AGENDA

❖ Call to order
❖ Summary of March RTP TAC meeting
❖ Study progress
❖ RTP alternatives
❖ April focus area discussions and open house
❖ Next steps
❖ Roundtable discussion
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STUDY PROGRESS

- Addressed comments on draft model documentation
- Reviewed ADOA population projections for “places”
- Finalized Technical Memo 2 (no comments)
- Prepared/distributed assignment on project priorities
- Continued work on RTP elements
- Attended/received comments at Yuma County Fair
- Prepared for focus area discussions and open house
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AGENDA

◊ RTP alternatives
  ♦ Capital project priorities (TAC assignment)
  ♦ TIP consistency with capital improvements
  ♦ Air quality conformity
  ♦ Progress on other RTP elements
CAPACITY, PAVING AND SAFETY PROJECTS
PROJECT PRIORITIES

- Jurisdictions use different criteria to rank projects
- Projects will be organized and evaluated using MAP-21 criteria
- MAP-21 performance criteria
  - Addresses identified safety issue
  - Preserves existing infrastructure
  - Addresses identified congestion issue
  - Improves system connectivity and efficiency
  - Promotes economic development
  - Encourages multimodal travel
  - Improves air quality

April 11, 2013
YMPO RTP Technical Advisory Committee Meeting
TAC ASSIGNMENT ON PROJECT PRIORITIES

- Review and edit the relationship of each project to the performance criteria
- Rank order all projects
- Kimley-Horn team will organize projects into a cost-constrained capital improvement program using:
  - Estimated revenues (by jurisdiction) for capital improvements over the planning period
  - Potential for addressing performance criteria
- Base capital improvement program will be distributed to the TAC for review and performance-tested using the model
AGENDA

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EPA STANDARDS

◊ The 1990 Clean Air Act Amendment required the EPA to set national ambient air quality standards (NAAQS) for the six principal air pollutants

◊ These pollutants are “criteria” pollutants

♦ Carbon Monoxide
♦ Lead
♦ Nitrogen Dioxide
♦ Ozone
♦ Particle Pollution – 2.5 microns
♦ Particle Pollution – 10 microns
♦ Sulfur Dioxide
# NATIONAL AMBIENT AIR QUALITY STANDARDS (NAAQS)

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Primary/Secondary</th>
<th>Averaging Time</th>
<th>Level</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Monoxide</td>
<td>Primary</td>
<td>8-hour</td>
<td>9 ppm</td>
<td>Not to be exceeded more than once per year</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1-hour</td>
<td>35 ppm</td>
<td></td>
</tr>
<tr>
<td>Lead</td>
<td>primary and secondary</td>
<td>Rolling 3 month average</td>
<td>0.15 μg/m³</td>
<td>Not to be exceeded</td>
</tr>
<tr>
<td>Nitrogen Dioxide</td>
<td>primary</td>
<td>1-hour</td>
<td>100 ppb</td>
<td>98th percentile, averaged over 3 years</td>
</tr>
<tr>
<td></td>
<td>primary and secondary</td>
<td>Annual</td>
<td>53 ppb</td>
<td>Annual mean</td>
</tr>
<tr>
<td>Ozone</td>
<td>primary and secondary</td>
<td>8-hour</td>
<td>0.075 ppm</td>
<td>Annual fourth-highest daily maximum 8-hr concentrations, averaged over 3 years</td>
</tr>
<tr>
<td>PM$_{2.5}$</td>
<td>primary and secondary</td>
<td>Annual</td>
<td>15 μg/m³</td>
<td>annual mean, averaged over 3 years</td>
</tr>
<tr>
<td></td>
<td></td>
<td>24-hour</td>
<td>35 μg/m³</td>
<td>98th percentile, averaged over 3 years</td>
</tr>
<tr>
<td>Particle Pollution</td>
<td>primary and secondary</td>
<td>24-hour</td>
<td>150 μg/m³</td>
<td>Not to be exceeded more than once per year on average over 3 years</td>
</tr>
<tr>
<td>Sulfur Dioxide</td>
<td>primary</td>
<td>1-hour</td>
<td>75 ppb</td>
<td>99th percentile of 1-hour daily maximum concentrations, averaged over 3 years</td>
</tr>
<tr>
<td></td>
<td>secondary</td>
<td>3-hour</td>
<td>0.5 ppm</td>
<td>Not to be exceeded more than once per year</td>
</tr>
</tbody>
</table>
ATTAINMENT STATUS FOR YMPO

🔸 The YMPO region is designated as non-attainment for PM10
🔸 A request for re-designation to attainment status with a maintenance plan was submitted to EPA in 2006 (currently pending approval)
🔸 A Motor Vehicle Emissions Budget has been established to help the area maintain acceptable PM10 levels
TRANSPORTATION CONTROL MEASURES

