



COMMUNITY POLICY ANALYSIS CENTER

Providing research , outreach and training that support
improved policy decisions in Missouri communities

Columbia MPO Baseline Study

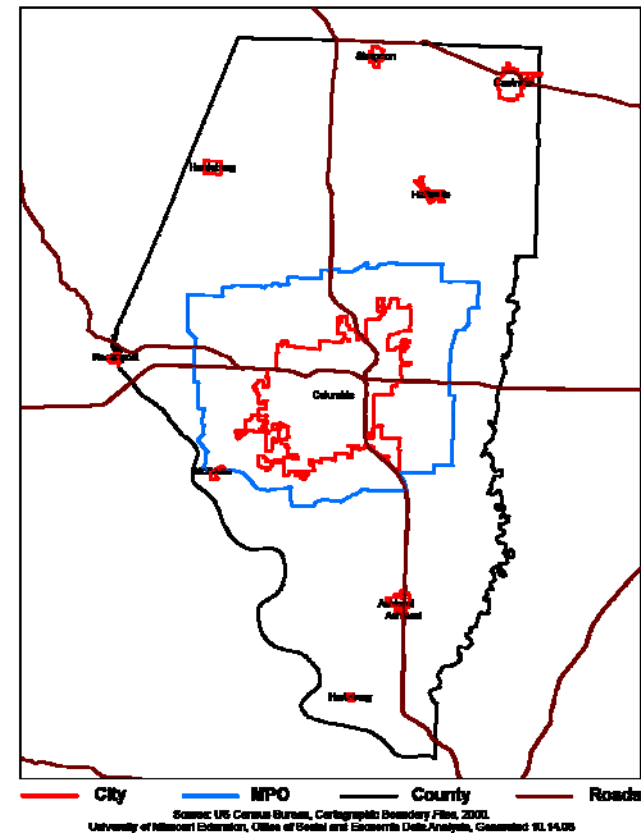
Meeting 5: Baseline Study Final Results
Columbia, Missouri

Tom Johnson ~ November 3, 2008

Agenda

- Baseline Study Basics
- Review of Economic Assumptions set by Advisory Panel on 04/14/08
- Boone County Forecasts
- Scenario Analysis

**City of Columbia
Columbia Metropolitan Planning Organization
Boone County, Missouri Boundaries, 2000**



Community Policy Analysis Center

University of Missouri Community Policy Analysis Center

CPAC's Mission

Provide research, outreach and training that supports improved policy decisions in Missouri communities

- Interactive decision support and policy education
- Links between federal, state, and local policy



Community Baseline Process

4 Key Variables (assumptions) are set by Advisory Panel and can change. These determine forecasts.

Forecasted Variables depend upon the assumptions (or 4 Key variable growth rates)

Employment Growth Rate

(1.9% per year)

External Employment Growth Rate

(1.1% per year)

Per Capita Personal Income Growth Rate

(1.5 % per year)

External Labor Force Growth Rate

(0.5% per year)

Population

Labor force

Commuting

Poverty

Unemployment

Retail sales

Local government revenues

Local government expenditures

Housing / property value

Community Baseline Process

Community Advisory Panels attend 4–6 meetings

Meeting 1: Preliminary data and community issues
(01/22/08)

Meeting 2: Advisory Panel votes on 4 key
variables/assumptions (04/14/08)

Meeting 3: Discussion of results (05/19/08)

Meeting 4: Revisit Initial Forecasts (09/19/08)

Meeting 5: Final Presentation (11/03/08)



Current Activity:

