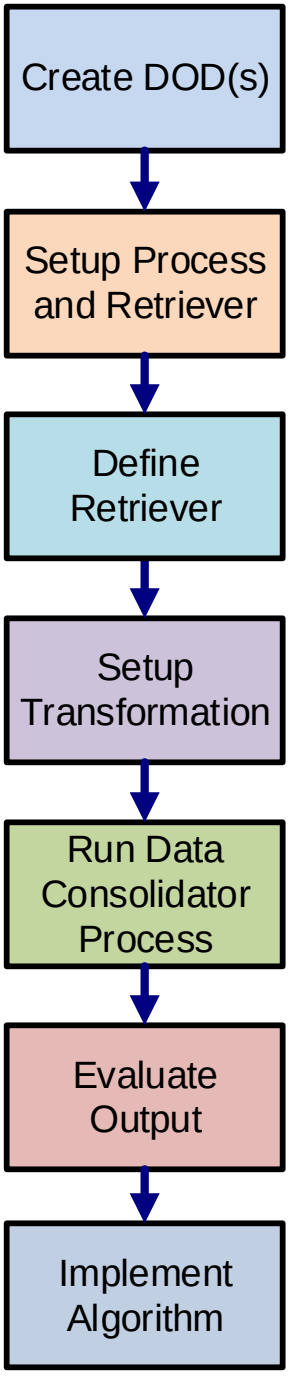
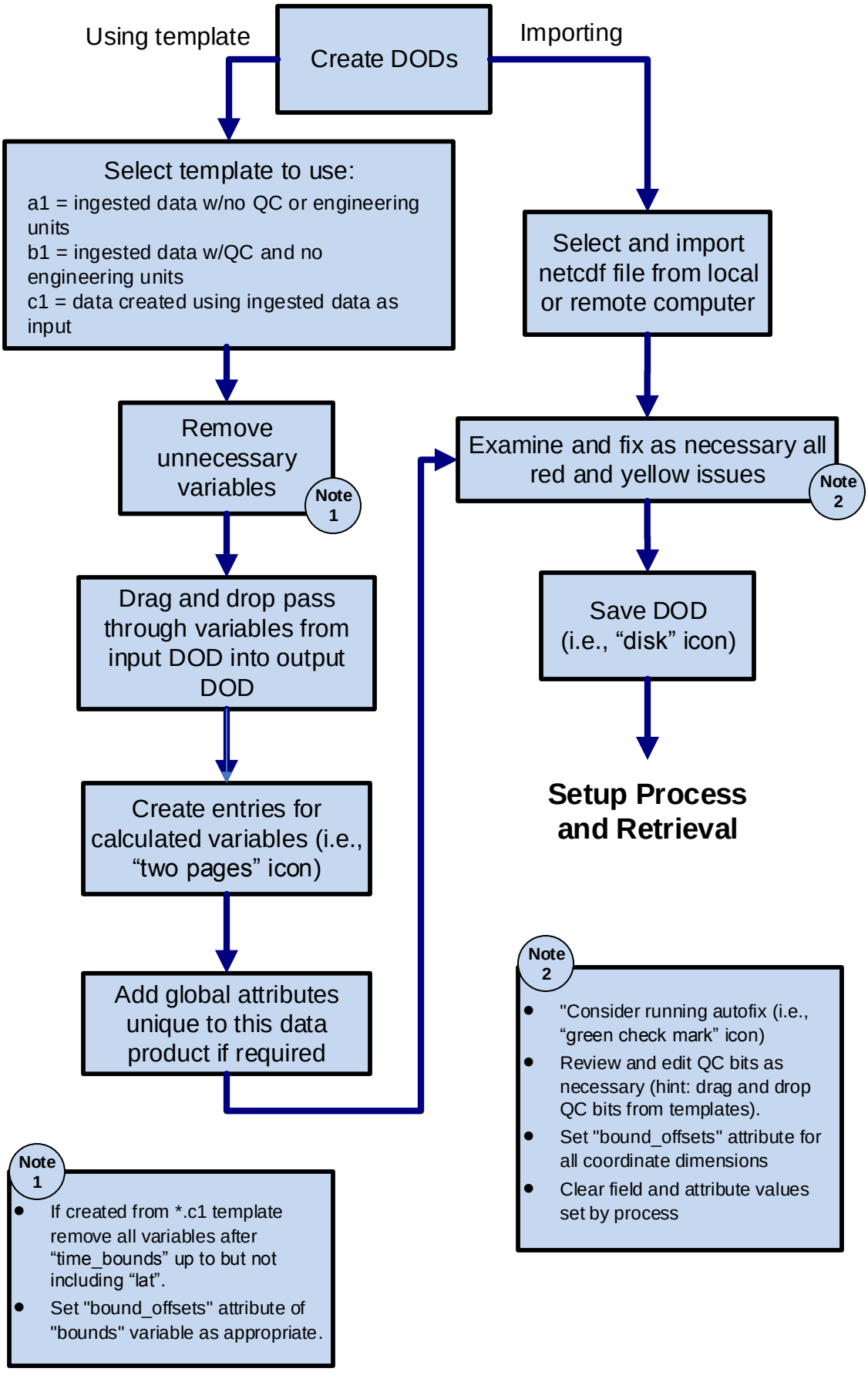
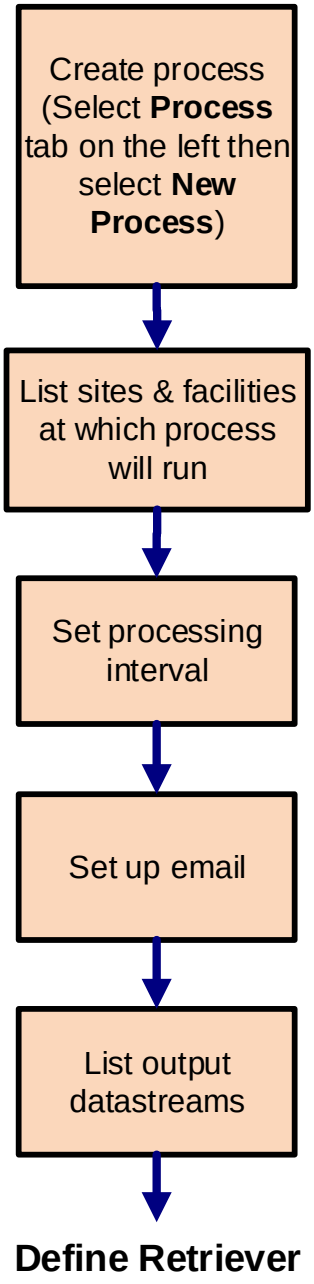
ADI Development Steps



