5-13-1993

Meeting Notes 1993-05-13

Joint Policy Advisory Committee on Transportation
Meeting: JOINT POLICY ADVISORY COMMITTEE ON TRANSPORTATION

Date: May 14, 1992
Day: Thursday
Time: 7:15 a.m.
Place: Metro, Conference Room 440

*1. MEETING REPORT OF APRIL 9, 1992 - APPROVAL REQUESTED.

*2. RESOLUTION NO. 92-1610 - ESTABLISHING THE TPAC TDM SUBCOMMITTEE - APPROVAL REQUESTED - Andy Cotugno.

*3. RESOLUTION NO. 92-1617 ENDORSING RECOMMENDATIONS FOR HIGHWAY BRIDGE REPLACEMENT FUNDING - APPROVAL REQUESTED - Andy Cotugno.

*4. OREGON TRANSPORTATION PLAN SYSTEM ELEMENT PRESENTATION - INFORMATIONAL - Don Forbes, ODOT; Andrew Cotugno, Metro.

*Material enclosed.

PLEASE NOTE: Overflow parking is available at the City Center parking locations on the attached map and may be validated at the meeting. Parking on Metro premises in any space other than those marked "Visitors" will result in towing of vehicle.

NEXT JPACT MEETING: JUNE 11, 1992, 7:15 AM
DATE OF MEETING: April 9, 1992

GROUP/SUBJECT: Joint Policy Advisory Committee on Transportation (JPACT)

PERSONS ATTENDING: Members: Chair Richard Devlin, Susan McLain and Jim Gardner, Metro Council; Pauline Anderson, Multnomah County; Earl Blumenauer, City of Portland; Clifford Clark, Cities of Washington County; Don Forbes, ODOT; Fred Hansen, DEQ; Bob Liddell, Cities of Clackamas County; Ed Lindquist, Clackamas County; Roy Rogers, Washington County; Marge Schmunk, Cities of Multnomah County; Gerry Smith, WSDOT; Dave Sturdevant, Clark County; Mike Thorne, Port of Portland; Tom Walsh, Tri-Met; and Bruce Hagensen, City of Vancouver

Guests: Susie Lahsene, Multnomah County; Don Adams, John Rist, Denny Moore and Ted Spence, ODOT; Tom Dechenne, Eastside Businessman; Bob Post (JPACT alt.), Tuck Wilson, Dick Feeney, G.B. Arrington, and Laurie Garrett, Tri-Met; Steve Dotterrer and Karen Rabiner, Portland; Keith Ahola (JPACT alt.), WSDOT; Craig Lomnicki (JPACT alt.), Cities of Clackamas County; Terry Cook, Gresham; Carter MacNichol (JPACT alt.), Brian Campbell, Port of Portland; Les White (JPACT alt.) and Mark Landers, C-TRAN; Dean Lookingbill, Clark County IRC; Rod Sandoz and Tom VanderZanden, Clackamas County; Bruce Warner, Washington County; Clay Moorhead, City of Gresham; Bud Roberts, City of Beaverton

Staff: Andy Cotugno, Betsy Bergstein, Gail Ryder, Karen Thackston, and Lois Kaplan, Secretary

SUMMARY:

The meeting was called to order and a quorum declared by Chairman Richard Devlin.

Andy Cotugno pointed out that a thank-you and greetings from James Cowen, President of the Oahu Transit Service, Inc., was included in the agenda packet acknowledging the JPACT caricature that was mailed him.
MEETING REPORT

Clifford Clark moved, seconded by Tom Walsh, to approve the March 12 JPACT Meeting Report as written. Motion PASSED unanimously.

RESOLUTION NO. 92-1598 - FINALIZING THE WESTSIDE LRT FUNDING PROGRAM

Andy Cotugno reviewed the Staff Report/Resolution that would finalize the Westside LRT funding package toward accomplishment of the Full-Funding Agreement. The policy options being considered include: a status-quo option (seeking 75 percent FTA funding); separation of 185th from the Hillsboro project; or accelerating the Hillsboro project, which would streamline the process but would require a commitment of additional regional funds.

Andy noted that these actions would also involve a Transportation Improvement Program amendment and parts are contingent upon approval from ODOT and Tri-Met. He cited the importance of following the Committee on Accessible Transportation's recommendation for low-floor cars in meeting compliance with ADA requirements.