SCENARIO ANALYSIS

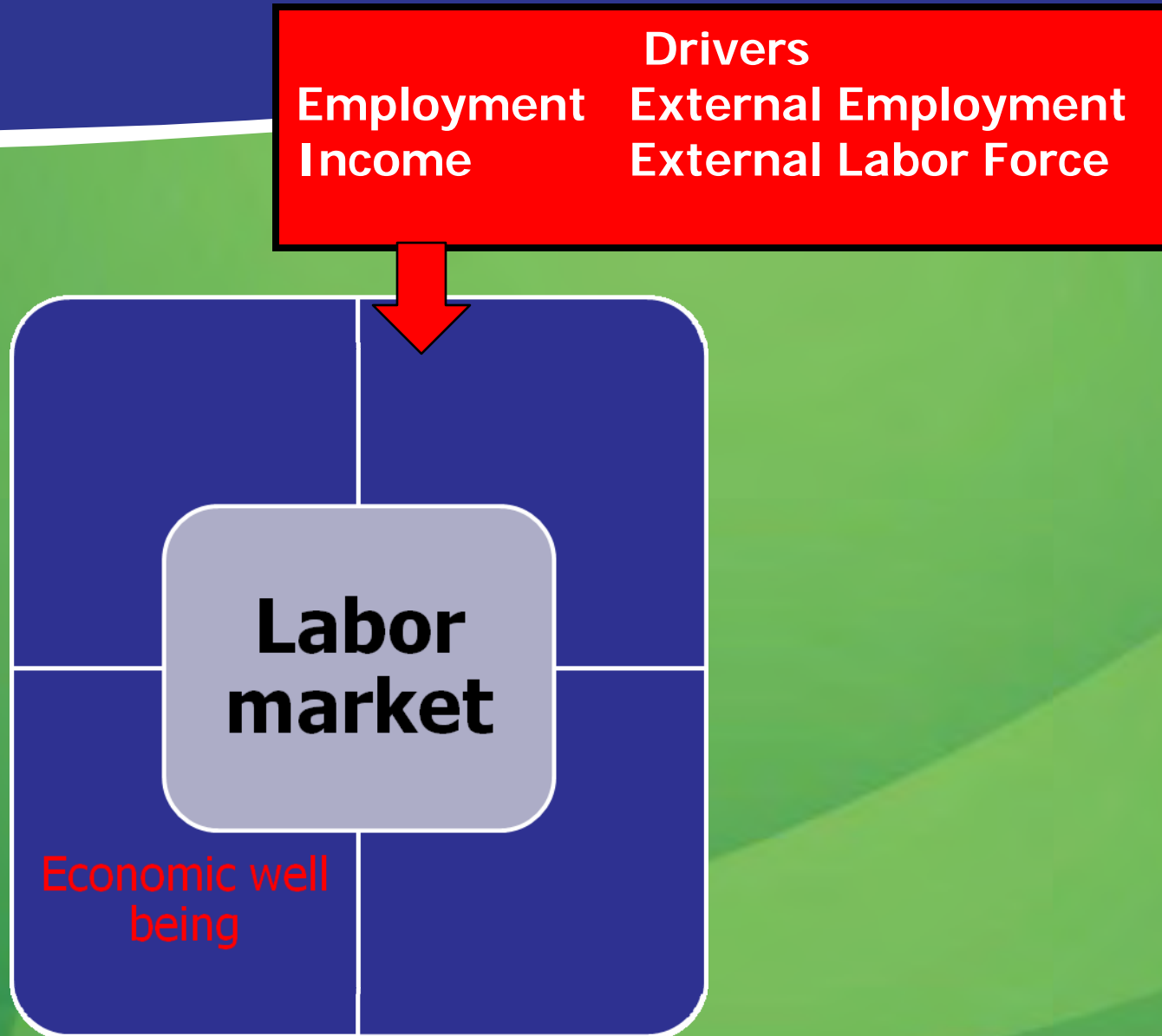
How the Show Me Model Works

Drivers
Employment **External Employment**
Income **External Labor Force**

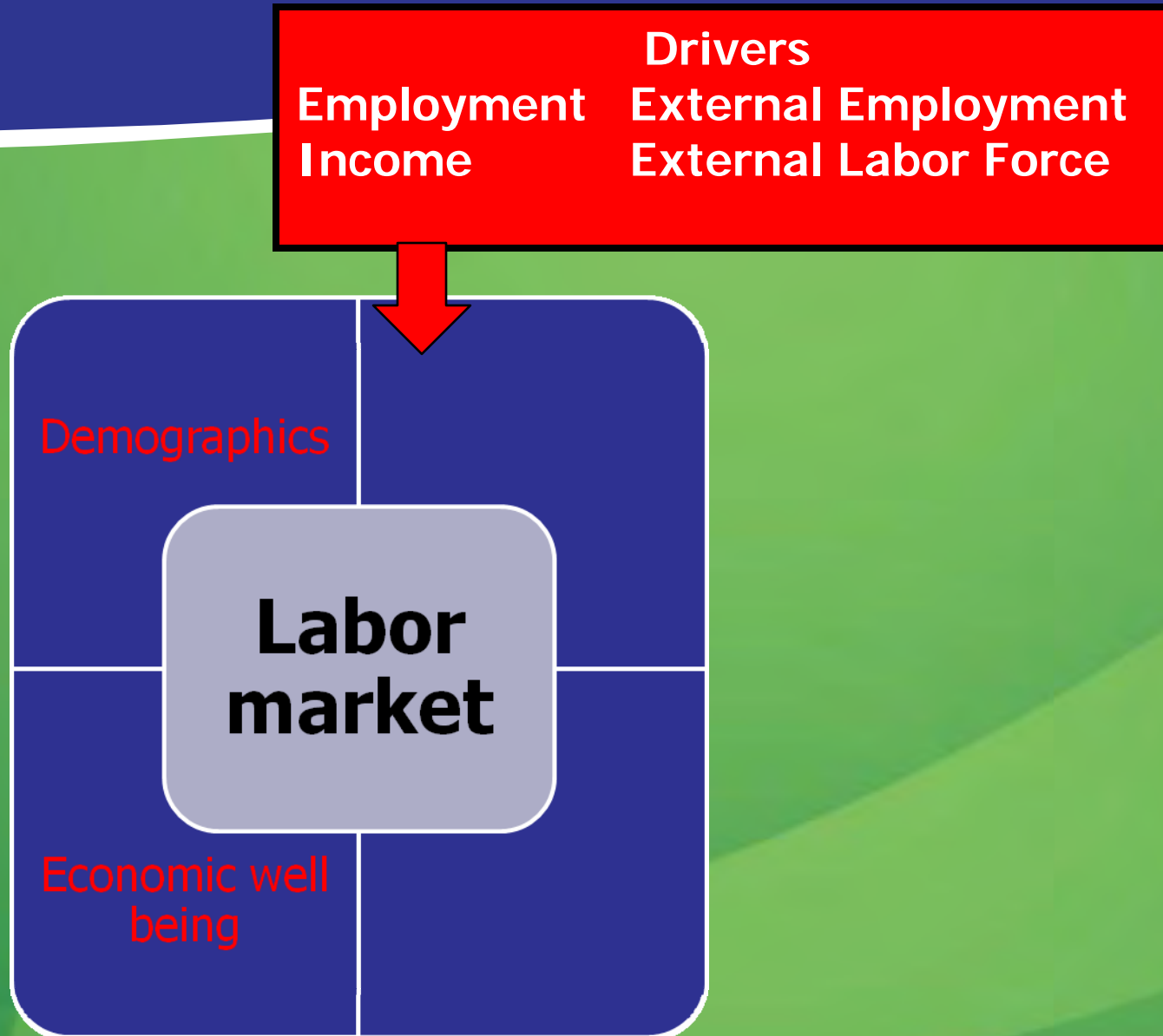


**Labor
market**

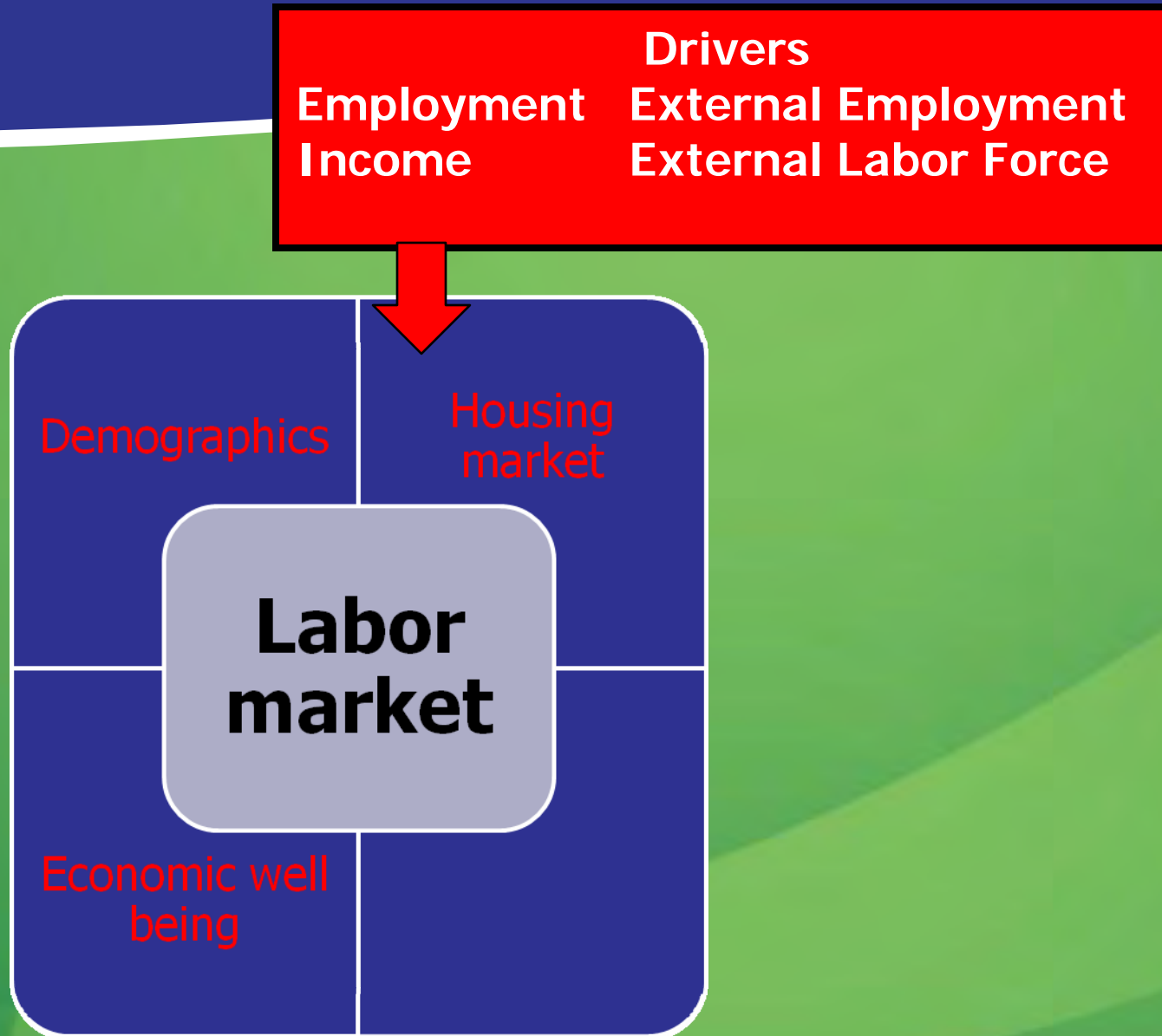
How the Show Me Model Works



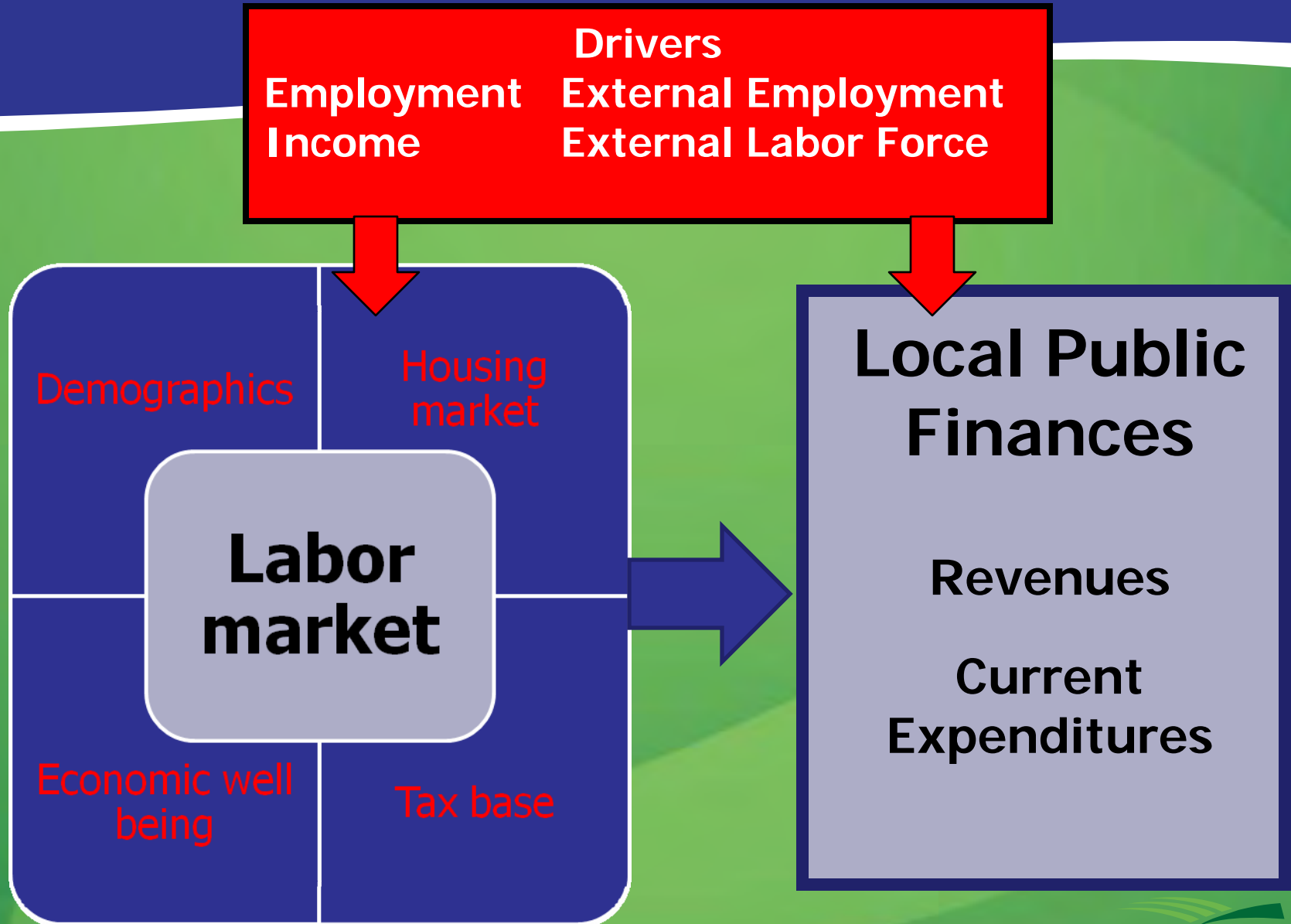
How the Show Me Model Works



How the Show Me Model Works



How the Show Me Model Works



ShowMe Model Components and Estimated Variables

Simultaneous Labor Market/Demographic/Economic Well Being/Housing Model

Demographics	Total populaiton	
		Population ages 0 to 4 years
		Population ages 5 to 17 years
		Population ages 18 to 64 years
		Population ages 65 years and older
Labor Market	Total labor force	
		Male labor force
		Female labor force
	In commuters	
	Out commuters	
	Second job holds	
	Unemployment	
Economic Well Being	Median household income	
	Population under federal poverty level	
Housing Market	Total occupied housing units	
		Owner-occupied housing units
		Renter-occupied housing units
	Median house value	
	Median month rental value	
Tax base	Assessed property value	
	Retail sales	

Local Public Finance Model

Total Local Public Revenues	
	Property Tax Revenues
