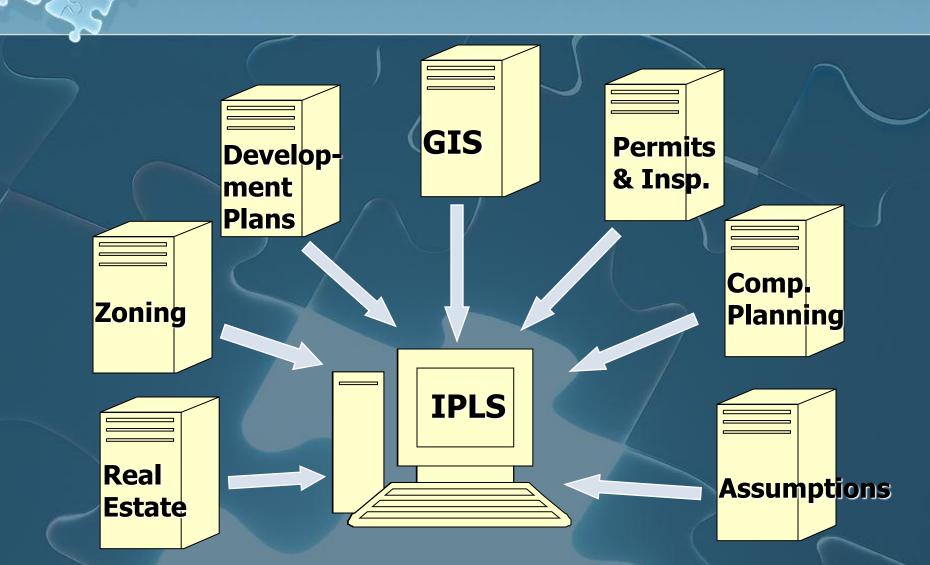


Methodology for Housing Units, Households and Population Integrated Parcel Lifecycle System (IPLS)

Fairfax County Department of Neighborhood and Community Services







Data Sources

GIS Data:

Land parcels & centroids

Master address file

Parcel history

Various geography layers

Real Estate Data:

Land & lot characteristics

Housing characteristics

Commercial & Industrial structure characteristics

Property sales information

Existing land use

Zoning Data:

Proposed rezonings

Approved rezonings

Existing zoning layer

Development Plan Data:

Proposed development plans

Approved development plans

Project types

Housing units



Data Sources

Permits & Inspections
Data:

Building permits issued

Building permit inspections

Comprehensive Planning Data:

Planned land use layer

Plan options for mixed & alternative use areas

Assumption Data:

Average household size

Vacancy rates

Rental complexes with mixed structure types

Forecasting assumptions



Parcel Level Data Created















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Concepts

- Data can be summarized by any geography because
 - Parcels are the primary building blocks,
 - Data are assigned to parcel centroids, and
 - Layers are spatially registered.
- IPLS data are accessible to all county staff via GIS clients (ArcMap) and Oracle clients (SQLplus, Toad, SAS, etc.).



Housing Unit Estimates

- Fields in table
 - Parcel identification number
 - Housing unit type
 - Existing land use code
 - Year built
 - Current number of units
 - Valid from date
 - Valid to date



Housing Unit Estimates

- Housing unit types
 - SF Single family detached
 - TH − Townhouse
 - DX Duplex
 - MP Multiplex
 - LR Low-rise multifamily
 - MR Mid-rise multifamily
 - HR High-rise multifamily
 - MH Mobile home



- Households are occupied housing units.
- Three estimates for current households and population.
 - Most likely estimate
 - Low estimate
 - High estimate



Household Methodology

10 Housing Units and 9 Households



Household Methodology 10 Housing Units and 9 Households Vacancy rate is spread across all housing units.

Population Methodology

- Average household size information from the Decennial Census by small area and type of unit.
 - Adjustments are made using American Community Survey information along with administrative data such as school membership information.



IPLS Forecasts

- IPLS demographic forecasts:
 - Housing units, households and population forecasts for a 30 year period.
 - Low, high and most likely forecasts.
 - Mixed use, alternative use and plan option information captured.
 - Forecasts vary based on parcel characteristics such as age of structure, location, steepness, flood plains, etc.