- Paving, stabilizing, and/or reducing travel on unpaved streets, roads, and unpaved areas
- Watering unpaved streets, alleys, shoulders, and canal and levee roads
- Sweeping paved streets
- Reducing travel on canal roads
- Constructing improvements such as parking lots and landscaped areas to minimize undeveloped desert in developed areas
AIR QUALITY REQUIREMENTS

❖ Since the YMPO region is in non-attainment, updates to the RTP must be performed every four years

❖ A regional air quality conformity analysis is required as a part of the RTP
  ♦ Purpose: To ensure transportation projects recommended as part of the RTP do not result in an exceedance of the Motor Vehicle Emission Budget

❖ The last update of the region’s RTP was finalized in May 2010
  ♦ To maintain consistency with the region’s TIP update, this RTP update must be finalized by August 1, 2013
AIR QUALITY MODELING

- New federally-required mobile source emissions modeling program
- More data hungry than old program (MOBILE6.2)
- Data obtained from travel demand model, ADEQ, ADOT, EPA
Following the development of a financially constrained project list, we will commence air quality modeling.

Interagency call on April 10 helped to define data needs and methodology.

Air quality modeling parameters and results will be summarized in the RTP.
AGENDA

◊ RTP alternatives
  ♦ Capital project priorities (TAC assignment)
  ♦ TIP consistency with capital improvements
  ♦ Air quality conformity
  ♦ Progress on other RTP elements
RTP ELEMENTS

- Roadway system...in-progress by Kimley-Horn
- Intelligent transportation systems (ITS)
- Safety...in-progress by Kimley-Horn
- Congestion management
- Bridges and railroad grade separations...in-progress by Kimley-Horn
- Transit...in-progress by Kimley-Horn
- Bicycle and pedestrian...in-progress by Kimley-Horn
- Travel demand management
RTP ELEMENTS

◊ Freight…in-progress by Wilson
◊ Inland ports, warehousing, distribution centers…in-progress by Wilson
◊ Aviation…in-progress by Kimley-Horn
◊ Border infrastructure…in-progress by Wilson
◊ Transportation security
◊ Trade and tourism…in-progress by Wilson
◊ Economic development…in-progress by Wilson
◊ Air quality…in-progress by Kimley-Horn
ECONOMIC DEVELOPMENT ELEMENT

Transportation improvement projects support economic development by:

- Improving access to existing population and employment centers
- Providing new access to future population and employment centers
- Improving connectivity between existing and future population and employment centers
Existing Population Centers

- San Luis: Juan Sanchez Boulevard
- Somerton: US-95 & Somerton Ave
- Avenue B south of County 16th Street
- Downtown Yuma: 1st Street to 24th Street and Avenue C to Madison Avenue
- Araby Road & 32nd Street
- Yuma Foothills
ECONOMIC DEVELOPMENT ELEMENT

Future Population Centers

- San Luis: Juan Sanchez Boulevard
- Somerton: US-95 & Somerton Ave
- Avenue B south of County 16th Street
- Downtown Yuma: 1st Street to 24th Street and Avenue C to Madison Avenue
- Araby Road & 32nd Street
- Yuma Foothills
- Avenue 3E & County 14th Street
- Wellton: I-8 Corridor
ECONOMIC DEVELOPMENT ELEMENT

Existing Employment Centers

- San Luis: Juan Sanchez Boulevard
- Somerton: US-95 & Somerton Ave
- Avenue B at County 15\textsuperscript{th}/16\textsuperscript{th} Streets
- Downtown Yuma: 1\textsuperscript{st} Street to County 13\textsuperscript{th} Street and Avenue C to Avenue 3E
- Araby Road & 32\textsuperscript{nd} Street
- Yuma Foothills
- Yuma Proving Grounds
ECONOMIC DEVELOPMENT ELEMENT

Future Employment Centers

- San Luis: Juan Sanchez Boulevard
- Somerton: US-95 & Somerton Ave
- Avenue B at County 15th/16th Streets
- Downtown Yuma: 1st Street to County 13th Street and Avenue C to Avenue 3E
- Araby Road & 32nd Street
- Yuma Foothills
- Yuma Proving Grounds
- Avenue 15E
FREIGHT ELEMENT

▪ National Freight Network being developed by Federal Highway Administration (FHWA)
▪ Consists of a hierarchy of roadways to support freight transport
  ♦ Primary Freight Network
  ♦ Roads Critical to Future Goods Movement
  ♦ Critical Rural Freight Corridors
FREIGHT ELEMENT

♦ Primary Freight Network – 27,000 miles nationally

♦ Criteria considers:
  ▪ Tonnage or value of freight
  ▪ Truck traffic volumes
  ▪ Access to significant Ports of Entry, energy areas, or population centers
  ▪ Multimodal connectivity (rail, waterways)