	Sales Tax Revenues
	Intergov't Revenues
	Misc Charges Revenues, License & Fees
	Other Revenues
	Public Utility Revenues
Total Local Operating Public Expenditures	
	Public Education Expenditures
	Public Library Expenditures
	Public Health Expenditures
	Hospital Expenditures
	Welfare & Public Assistance Expenditures
	Public Housing Expenditures
	Street & Highway Expenditures
	Airport Expenditures
	Police & Judicial Expenditures
	Fire Protection Expenditures
	Parks & Recreation Expenditures
	Sanitation & Sewerage Expenditures
	Administration Expenditures
	Public Utility Revenues

Boone County/Columbia MPO Region

* External Counties

Audrain
Callaway
Cole
Cooper
Howard
Moniteau
Randolph

**External
Counties** are
counties that are
adjacent to
Boone County

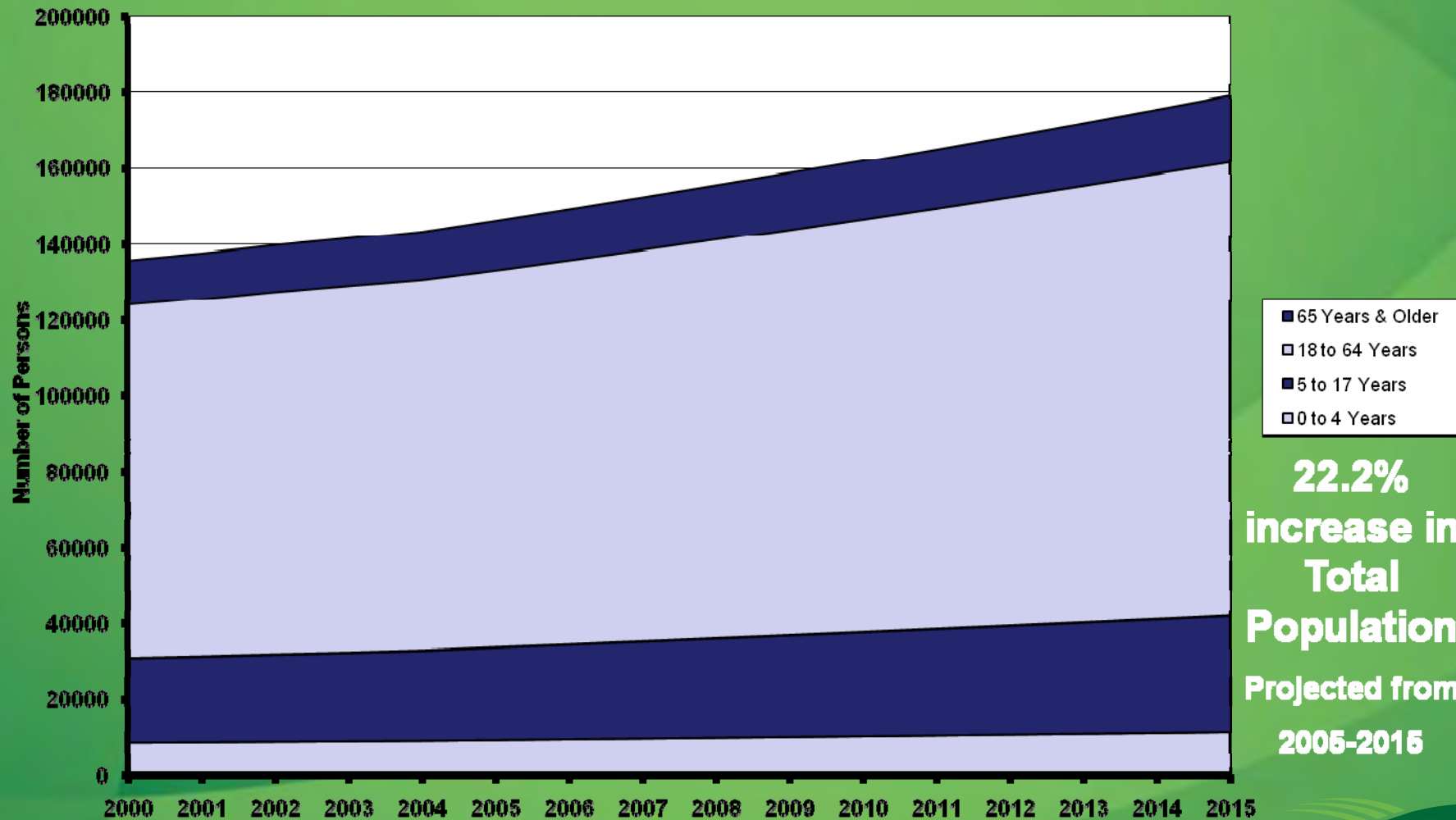


Boone County and Missouri Growth Rates

Variable	1995-2005 10-year		2000-2005 5-year		2003-2005 2-year		Average (of 10-yr, 5-yr, 2-yr averages)		Rates Chosen on 4/14/08
	Boone	MO	Boone	MO	Boone	MO	Boone	MO	Boone
Per Capita Personal Income	1.1	1.3	0.2	0.3	2.0	0.8	1.1	0.8	1.5
Employment	2.0	0.6	1.5	0.2	2.9	0.3	2.1	0.3	1.9
External Employment	1.4	X	0.8	X	1.2	X	1.2	X	1.1
External Labor Force	0.9	X	0.2	X	0.3	X	0.5	X	0.5

