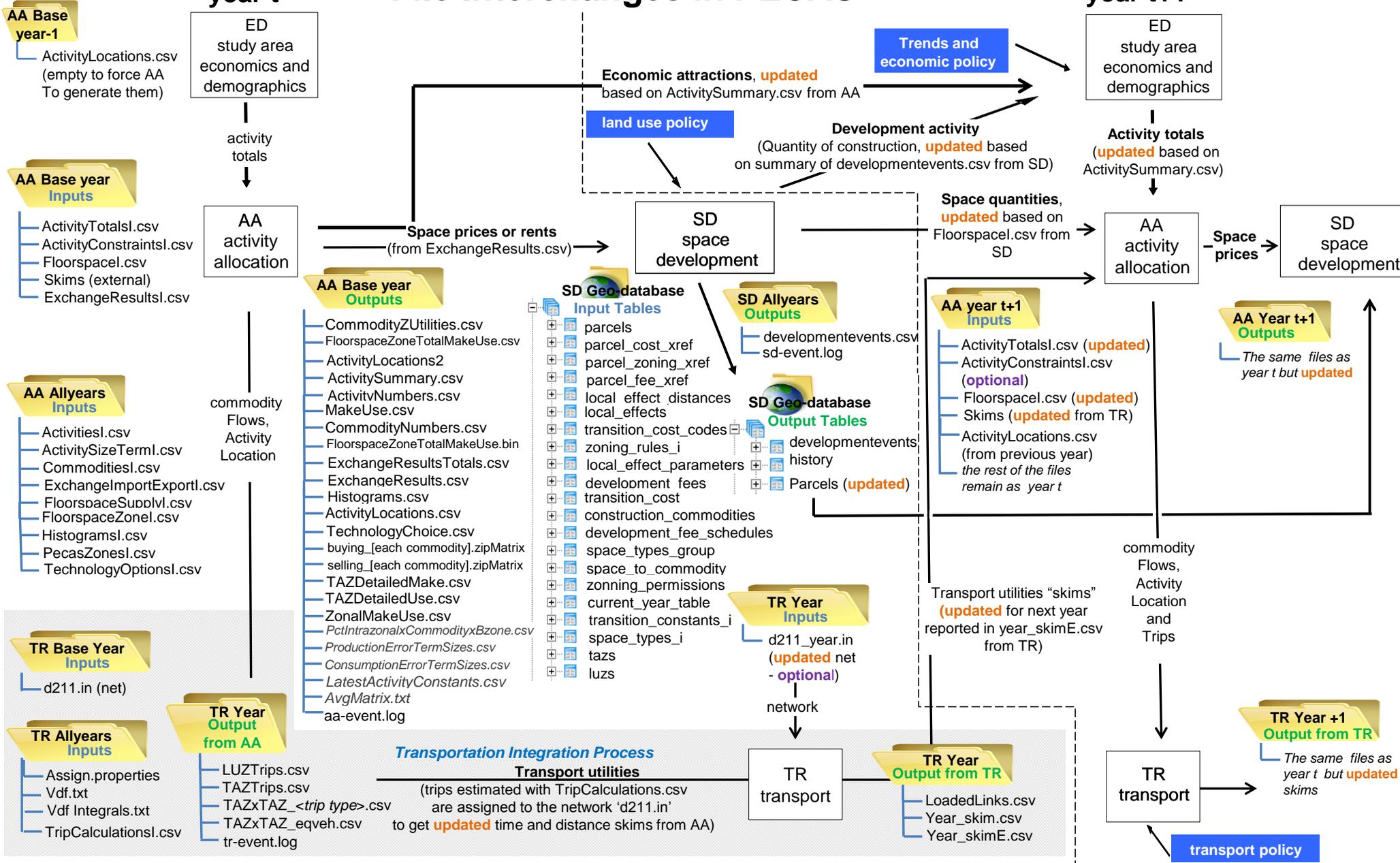


File Interchanges in PECAS



AA and TR file description

AA Input Files	Description
[ActivityTotals.csv]	Modelwide total production quantity of activity
[ActivityConstraints.csv]	Total production quantity of activity by TAZ and/or LUZ in the base year
[Floorspace.csv]	Quantities of total floorspace inventory by TAZ (or by LUZ)
[Skims.csv]	Time and distance skims by type of vehicles between OD pairs
[ActivityLocations.csv]	Proportion of modelwide quantity of production activity a in zone z in the previous period
[ExchangeResults.csv in previous folder or ExchangeResultsI.csv]	Starting prices for commodities (goods, services, labor and floorspace) by LUZ (optional good starting prices improves runtime)
[ActivitiesI.csv]	Activities definitions/parameters
[ActivitySizeTermsI.csv]	System for calculating size terms by zone z and activity a (can normally be blank)
[CommoditiesI.csv]	Commodities definition/parameters including transportation-based cost coefficients by commodity
[ExchangeImportExportI.csv]	Import/export function coefficients by beta zone
[FloorspaceSupplyI.csv]	Parameters by floorspace category for short term supply function
[FloorspaceZoneI.csv]	TAZ to LUZ correspondence table
[HistogramsI.csv] (optional)	Trip length/time distribution input
[PECASZonesI.csv]	LUZ description (number, name and type)
[TechnologyOptionsI.csv]	Industry and household technology options and related commodity make and use coefficients

