Enrollment Subcommittee

ACPS & City of Alexandria

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Subcommittee Overview

The purpose of the LREFP

Long Range Educational Facilities Plan to improve facilities planning, accommodate the growing student population, and enhance educational programs and services.

- Enrollment up 2,600 since 2007

Fiscal Year	Short Term Enrollment Estimates	Available Class Rooms
FY14	13,692	4
FY15	14,272	-7
FY16	14,802	-23
FY17	15,211	-39.5
FY18	15,767	-88
FY19	16,270	-110

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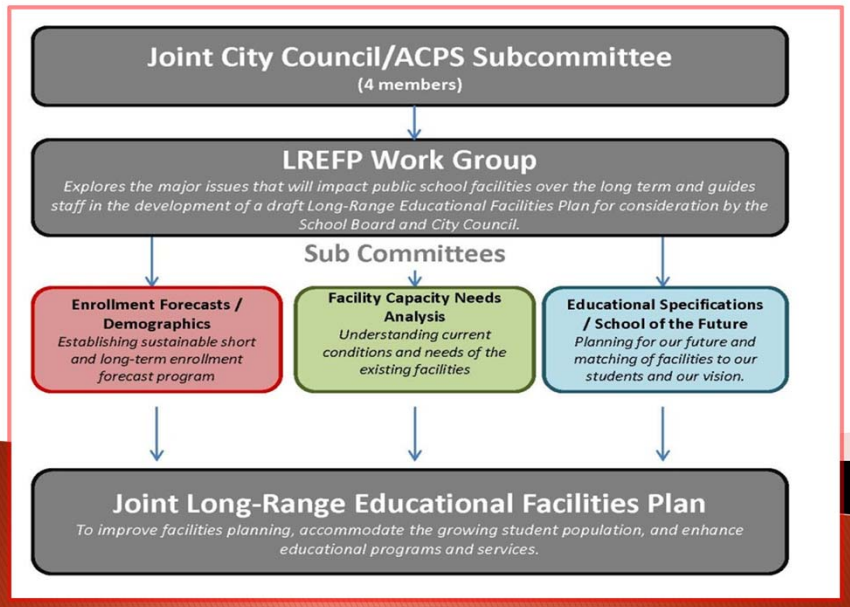
Subcommittee Overview



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Subcommittee Overview

- Roll of the Forecasting Subcommittee:
  - Review the details of the forecasting elements
  - Collaborate on the development of a short term and long term enrollment forecast
  - Report results to the LREFP workgroup

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Subcommittee Overview

- Subcommittee accomplishment to date (research elements):

Births

✓ Historic birthrates
✓ Birthrate trends

Capture Rates

✓ Historic kindergarten capture
✓ Participation rates

Cohort Survival

✓ Historic survival rates

Student Generation

✓ Generation by housing type
✓ Generation by subsidy program

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Subcommittee Overview

- Subcommittee items for discussion tonight (research elements):

Births

-

Capture Rates

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Cohort Survival

✓Historic survival rates by individual student

Student Generation

✓ Generation by market affordability
✓ Future housing mix
✓ Home sales

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Subcommittee Overview

Next 2-3 Subcommittee Meetings :

October

- Consolidate research elements to create short and long term assumptions
- Review multiple forecast scenarios
- Review current year enrollment numbers

November/December

- Revise forecast scenarios
- Produce recommended short term forecast
- Produce preliminary long term forecast

January

- Produce recommended forecast
- Develop process for regular updates

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Subcommittee Overview

- Multiple Enrollment Forecasts:

Short Term (1-6 years)

Most specific forecast. Is done for every school by every grade. Informs near-term capacity and operating needs

Mid Term (6-10 years)

Is a citywide forecast. Informs the 10 year Capital Improvement Plan (CIP)

Long Term (30 years)

Is citywide forecast. Informs long term public facility needs

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3 different plans with closely related, but slightly different inputs

Subcommittee Overview

- Foundation of the Short and Mid Term Enrollment Forecasts:
  - Changes in births
  - Changes in the kindergarten capture rate
  - Changes in cohort survival
  - Changes in the participation rate
  - Changes to housing stock

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Subcommittee Overview

- Foundation of the Long Term Enrollment Forecast

- Long range forecast of population and housing
- Changes in the housing type mix
- Changes in housing affordability
- Changes in student generation rates
- Socio-economic changes

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Todays Discussion Items

Market Affordability of Housing Stock
Pat Mann

New Student Generation by Home Sales
Ryan Price

Cohort Survival by Student
Laurel Hammig

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Affordability and Student Generation

Findings:

- Subsidized and income-limited family housing has the highest generation rate of all housing.
- For market-rate units, ownership units with lowest prices and rental units with the lowest rents have the highest student generation within each class of housing.

