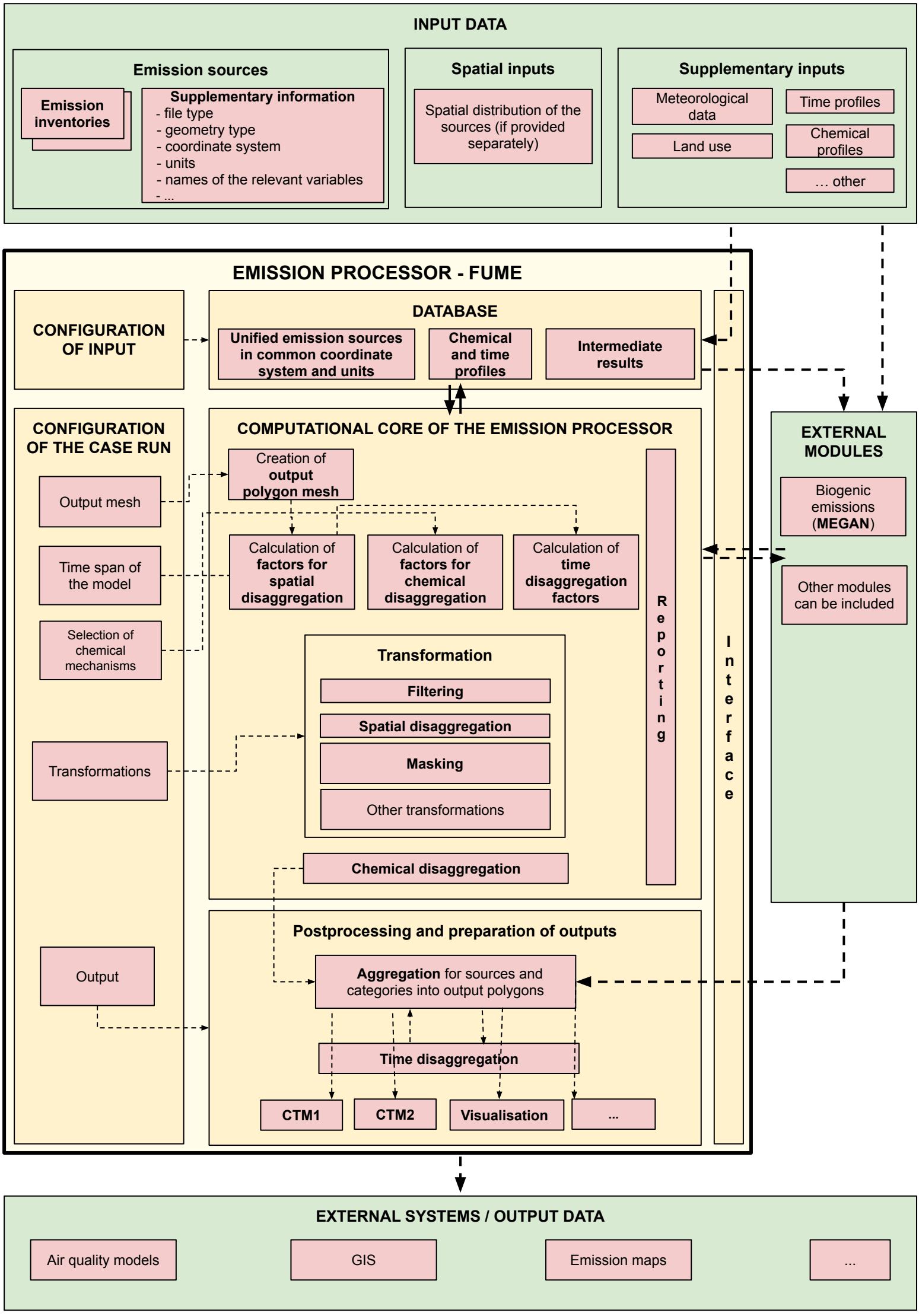
INPUT DATA
Emission sources
Emission inventories
Supplementary information
- file type
- geometry type
- coordinate system
- units
- names of the relevant variables
- ...
Spatial inputs
Spatial distribution of the sources (if provided separately)
Supplementary inputs
Meteorological data
Land use
Time profiles
Chemical profiles
… other
EMISSION PROCESSOR - FUME
CONFIGURATION OF INPUT
DATABASE
Unified emission sources in common coordinate system and units
Chemical and time profiles
Intermediate results
CONFIGURATION OF THE CASE RUN
COMPUTATIONAL CORE OF THE EMISSION PROCESSOR
Creation of output polygon mesh
Output mesh
Time span of the model
Selection of chemical mechanisms
Calculation of factors for spatial disaggregation
Calculation of factors for chemical disaggregation
Calculation of time disaggregation factors
Transformations
Transformation
Filtering
Spatial disaggregation
Masking
Other transformations
Chemical disaggregation
Reporting
Interface
EXTERNAL MODULES
Biogenic emissions (MEGAN)
Other modules can be included
Postprocessing and preparation of outputs
Output
Aggregation for sources and categories into output polygons
Time disaggregation
CTM1
CTM2
Visualisation
...
EXTERNAL SYSTEMS / OUTPUT DATA
Air quality models
GIS
Emission maps
...