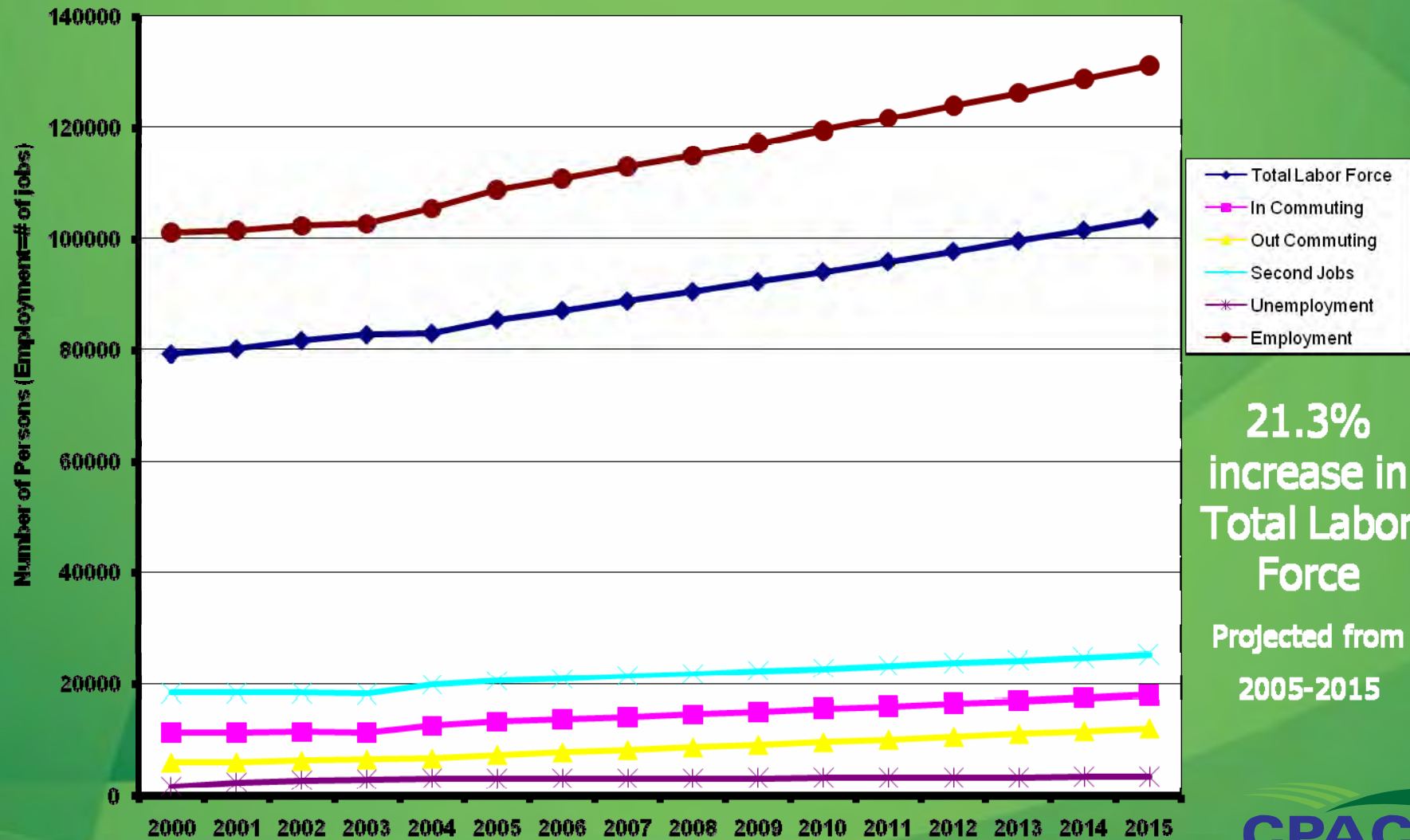
Population Projections, 2005-2015

Boone County



Labor Force Projections, 2005-2015

Boone County



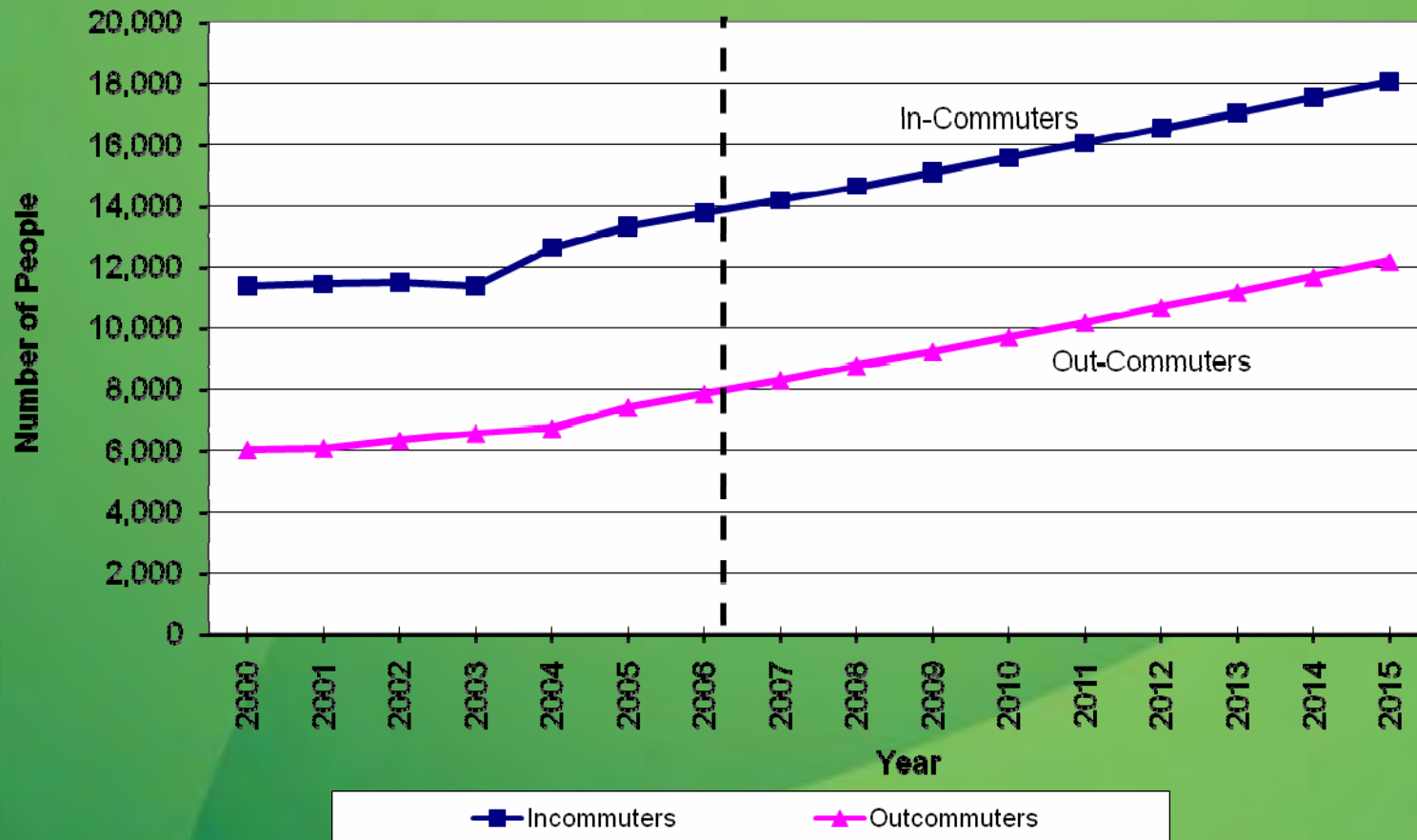
21.3%
increase in
Total Labor
Force

Projected from
2005-2015

CPAC

Commuting Projections, 2005-2015

Boone County