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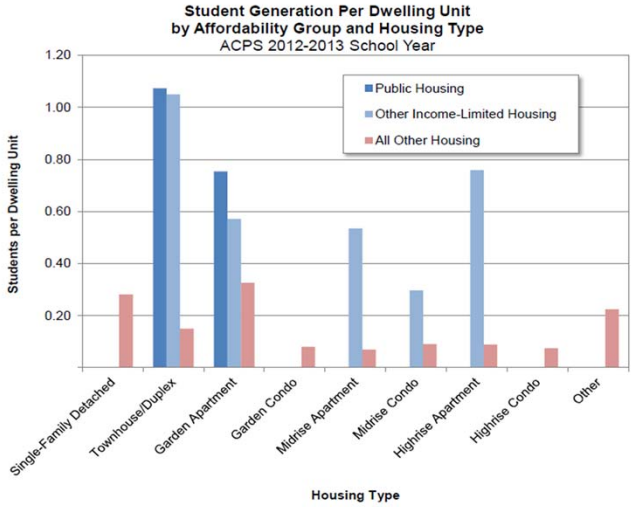
Subsidized and Income-Limited Housing



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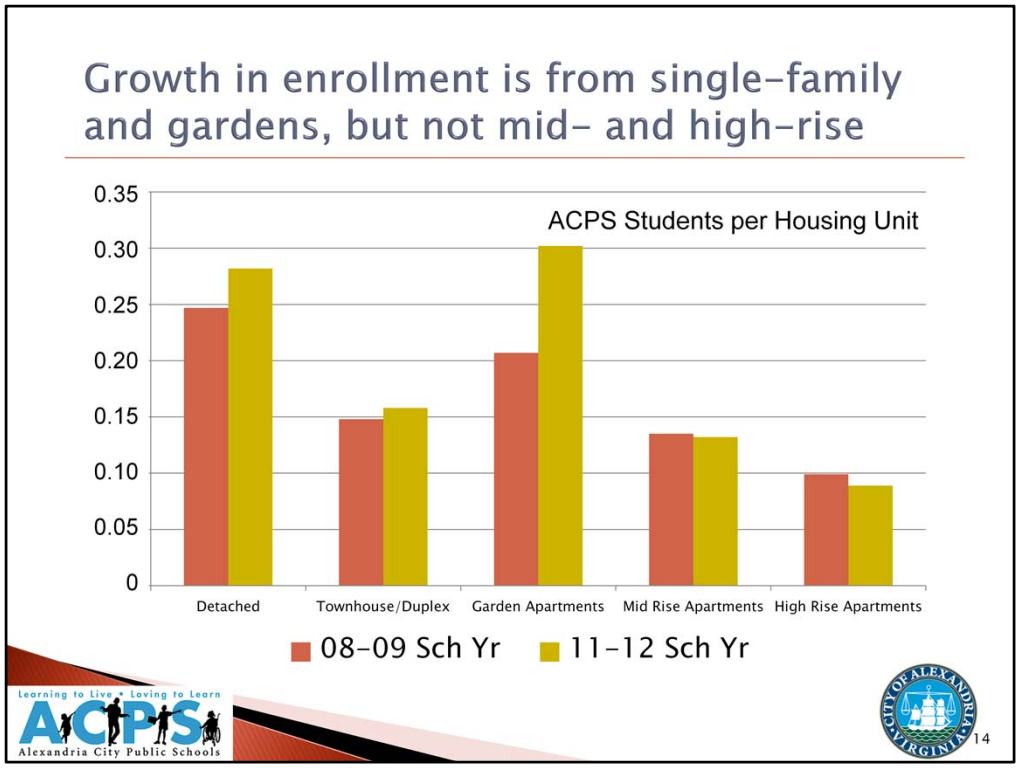


