

Forecasting the next 30 years of metro development

Citizens League
December 17, 2015



Today's discussion

- Why and how Met Council forecasts
- Understanding market forces balanced with changing trends
- Data that inform the regional and local forecasts
- A view on the future: Forecast results

Why we forecast

- Forecasts provide a reasonable basis and yardstick for planning
- Alignment of regional and local: Planning for the same future
 - Systems, infrastructure, services are scaled and staged per future expectations



How we forecast: models

- Models represent real-world questions in a simplified way...
 - Key components
 - System interactions
 - Big-picture view
- Allowing freedom to...
 - Test alternative scenarios



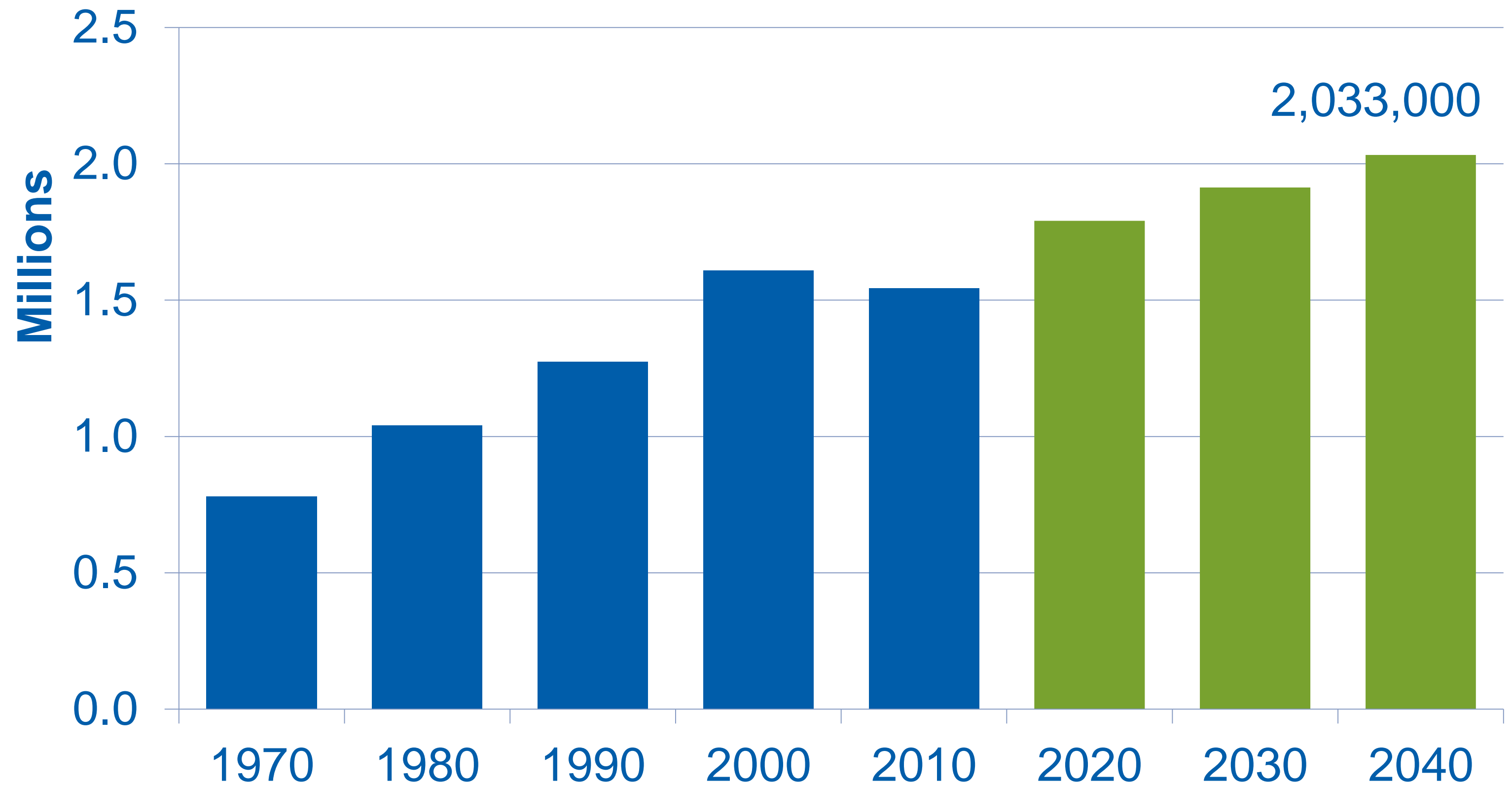
Forecast Models Toolkit

A regional economic model for region-level employment and population

A land use model for allocating future land use, households and employment to the local level