Andy acknowledged Mayor McRobert's letter to Senator Hatfield (as distributed at the meeting) regarding the funding appropriation in support of Project Breakeven. The Winmar project, for construction of a regional shopping center, would have provided lease revenue and ridership benefit for Tri-Met. However, attempts to get the project approved were unsuccessful. Andy noted that Resolve 8 in the resolution came as a result of TPAC action at its March 27 meeting, directing Tri-Met to work with the City of Gresham to define alternatives and recommend a strategy for keeping the Project Breakeven parcel intact as a transit-supportive site. Andy clarified that the source of funds of the $13.5 million in question are not the funds required for the Breakeven project.

Tom Walsh encouraged passage of clause No. 10 under "Proposed Action" relating to through-routing of trains for the Westside. He stated that there is no assumption that the $13.5 million source is that of Project Breakeven, but Tri-Met will not do anything until Gresham and Tri-Met are in accord and will not move the funds until that agreement has been reached. Those funds include necessary improvements for through-routing of trains, which includes double-tracking through the Gulch and Ruby Junction. Andy Cotugno clarified that the resolution does not relate the $13.5 million to Project Breakeven.
Don Forbes indicated that ODOT's support is contingent upon adoption by the Oregon Transportation Commission. The policy issue concerns the use of the state share of the STP funds and how it gets apportioned on a statewide basis. Also, he reminded everyone on the need for a clear set of regional recommendations before the state can address those needs.

Clay Moorhead, Community Development Director of Gresham, provided background information relating to Project Breakeven, noting that funds for its use were enacted by Congress in 1990. $13.5 million was committed to Tri-Met for the purchase of the Winmar property for development of a regional shopping mall that would generate ridership and lease-back revenues to the transit provider. $4.5 million of matching funds was committed by Tri-Met to get the project off the ground. He noted that the developer backed out but felt there is need for such development, it is likely that it could be built, it is a unique site bisected by light rail and would represent a significant development. From the City of Gresham's perspective, the Westside light rail project would not be impacted by the $13.5 million. He suggested pulling item No. 10 under "Proposed Action" from consideration.

Mr. Moorhead added that the resolution was approved at the March 27 TPAC meeting with the reservation that Tri-Met and Gresham work together for further discussion on the project. He felt this was fast-tracking the resolution and cited the importance of public involvement in the process toward creating the regional decision. The City of Gresham believes there are a number of options to be explored with regard to the Winmar site. Mr. Moorhead requested that JPACT delete item 10 from the resolution until it can be resolved by the two parties and brought back for further review as he did not feel it would impact the funding package.

Tuck Wilson indicated that it is the same sum of money as the Breakeven project but does not represent the funds allocated for Breakeven. Its source is from a different pot of money. He assured the Committee that Tri-Met is not relinquishing its commitment. When Tri-Met and Gresham reach a recommendation on either to pursue or shift the Breakeven funds, this consideration will be back before JPACT.

Mayor Liddell asked whether the City of Gresham had the same interpretation. Clay Moorhead responded that the City of Gresham does not think there is $13.5 million available in Section 3 funds. He felt it would be difficult to release the Project Breakeven funds by all parties but it appears that the trade-off of those funds is likely and that the dollars are committed to that area. If a trade-off is permissible, the $13.5 million is
available for mass transportation uses. If available, Tri-Met should be looking at other dollars for development of the Winmar site. Clay indicated he was satisfied by being assured that the $13.5 million did not represent the dollars intended for Project Breakeven.

Fred Hansen asked whether his understanding was correct in that Tri-Met may pursue the Breakeven dollars if a consensus could be reached but that additional action would be needed.

Commissioner Blumenauer was supportive of Project Breakeven and the need for a regional commitment from some other funding source but questioned why it should be considered as an amendment to this resolution when it has been acknowledged that this is our regional priority and $13.5 million is needed to make the light rail system work right and integrated with the Eastside system.

Commissioner Lindquist reminded the Committee that, when Project Breakeven was first considered, it was not a JPACT priority but agreement had been reached for Tri-Met to seek Discretionary funds for that development. At that time, there was concern over use of transportation funds to buy a shopping center. It was allowed to go through as a request but not as a priority, so at this time he could not support the amendment proposed by Gresham.

Councilor McLain felt the amendment would not further the resolution and that there was no consensus to add the amendment.

Commissioner Lindquist added that the present administration is opposed to this concept even if it had been made a priority. He did not wish to hold up Westside LRT funding to seek approval of the Winmar site. It would first have to be reviewed by JPACT in terms of a priority. It was appropriate as a demonstration grant and JPACT supported securing funds for that demonstration project.

Tom Walsh stated that one of the requirements for the Full-Funding Agreement is that revenues and expenditures balance. It was clarified that the $13.5 million is not a part of the equation for the Westside project. The Full-Funding agreement concludes the ability to go to 185th and establishes the concept on how to go to Hillsboro.

