Scenario Planning Model (SPM): Status Overview

Presentation to the Modeling Task Force

May 28, 2014
Outline

What is SPM
- Data Repository and Exchange System
- Land Use Scenario Creation and Editing
- Co-benefit Analysis and Visualization

Primary Purposes
Current Model Specification
Development Efforts
Development Flow
What is SPM?

- A comprehensive web-based land use sketch planning tool for data organization, scenario development and modeling.
### Data Repository and Exchange System

- A spatial data portal to provide local jurisdictions with easy access to SCAG’s spatial data resources
- A platform to share, review, and update data between SCAG and local jurisdictions

![Data Repository and Exchange System Diagram]

#### PRIMARY DATA
- Local land use
- Parcels
- Land cover
- Census

#### FORECAST DATA
- Socio-economic
- Landuse

#### LOCALS
- Local Base Year Data

#### SCAG
- Regional Base Year Data

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**Data Repository and Exchange System**
Land Use Scenario Creation and Editing

- A scenario planning tool with a capability that translates existing plans and scenarios into the model’s common language of building/place types and facilitates scenario creation and editing.
Co-Benefit Analysis and Visualization

- A sketch level analysis tool with full co-benefit analysis capacity that assesses the fiscal, environmental, transportation, public health, and community impacts of future scenarios.
Primary Purposes

- Provide a common data framework within which local planning efforts can be easily integrated and synched with regional plans
- Facilitate informed decisions by providing better information about alternative futures
- Serve as a conduit between local jurisdictions and key SCAG models
Current Model Specification

- Built on ‘UrbanFootprint (UF)’ modeling platform developed by Calthorpe Associates
  - Web enabled
  - Open source
  - Full analytic engines
  - Modula and expandable
Development Efforts

- Coordinated multi-MPO efforts to enhance and customize the UF

Scenario Development and Modeling
- Data Prep and UF Base Creation
- Base Year/Primary Parcel Editing Tools
- Transition from Grid to Parcels
- User Interface Enhancements/Software Upgrades

Scenario Development and Modeling
- Data Prep and UF Base Creation
- SCS Alternative Development and Modeling
- User Interface Enhancements/Software Upgrades

Local Review and Scenario Modeling
- Data Prep and UF Base Creation
- Links to Local Governments
- Pilot for Local Input Process
- User Interface Enhancements/Software Upgrades
Development Flow

**Initial Phase**
- Establish and Test Regional – Local Data and Web Connections
- Pilot Initial Iteration of Local Review Capability

**Local Review Advancement & Deployment**
- Local Data Review and Editing Advancement
- Single City Advanced Pilot
- SPM Working Group Pilot
- Wider Roll-Out to Cities

**SCAG Regional Systems Set Up**
- Regional Data and Software Systems Setup
- Internal/SCAG Use of Model in SCS Development Process

**SPM/UrbanFootprint Advancement**
- Scenario Capability Roll-Out and Analytical Engine Enhancements
For More Information

Visit SPM website at

http://sp.scag.ca.gov

or contact

JungA Uhm

Modeling & Forecasting, SCAG

213-236-1939/ uhm@scag.ca.gov