



Presentation to Begin Shortly After 2:00 PM (EST)

SESSION 2: EYES WIDE OPEN- THE ECONOMIC AND DEMOGRAPHIC EFFECTS OF FEDERAL POLICY

Presented by Marley Buchman, Senior Economic Associate

what does **REMI** say?sm

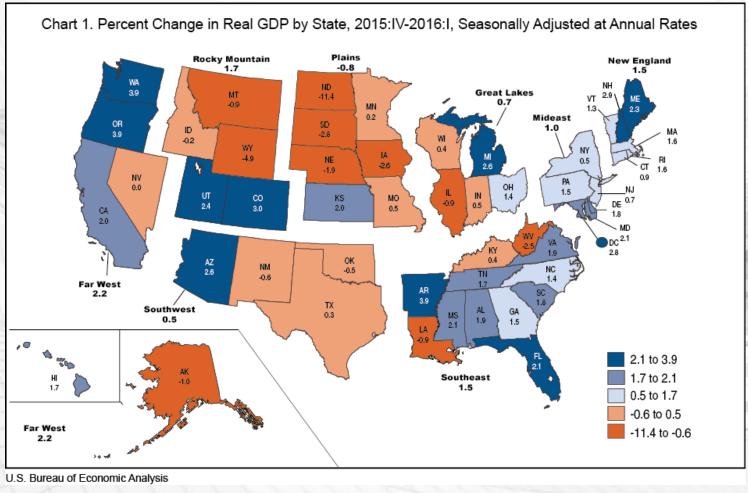
Launch Series Schedule



Session 3: Transportation Revolution – Analyzing the Effects of Innovation in Transportation April 11th and April 13th, 2:00 PM EST

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State GDP Growth (2015-2016)





Determinants of Long Run Growth





Long Run Output Growth = Labor Force Growth + Productivity Growth

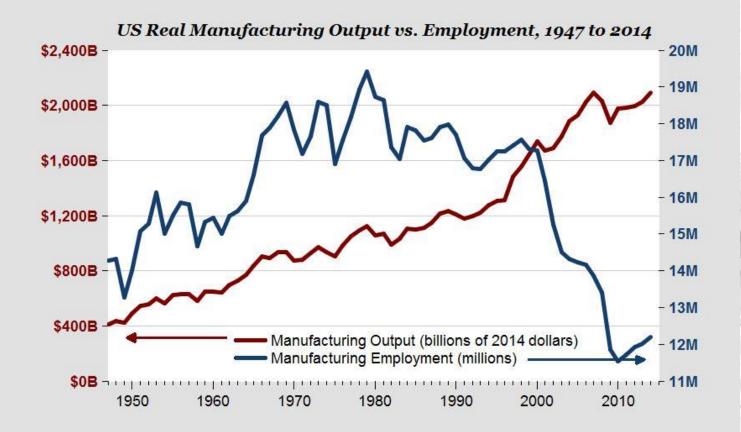
Y = Output P = Productivity LF = Labor Force

Assumptions: These factors are the long run, smoothing fundamentals that determine growth

This description of economic growth applies when the economy is close to full employment

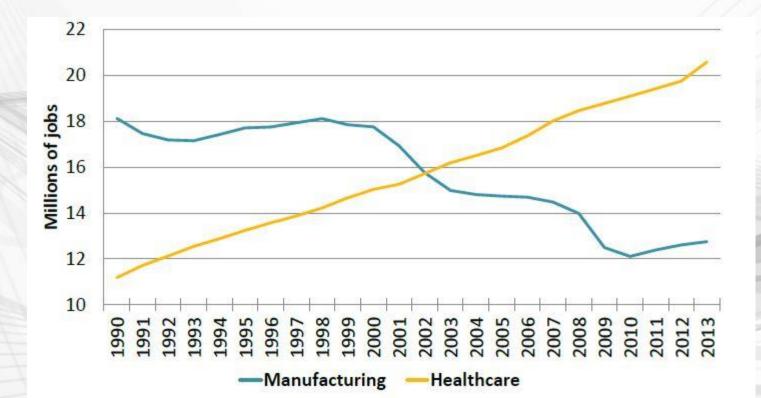
Manufacturing Productivity/Output





Manufacturing and Healthcare Employment





Cohort-Component



= Starting Population

- + Natural Growth (+Births, -Deaths)
- + Net Migrants (+In, -Out)
- = Ending Population