Travel demand model

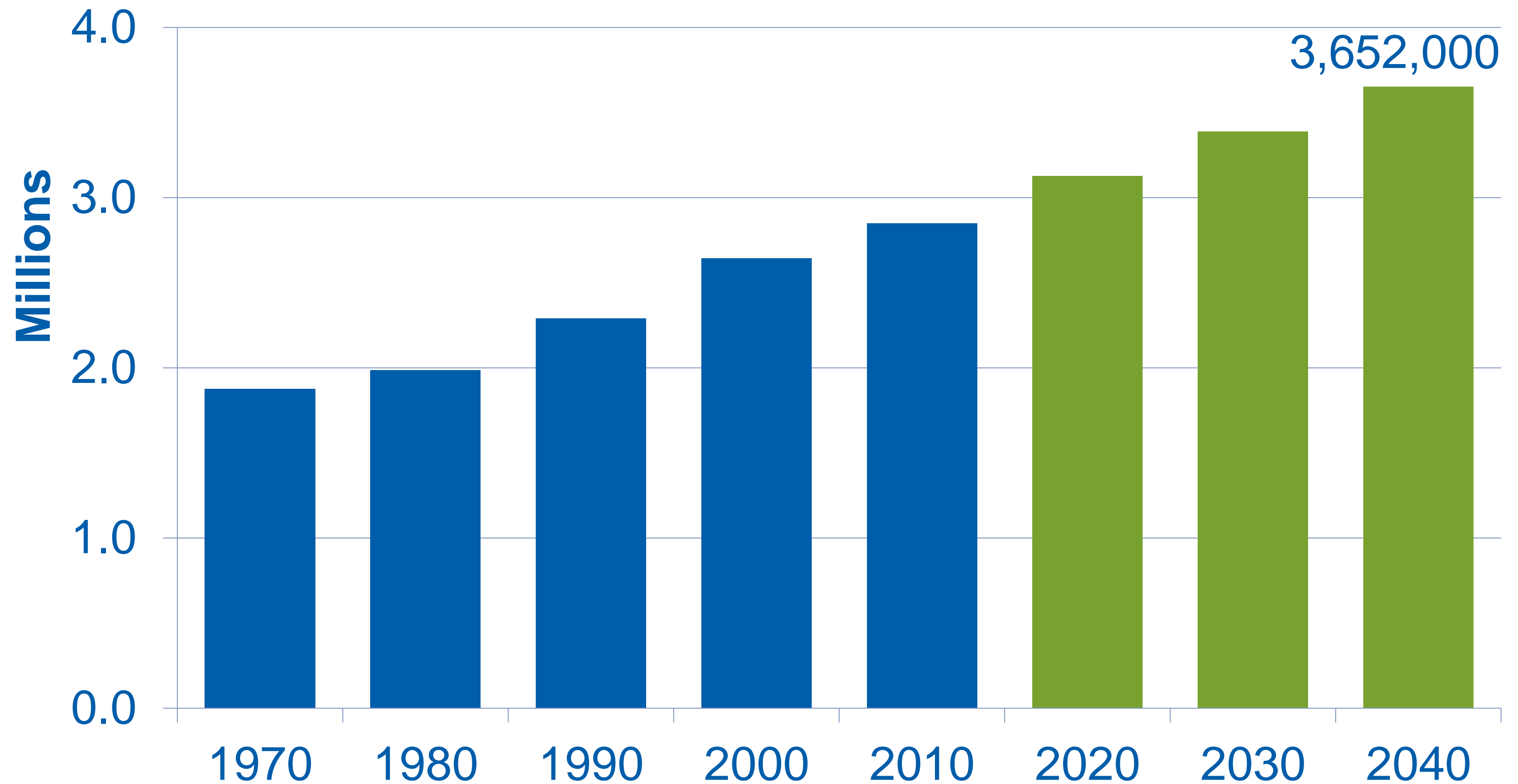
Employment growth: +32%



Source: 2010 employment counts from Minnesota Department of Employment and Economic Development; 2020-2040 forecasts from Metropolitan Council (July 2015)



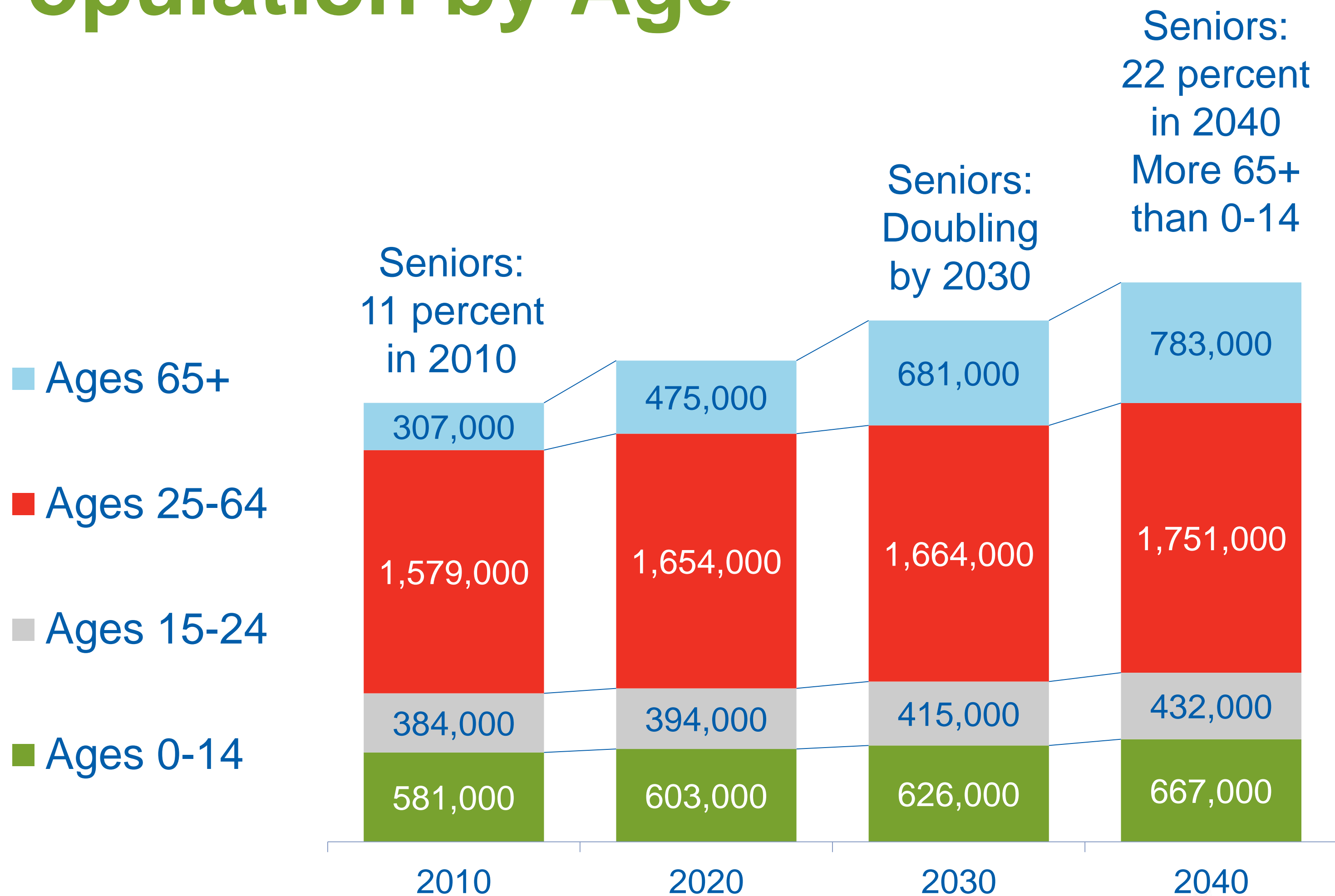
Population growth: +28%



Source: 2010 data on population and households from Census Bureau;
2020-2040 forecasts from Metropolitan Council (July 2015)