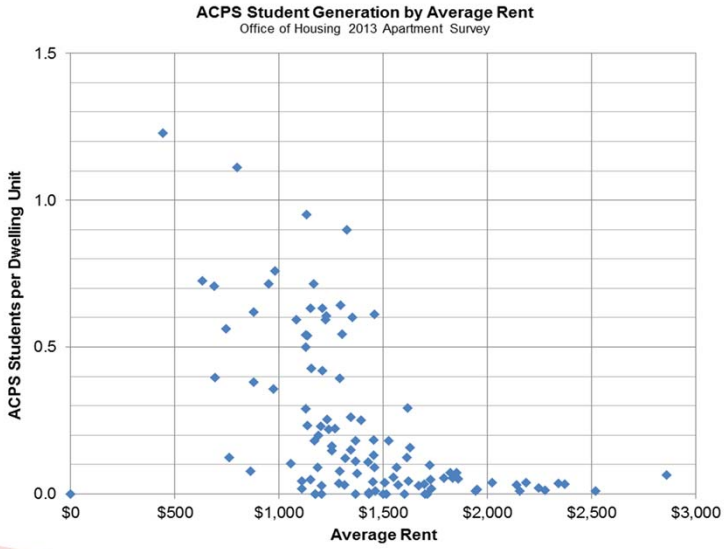
One way that we analyze student enrollment trends is by looking at what types of Alexandria housing generate the most students and how this is changing over time. We call this the student generation rate.

The data show that the housing unit types that generate the most students are single family detached houses, townhouses, and garden apartments. All three of these housing types showed an increase in the student generation rate in the three years between the 2008 and 2012 school years.

Student generation from mid and high rise apartments declined over the three year period. Public housing also has a high student generation rate, but public housing is a tiny fraction of the City's housing stock.

The housing units in the sample are virtually all existing units, and virtually all of the growth in student enrollment is from existing housing units. Alexandria had little residential development during the 2008-2011 period.

Rental Units



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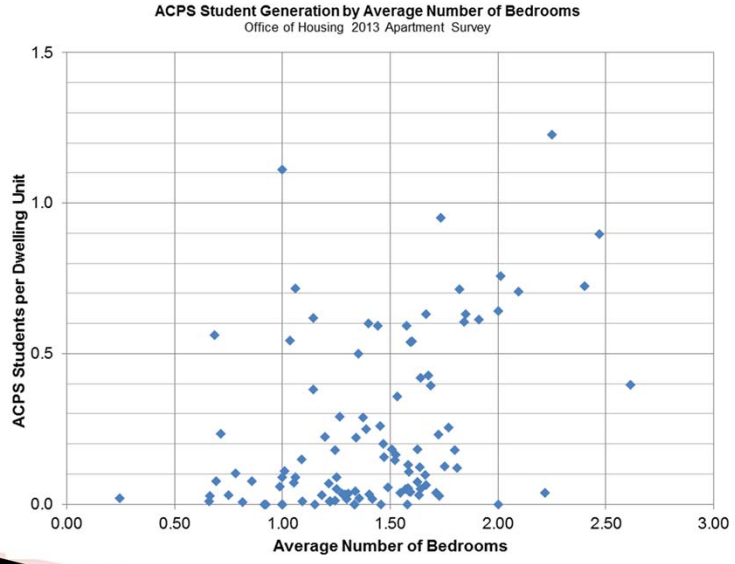
Rental Units



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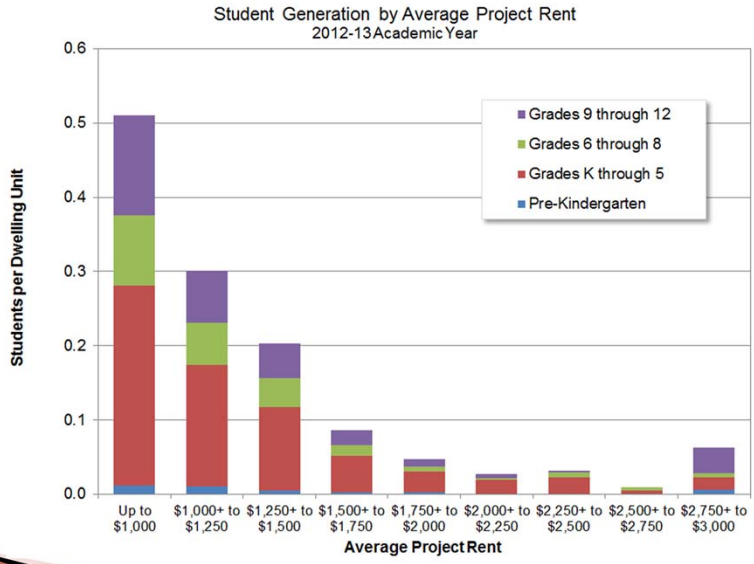
Rental Units



