

UPlan 2.6

What's New

9/26/2007



What's New

- ▶ Variants
- ▶ Data Loader
- ▶ Functional Changes
- ▶ Error Checking
- ▶ Stability Improvement
- ▶ Analysis

Variants

▶ Buffer Class

- A grouping of attractions and discouragements that apply to one or more land uses

▶ Land Use

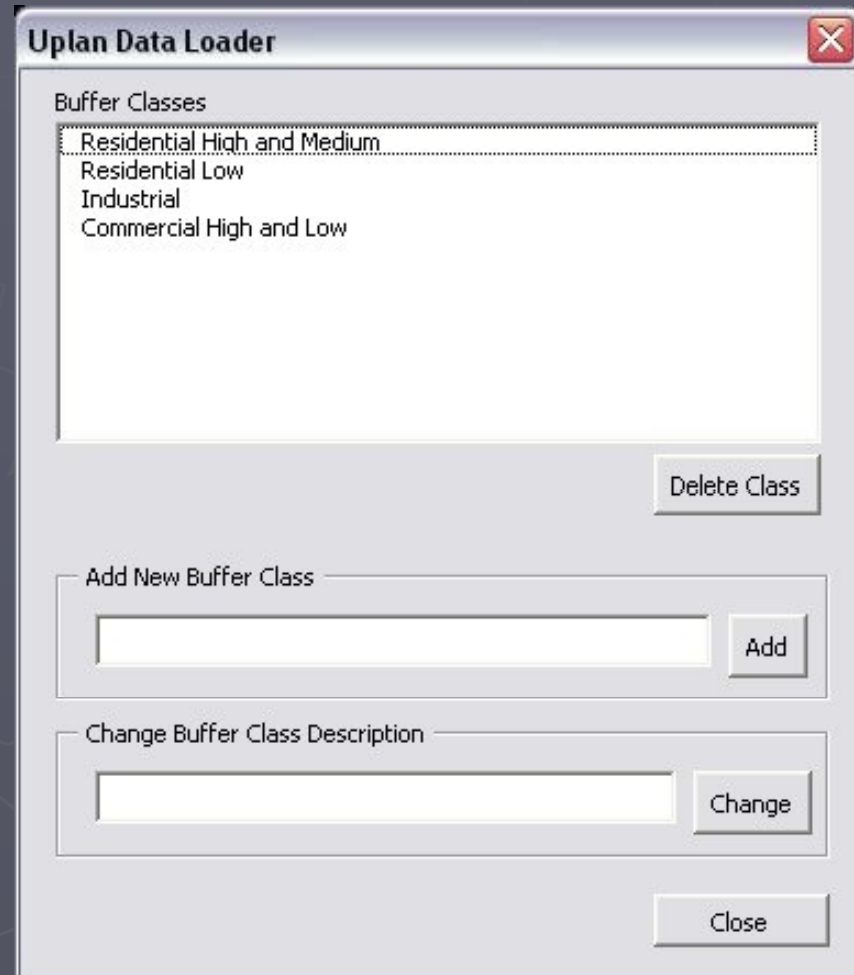
- An output type of future development either residential (Households * average gross lot size) or employment (Sq. feet per employee / FAR)

▶ Variant

- A collection of land uses and buffer classes that are designed for use together

Buffer Classes

- ▶ Identical Attractors and Discouragers applied to one or more land uses
- ▶ Previously
 - RH and RM used the same Buffer Class
- ▶ New
 - Customizable
 - ▶ Independent RH and RM Buffer Classes
 - ▶ Grouped RH, RM, RL all use the same Buffer Class
 - ▶ Or any combination

