FACT: Clackamas County, along with all Oregon cities and counties that create transportation system plans, is required to use a coordinated population forecast for its' planning. Because part of Clackamas County is inside the Metro Boundary, the County has two options for what population and employment forecast data is used:

- 1. Use the population and employment forecasts that Metro uses in the Regional Transportation Plan (RTP), or
- 2. Develop an alternative forecast, coordinated with Metro, to account for changes to comprehensive plans or land use regulations that were adopted locally after the RTP was adopted by Metro.

BACKGROUND: The State of Oregon has required that land use and transportation plans be based on a coordinated population forecast since the mid 1970's. Coordinated population forecasts are the responsibility of counties (ORS 195.036) with the exception of the area within the Metro urban growth boundary (UGB).

- The area of Clackamas County inside the Metro urban growth boundary is included in Metro's forecast that is used for state land use and transportation planning.
- Clackamas County has not conducted a separate coordinated population forecast for the area
 outside the Metro boundary for more than two decades. The County is currently working with
 rural cities to develop a coordinated forecast in conjunction with the update of the Metro
 forecast.
- Metro, a Metropolitan Planning Organization (MPO), is also responsible for population and employment forecasting for use in regional transportation planning (federal) in the Portland-Beaverton-Vancouver Oregon-Washington Primary Metropolitan Statistical Area (PMSA). This PMSA consists of seven counties – Clackamas, Washington, Multnomah, Yamhill and Columbia in Oregon, and Clark and Skamania in Washington. This forecast, which is updated every five years, covers all of Clackamas County.

The current Clackamas County TSP Update process must be consistent with Metro's current household and employment forecast through 2035. (The population forecast is developed from the household forecast.) This forecast (see below) is expected to be adopted by Metro by the end of 2012 and then forwarded to the State Land Conservation and Development Commission for review.

Most Recent Metro Forecast	2010 Households	2035 Households	2010 – 2035 Change	2010 Employment	2035 Employment	2010 – 2035 Change
Clackamas County	146,324	205,369	59,045	137,946	210,340	72,394
Multnomah County	304,649	442,778	138,129	419,164	597,532	178,368
Washington County	202,647	294,174	93,527	232,019	382,310	150,291
Clark County	158,110	228,392	70,282	127,267	222,029	94,762
TOTAL	811,730	1,170,713	358,983	916,396	1,412,211	495,815

Metro Household and Employment Forecast Model Components

(For more information on the components reviewed below, go to: http://www.oregonmetro.gov/index.cfm/go/by.web/id=39026.)

- **1.** The Metro Regional Population Forecast uses a standard population cohort survival methodology. This methodology estimates future populations using basic demographic data broken down into *cohorts* age and gender specific groups. The forecasts use the size of each age group in the base year population, and the expected deaths rates and expected migration for each age cohort during the forecast period, plus the estimated number of new births, to estimate the future population.
 - The mortality rates are age-specific, based on the U.S. Census middle series assumptions and further calibrated to base year vital statistics for the region as a whole.
 - New birth cohorts are generated by applying age-specific fertility assumptions to the female population of child-bearing age (assumed to be 10 to 49 years old), based on the U.S. Census middle series assumptions and further calibrated to base year vital statistics for the region as a whole.
 - Net migration is projected from an econometric equation and disaggregated into age groups based on census distributions.
- **2. The Metro Regional Employment Forecast** is based on an econometric forecasting model that describes regional economic behavior. It Includes equations for employment sectors, wage sectors, income components, population and migration, productivity, inter-industry demand variables and a number of identity equations.
- **3.** The Regional Land Supply Model is a recently-updated GIS-based model that estimates the available land supply for residential and employment land uses at the parcel level for the Portland Region.
- **4. The Metroscope Model** allocates the forecast household and employment growth to the available land supply in the region.
 - It uses output from the **Regional Travel Demand Model** (see below) in the allocation process.
 - It uses two internal real estate location models, one for residential location and one for nonresidential location, that
 - o predict the locations of households and employment respectively,
 - o measure the amount of land consumed by development,
 - o measure the amount of built space produced, and
 - o measure the prices of land and built space by zone in each forecast time period.

5. The Regional Travel Demand Model:

- Predicts travel activity levels by mode (bus, rail, car, walk or bike) and road segment;
- Estimates travel times between transportation analysis zones (TAZs) by time of day, and
- Produces a measure of the cost perceived by travelers in getting from any one TAZ to any other.

Metro Economic and Land Use Forecasting (see graphic, below)

The following graphic shows the relationship between the various measures, models and reports used by Metro for economic and land use forecasting. The forecasting is done by the Metro Research Center that is made up of three divisions: Data Resource Center, Transportation Research and Modeling Services, and Economic and Land Use Forecasting (ELF).