♦ Potential YMPO facilities
  ▪ I-8
  ▪ US-95
  ▪ SR-195
BORDER INFRASTRUCTURE ELEMENT

◊ ADOT has completed the Arizona-Sonora Border Master Plan
◊ Plan identified a series of projects based on previous studies
◊ Project categorizes
  ♦ Land Port of Entry (LPOE) projects
  ♦ Multimodal Infrastructure (MMI) projects
  ♦ Rail projects
BORDER INFRASTRUCTURE

Weighted project rating criteria

<table>
<thead>
<tr>
<th>Category</th>
<th>LPOE</th>
<th>MMI</th>
<th>Rail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity/Congestion</td>
<td>40%</td>
<td>36%</td>
<td>35%</td>
</tr>
<tr>
<td>Cost Effectiveness</td>
<td>15%</td>
<td>15%</td>
<td>16%</td>
</tr>
<tr>
<td>Regional Benefit</td>
<td>21%</td>
<td>23%</td>
<td>21%</td>
</tr>
<tr>
<td>Project Readiness</td>
<td>11%</td>
<td>10%</td>
<td>13%</td>
</tr>
<tr>
<td>LPOE Connectivity</td>
<td>n/a</td>
<td>16%</td>
<td>15%</td>
</tr>
<tr>
<td>Bi-national Coordination</td>
<td>13%</td>
<td>n/a</td>
<td>n/a</td>
</tr>
</tbody>
</table>

Projects were ranked for each project category (LPOE, MMI, Rail)
YMPO PROJECTS

Evaluation of Arizona Land Port of Entry Projects

<table>
<thead>
<tr>
<th>Project Description</th>
<th>Arizona LPOE Overall Rank</th>
</tr>
</thead>
<tbody>
<tr>
<td>San Luis I - SENTRI Primary Booth Project</td>
<td>1</td>
</tr>
<tr>
<td>San Luis I - Pedestrian Pop-Out Project #1 (Reconfiguration in place)</td>
<td>2</td>
</tr>
<tr>
<td>San Luis I - Pedestrian Pop-Out Project #2 (Expansion)</td>
<td>3</td>
</tr>
<tr>
<td>San Luis II - POV / Pedestrian Processing Facility</td>
<td>4</td>
</tr>
<tr>
<td>San Luis I - Outbound Technology Project</td>
<td>6</td>
</tr>
<tr>
<td>San Luis I - SENTRI Secondary Inspection Area</td>
<td>8</td>
</tr>
<tr>
<td>San Luis I - Expansion and Modernization</td>
<td>9</td>
</tr>
<tr>
<td>San Luis I - Outbound Inspection Infrastructure</td>
<td>10</td>
</tr>
<tr>
<td>San Luis I - Primary Booth Replacement Project</td>
<td>11</td>
</tr>
<tr>
<td>San Luis II - New Rail LPOE</td>
<td>16</td>
</tr>
</tbody>
</table>
## YMPO PROJECTS

### Evaluation of Multimodal Infrastructure Projects

<table>
<thead>
<tr>
<th>Facility</th>
<th>Project Description/Extent</th>
<th>Proposed Improvement</th>
<th>Arizona MMI Overall Rank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Archibald Street and First Avenue</td>
<td>C Street to Urtuzuastegui Street</td>
<td>Convert to One-Way Couplet &amp; construct bus pullouts</td>
<td>1</td>
</tr>
<tr>
<td>Main Street Project</td>
<td>Hwy 95 from A St to Juan Sanchez Blvd</td>
<td>Design &amp; Construction</td>
<td>2</td>
</tr>
<tr>
<td>Juan Sanchez Blvd</td>
<td>10th Avenue to Avenue E</td>
<td>Widen to 5 lanes, Unspecified Improvements</td>
<td>5</td>
</tr>
<tr>
<td>Juan Sanchez Boulevard</td>
<td>10th Avenue to US-95</td>
<td>Widening, Unspecified Improvements</td>
<td>7</td>
</tr>
<tr>
<td>Avenue E</td>
<td>San Luis II LPOE at Arizona-Sonora border to SR 195/ASH</td>
<td>Widening to 4 lanes</td>
<td>14</td>
</tr>
<tr>
<td>56th Street</td>
<td>SR 195 / ASH to Avenue 13E</td>
<td>Widening</td>
<td>19</td>
</tr>
<tr>
<td>US-95</td>
<td>Avenue 9 E to Aberdeen Road</td>
<td>Widening, Construct Bridge of Fortuna Wash</td>
<td>26</td>
</tr>
<tr>
<td>Avenue 3 E</td>
<td>US-95 to I-8</td>
<td>Widening</td>
<td>27</td>
</tr>
<tr>
<td>Bridge Replacement</td>
<td>South Gila Canal at Avenue 7E</td>
<td>Construction</td>
<td>32</td>
</tr>
<tr>
<td>Fortuna Rd</td>
<td>40th to 48th</td>
<td>New Construction 4 lane Arterial</td>
<td>34</td>
</tr>
</tbody>
</table>
PROJECTS EVALUATED IN THE BORDER MASTER PLAN
## Evaluation of Arizona Rail Projects

