2045 RTP Investment Options Project Selection
Regional Transportation Plan 2045

• Creates a long-range **regional framework** for region’s transportation priorities

• Examines transportation issues and needs in the greater Tucson region

• Must be MAP-21 compliant

• **Financially-constrained** to reasonably expected revenues

• Establishes transportation goals, strategies, and projects for the 30-year planning horizon

  • All **regionally-significant** transportation projects must be consistent with the regional transportation plan to receive funding
PAG Scenario Planning:

• Support 2045 RTP development
• Provide framework for public engagement
• Performance-based approach
• Combine land use scenarios with transportation investment alternatives
Step 1) Create Alternative Land Use Scenarios

- **Three Scenarios**
  - Based on observed patterns, approved plans, jurisdictional input, and the regional vision

- **Constant:**
  - Each scenario uses Arizona Department of Administration official county population forecast
  - UofA Economic Business Research Center employment forecasts

- **Variable:**
  - Population/employment distribution
  - Population/employment density
SAM Model

- SAM Sub-Area Allocation Model
  - To allocate the regional population and employment growth to smaller areas
Edge Growth

Planned Future

Vision Future

<table>
<thead>
<tr>
<th>New Land Developed</th>
<th>Planned Future</th>
<th>Vision Future</th>
</tr>
</thead>
<tbody>
<tr>
<td>315 sq miles</td>
<td>234 sq miles</td>
<td>98 sq miles</td>
</tr>
<tr>
<td>2,113 ppl/sq. mile</td>
<td>2,360 ppl/sq. mile</td>
<td>3,240 ppl/sq. mile</td>
</tr>
</tbody>
</table>

Population Density
Step 2) Jurisdictions update project list

- Add new projects
- Delete projects that are no longer desired
- Identify completed projects
- Revise existing projects
Step 3) Model Transportation Performance

- RTP Task Force Identified Goals and Performance Measures
- PAG modeling staff used performance measures to model future transportation performance under “no build” conditions

Image: www4.uwm.edu/cuts/primer.htm
2045 No-Build
IGT Scenario
Step 4) Update Financial Assumptions

- Forecast revenues
- Identify committed project funding

2045 RTP Funding Flexibility

- Flexible 22%
- Restricted 24%
- Committed 54%
Step 5) Define Alternative Investment Options

- RTP Task Force created alternatives through funding allocations
- PAG Staff worked with the Task Force to select projects for each option

Option 1: Maintain Current Approach
Option 2: System Preservation
Option 3: Alternative Modes
Option 4: Cross-town travel
Step 6) Model 12 Alternatives

3 LU Scenarios with 4 different Transportation Investment Alternatives

- Emphasize land use transportation connection
- Risk reduction
- Compare relative performance of different approaches
- Supports data-driven decision-making
Welcome to Pima Association of Governments’ (PAG’s) Engage 2045, a website to assist us in the development of our 30-year Regional Transportation Plan (RTP). Engage 2045 allows you to share your long-term transportation priorities and identify where you believe we should best invest our region’s available transportation dollars to improve local transportation infrastructure.

Before you begin, please tell us a bit about yourself.

When ready, press the "Next" button to get started. Engage 2045 should take about 15 minutes to complete.

Step 7) Public Engagement  
http://gismaps.pagnet.org/RTPengage/
Step 8) Synthesize Results – final project selection

Image: liquidstore.co
Scenario Planning Process

**Step 1:** Create LU Scenarios

**Step 2:** Update Projects

**Step 3:** Model "No Build" performance

**Step 4:** Update Financial Plan

**Step 5:** Define Alternative Investment Options

**Step 6:** Model built performance

**Step 7:** Engage the public

**Step 8:** Final Synthesis and project Selection