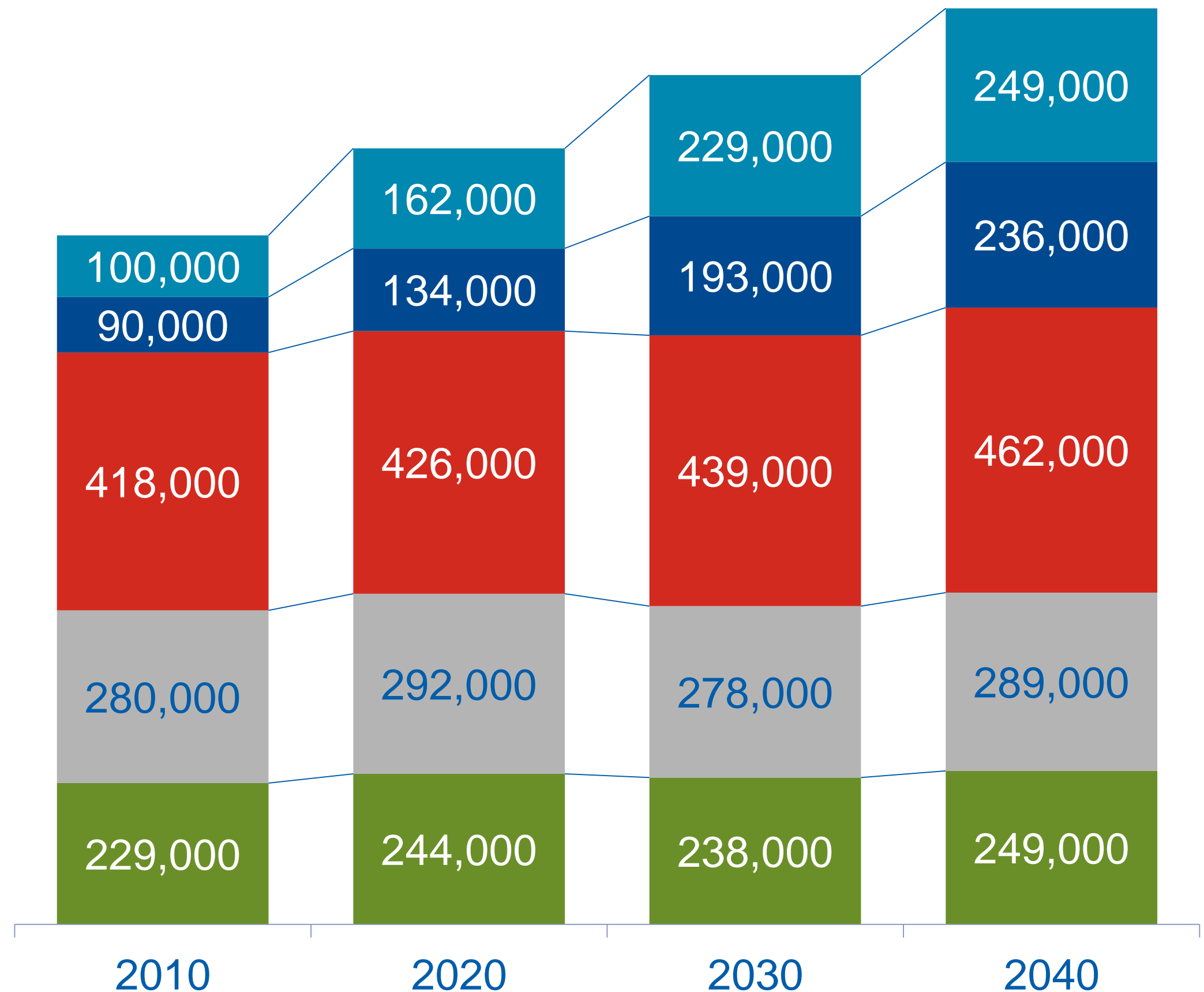
Population by Age



Source: 2010 data on population and households from Census Bureau;
2020-2040 forecasts from Metropolitan Council (March 2015)

Households growth

- Age 65+: 2+ person household
- Age 65+: 1 person household
- Under 65: 3+ person household
- Under 65: 2 person household
- Under 65: 1 person household



Source: 2010 data on population and households from Census Bureau;
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Need for a local land use model

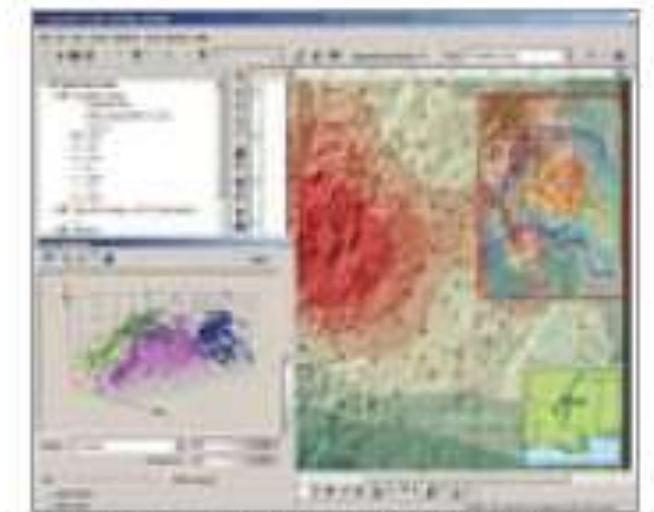


Regional totals from the *regional* model are allocated to *local* zones

- Complete “loop” of transportation and land use interaction
- Local land use model provides distributions of people and jobs to travel demand model
- Travel demand model returns future network conditions, accessibility measures

Met Council's local land use model

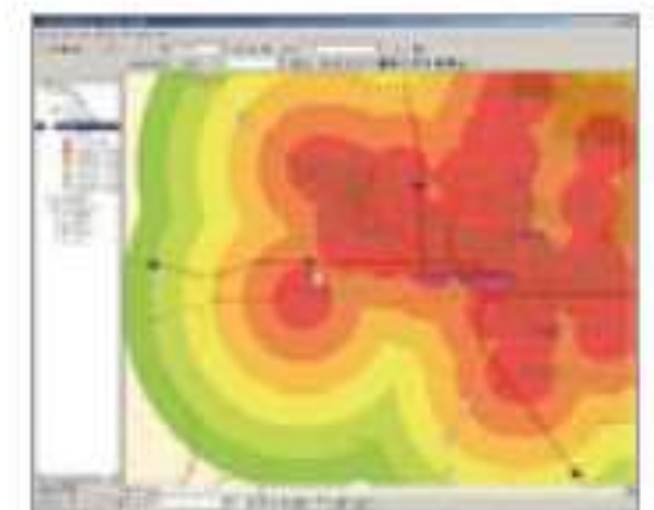
- Key dynamics and components of real estate market
- *Where will we add 500,000 jobs and 370,000 households?*
 - Site selection of households and employers: *what locations best satisfy preferences, mediated by prices?*
 - Supply of real estate: *what locations are viable to developers?*



study geographic spread of population



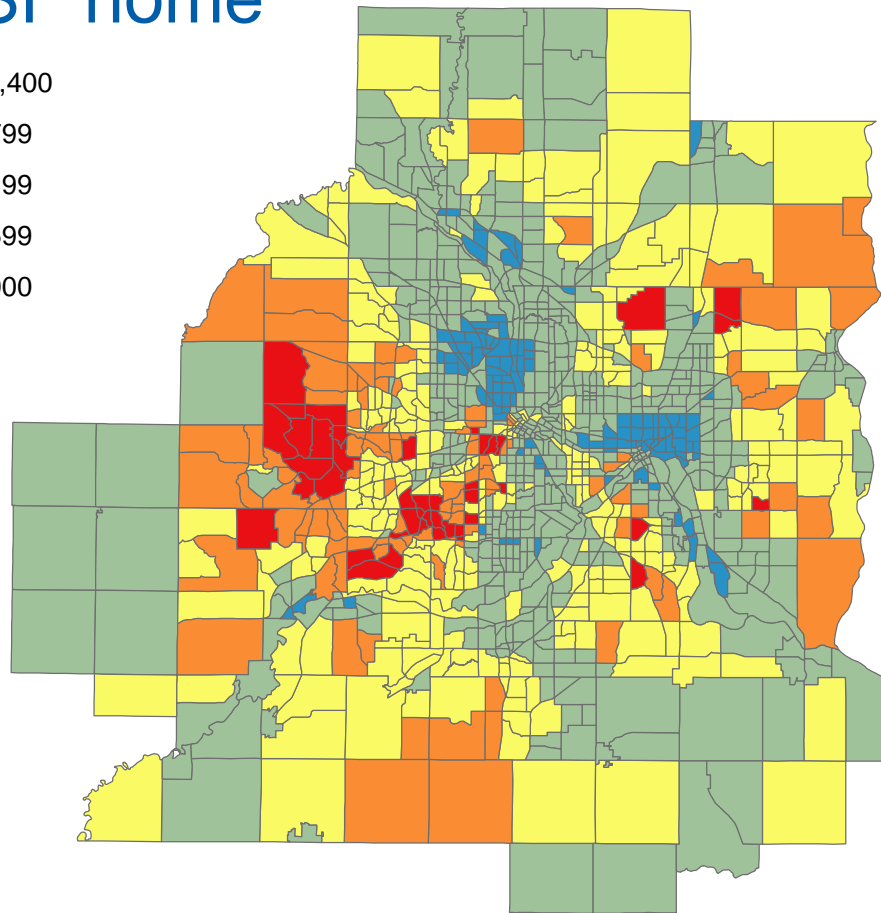
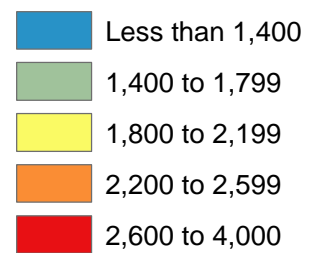
estimate future population and employment