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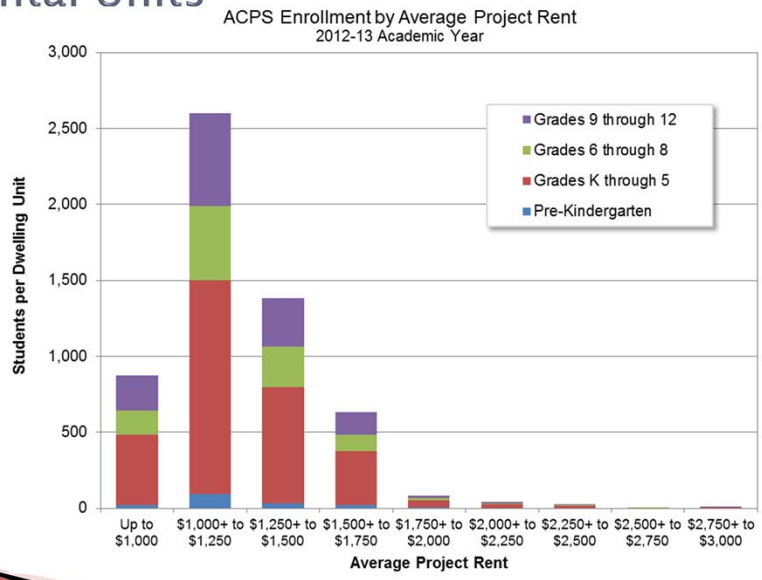
Rental Units



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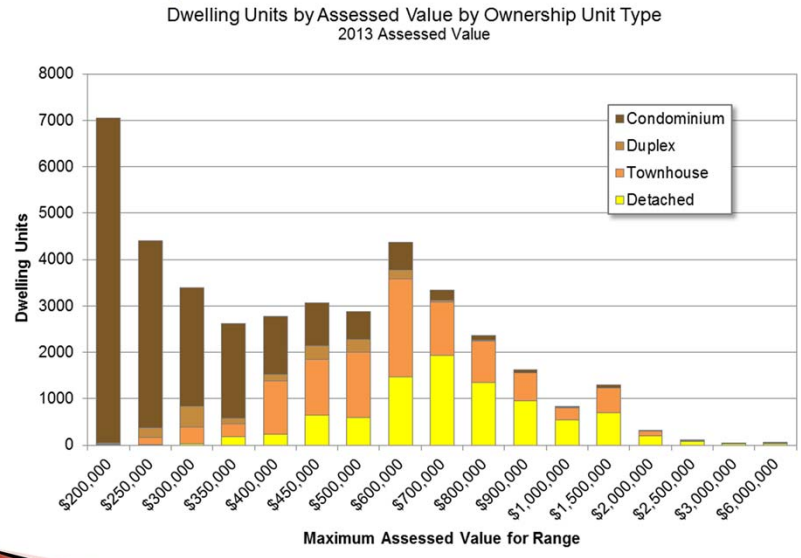
Ownership Units



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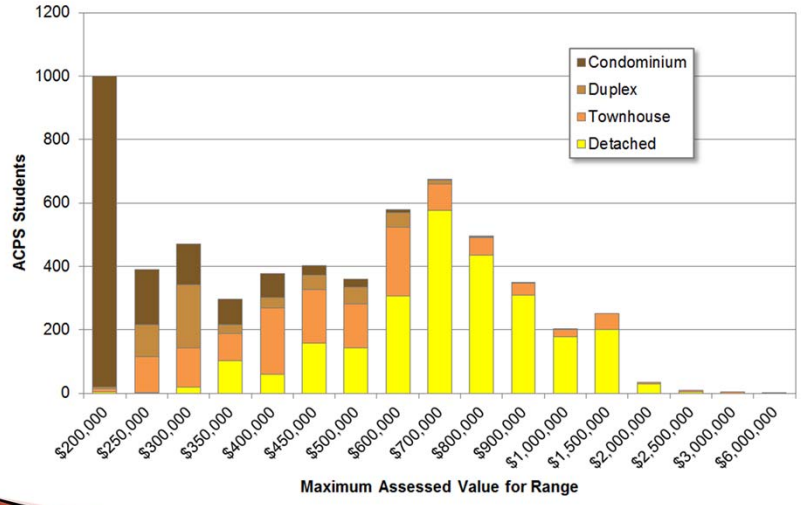
Ownership Units