- IPLS short range forecasts are:
 - Those within a five-year horizon.
 - Based on residential development activity.
- IPLS long range forecasts are:
 - Those beyond the five-year horizon.
 - Based on the Comprehensive Plan and plan options.
 - Based on existing parcel characteristics



IPLS Reporting Tool



- User reports available through ArcMap extension
 - Population Density Map
 - Report of Current and Forecasted Population, Housing Units & Households
 - Report of Residential Condominiums
 - Report and Map of Housing Units Authorized by Building Permits
 - Report and Map of Housing Starts
 - Report and Map of Housing Units Completed
 - Report of Market Value of Housing Units

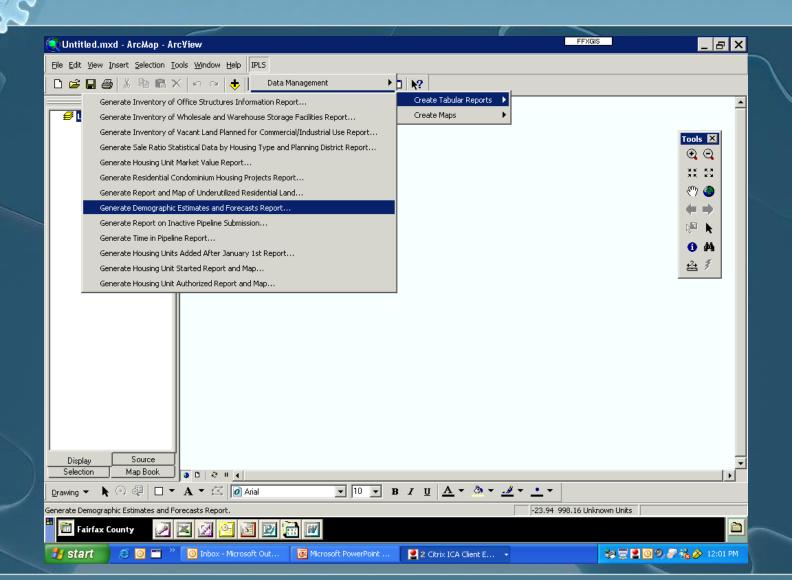


IPLS Reporting Tool

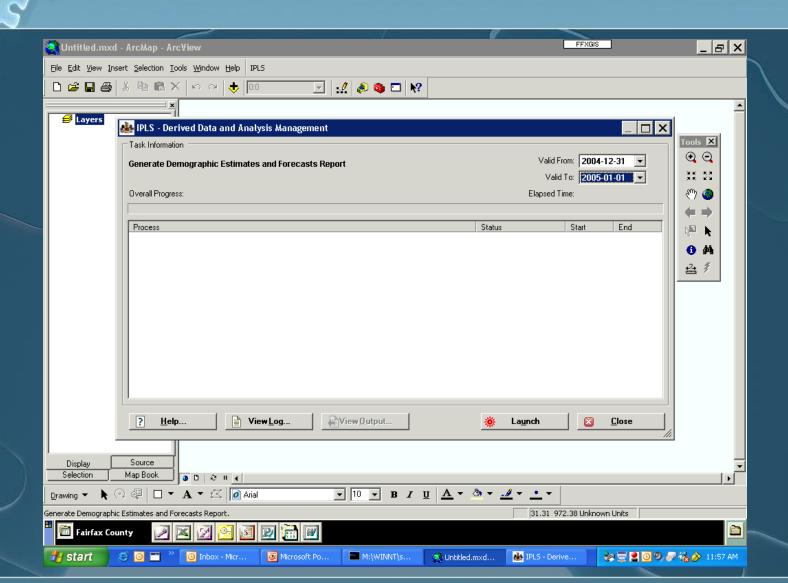


- User reports available...continued
 - Report of Inventory of Office Space
 - Report of Inventory of Wholesale & Warehouse Storage Facilities
 - Report and Map of Vacant Land Planned for Commercial or Industrial Use
 - Report and Map of Underutilized and Vacant Land Planned for Residential Use
 - Existing Land Use Acres by Geography
 - Zoned Acres by Geography