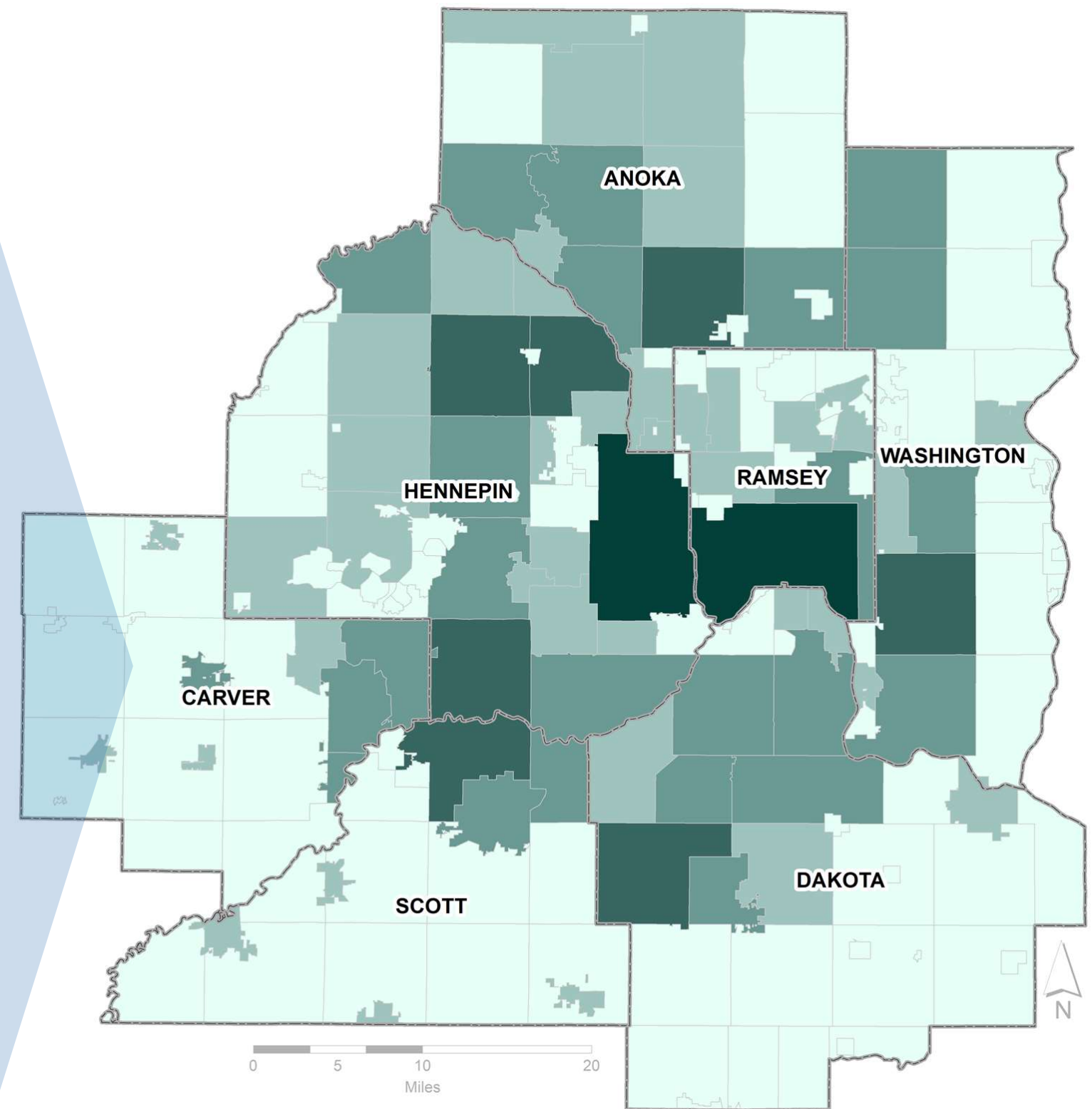
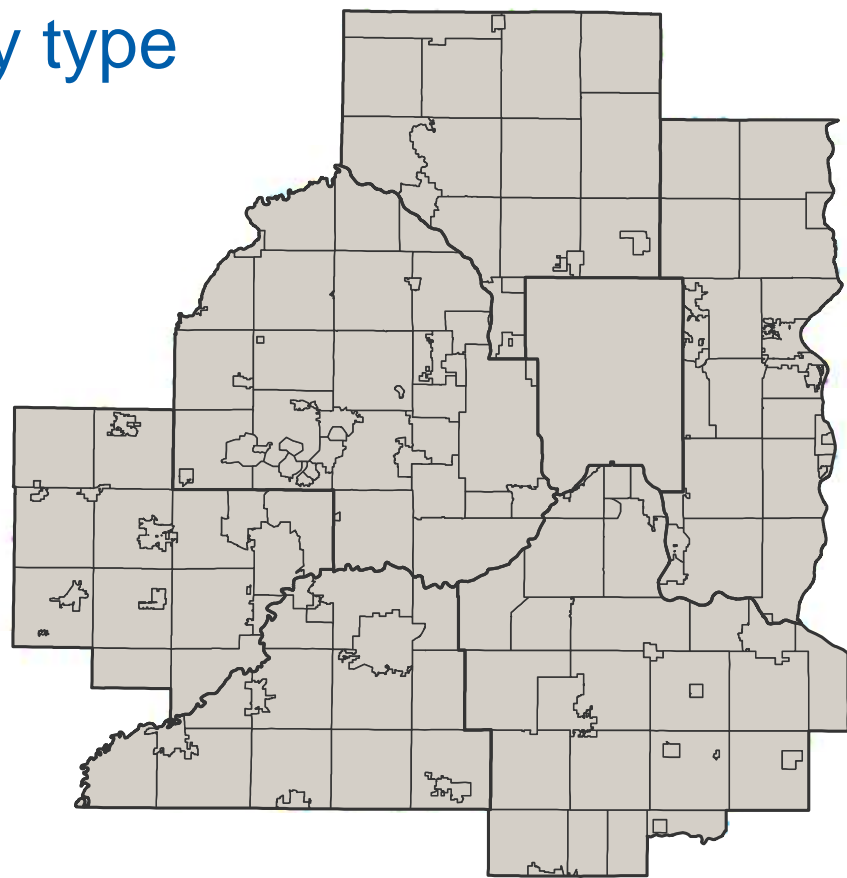
take into account accessibility