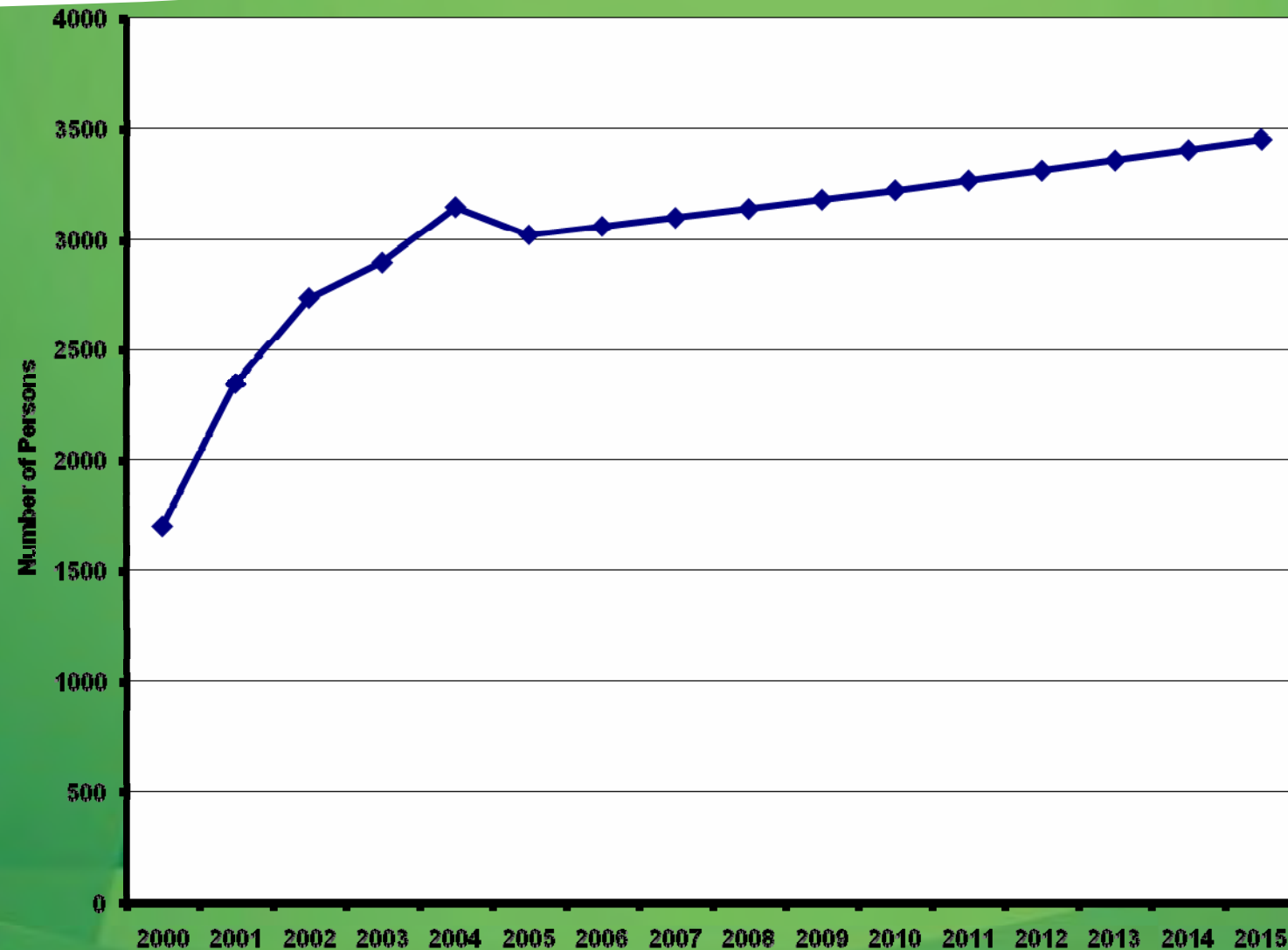
35.5%
increase in
In-Commuters

64.3%
increase in
Out-Commuters

Projected from
2005-2015

Unemployment Projections, 2005-2015

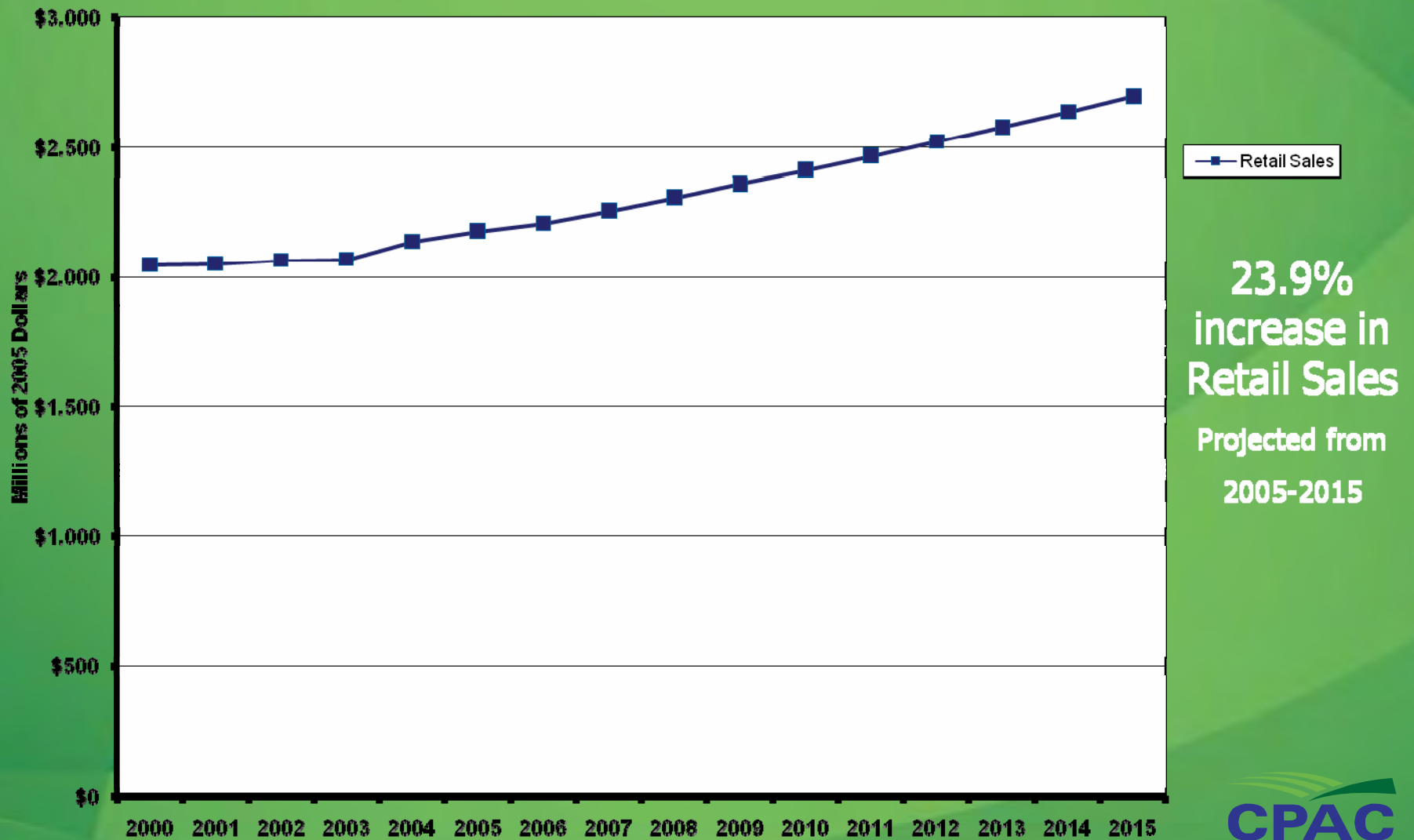
Boone County



14.2%
increase in
Number of
Unemployed
Projected from
2005-2015