Fig 2. Total ACPS Enrollment by Assessed Value by Ownership Unit Type
2012-13 Academic Year, 2013 Assessed Value



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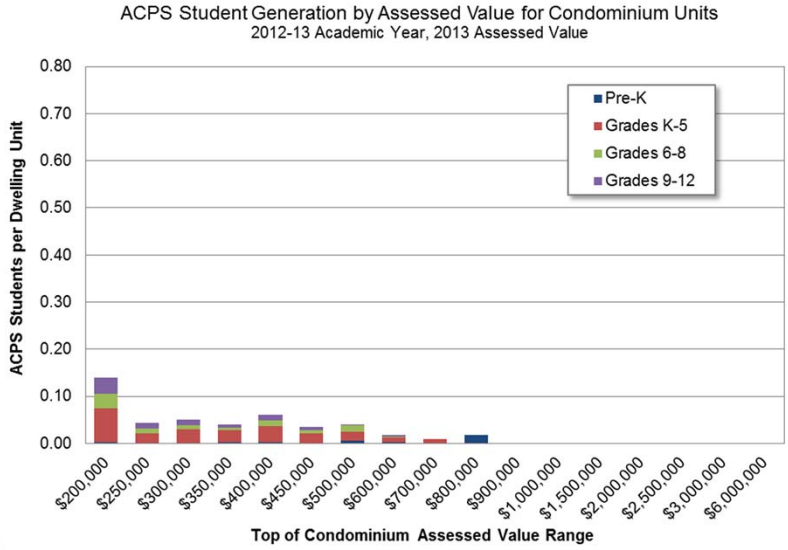
Condominiums



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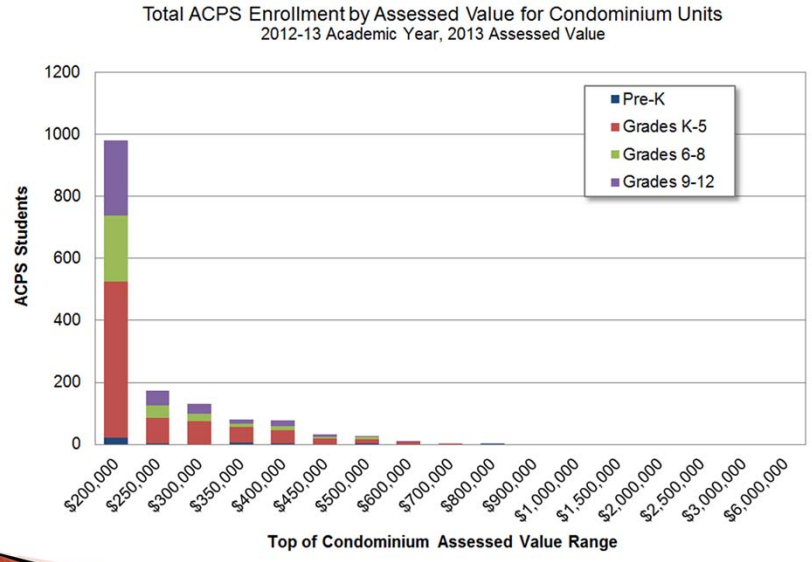
Condominiums