Local data informs the model

Rent for SF home

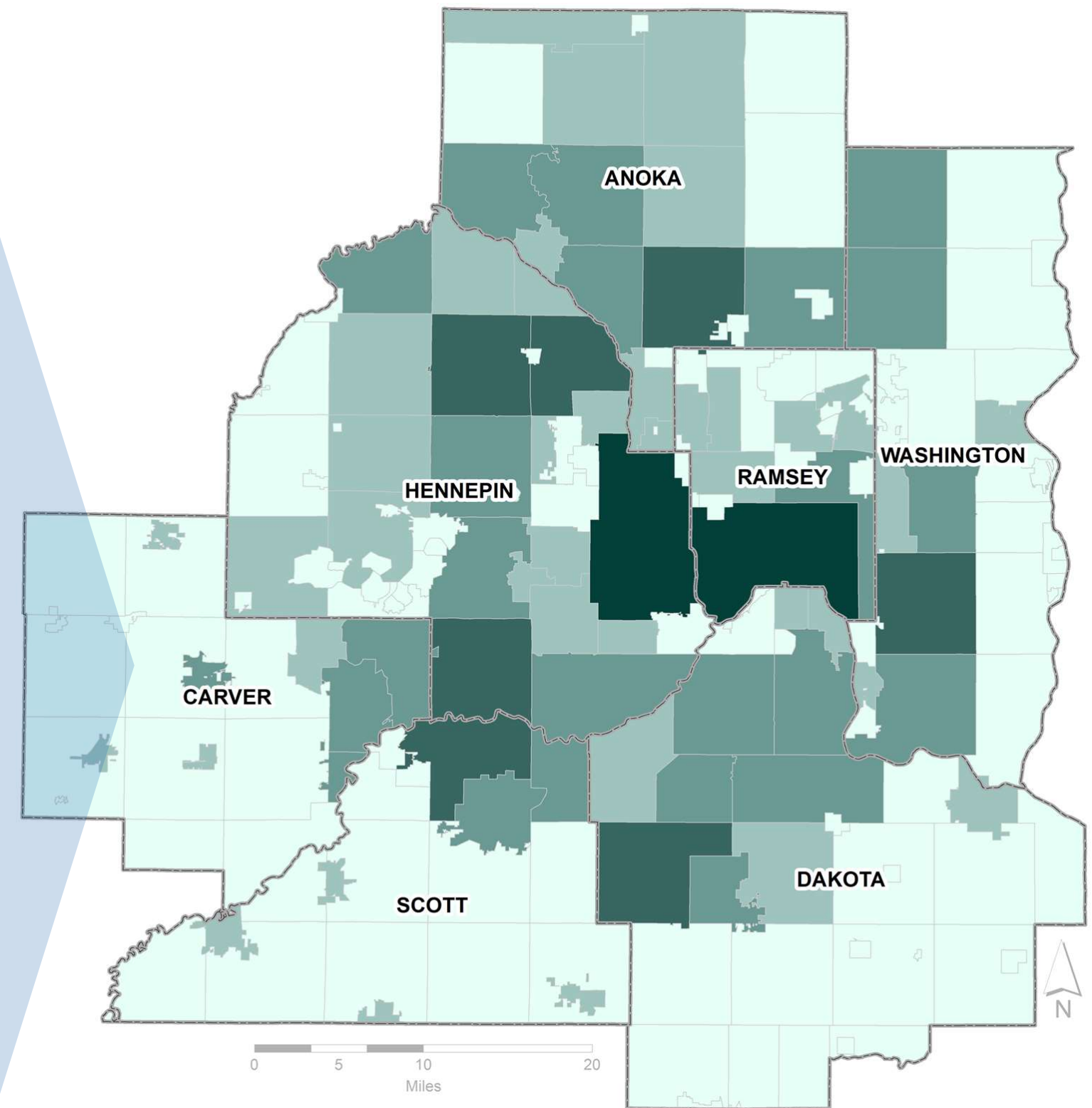


Housing by type

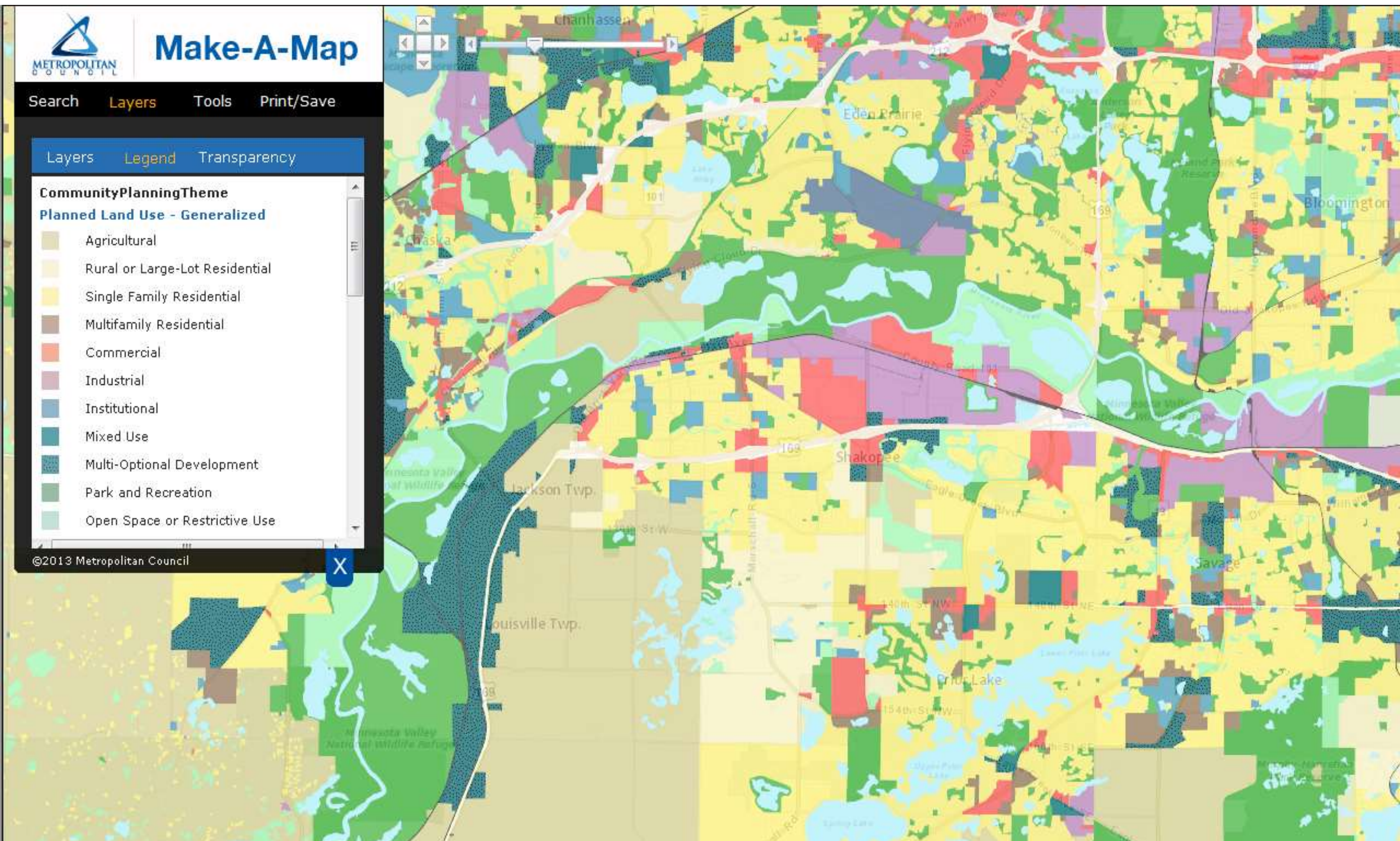


Local data informs the model

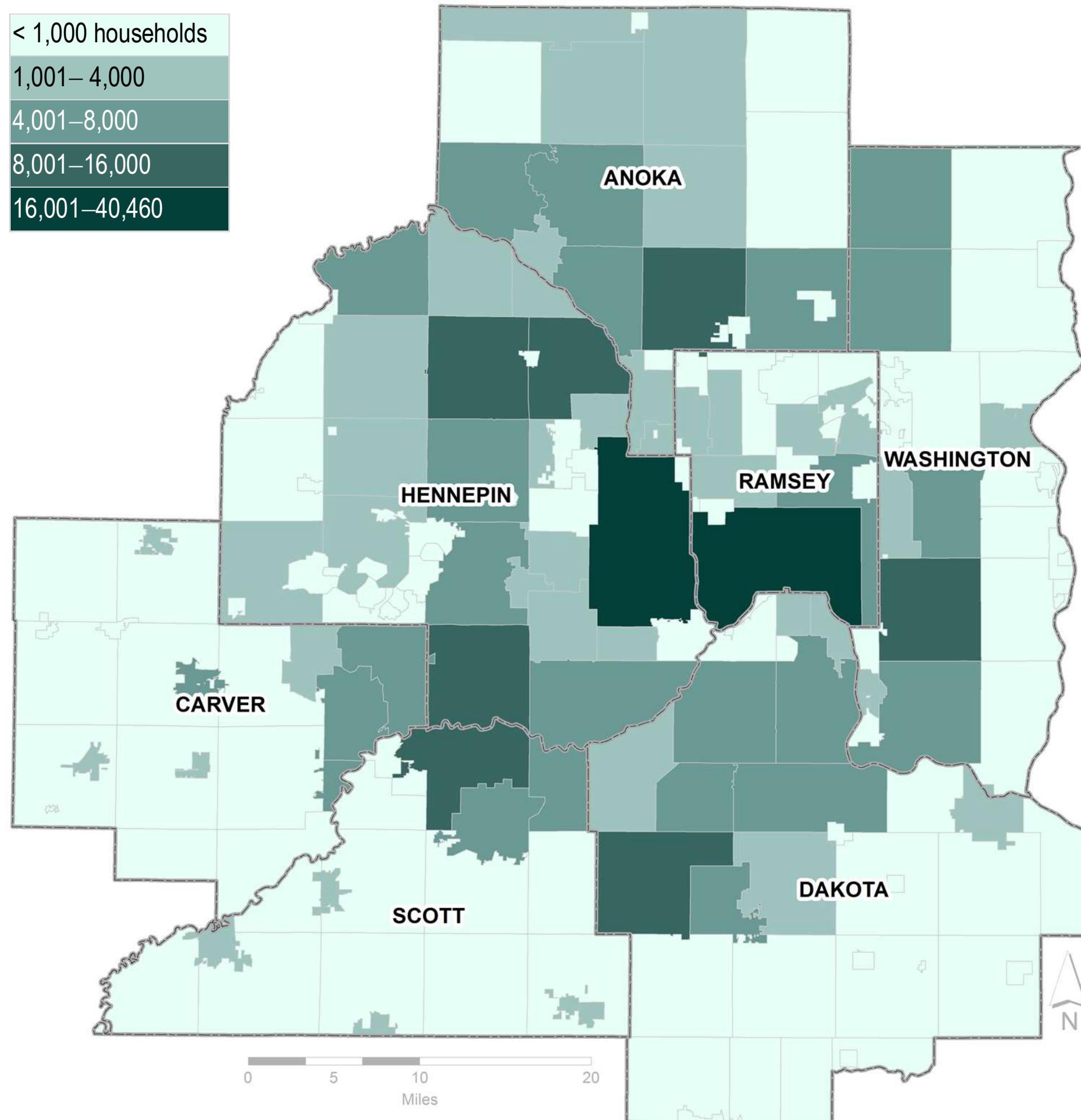
- Base year land supply
- Employment levels
- Socioec characteristics
- Housing stock
- Building costs, land prices
- Average rents
- Land consumption rates