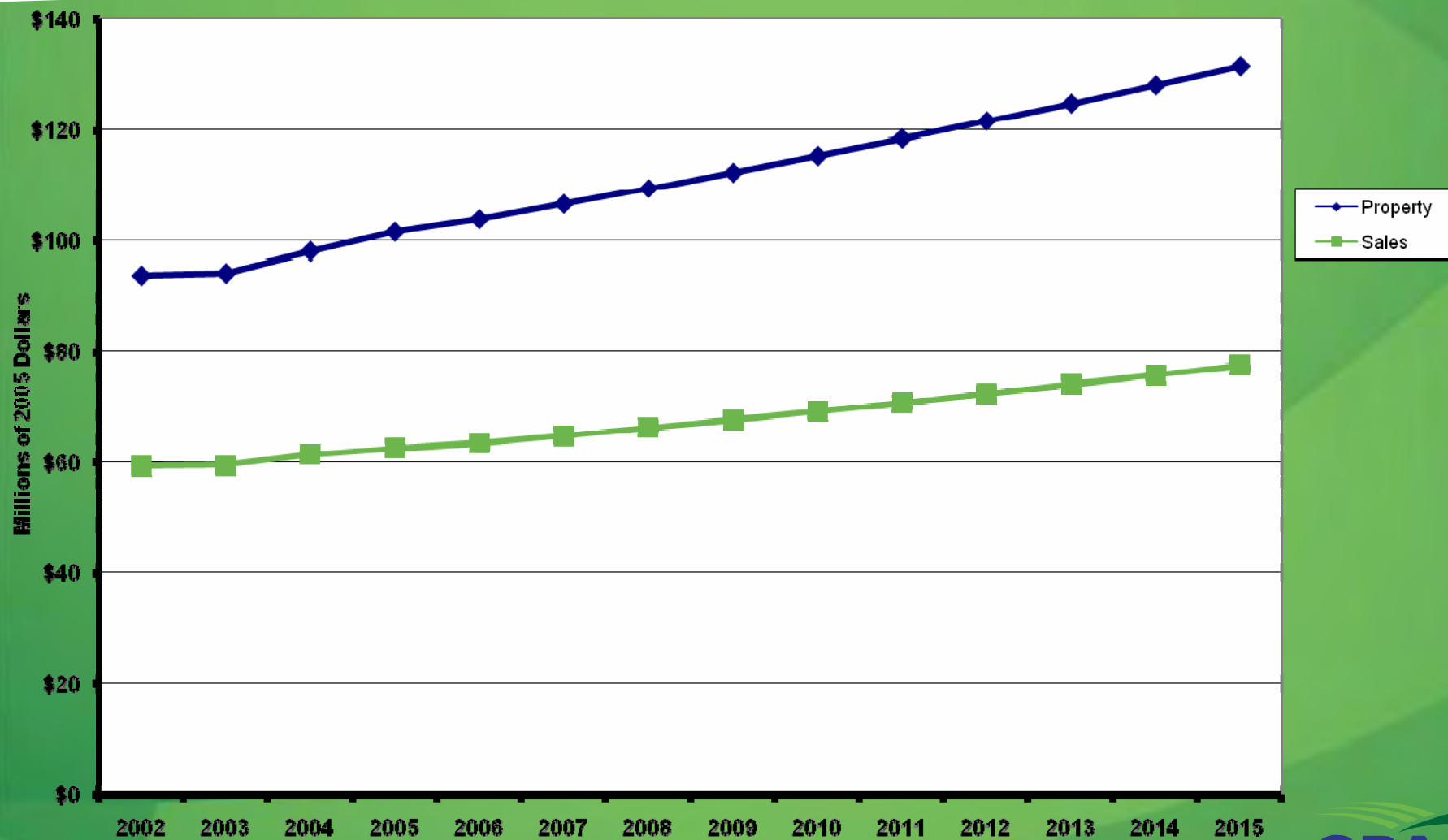
Retail Sales Projections, 2005-2015

Boone County



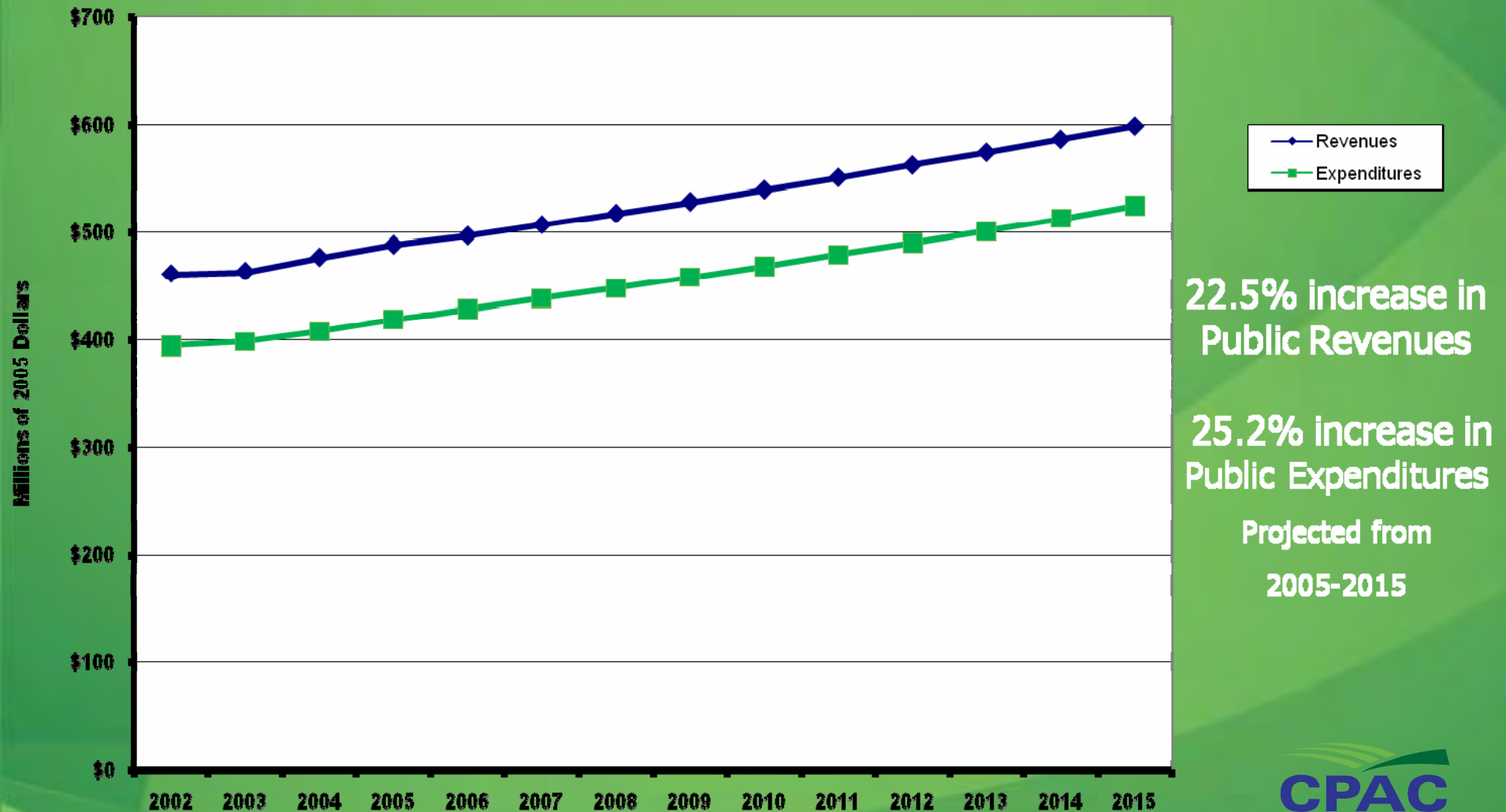
Property and Sales Tax Revenues Projections, 2005-2015

Boone County



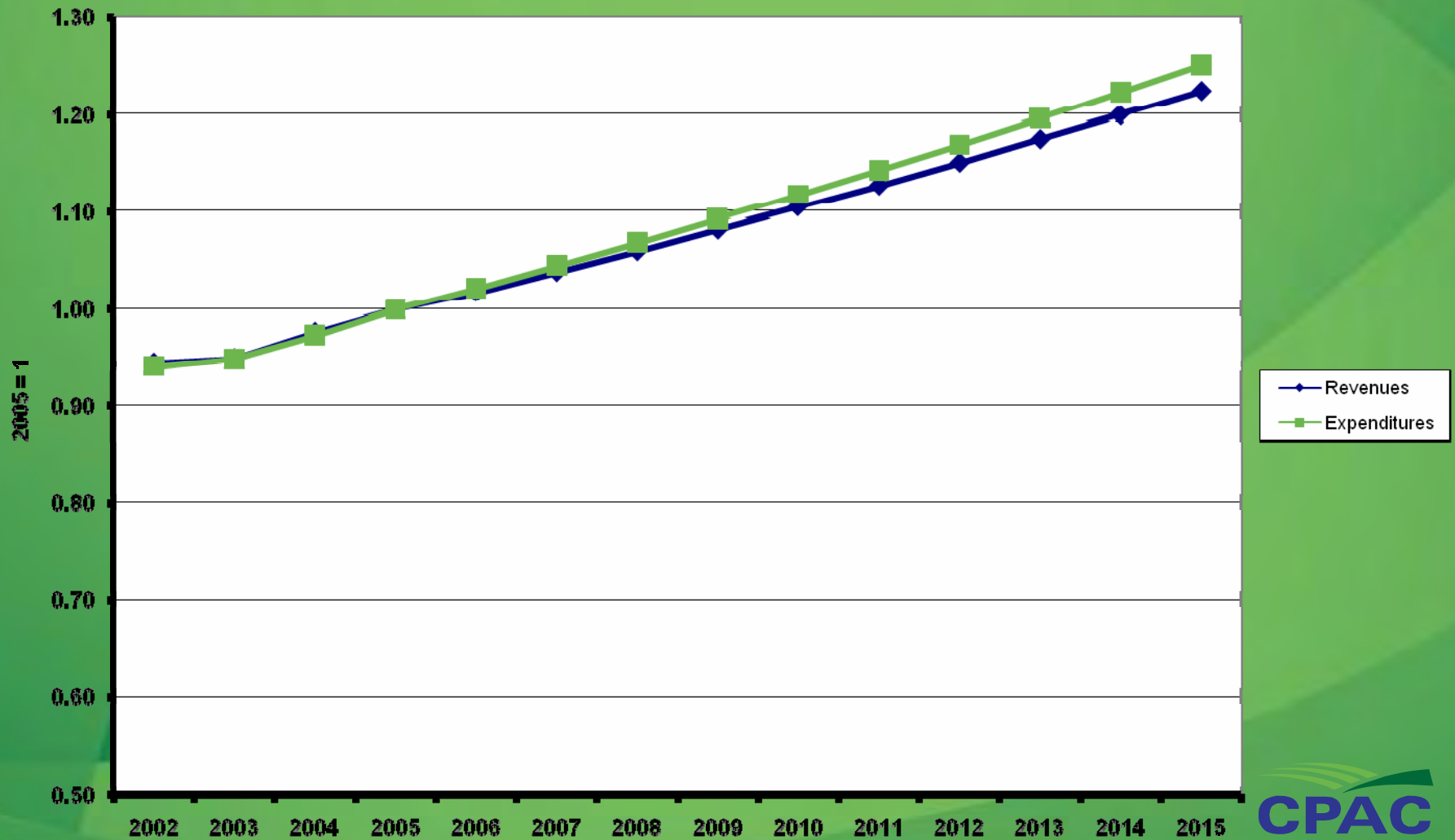
Public Revenues and Expenditures Projections, 2005-2015