AA Output Files	Description
[CommodityZUtilities.csv]	Commodity make and use quantities and composite utilities regarding buying and selling by LUZ
[FloorspaceZoneTotalMakeUse.csv]	Commodity quantities make and use by TAZ
[FloorspaceZoneTotalMakeUse.bin] (binary)	Commodity quantities make and use by TAZ (binary)
[ActivityLocations.csv] [ActivityLocations2.csv]	Activity quantities and composite utilities for LUZ and TAZ
[ActivitySummary.csv]	Modelwide composite utilities of production by activity
[ActivityNumbers.csv]	The index numbers used to identify activities in ZonalMakeUse.csv (only if stringsInZonalMakeUse is set to false in properties file)
[MakeUse.csv]	Summary totals from ZonalMakeUse.csv
[CommodityNumbers.csv]	The index numbers used to identify commodities in ZonalMakeUse.csv (only if stringsInZonalMakeUse is set to false in properties file)
[ExchangeResultsTotal.csv]	Summary totals from ExchangeResults.csv
[ExchangeResults.csv]	Prices and quantities for each commodity exchange (by LUZ and commodity type)
[Histograms.csv]	Trip Length distribution histogram output
[TechnologyChoice.csv]	Outcome of technology choice by each activity in each LUZ
[buying_commodity.zipMatrix]	Internal commodity dollar flows (goods, services, labor) between exchange LUZ and consumption LUZ
[selling_commodity.zipMatrix]	Internal commodity dollar flows (goods, services, labor) between production LUZ and exchange LUZ
[ZonalMakeUse.csv] [ZonalMakeUse.bin] (binary)	Solved LUZ industry-commodity production and consumption technical coefficients (binary)
[TAZDetailedMake.csv]	Commodity make quantities split into TAZ zones
[TAZDetailedUse.csv]	Commodity use quantities split into TAZ zones

AA Output Files - Diagnostic files	Description
[PctIntrazonalxCommodityxBzone.csv]	Portion of commodity that is traded intrazonal
[ProductionErrorTermSizes.csv]	Importance of commodity variety on activities, for produced commodities, to help establish commodity dispersion parameters
[ConsumptionErrorTermSizes.csv]	Importance of commodity variety on activities, for consumed commodities, to help establish commodity dispersion parameters
[LatestActivityConstants.csv]	Use ActivityLocations.csv instead (included for backwards compatibility)
[AverageMatrix.txt]	Partial derivative matrix (change in supply-demand w.r.t. change in average prices), to diagnose global imbalance and matrix singularities (only produced if matrix becomes singular)

TR Input Files	Description
[d211.in]	Network of study area
[Assign.properties]	Assignment software property file
[Vdf.txt]	Volume-delay functions by type of road
[VdfIntegrals.txt]	Integrals of volume-delay functions by type of road
[TripsbyODpairs.csv]	O-D matrix by LUZ (Initial year given trips for calibrating TR)

Transportation Output Files produced by AA (if)	Description
[LUZTrips.csv]	Trips by vehicle type and occupancy by OD pair (LUZ) (produced by AA)
[TAZTrips.csv]	List of trips by type and TAZ pair
[TAZxTAZ_<trip type>.csv]	Trips made by OD pair (TAZ)
[TAZxTAZ_eqveh.csv]	Total Trips in equivalent vehicles by OD pair (TAZ)
Transportation Output Files produced by TR	Description
[LoadedLinks.csv]	Results from network assignment. Volumes by links
[Year_skim.csv]	Time and distance skims for a specific year
[Year_skimE.csv]	Time and distance skims for a specific year including external zones

PECAS System Logging Files	Description
[log4j.xml]	Controls which messages are written to logging files and optional logging window.
[event.log]	Temporary file for logging of current module (moved to [aa-event.log], [sd-event.log] or [tr-event.log] after module completes)
[aa-event.log]	logging file for aa, contains runtime diagnostic messages and reports errors and convergence
[sd-event.log]	log messages for sd, contains runtime diagnostic messages and reports errors
[tr-event.log]	logging file for tr, contains runtime diagnostic messages and reports errors and convergence

SD table description

SD Input Tables	Description
parcels	List of parcels or grid cells containing all the land in the model region, updated by SD over time
parcels	List of original parcels or grid cells containing all the land in the model region in the base year, used to create <i>parcels</i>
parcels_cost_xref	Relationship between cost codes and parcels by year (created by spatial overlay of parcels with cost definition polygons)
parcel_zoning_xref	Relationship between zoning and parcels by year (created by spatial overlay of parcels with zoning polygons)
local_effect_distances	Distances and similar measures to each parcel by year for each local effect (mostly created by GIS proximity analysis)
local_effects	List and definitions of local effects used to modify rents and/or costs
transitions_cost_codes	List of cost codes
zoning_rules_i	List of zoning rules
local_effect_parameters	Function definitions for local effects on rents and/or costs
development_fees	Fees for development for each combination of space type and development fee schedule
transition_cost	Hard costs (including construction and demolition) for each combination of space type and transition cost code
construction_commodities	Used to constrain total amount of construction in SD to macro economic measures from AA
development_fee_schedules	List of fee schedules
space_types_group	Used to constrain total amount of construction in SD to macro economic measures from AA
space_to_commodity	Relationship between space types in SD (buildings occupying land) and space commodities in AA (suites/residences occupied by households/industry)
zoning_permissions	Permissions and other regulations for each combination of space type and zoning rule.
current_year_table	Used to tell SD which year is currently being simulated
transition_constants_i	Calibration constants for each transition
space_types_i	List and definitions of space types (buildings occupying land)
tazs	List of TAZ zones used in travel model and SD
luzs	List of LUZ zones for which AA generates average rents by space commodity