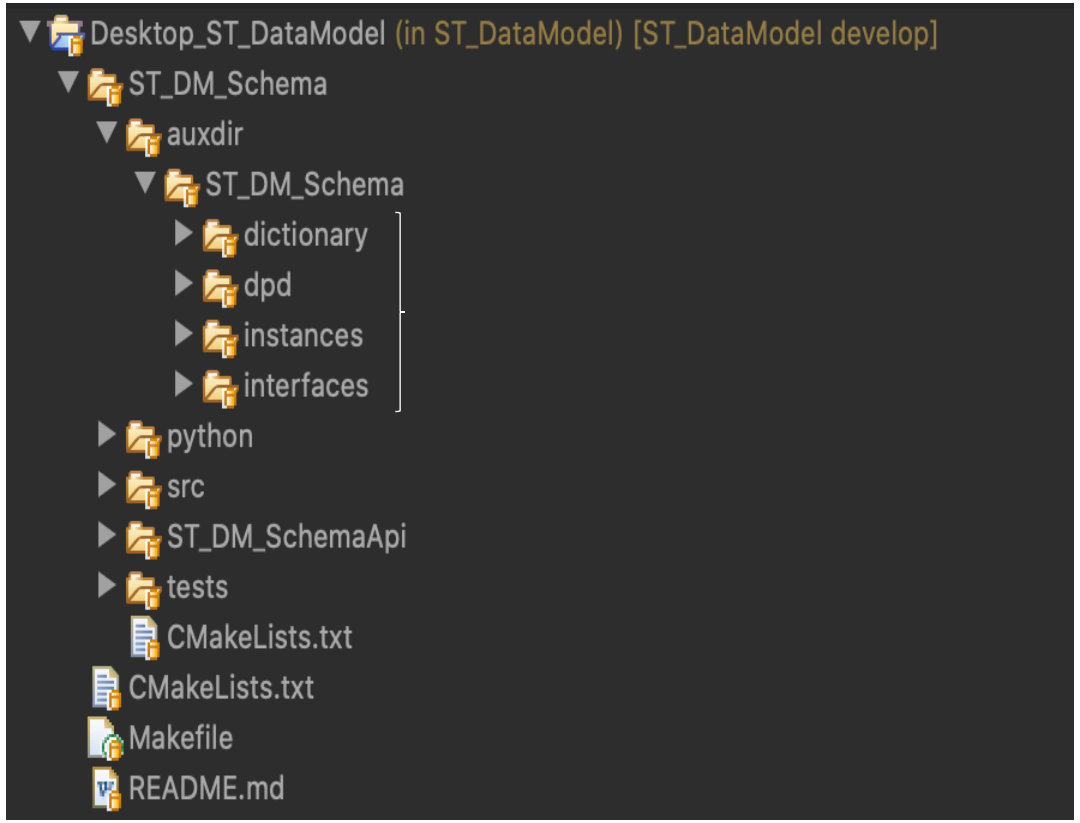




A Data Model is no more than a set of rules that describe how we transfer information.