Chair Devlin concluded that there was no consensus for inclusion of Mr. Moorhead's proposed amendment. He noted that, if there is a trade-out, it would come back to JPACT for consideration.

In discussion of the Full-Funding Agreement, Commissioner Blumenauer expressed concern over who will manage the Westside LRT
project and what Metro's intentions are regarding a merger with Tri-Met. Over the last year and a half, he felt there was agreement that the issue of pursuing a Tri-Met/Metro merger would be put aside until the Full-Funding Agreement has been signed. He felt that any questions surrounding its management or governance could upset a delicate balance. His three concerns included the following: that the Full-Funding Agreement would be done before the merger issue came up again; the potential for complicating labor discussions at Tri-Met with added cost implications; and the stability and credibility of the project. Since inception, JPACT has been an advisory body on transportation issues to the Metro Council. He was therefore frustrated to learn that an RFP was being considered by Metro Council on this date regarding the proposed merger without discussions at the JPACT level. He cited the fact that there are three Metro Councilors on JPACT who could have enlightened the Committee on the proposal. He wanted the issue laid to rest and that the proposal not cause any interference in seeking the Full-Funding Agreement for the Westside LRT.

Comments offered by Metro Councilor Devlin noted the fact that the Full-Funding Agreement was anticipated to be signed in September of 1991. Metro's Executive Officer and the Council included funds in the budget to conduct additional studies on the Tri-Met/Metro merger following assurance of the Full-Funding Agreement. Chair Devlin did not feel the RFP would go forward at the April 9 Metro Council meeting. However, he noted that the Charter Committee has changes to Metro's authority proposed in the charter for November, which places the Metro Council in a difficult position, waiting for signing of the Full-Funding Agreement.

Metro Councilor Gardner provided background information leading to consideration of the RFP and felt it is in the eventual best interests of the region. The intent of the RFP is to gather technical, actuarial information and he assured the Committee that it would be reworded for clarity if it implied otherwise. It is to provide the technical and financial information about some of the questions if and when the decision-making process goes forward toward a merger. Councilor Gardner was sensitive to the ongoing labor situation and did not wish to hamper those efforts. Within the charter process, there are changes being suggested in the relationship between Tri-Met and Metro. Before it goes forward, he hoped to make it clear that they are not resuming the process about making a decision on the merger at this point. Councilor Gardner agreed with Commissioner Blumenauer that JPACT is the regional consensus-building body to the Metro Council on transportation issues and assured him that JPACT will be fully involved again but that the RFP was not seen as
part of that process, rather a gathering of technical information.

Councilor McLain indicated she did not support going forward with the study as she did not feel it was a good use of funds. However, whenever intergovernmental agreements or budget are concerned, funds need to be included for a foundation of information to arrive at available options.

**Action Taken:** Clifford Clark moved, seconded by Roy Rogers, to recommend approval of Resolution 92-1598 for the purpose of finalizing the Westside LRT funding program.

In discussion, Mike Thorne indicated that, while the Port supports the effort and energy to complete the Westside LRT project, the resolution creates confusion about the future. He felt it important to support the motion but expressed concern regarding the need for a totally integrated transportation system that includes access for job sites and meets the needs of a community such as ours. He spoke of a strong economy and questioned how item 6 of the Staff Report (relating to $22 million from Regional Surface Transportation Program funds) impacts the question he raised. He felt it is incumbent upon JPACT to address the cargo transport issue.

Commissioner Blumenauer re-emphasized that people who care about transportation should be concerned about the Request for Proposals being considered by Metro Council. He cited the need for better, fundamental communication between jurisdictions and that JPACT be kept well informed. In response, Councilor McLain clarified that no policy decisions were being considered and that the issue being considered by Metro Council was one of information gathering. Councilor Gardner stated that it is the first time he has heard any concern being expressed regarding this study but felt that communication is both ways. He indicated that the RFP should be clarified further.

The motion PASSED unanimously.

**RESOLUTION NO. 92-1584 - REQUESTING GREATER FLEXIBILITY IN THE USE OF THE I-205 BUSLANE FUNDS**

Andy Cotugno reviewed the background of the I-205 funding as defined in the Staff Report. Interstate funds were provided for use of buslanes in the I-205 corridor. The funds in question are not flexible but were allowed by law to be used for light rail purposes. The $15-16 million sum is not sufficient to build light rail.
Andy reported that support was obtained from FTA to look at light rail in the I-205 and Milwaukie corridors at the same time. Unknown at this time is what the final appropriate set of improvements will be. Under the STA, the last year for appropriation of Interstate Transfer funds is 1993. If appropriated, they would be available for light rail purposes. Andy noted that the purpose of the resolution is to give the region greater flexibility for the use of such funds.