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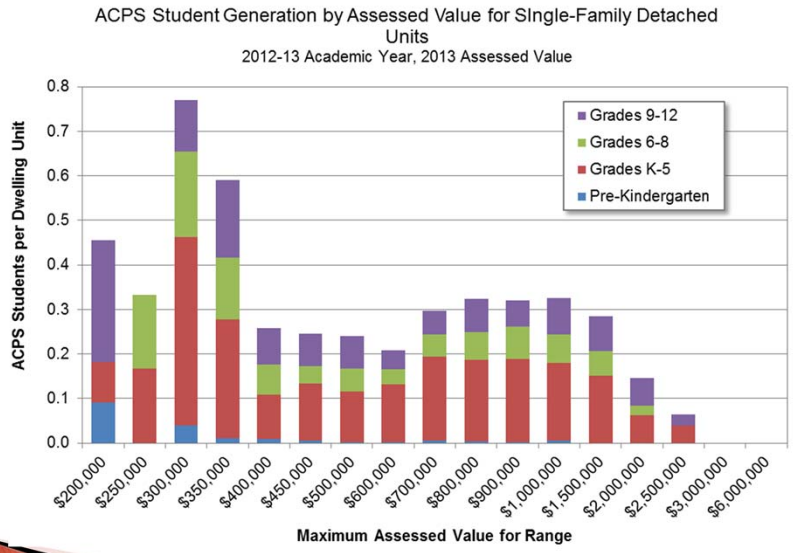
Single-Family Detached Units



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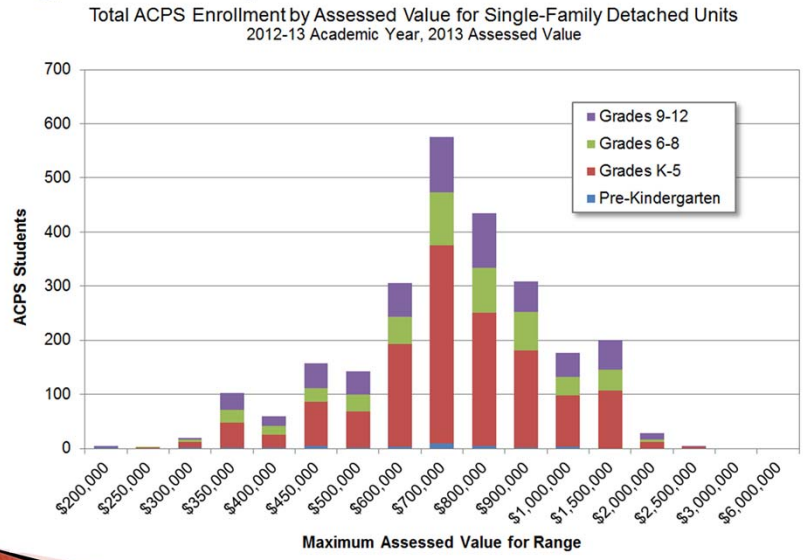
Single-Family Detached Units



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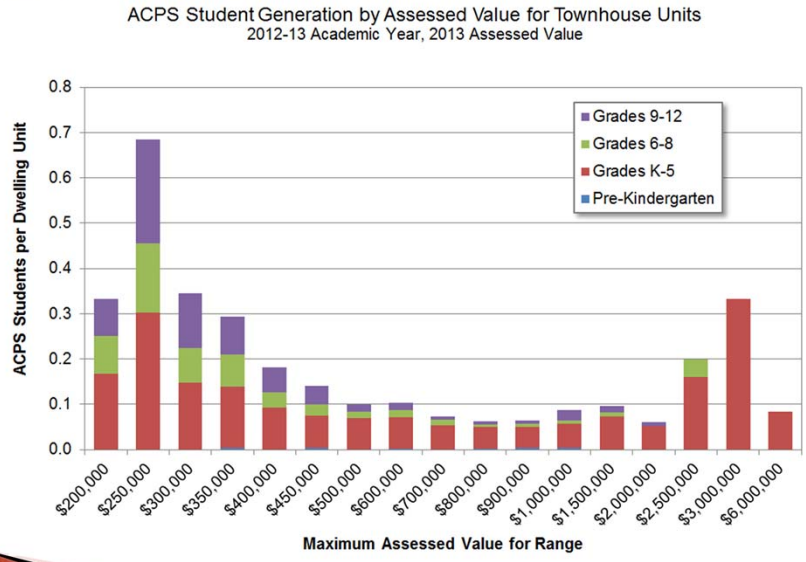
Townhouses