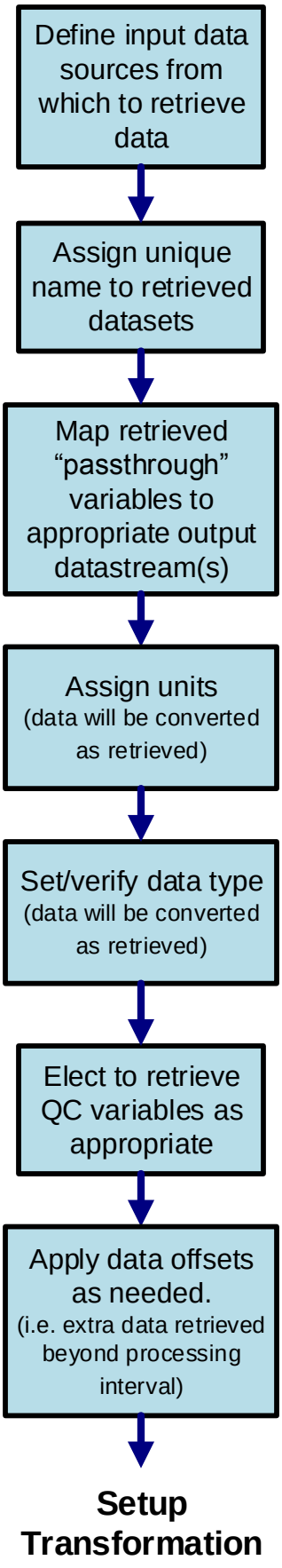
Create DODs


Create DODs
Using template
Importing
Select template to use:
a1 = ingested data w/no QC or engineering units
b1 = ingested data w/QC and no engineering units
c1 = data created using ingested data as input
Remove unnecessary variables
Note 1
Drag and drop pass through variables from input DOD into output DOD
Create entries for calculated variables (i.e., “two pages” icon)
Add global attributes unique to this data product if required
Select and import netcdf file from local or remote computer
Examine and fix as necessary all red and yellow issues
Note 2
Save DOD (i.e., “disk” icon)
Setup Process and Retrieval
Note 1
If created from *.c1 template remove all variables after “time_bounds” up to but not including “lat”.
Set "bound_offsets" attribute of "bounds" variable as appropriate.
Note 2
"Consider running autofix (i.e., “green check mark” icon)
Review and edit QC bits as necessary (hint: drag and drop QC bits from templates).
Set "bound_offsets" attribute for all coordinate dimensions
Clear field and attribute values set by process