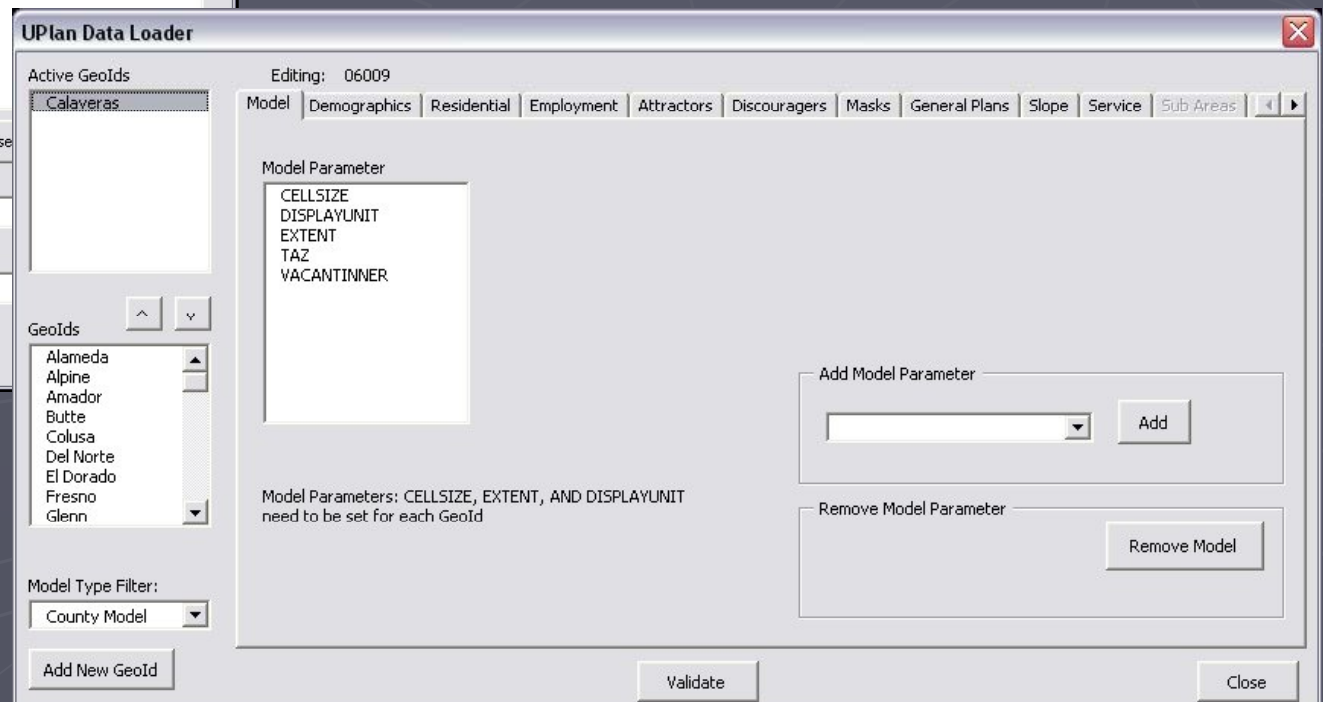
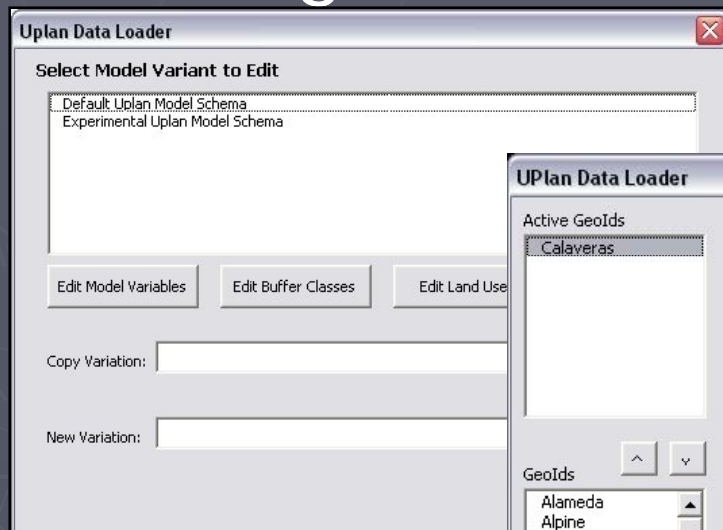


Variant

- ▶ The Variant is a set of Buffer Classes and Land Uses that are intended to work together
- ▶ A Variant, once created can be used in any geographic region and with any Model Type (Single County, Single County with Sub Areas, or Cluster)
 - Specifying default residential and employment densities through the data loader is still required (as it would have been in earlier versions of UPlan)

Data Loader

- ▶ Enhanced to support Variants
- ▶ Editing of Buffer Classes and Land Uses



UPlan Functional Changes

► Sub Areas

- Employment growth is now specified by sub area the same way Residential growth is

► Employment: Calculated or Absolute

- Calculated: The number of employees is calculated based on the number of employees per house hold
- Absolute: Specify a starting and ending number of employees regardless of population growth

Enhanced Error Checking

- ▶ Attractor and Discourager checking
 - Prevents accidental use of old attractors/discouragers that have had names changed
- ▶ Allocation
 - Fewer Errors in Allocations resulting from having no available space before allocation
 - Non-Attraction Allocation loopholes closed

Stability Enhancement

- ▶ Simplified Code = Fewer Errors
 - In 2.21 or many changes/fixes had been added to the code requiring many small patches to fix errors
 - In 2.6 those changes integrated into the code avoiding work arounds
- ▶ UPlan 2.6 is dramatically more stable than earlier versions

Analysis

- ▶ More Robust Reporting
 - Microsoft Excel
 - ▶ Areas Needed
 - ▶ Areas Consumed/Allocated
 - ▶ Shortfall in Allocation
 - ▶ Discouragement Impacts
 - ▶ TAZ Reporting (optional)
 - ▶ UPlan Settings and Input Values
 - TAZ Export
 - ▶ Default
 - Database table output of HH, Employees, Acres, Square Footage and Population by TAZ
 - ▶ Custom (very near future)
 - Remap UPlan output into transportation model TAZ structure with complex custom combination and manipulation
 - Reusable Custom Export Specification

TranEX Custom TAZ Export

C:\Projects\UPlan\TAZEXPORT2.6\CAL_DEMO Get TAZ Table Source TAZ Table

TAZ TAZ Field

New TAZ Specification Previous Export Configuration

Destination TAZ Field Name Set Source Fields

[DEFAULT] Add Exception [ID] [rm_Acres]

Delete Exception [ATYPE] [rm_HH]

[SF_DU] [ATYPE_STR] [rm_Pop]

[MF_DU] [SF_DU] [rl_Acres]

[RETAIL_EMP] [MF_DU] [rl_HH]

[SERVICE_EM] [RETAIL_EMP] [rl_Pop]

[OTHER_EMP] [SERVICE_EM] [rvl_Acres]

[TOTAL_EMP] [OTHER_EMP] [rvl_HH]

[TOTAL_DU] [TOTAL_EMP] [TOTAL_DU] [rvl_Pop]

Clear + - * / () Constant

[SF_DU] = [Self] + [rm_HH] + [rl_HH] + [rvl_HH]

Validate Validate and Save Save Config.

Exit Exit All Export