<table>
<thead>
<tr>
<th>Project Description</th>
<th>Arizona Rail Overall Rank</th>
</tr>
</thead>
<tbody>
<tr>
<td>New rail corridor/through San Luis II LPOE</td>
<td>5</td>
</tr>
<tr>
<td>Rehab and new rail/Gila Bend to Lukeville LPOE</td>
<td>8</td>
</tr>
</tbody>
</table>
TRANSIT ELEMENT – NEEDS

- Multimodal transit center
- New bus maintenance facility
- More passenger amenities
- Fare and schedule enhancements
- Park and ride lots
TRANSIT ELEMENT – PROJECTS

- Hotel Del Sol Multimodal Facility
- New bus maintenance facility
- Regular vehicle replacements
- Bus pullouts
- More passenger amenities
- Smartcards, real time arrival system
- Park and ride lots
BICYCLE AND PEDESTRIAN ELEMENT

♢ Element Needs

♦ Improve safety
♦ Connect gaps
♦ ADA accessibility
♦ Pedestrian access to transit
♦ Education of motorists and bicyclists
BICYCLE AND PEDESTRIAN ELEMENT

- Preliminary projects
  - Sidewalks
  - Shared Use Paths
  - Bicycle Routes
  - Bicycle Lanes
  - Paved Shoulders
  - Bicycle and Pedestrian Crossings
    - Signalized crossings
    - Refuge islands
BICYCLE ELEMENT
### AVIATION ELEMENT

#### 2013-2017 Yuma International Airport Capital Improvement Program

<table>
<thead>
<tr>
<th>Year</th>
<th>Project</th>
<th>Estimated Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>Design &amp; Construction of Taxiway Improvements</td>
<td>$2,400,000</td>
</tr>
<tr>
<td>2014</td>
<td>Construct Apron Expansion</td>
<td>$4,000,000</td>
</tr>
<tr>
<td>2015</td>
<td>Install Taxiway Lighting on Taxiway F and H</td>
<td>$2,000,000</td>
</tr>
<tr>
<td>2016</td>
<td>Construct new General Aviation Apron</td>
<td>$1,000,000</td>
</tr>
<tr>
<td>2017</td>
<td>Construct Apron Expansion</td>
<td>$2,000,000</td>
</tr>
</tbody>
</table>

#### Additional Needs
- Market Study to Attract Another Airline
- Additional Aircraft Hangar Construction
AVIATION ELEMENT

2013-2017 Rolle Field Capital Improvement Program

<table>
<thead>
<tr>
<th>Year</th>
<th>Project</th>
<th>Estimated Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>Airport Master Plan Update</td>
<td>$175,000</td>
</tr>
<tr>
<td>2014</td>
<td>Environmental Assessment for Runway Improvements</td>
<td>$190,000</td>
</tr>
<tr>
<td>2015</td>
<td>Design &amp; Construct New Parallel Taxiway</td>
<td>$600,000</td>
</tr>
<tr>
<td>2017</td>
<td>Install Runway and Taxiway Lighting</td>
<td>$1,000,000</td>
</tr>
<tr>
<td>2017</td>
<td>Install Lighting Vault</td>
<td>$200,000</td>
</tr>
</tbody>
</table>

Additional Needs

- Construction of Access Road to Rolle Field
- Rehabilitation of Existing 5,000’ Runway
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FOCUS AREA DISCUSSIONS AND OPEN HOUSE

❖ April 16, 2013
❖ YMPO 30-year Anniversary Celebration
   ♦ 11:00 am to 2:20 pm at YMPO offices
❖ Focus area discussions
   ♦ 1:30 to 4:00 pm at YMPO offices
❖ RTP open house
   ♦ 5:30 to 6:30 pm at Heritage Branch Library
FOCUS AREA DISCUSSIONS

经济
发展/贸易

旅游

社区发展

公共/紧急服务

联邦/州/环境

可提供给受邀的参与方和YMPO开放式研讨会参与者
RTP OPEN HOUSE

- RTP objectives and process
- Accomplishments to date
- What we have heard from the public
- Preliminary roadway and safety projects
- Other RTP element summaries
- Revenue forecasts
RTP TAC ROLE AND RESPONSIBILITIES

- Attend YMPO open house
- Active listening at focus area discussions
- Active listening at open house
- Report at next TAC meeting
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NEXT STEPS

- Model capital and safety improvements
- Performance testing
- Continue drafting RTP elements
- April 16th focus area discussions and open house
ROUNDTABLE DISCUSSION