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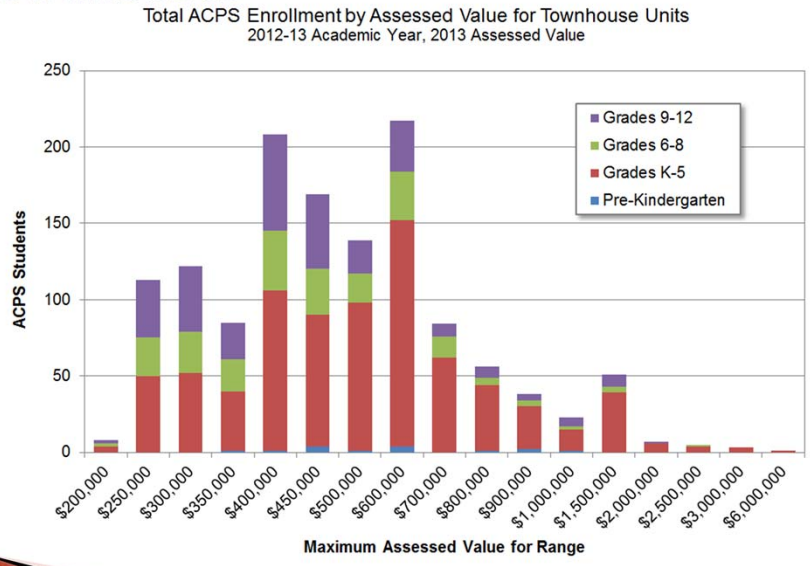
Townhouses



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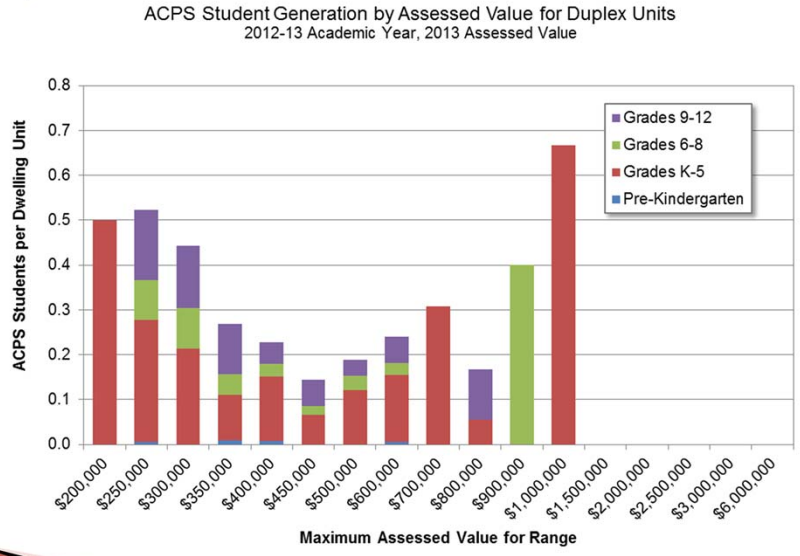
Duplex Units



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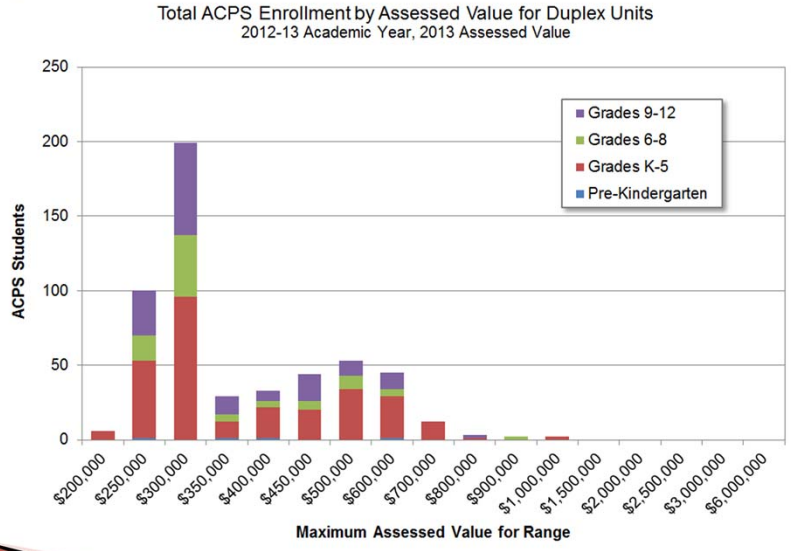
Duplex Units