**Action Taken:** Fred Hansen moved, seconded by Councilor Gardner, to recommend approval of Resolution No. 92-1584, requesting greater flexibility in the use of the I-205 buslane funds.

Commissioner Lindquist supported the resolution, noting that the most we can get from our Congressional delegation is what's most appropriate, or the funds will be lost. He reported that a split-diamond intersection on I-205 is being worked on and indicated support of the resolution.

Mayor Liddell cautioned the committee that, if the funds are to be used outside the I-205 corridor, he wanted it understood that top priority goes back to that specific corridor.

Mike Thorne indicated that it's the Port's concern that the funds are used to address transit concerns in the I-205 corridor. He asked for clarification on why we would ask for a study if there wasn't an understanding that we are looking at that corridor to deal with existing transit problems. He noted that we don't wish to predispose the results of the study but he wanted assurance that transit problems would be addressed in the I-205 corridor.

Andy Cotugno spoke of a wide range of possibilities, citing the cost outcome and the other sources of funds that might be available to complete the project. The purpose of the resolution is to seek flexibility but not to use the funds until resolution of the I-205/Milwaukie Preliminary Alternatives Analysis and an implementation funding strategy.

The motion PASSED unanimously.

**FORMATION OF JPACT FINANCE COMMITTEE**

A memo was distributed from Chairman Devlin recommending membership on the JPACT Finance Committee as follows:
Richard Devlin, Chair  
Ed Lindquist, Clackamas County  
Pauline Anderson, Multnomah County  
Roy Rogers, Washington County  
Earl Blumenauer, City of Portland  
Dave Sturdevant, Clark County  
Tom Walsh, Tri-Met  
Don Forbes, ODOT

Chair Devlin hoped to keep the subcommittee of minimal size but asked that anyone wishing to be included contact him.

ADJOURNMENT

There being no further business, the meeting was adjourned.

REPORT WRITTEN BY:  Lois Kaplan

COPIES TO:  Rena Cusma  
            Dick Engstrom  
            JPACT Members
PROPOSED ACTION

Adopt Resolution No. 92-1610 establishing a TPAC Transportation Demand Management (TDM) Subcommittee; outline general subcommittee duties and responsibilities; and establish general subcommittee membership and meeting guidelines. This resolution and establishment of the subcommittee respond to recent federal, state and regional actions which have numerous TDM or TDM-related planning and program requirements.

TPAC has reviewed this TDM Subcommittee structure and recommends approval of Resolution No. 92-1610.

FACTUAL BACKGROUND AND ANALYSIS

Background of Regional TDM Activities

Recent action at the federal, state and regional level calls for a number of policy, planning and programming requirements which relate either directly or indirectly to TDM. These actions and their inherent requirements or milestones are summarized below. Substantial TPAC/JPACT involvement and coordination will be necessary in order to address these respective requirements and milestones.

1. Federal Actions:

   . Clean Air Act Amendments of 1990. The Portland metropolitan area is designated as a "non-attainment" area for both ozone and carbon monoxide (CO). Attainment deadlines for the area are November 1993 for ozone and November 1995 for CO. Based on recent analyses, the area will meet the deadlines. However, in conjunction with applying for attainment, the region must submit an approved "maintenance plan" which identifies appropriate "transportation control measures" (TCMs) intended to maintain air quality within federal standards. Most TCMs are TDM-related. The TCMs and the maintenance plan will require regional consensus and approval through the TPAC/JPACT process.

   . Intermodal Surface Transportation Efficiency Act (ISTEA) of 1991. This act has two major areas of TDM implication. First, the funding programs provide more flexibility in their distribution. Congestion Mitigation/Air Quality, STP
and NHS funds are available for TDM and transit projects. The programming of such funds for TDM actions will require regional consensus and approval. Second, ISTEA requires urban areas to develop a Congestion Management Program. The program will likely include TDM measures and again will require regional approval.

2. State Actions:

. State Transportation Rule 12. The Rule establishes goals related to the reduction of single-occupant automobile use through improved transportation and land use efficiencies. Requirements related to per capita VMT reductions will require substantial consideration of TDM strategies (see Regional Activities below).

. Oregon Transportation Plan (OTP). Echoing Rule 12, the draft Policy Element of the OTP calls for balanced multi-modal passenger transportation systems in urban areas. The systems are to be consistent with Rule 12 goals for reducing reliance on the single-occupant automobile.