Region Portland MSA			
Category	Units	2015	2016
Starting Population	Thousands	1885.899	1899.318
Natural Growth	Thousands	9.079	8.793
Population Before Migrants	Thousands	1894.978	1908.11
Migrants	Thousands	4.340	6.638
Unexplained Growth	Thousands	0.000	0.000
Ending Population	Thousands	1899.318	1914.748

Demographics in the Model



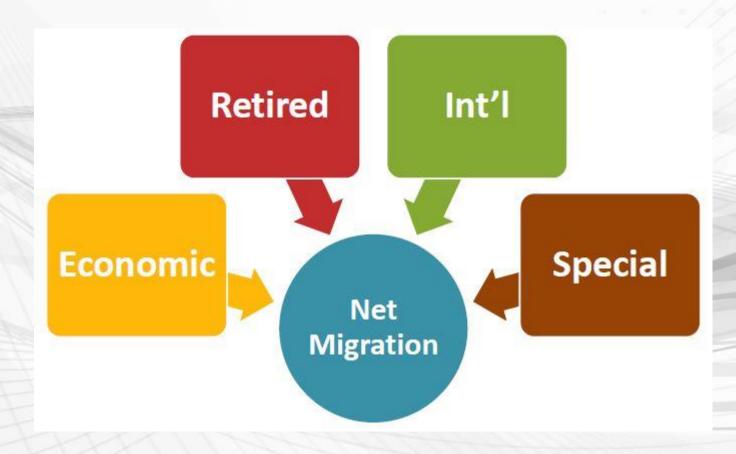
Sex: Male/Female

 Race: White-NonHispanic, Black-NonHispanic, Other-NonHispanic, Hispanic

 \Box Age: 101 Age Cohorts from (0 – 100+)

Migration Concepts





Economic Migration



$$ECMG_t^l = \left[\lambda^l + \beta \ln\left(REO_t^l\right) + \beta \ln\left(RWR_t^l\right) + \beta \ln\left(MIGPROD_t^l\right)\right] * LF_{t-1}^l$$

ECMG = Net Economic Migration

REO = Relative Employment Opportunity

RWR = Relative (Real) Wage Rate

MIGPROD = Consumption Access

Lambda = Fixed Amenity

Exogenous Concepts

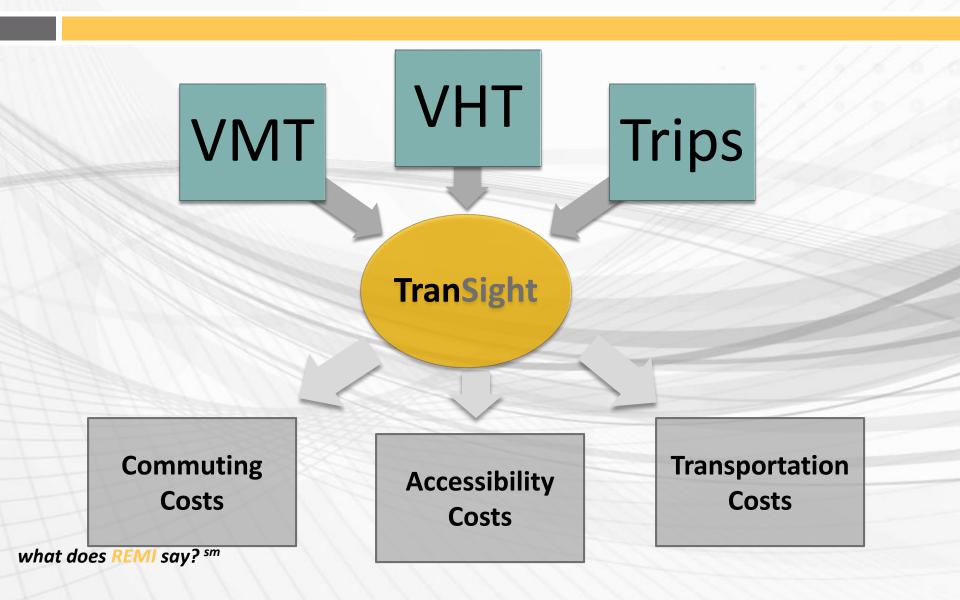


International Migrants:

- Based on historical patterns
- Many of the determinants of international migration are not closely tied to regional factors (economic/political conditions of foreign countries, available visas for U.S. immigration)
- Special Populations:
 - These demographic groups don't respond to changes in labor market conditions

Integration with TranSight







Model Demonstration & Results

Contact Information



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