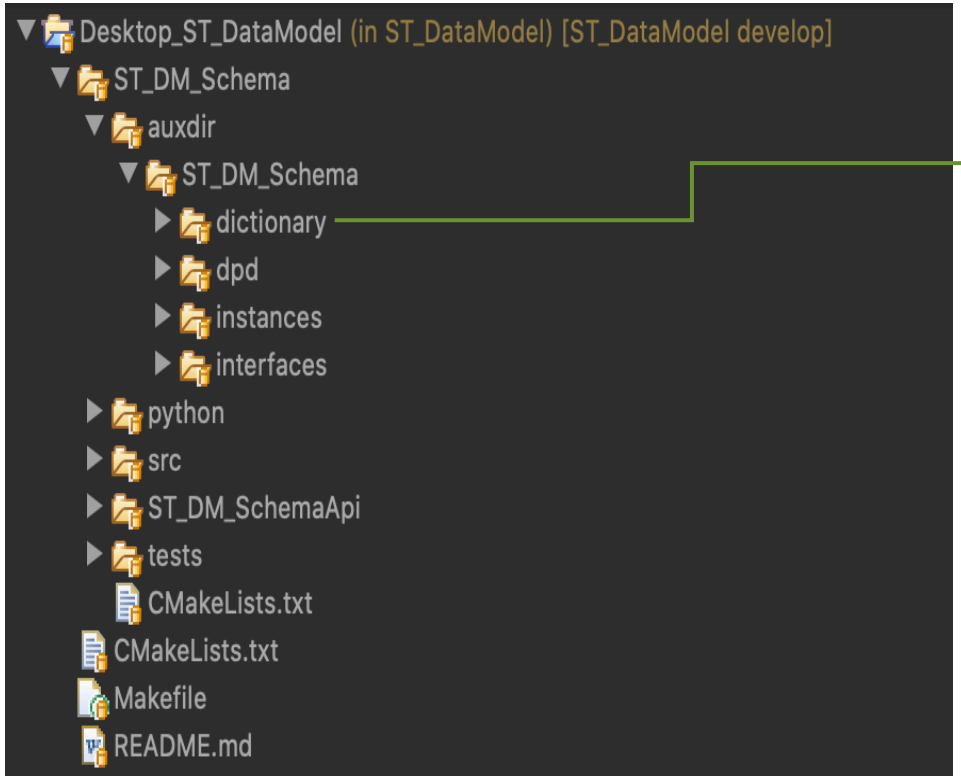
Structure of Euclid Common Data Model

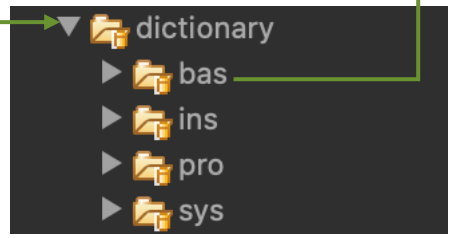


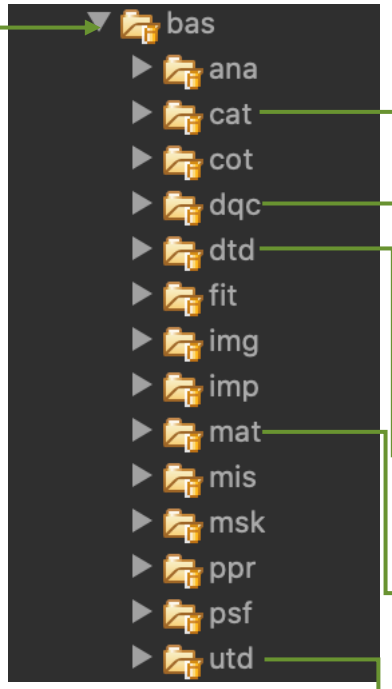
1. Dictionary: It defines internal Euclid data types (done via XSD elements) & preserve from re-definition.
2. dpd (Data Product Definition): Formal definition of data products which depend on each PF.
3. Instances: It contains a list of controlled objects created according to the dictionary such as fits file format.
4. Interfaces: It describe the non-scientific data exchange. It uses the definition defined in dictionary to create non-persistent element for data exchange.