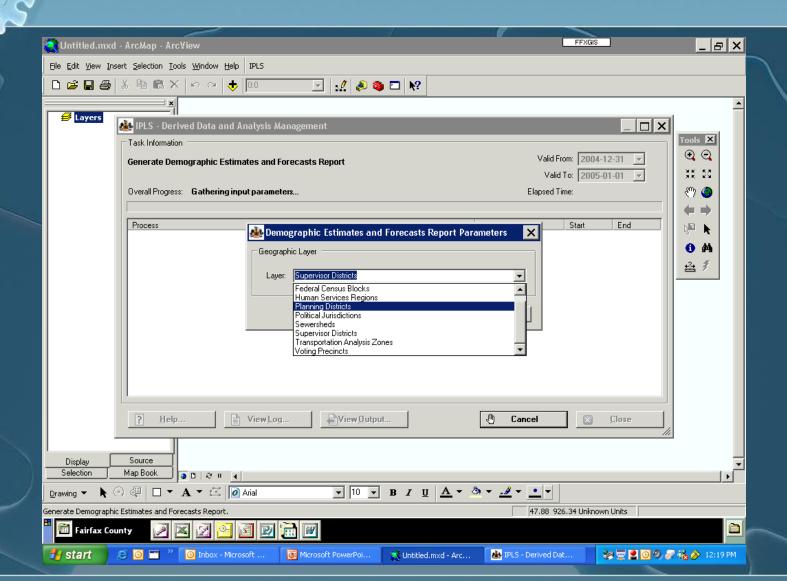
IPLS Report Tool



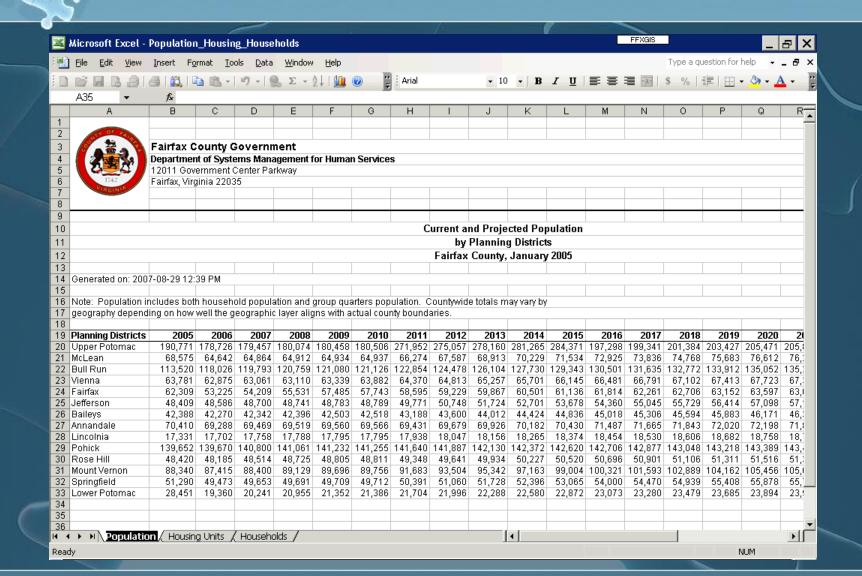
IPLS Report Tool



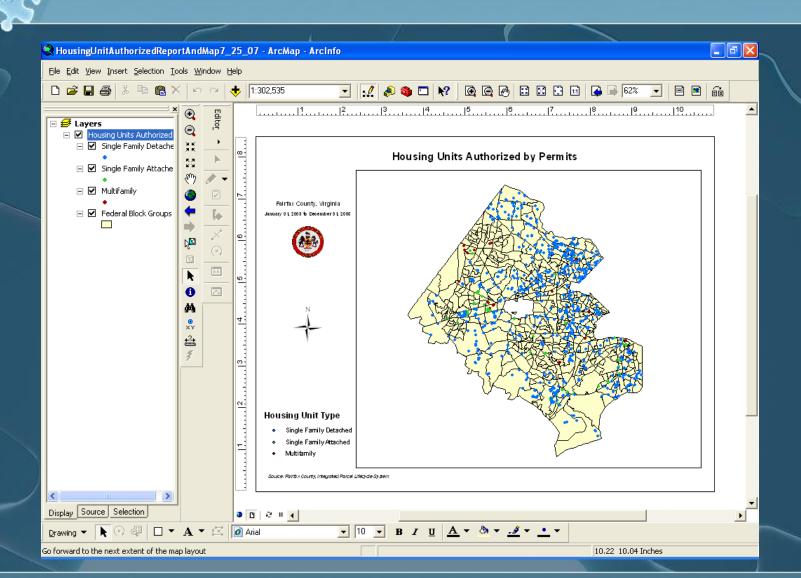
IPLS Report Tool



Sample IPLS Report



Sample IPLS Map





Integrated Parcel Lifecycle System

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