Setup Process and Retrieval



Define Retriever



Setup Transformation

Rename grid from "coords1" to a meaningful name (e.g., one_min)

For each coordinate grid select:

- Transform type (subsample, average, or interpolate)
- Bin alignment
- Method of creating output grid (i.e., map to retrieved coordinate grid or define static grid)

Define transform parameters on input datastreams

Note 1

Define transform parameters for coordinate system as appropriate

Note 2

Run Data Consolidator Processes

Note 1

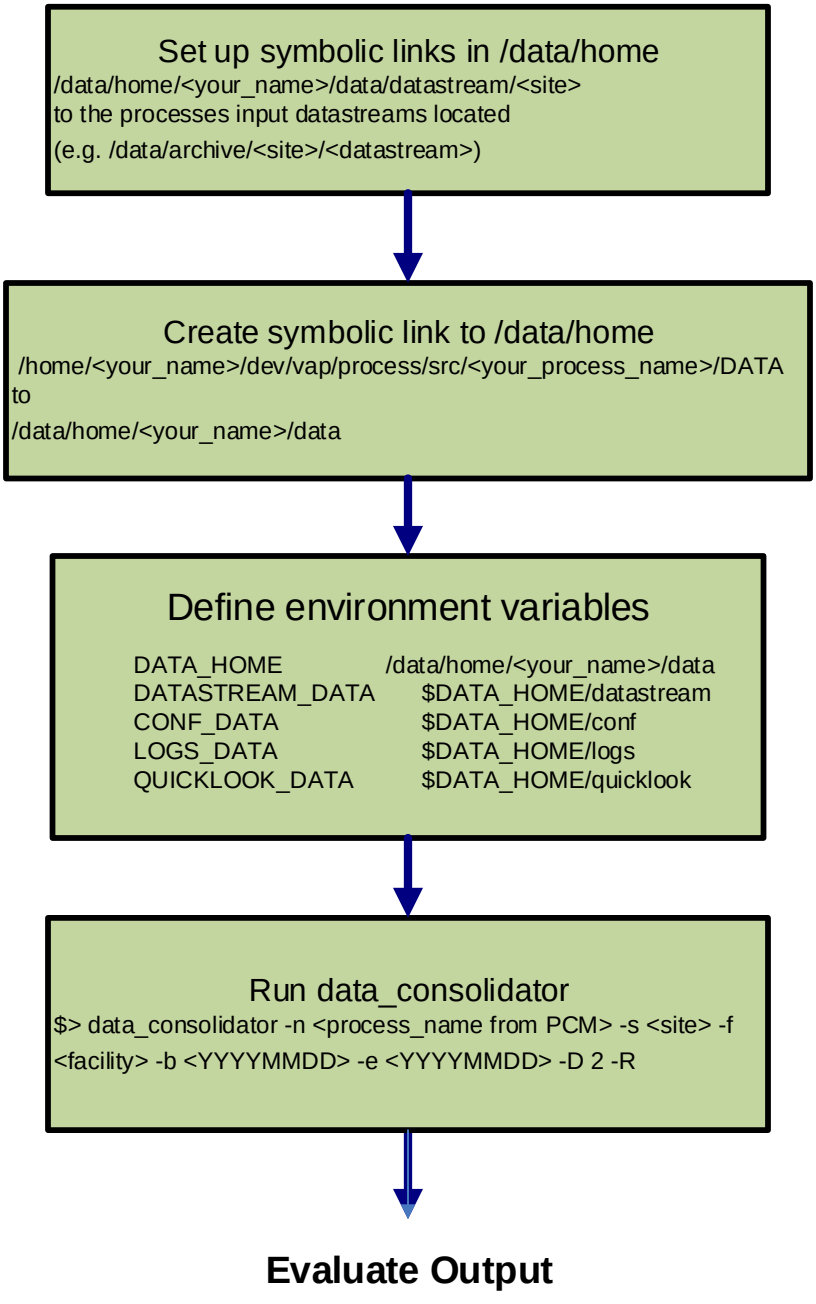
https://engineering.arm.gov/ADI_doc/framework.html#setting-transform-parameters