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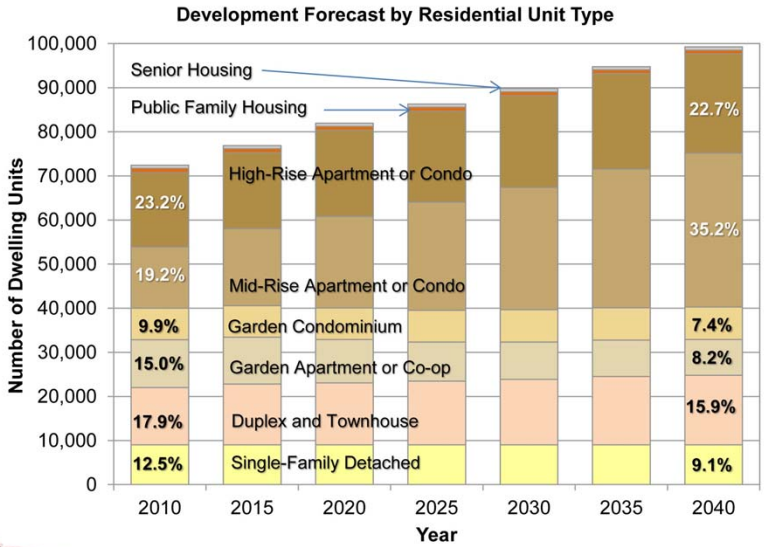
Unit Type Changes over Time



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Long-Term Forecasting

- Trend to reduced gross birth rates per 1000 population as population ages
- Trend to reduced birth rates among immigrant populations
- Trend to families choosing more urban lifestyles
- Trend to new development in Alexandria in building types less desired by families
- Pressure on prices and rents in Alexandria as region grows outward

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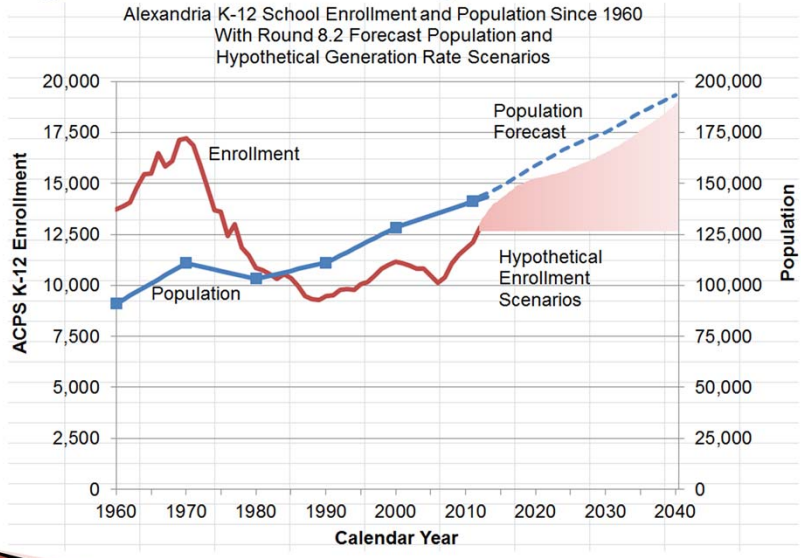
Long-term Forecasting



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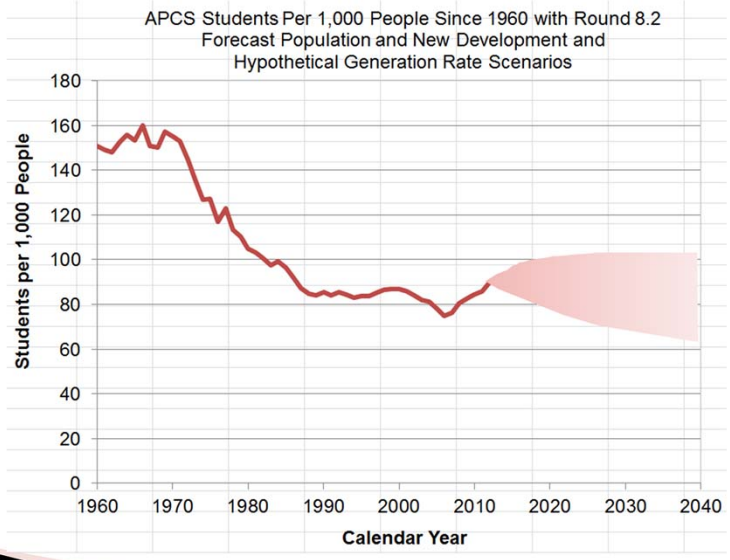
Long-Term Forecasting



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