- Regional systems and services
- Planned land use as a constraint
- Accessibility, by car and by transit



Local plans provide the envelope for what development is allowable, possible



Households Growth, 2010-2040



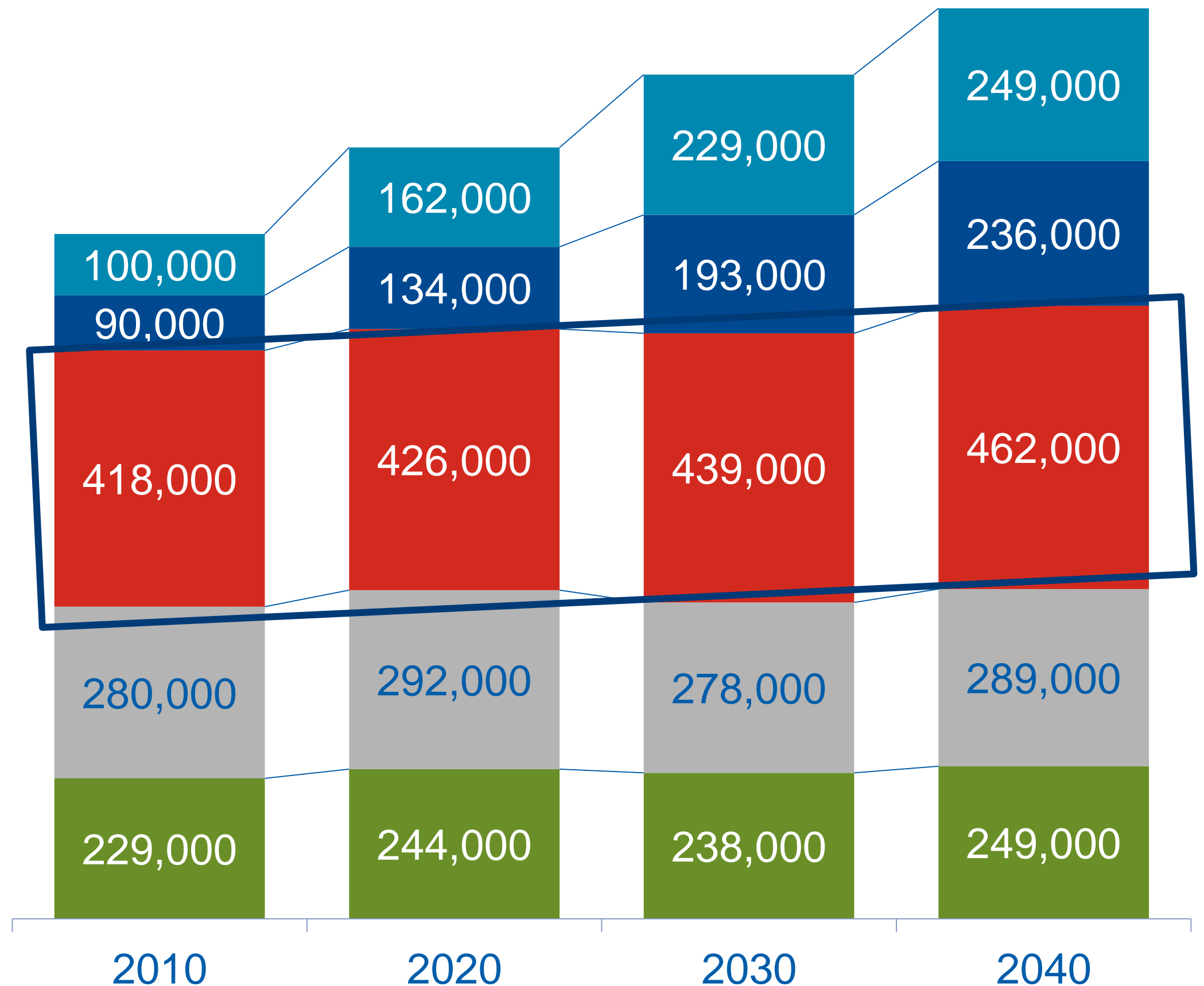
- The region will gain 370,000 households over 30 years
- Expect growth in all parts of the metro urban services area

