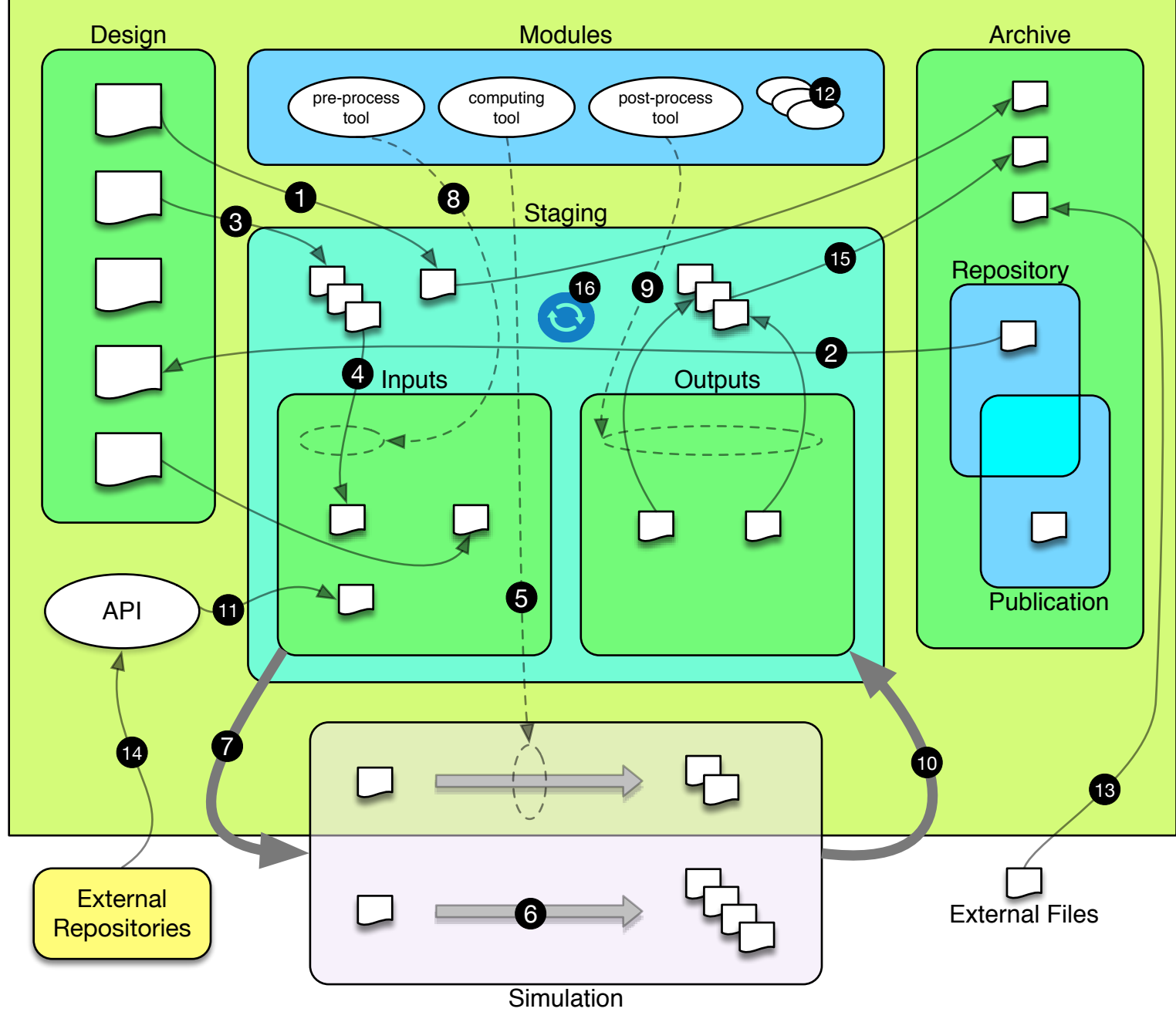


# DesignSafe CI



- ➊ Design document goes to staging area and to archiving (may not be used as an input, but wants to be archived)
- ➋ Design document retrieved from repository for modification or as a starting point
- ➌ Design document goes to staging area (it will be used as an input)
- ➍ A document from the staging area is pre-processed with some modules and it is used as an input
- ➎ Simulation may happen inside of the CI. Modules may be available for running computations in the cloud
- ➏ Simulation may happen outside of the CI
- ➐ Inputs are transferred to where the simulation runs
- ➑ A pre-process module is used to transform an input before feeding it to the simulation
- ➒ A post-process module is used to transform outputs
- ➓ Outputs from the simulation are transferred back to CI
- ➔ An input file is created using a wrapped API from an external repository (see 14)
- ➔ Multiple modules may be available for computation, processing, etc.
- ➔ External files can be added at any stage
- ➔ External sources can be wrapped in API's, automatically attaching provenance information
- ➔ Result is sent to be archived (and possibly tagged for publication)
- ➔ Processes in staging can be iterated and inputs and results are kept version controlled