. Governor's Task Force on Automobile Emissions in the Portland Area. The Task Force was established by the 1991 Legislature and is examining emission reduction strategies in order to ensure air quality in the Portland region. The work is being coordinated with regional activities identified below. Results of the Task Force will be forwarded to the 1993 Legislature. Ultimately, specific emission strategies may be incorporated into the air quality maintenance plan and possibly the Congestion Management Plan and RTP.

. ODOT TDM Work Group. ODOT hired staff in the fall of 1990 to establish state project development and funding guidelines related to TDM activities which primarily provide for better efficiencies on the state highway system. The Work Group is responsible for developing TDM project recommendations for consideration in ODOT's Six-Year Program. The Work Group consists of representatives of local jurisdictions, Metro, ODOT, Tri-Met, LCDC and the Department of Energy. It is the intention of this resolution to transform the Work Group into the TPAC TDM Subcommittee and charge them with the responsibility of advising TPAC on significant and appropriate regional TDM activities.

3. Regional Actions:

. RUGGO/Region 2040. The Regional Urban Growth Goals and Objectives also call for a regional transportation system which reduces reliance on the single-occupant automobile in order to improve air quality, reduce energy consumption and minimize system costs and environmental impacts. The
Region 2040 study will incorporate TDM strategies as part of each of its transportation/land use scenarios.

- Regional Transportation Plan (RTP). The RTP calls for a balanced transportation system which includes strategies for transit, highways/arterials and TDM. To achieve this balance and to meet Rule 12 requirements, updates to the RTP will likely include a significant number of additional TDM recommendations.

- Metro TDM Study. The Metro TDM study will expand on the work of the Governor's Task Force to identify specifically appropriate TDM strategies for the region. Recommendations of the study will be forwarded for adoption into the RTP.

In addition to the above activities, periodic TDM opportunities may arise related to funding. An example is the FHWA/FTA Operation Action Program related to urban mobility. The program seeks innovative methods to address mobility. The majority of methods fall under the TDM category.

**TPAC TDM Subcommittee**

As mentioned, each of the above activities will require review and possibly formal action through TPAC/JPACT and the Metro Council. Ancillary to each are any number of studies and other planning activities which will require regional review and coordination. Finally, many if not all will have planning and programming implications for local jurisdictions and may require local adoption.

To assist TPAC in the review and development of regional TDM-related activities, it is recommended that the ODOT TDM Working Group for the Portland should be restructured and assigned as the TPAC TDM Subcommittee. The subcommittee's activities and structure would be as follows:

**Purpose:** The TPAC TDM Subcommittee would be responsible for the initial development, evaluation, review and recommendations of regional TDM planning, programming and implementation activities. The subcommittee would report to and develop recommendations for TPAC consideration. Where appropriate, recommendations will be forwarded for JPACT review and adoption.

**Participants:** The subcommittee is recommended to include representatives from the agencies currently represented on the ODOT TDM Working Group: ODOT; Tri-Met; Metro; Washington, Clackamas and Multnomah Counties; City of Portland; Oregon Department of Energy, DLCD; and DEQ. In addition, one citizen member, one bicycle advocacy member, one representative from the other cities, one business representative and a representative from the Clark County Strategic Planning Group should also participate. Selection of the committee is the responsibility of the participating jurisdiction or agency and appointments shall be made by
TPAC. Each jurisdiction should appoint a representative and an alternate. Jurisdictions and agencies are free to substitute members dependent upon issues and required expertise.

To keep the subcommittee at a manageable size, non-represented local jurisdictions should be apprised monthly of subcommittee activities through their respective county coordinating committee.

Meetings: The subcommittee is recommended to meet monthly on the second Thursday at 1:30 p.m. The day and time best provides for the subcommittee to receive input from both TPAC and JPACT and allows sufficient time to prepare for upcoming TPAC/JPACT meetings.

The subcommittee will be chaired by Metro and Metro will be responsible for agendas and meeting reports. ODOT, Metro and Tri-Met will act as a regional TDM management team in order to coordinate upcoming TDM actions and requirements and ensure their placement on appropriate agendas. Agenda items may also be recommended by the subcommittee or directed by either TPAC or JPACT. All meetings are open to the public consistent with Oregon's open public meeting laws.

The subcommittee is essentially considered a working group similar to a technical advisory committee. However, where appropriate, the chair may invoke Robert's Rules of Order to ensure completion of agenda items or establish subcommittee votes on contentious issues.

Duties: The TDM Subcommittee will be responsible for identification of regional TDM issues related, but not limited, to any of the federal, state and regional actions identified in this report. In general, the subcommittee will not be substituted for regular project-related technical advisory committee activities.