Some aspects of the local forecasts are surprising – but consistent with larger demographic and market trends

- Long-term demand – for both locations and real estate types – will continue changing
- Long-term, the fastest growing market segments want central locations, access to destinations, and a mix of housing options

Households growth: smaller, older

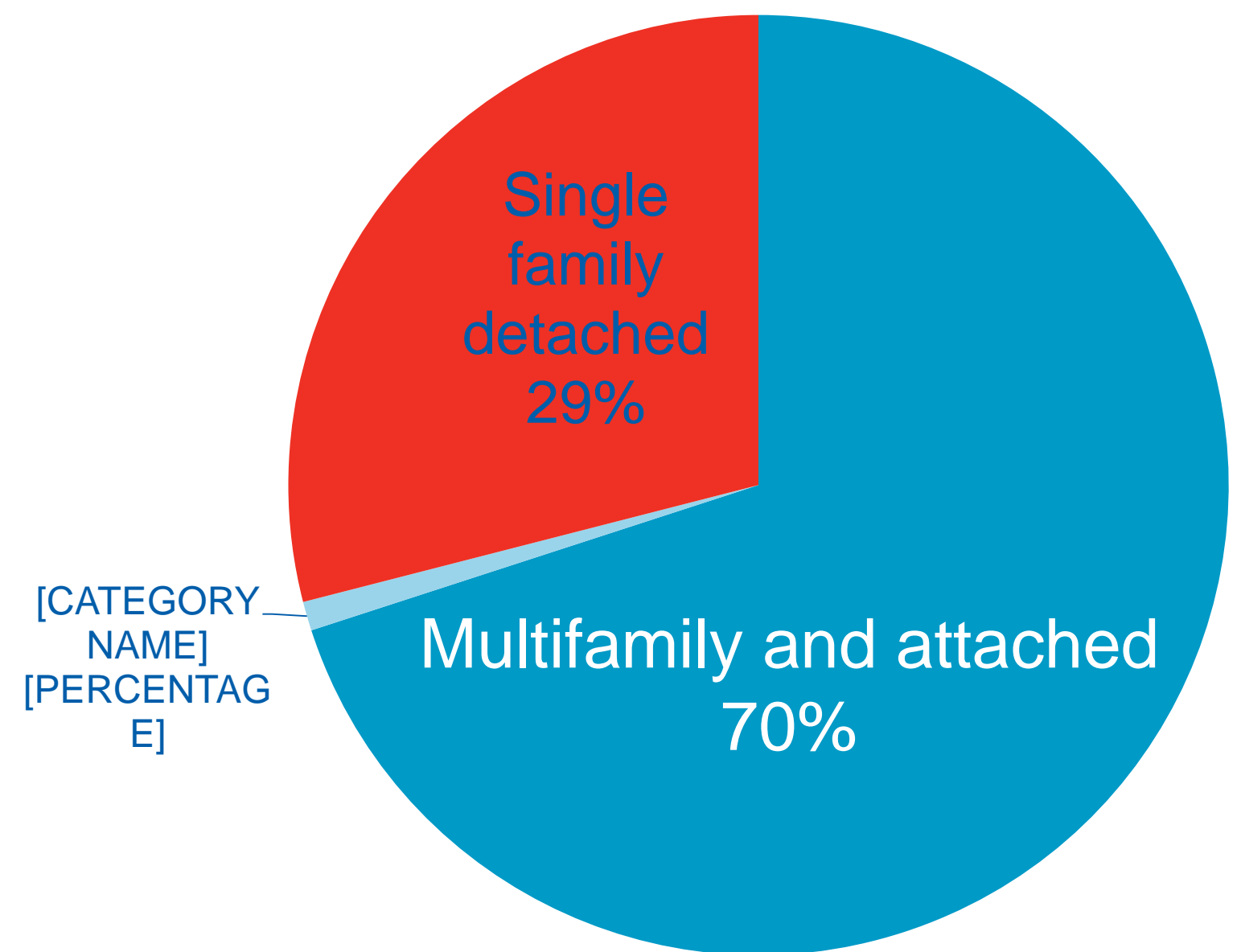
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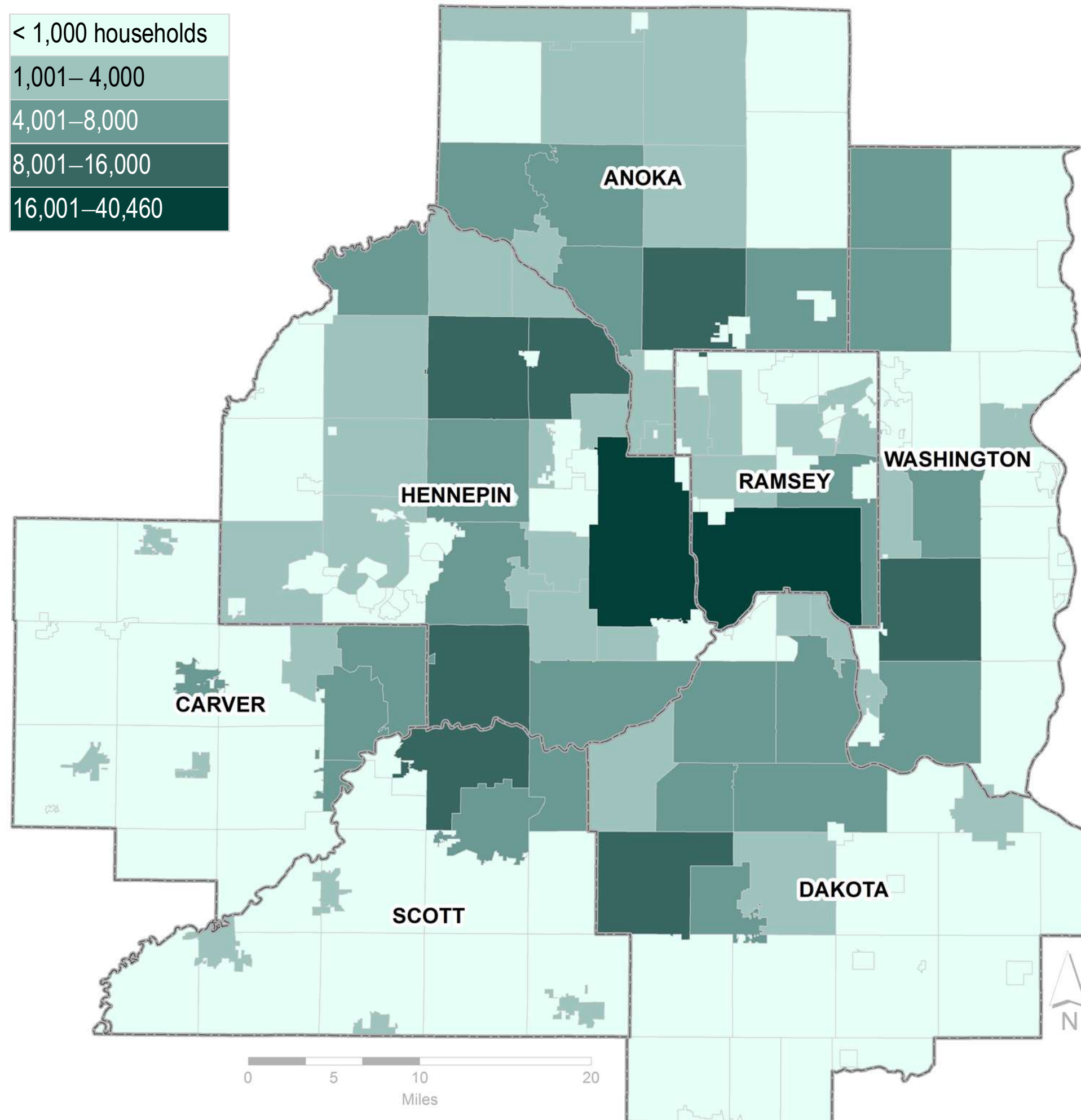
Source: 2010 data on population and households from Census Bureau;
2020-2040 forecasts from Metropolitan Council (March 2015)