Boone County



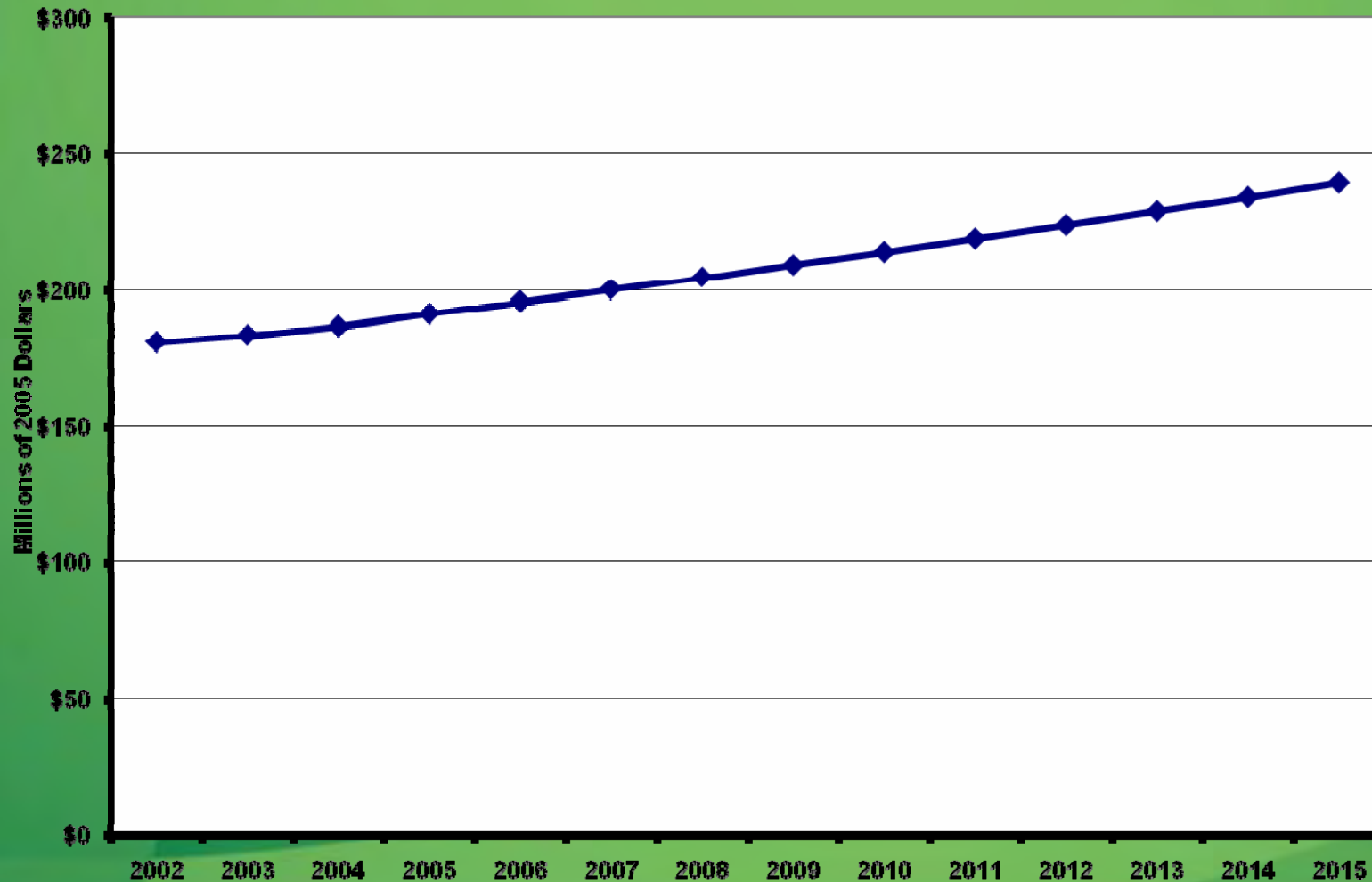
Government Revenues and Expenditures Index, 2005-2015

Boone County



Public Education Expenditures Projections, 2005-2015

Boone County



25.3%
increase in
Public
Education
Expenditures
Projected from
2005-2015

Forecasts Available for Other Government Revenues and Expenditures

REVENUES

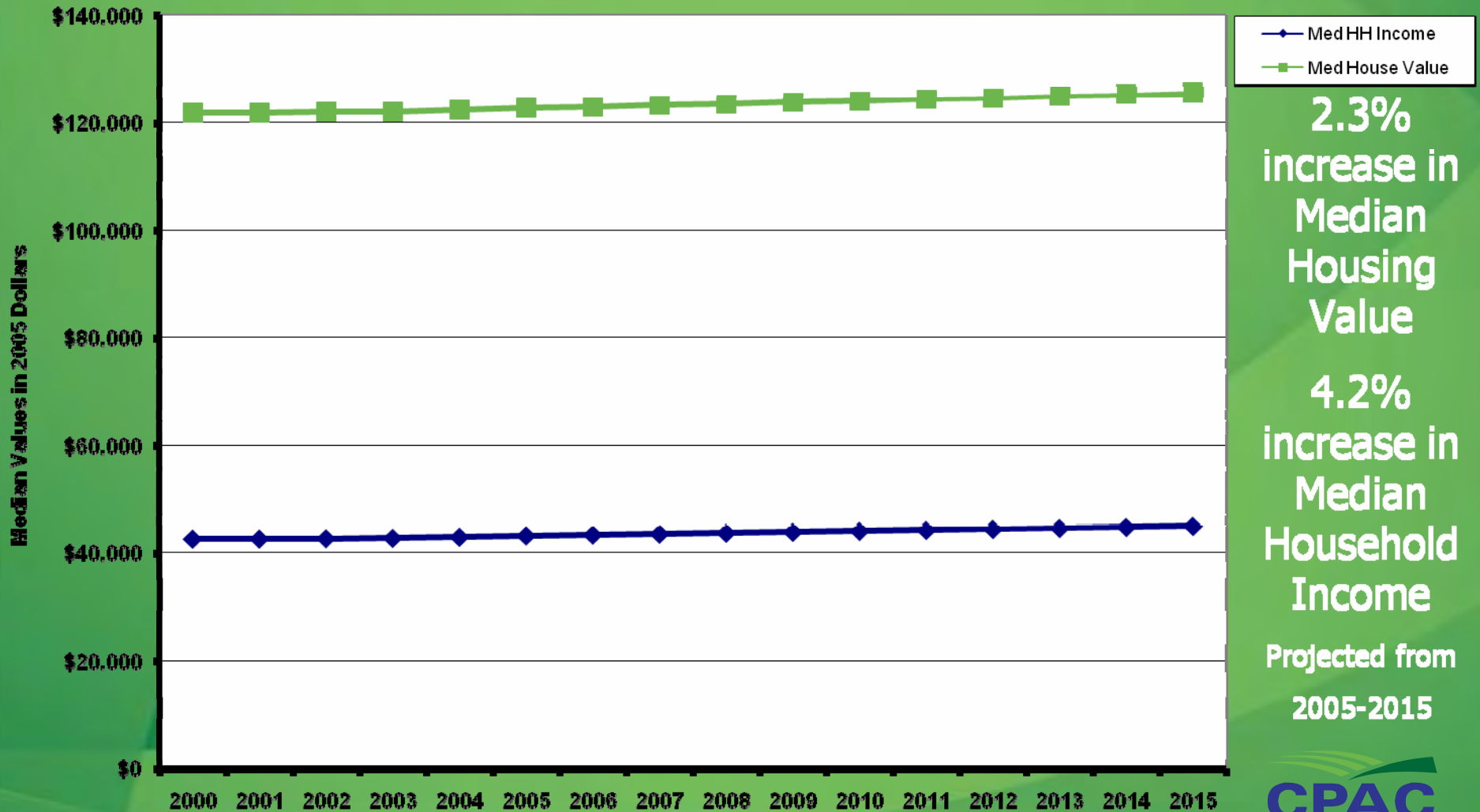
- Charges
- Intergovernmental Transfers
- Public Utility
- Other Public Revenue

EXPENDITURES

- Education
- Library
- Public Health
- Street & Highway
- Police & Judicial
- Fire Protection
- Public Housing
- Sewage & Sanitation
- Public Administration
- Public Utility