EXECUTIVE OFFICER'S RECOMMENDATION

The Executive Officer recommends approval of Resolution No. 92-1610.
BEFORE THE COUNCIL OF THE
METROPOLITAN SERVICE DISTRICT

FOR THE PURPOSE OF ESTABLISHING ) RESOLUTION NO. 92-1610
THE TPAC TRANSPORTATION DEMAND ) Introduced by
MANAGEMENT SUBCOMMITTEE ) Councilor Jim Gardner

WHEREAS, The Joint Policy Advisory Committee on
Transportation (JPACT) and the Transportation Policy Alternatives
Committee (TPAC) will be addressing a number of Transportation
Demand Management policy, program, and project activities over
the coming years as a result of federal, state and local actions;
and

WHEREAS, The TDM activities are 1) promoted through the Clean
Air Act Amendments of 1990, the Intermodal Surface Transportation
Efficiency Act of 1991, the State Transportation Rule 12, the
draft Policy Element of the Oregon Transportation Plan, the
adoption of the Regional Urban Growth Goals and Objectives
(RUGGO) and the adopted Regional Transportation Plan (RTP); and
2) are being examined through the Governor's Task Force on
Automobile Emissions in the Portland Area, the Region 2040 study
and the 1992 update of the RTP; and

WHEREAS, The TDM activities require substantial background
analysis, study and associated effort leading to regional
coordination and consensus; and

WHEREAS, The associated work and effort are in addition to
the current duties, responsibilities and activities of both JPACT
and TPAC; now, therefore,
BE IT RESOLVED,

That the Council of the Metropolitan Service District adopts

the following recommendations:

1. That a TPAC TDM Subcommittee be appointed by TPAC for the
purpose of being responsible for the initial development,
evaluation and recommendations related to the region's TDM
planning, programming and implementation activities, in
particular, to those federal, state and regional actions
identified above in this resolution.

2. That the TPAC TDM Subcommittee would report to and
develop recommendations for TPAC consideration. Where appro-
priate, recommendations will be forwarded to JPACT and the Metro
Council for review and adoption.

3. That the TPAC TDM Subcommittee include representatives of
Metro; ODOT; Tri-Met; Washington, Clackamas and Multnomah
Counties; City of Portland; Oregon Department of Energy; DLCD;
DEQ; one citizen member; one bicycle/pedestrian advocacy member;
one representative from the other cities; one business represen-
tative; and a representative from the Clark County Strategic
Planning Group.

4. That the TPAC TDM Subcommittee be chaired by Metro; that
meetings be held monthly (unless otherwise noted); that Metro,
through consultation with TPAC, JPACT and the subcommittee, be
responsible for meeting agendas; and that Metro keep regular
meeting reports.

5. That establishment of the TPAC TDM Subcommittee be
effective immediately upon adoption of this resolution.
ADOPTED by the Council of the Metropolitan Service District
this ___ day of ________, 1992.

Jim Gardner, Presiding Officer

92-1610.RES/5-5-92
PROPOSED ACTION

Resolution No. 92-1617 adopts a regional position on Highway Bridge Replacement (HBR) funds as follows:

1. Request that ODOT defer programming of HBR funds in years 1995, 1996, 1997 and 1998 in the upcoming adoption of the Six-Year Transportation Improvement Program in order to allow consideration of alternative allocation procedures.

2. Request that the ODOT/AOC/LOC-sponsored Roads Finance Study acknowledge the cost of rehabilitation and replacement of the Willamette River bridges as a need to be reflected in the study.

3. Request that the Roads Finance Study evaluate the adequacy of the HBR program to meet the Willamette River bridge needs and other state and local bridge replacement and rehabilitation needs.

4. Request that the Oregon Transportation Commission work with the AOC/LOC Bridge Committee to consider policy options in developing a ranking system, criteria and process that addresses statewide bridge needs, including large unfunded local bridges.

5. Request that the Roads Finance Study recommend a funding solution through the HBR Program or other federal or state mechanisms to ensure adequate funding for the full range of statewide bridge needs, including:
   - State Highway High Cost Bridges
   - City/County High Cost Bridges
   - State Highway Routine Bridges
   - City/County Routine Bridges -- on the Federal Highway System
   - City/County Off-System Bridges

6. Request that ODOT, AOC and LOC defer amendment of the Interagency Agreement for administration of the HBR Program until a revised ranking system has been established.