The next 370,000 housing units

- With this demographic mix, most housing to be added will be multifamily or attached housing
- This is an estimate of long-term *demand*
- What developers have supplied or will supply could differ

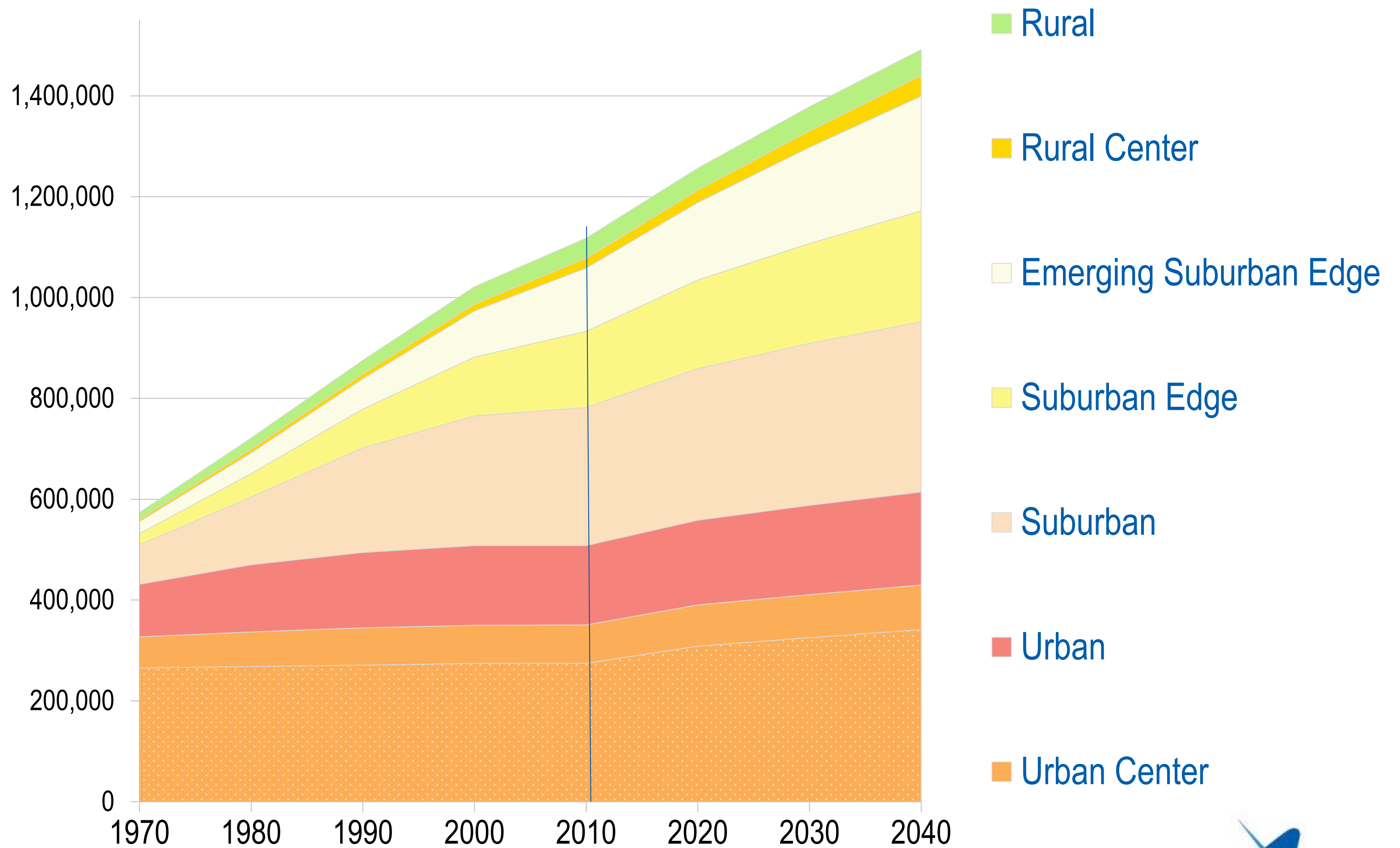


Households Growth, 2010-2040



- The region will gain 370,000 households over 30 years
- Expect growth in all parts of the metro urban services area

Growth in all parts of the region



2010-2040 forecasts from Metropolitan Council (July 2015 update)

More information

www.metrocouncil.org/forecasts/

Forecasting the next 30 years of metro development

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