Structure of Euclid Common Data Model

Structure of Euclid Common Data Model







Definition of catalog

Data Quality & control definitions

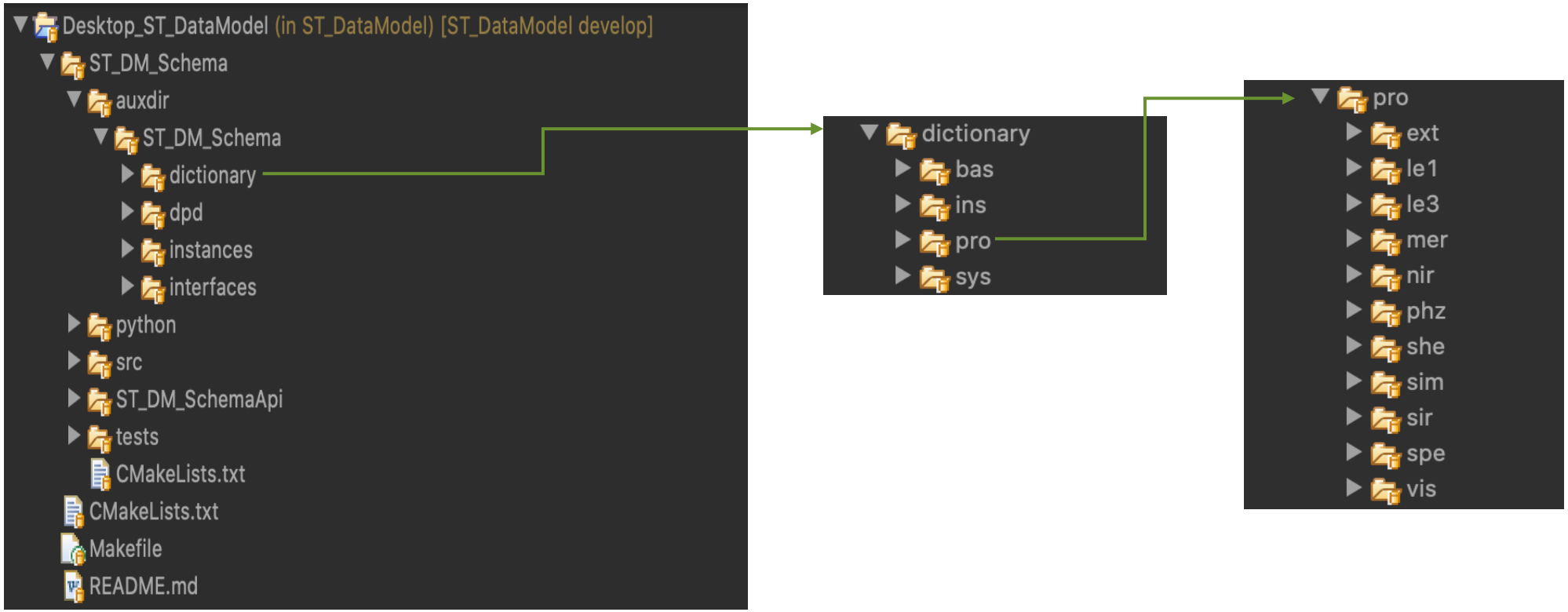
Data types

Mathematical Definitions

Units definitions

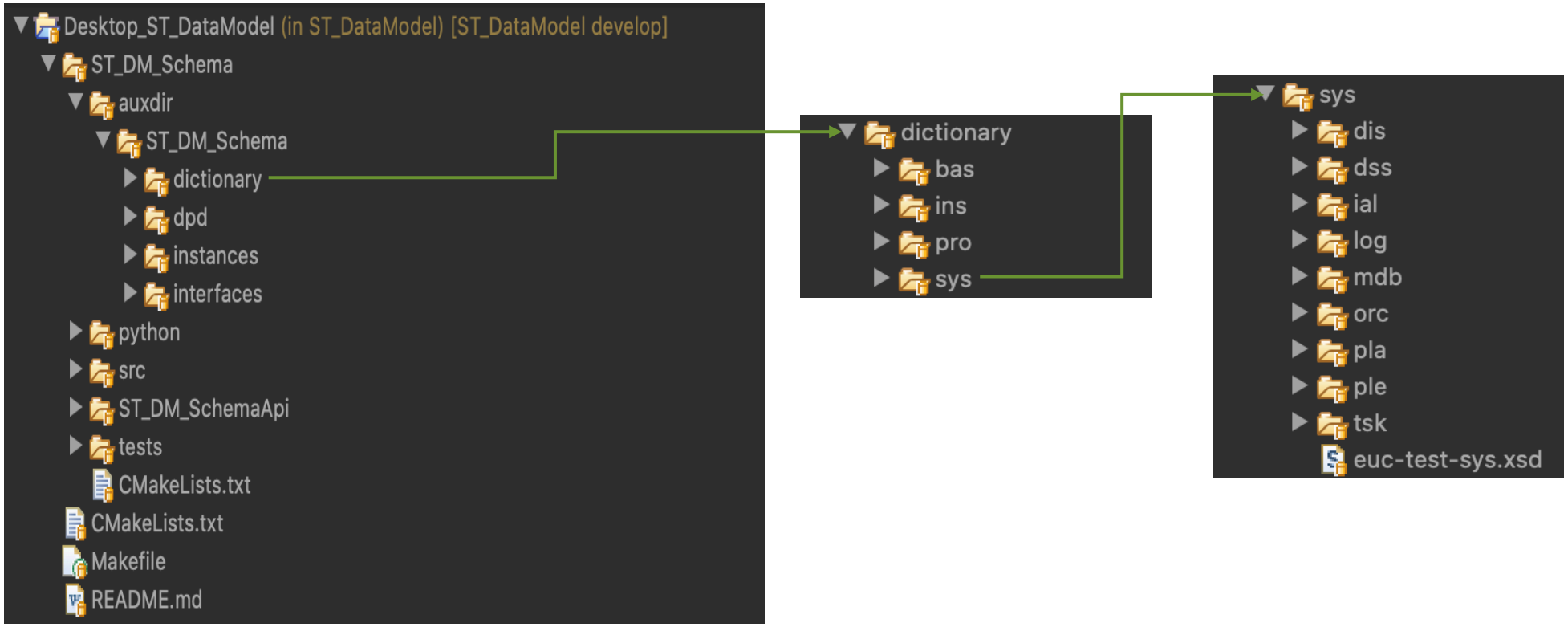
bas (acronym of basic): This is common namespace for data items shared by all Processing Functions