7. Request that ODOT assist the Portland region in developing a bridge management system as required by ISTEA.
FACTUAL BACKGROUND AND ANALYSIS

1. The ISTEA of 1991 increased the Highway Bridge Replacement Program significantly, resulting in a funding increase for Oregon from $7.8 million in FY 1991 to $25 million in FY 1992. Despite this increase, the need for replacement or rehabilitation of the Willamette River bridges remains unfunded in the Draft Six-Year Program.

2. The Willamette River Bridges are high traffic volume bridges and, in many cases, high in transit ridership, bike and pedestrian traffic.

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<thead>
<tr>
<th>Bridge</th>
<th>Current ADT</th>
<th>Spring '90 Daily Transit Ridership</th>
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<tbody>
<tr>
<td>Sellwood</td>
<td>31,700 veh.</td>
<td>796</td>
</tr>
<tr>
<td>Hawthorne</td>
<td>27,000 veh.</td>
<td>12,154</td>
</tr>
<tr>
<td>Morrison</td>
<td>49,000 veh.</td>
<td>3,676</td>
</tr>
<tr>
<td>Burnside</td>
<td>38,000 veh.</td>
<td>7,182</td>
</tr>
<tr>
<td>Broadway</td>
<td>30,000 veh.</td>
<td>1,955</td>
</tr>
<tr>
<td></td>
<td>175,700 veh.</td>
<td>25,763</td>
</tr>
</tbody>
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In addition, because of their size, the fact that the Willamette River is a navigable stream, the high cost lift spans involved and the age of the structures, rehabilitation or replacement is very expensive as compared to conventional bridges:

Major Movable Bridge Replacement Cost = $1500/sq. ft.
Major Fixed Span Replacement Cost = $125/sq. ft.
Conventional Bridge Replacement Cost = $55/sq. ft.

As a result, the unmet 10-year Willamette River bridge needs are significant:

Various electrical, mechanical, structural, illumination, rehabilitation ........ $ 24 million
Commercial Sandblast and Paint .................. 43 "
Seismic Retrofit .................................. 20 "
Sellwood Bridge Replacement ..................... 42 "

$129 million

Bridge needs of this magnitude are atypical for any unit of local government in Oregon.

3. HBR funds are distributed to the states on the basis of each state's total bridge replacement/rehabilitation needs as a percentage of national bridge replacement/rehabilitation needs. The same unit costs for similar types of bridges nationwide are used in this calibration. The high cost of the Willamette River bridges are included in Oregon's needs and account for 11 percent of the statewide needs. As such, 11 percent of the total HBR funds allocated to Oregon are due to the needs identified for the Willamette River bridges. Simply allocating the Willamette River bridges 11 percent of the HBR funds over the six-year life of the ISTEA would
produce $16.8 million towards meeting the Willamette River bridge needs. The draft Six-Year Program envisions none of these funds being allocated to the Willamette River bridges.

4. Administration of HBR funds has historically been established through an interagency agreement between ODOT, AOC and LOC. By statute, at least 15 percent of the HBR system must be spent on bridges off the federal highway system. These are generally small bridges under jurisdiction of local governments. An additional 15-20 percent has been allocated to city/county bridges on the federal highway system with the remaining 65-70 percent programmed by ODOT on state highway system bridges. For the upcoming Six-Year Program update, ODOT proposes to allocate 15 percent off-system, 15 percent local on-system, and 70 percent ODOT.

Over the past six years, the local on and off-system bridges have been ranked according to the following criteria:

- Sufficiency Rating (on a 1-100 scale) ........ 71.4 percent
- Cost Factor ........................................ 7.1 percent
- Deficient Structure ................................. 14.3 percent
- Historic Status ..................................... 7.1 percent

Using this system, the Willamette River bridges ranked in the top five in the overall local bridge needs. However, few of these bridges were funded due to the limited availability of funds and the desire to cap the dollar amount that would be allocated to any single jurisdiction.

In the upcoming Six-Year Program, ODOT proposes to revise the ranking criteria as follows:

- Sufficiency Rating (on a 1-100 scale) .......... 25 percent
- Cost Factor ......................................... 20 percent
- Jurisdiction Need (resources available per road mile) ............ 20 percent
- Load Capacity ...................................... 35 percent

Under this ranking system, the Willamette River bridges ranked poorly at numbers 37, 38, 43, 44 and 58 out of a possible 67 bridges. Due to these changes, it appears that once again, the Willamette River bridges would go unfunded for the next six years.

5. There is no apparent basis for establishing the split between state and local bridges. As proposed, the funding would be split: 70% ODOT/30% local, with no funds allocated to Multnomah County. Multnomah County earns 11 percent of the HBR funds allocated to the state. Additionally, there should be a comparison of the ranking of ODOT bridges versus local bridges to establish the split between state and local bridges.
RECOMMENDATION

1. Restrict programming of HBR funds in the upcoming Six-Year Program to the first two years in order to allow for development of a revised HBR allocation process.

