

**BACK TO (SEE) THE
FUTURE**

**CONTINUING WORK ON THE
SOUTH COAST SIMULATION
MODELING PROJECT**

Outline

- **Introduction**
- **History of “See The Future”**
- **Model Capabilities and Developments**
- **My 5 tasks**
- **Progress on my 5 tasks**
- **Future of “See The Future”**

Who am I?

- **Jeff Onsted**
- **Second year graduate student at UCSB's Department of Geography**
- **Background:**
 - **BA Urban Studies and Planning, UCSD**
 - **4 years of environmental research experience ranging from Renew America to SAIC**

In the beginning...

- **1998 - ECP and UCSB Geography hire Prescott College to build “See The Future” Model of South Coast using state funds**
- **Original Intent? Discover why there was crunch in South Coast middle income housing**
- **Off to great start, but unable to complete due to lack of funds**

And now...

- **NSF Urban Research Initiative (Clarke & Couclelis PIs) changes focus to SB and seeks ways to couple “See The Future” with Urban Growth Model**
- **“See The Future” work restarted at UCSB to forecast non-spatial indicators for the South Coast**

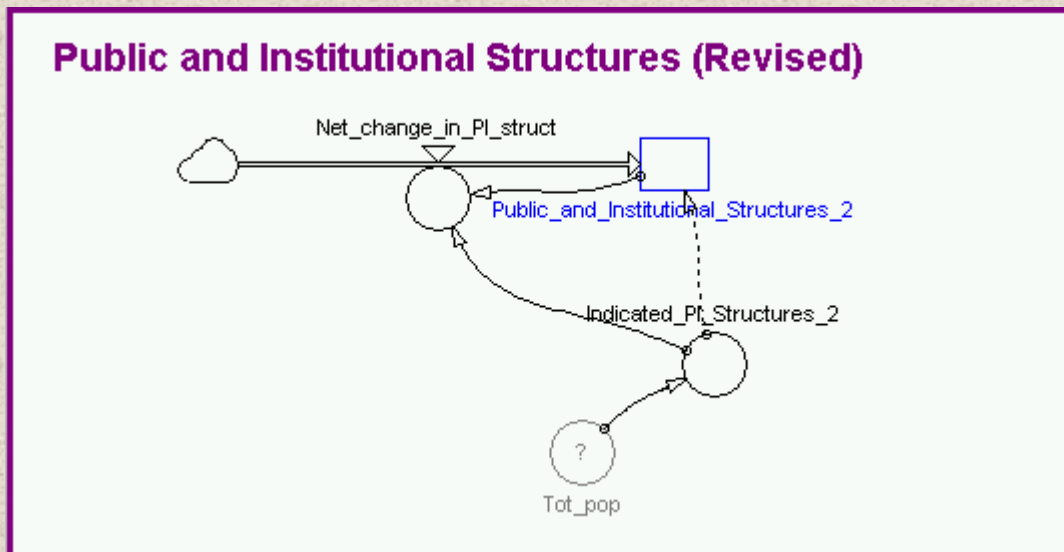
What can the model do?

- **Capable of forecasting many aspects of community including:**
 - **Population**
 - **Crime**
 - **Water Quality**
 - **Median House Prices**

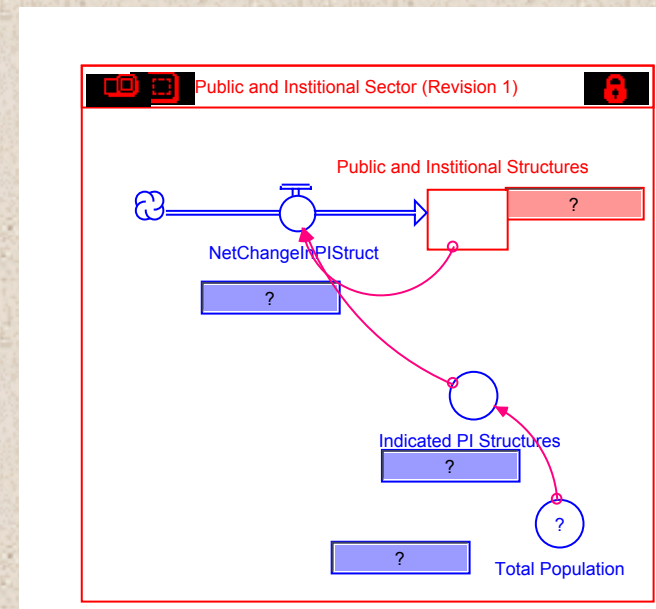
So what am I doing?

- I have been charged with 5 general tasks:
 - 1 Transfer from PowerSim to Stella

PowerSim




Stella




The other 4 tasks:

- 2 Simplify model**
- 3 Couple “See The Future” with Clarke Urban Growth Model**
- 4 Generate a small, useful set of community indicators**
- 5 Create user-friendly interface and then “webify” it**

How much have I done?

- **The transfer is complete** 
- **Simplify the Model - Revised model generates only a subset of the original ECP indicators**
- **Coupling (beginning stages)**
- **Indicators (some finished, others coming)**
- **“Webification” (should begin in late Fall)**

Challenges

- **Need more South Coast historical data**
- **Model coupling is cutting edge research**
 - **Cellular automata**  **Numbers**
- **More indicators means more complexity**
- **Accuracy (“Keeping it real”)**