- If input datastream is not an ARM production datastream define bin width and alignment of input datastream(s).
- set the following parameters of input datastream(s) as appropriate (start, width, range, qc_bad, missing_value, qc_mask)

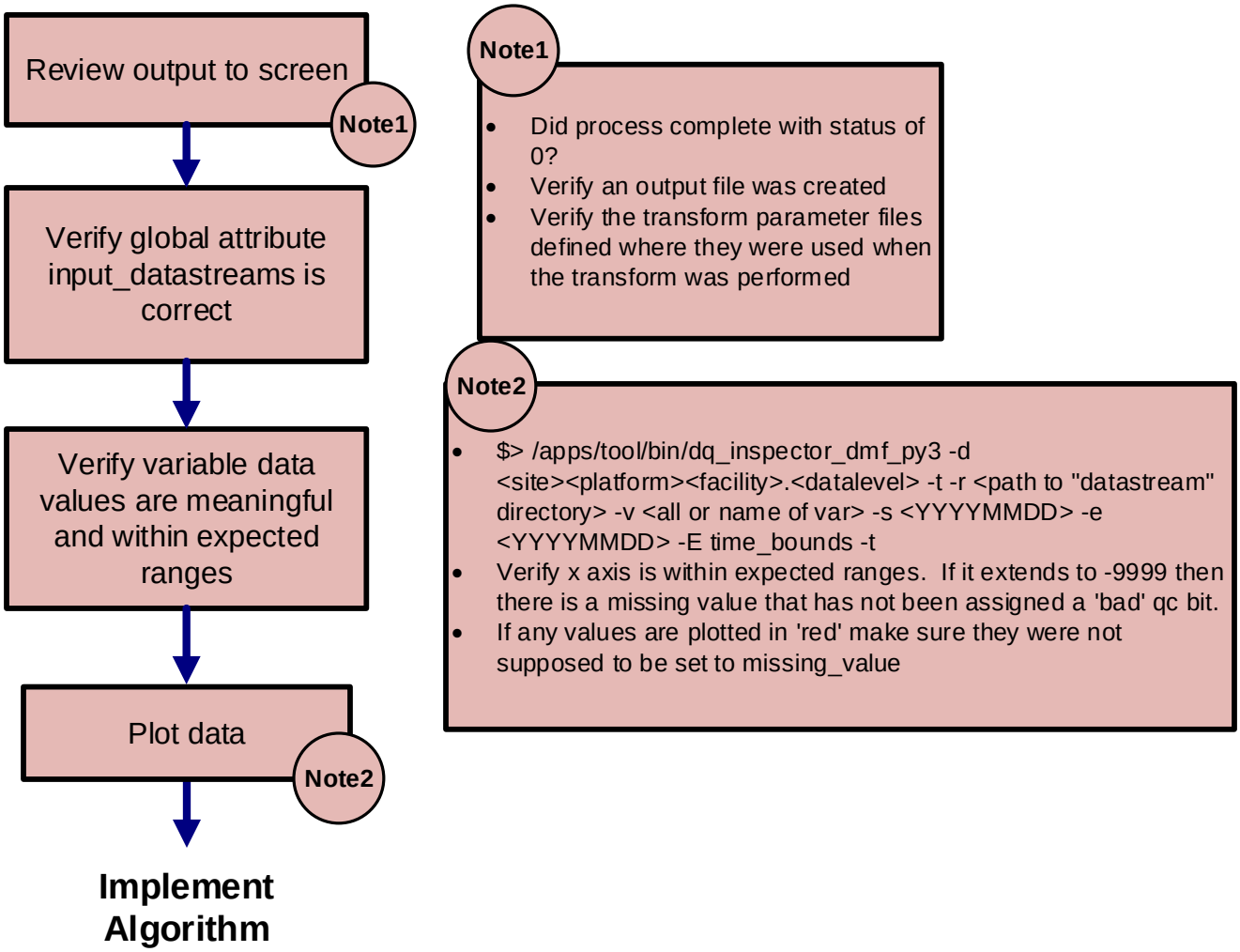
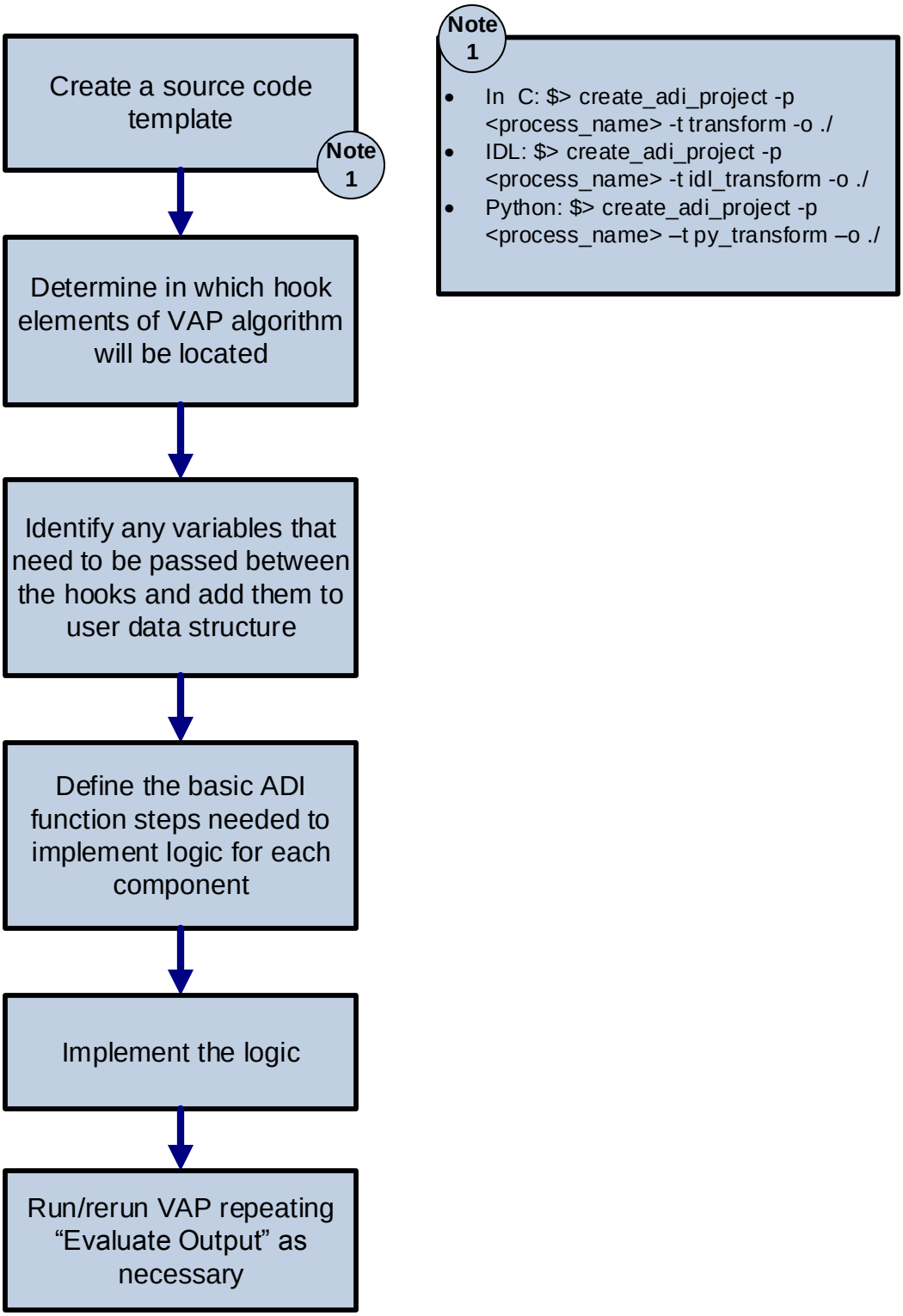
Note 2

- If additional transform parameters are needed on the coordinate system, define these in a transformation configuration file.
- The file that documents transform parameters applied to coordinate systems must be given the same file name as the coordinate system grid as assigned in the Coor. System column of the PCM retriever table
- Transform configuration files for corrdinate systems are located in $VAP_HOME/conf/vap/<PCM process name>/transform

Run Data Consolidator Processes



Evaluate Output



Implement Algorithm