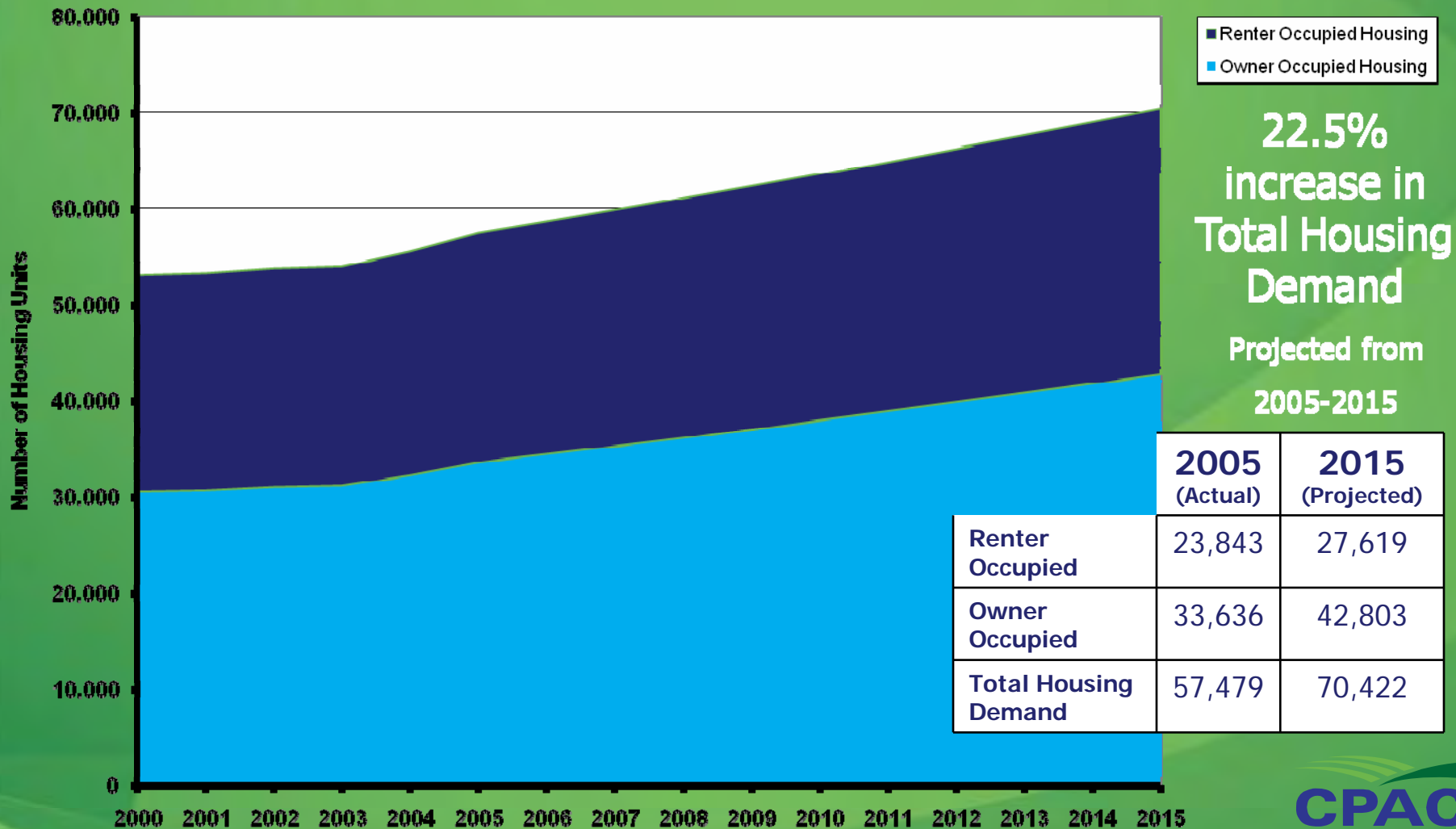
Median Household Income vs. Median House Value Projections, 2005-2015

Boone County



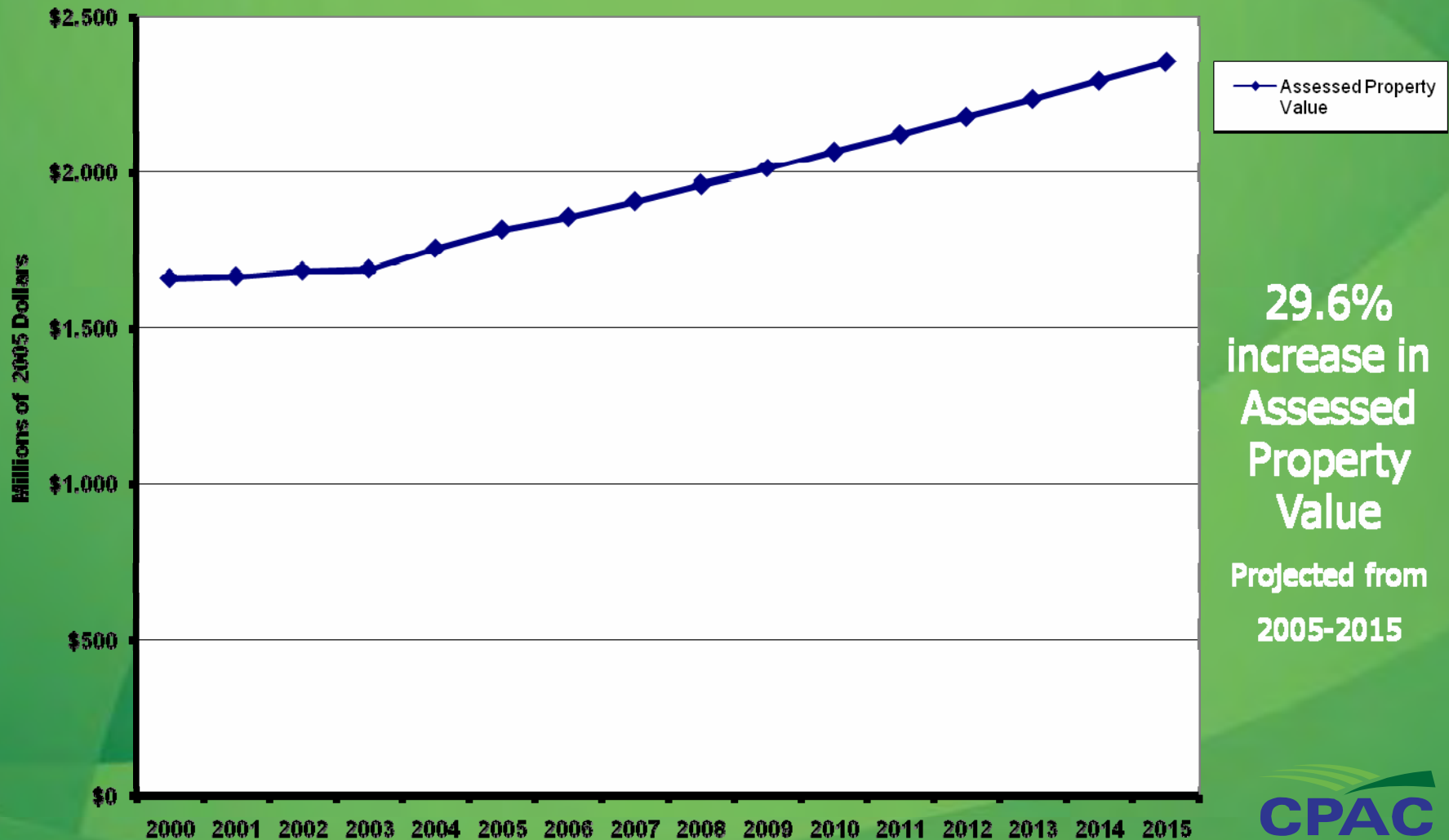
Renters, Owners and Occupied Housing Units Projections, 2005-2015

Boone County



Assessed Property Value Projections, 2005-2015

Boone County



Final Report

Final Report includes:

- Materials presented today
- Alternate projections based on 10-yr, 5-yr, 2-yr and average key variable growth rates
- Actual numbers/values projected for each variable

Next Step: Scenario

Use the Show-Me Model to project likely outcomes of cluster development in the MPO Region in the following sectors*:

1. University of Missouri (state employment)
2. Medical
3. Insurance
4. Retail
5. Manufacturing
6. Technology
7. Retirees

* These sectors were chosen by the Community Advisory Panel because they are top employment sectors in the community, areas that REDI/MU's economic development initiative have identified as targets, and/or of particular interest to the Community Advisory Panel for the CPAC Columbia MPO study.

How to Contact CPAC

- Web page includes many of our studies
<http://www.cpac.missouri.edu/>
- E-mail CPAC at cpac@missouri.edu
- Call 573-884-9009
- Fax 573-882-2504
- Call or email Tom Johnson directly at
573-882-2157 or johnsontg@missouri.edu