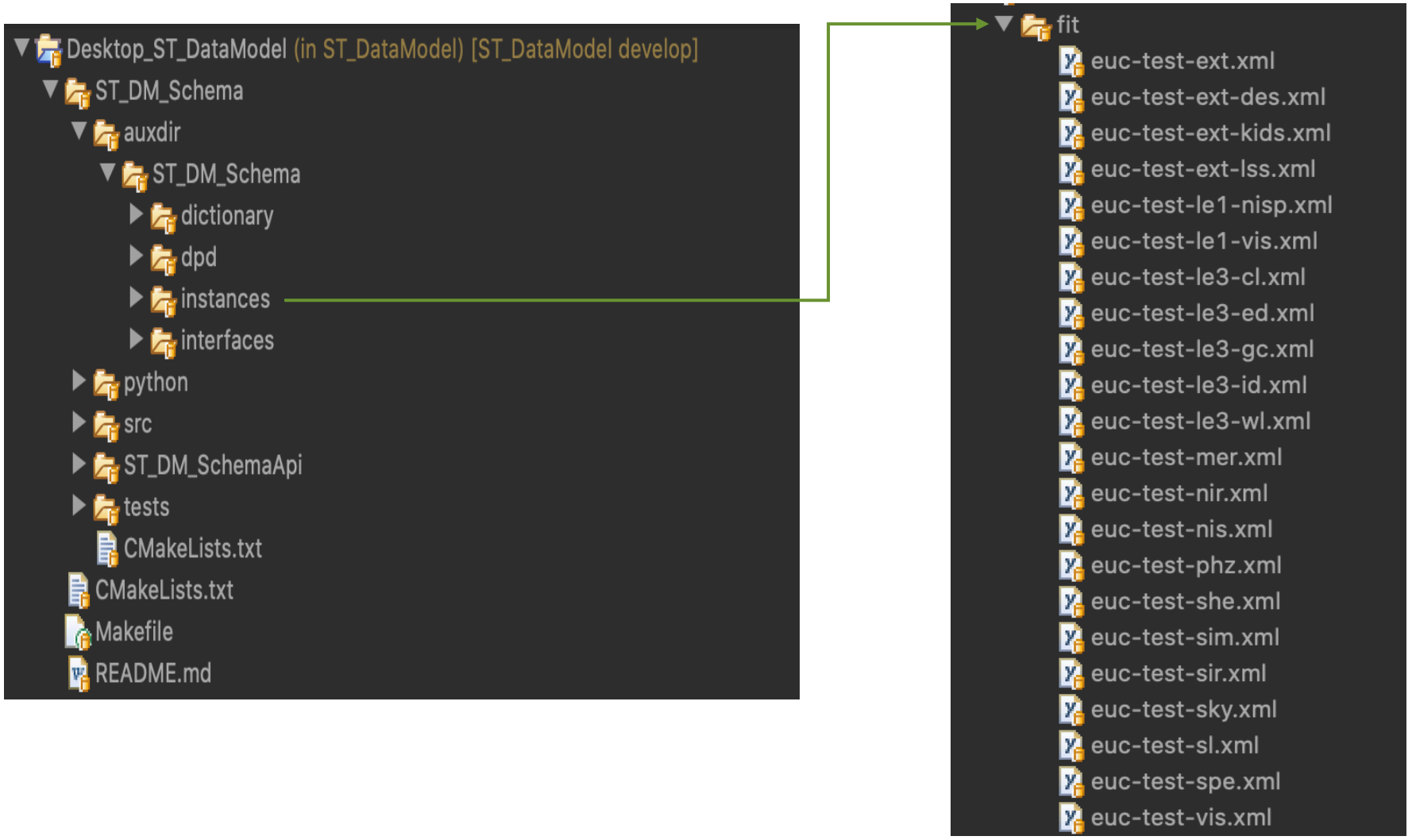
Structure of Euclid Common Data Model



pro (acronym of Processing): It is related to the different PFs (**processing functions**) of the overall Euclid processing pipeline.

Structure of Euclid Common Data Model



sys (acronym of system): It is the common namespace for processing and operational data types

Structure of Euclid Common Data Model