2. Ensure that the "needs" analysis being compiled by the Oregon Roads Finance Study includes the high cost for replacement/rehabilitation of Willamette River bridges.

3. Request that the Oregon Road Finance Study evaluation of needs versus revenues conduct an evaluation of the HBR Program to meet the Willamette River bridge and other statewide needs and to recommend a funding package designed to ensure a solution to meeting the needs of all critical statewide needs, including:

   - State Highway High Cost Bridges
   - City/County High Cost Bridges
   - State Highway Routine Bridges
   - City/County Routine Bridges -- on the Federal Highway System
   - City/County Off-System Bridges

   Ensure that no single category of bridge needs go unmet while the remaining categories are partially or fully met.

4. Request that the Oregon Transportation Commission work with the AOC/LOC Bridge Committee to consider policy implications involved in developing a revised bridge ranking system, criteria and process that meets the needs of all bridges statewide, including high cost local bridges.

5. Request that ODOT, AOC and LOC defer amendment to the interagency agreement dealing with the administration of HBR funds until the revised system described above is developed.

6. Request that ODOT assist the Portland region in developing a bridge management system as required by ISTEA.

EXECUTIVE OFFICER'S RECOMMENDATION

The Executive Officer recommends approval of Resolution No. 92-1617.
BEFORE THE COUNCIL OF THE
METROPOLITAN SERVICE DISTRICT

FOR THE PURPOSE OF ADOPTING ) RESOLUTION NO. 92-1617
A POLICY ON HIGHWAY BRIDGE ) Introduced by
REPLACEMENT FUNDS ) Councilor Richard Devlin

WHEREAS, The Intermodal Surface Transportation Efficiency Act of 1991 increased the level of funding available for highway bridge replacement and rehabilitation (HBR); and

WHEREAS, The need for rehabilitation and repair of the Willamette River bridges account for 11 percent of the HBR funds allocated to the state of Oregon; and

WHEREAS, The cost of Willamette River bridge rehabilitation and replacement is 12 times that of conventional bridges due to the large size, age and movable design; and

WHEREAS, The Willamette River bridges are vital to mobility in the Portland metropolitan area; and

WHEREAS, the Willamette River bridge needs are not being met through the past and proposed administration of the HBR program; now, therefore,

BE IT RESOLVED,

That the Council of the Metropolitan Service District does hereby:

1. Request that ODOT defer programming of HBR funds in years 1995, 1996, 1997 and 1998 in the upcoming adoption of the Six-Year Transportation Improvement Program in order to allow consideration of alternative allocation procedures.

2. Request that the ODOT/AOC/LOC-sponsored Roads Finance Study acknowledge the cost of rehabilitation and replacement of
the Willamette River Bridges as a need to be reflected in the study.

3. Request that the Roads Finance Study evaluate the adequacy of the HBR Program to meet the Willamette River bridge needs and other state and local bridge replacement and rehabilitation needs.

4. Request that the Oregon Transportation Commission work with the AOC/LOC Bridge Committee to consider policy options in developing a ranking system, criteria and process that addresses statewide bridge needs, including large unfunded local bridges.

5. Request that the Roads Finance Study recommend a funding solution through the HBR Program or other federal or state mechanisms to ensure adequate funding for the full range of statewide bridge needs, including:
   - State Highway High Cost Bridges
   - City/County High Cost Bridges
   - State Highway Routine Bridges
   - City/County Routine Bridges -- on the Federal Highway System
   - City/County Off-System Bridges

6. Request that ODOT, AOC and LOC defer amendment of the Interagency Agreement for administration of the HBR Program until a revised ranking system has been established.

7. Request that ODOT assist the Portland region in developing a bridge management system as required by ISTEA.

ADOPTED by the Council of the Metropolitan Service District this ____ day of ________, 1992.

Jim Gardner, Presiding Officer
PROPOSED ACTION

Resolution No. 92-1617 adopts a regional position on Highway Bridge Replacement (HBR) funds as follows:

1. Request that ODOT defer programming of HBR funds in years 1995, 1996, 1997 and 1998 in the upcoming adoption of the Six-Year Transportation Improvement Program in order to allow consideration of alternative allocation procedures.

2. Request that the ODOT/AOC/LOC-sponsored Roads Finance Study acknowledge the cost of rehabilitation and replacement of the Willamette River bridges as a need to be reflected in the study.

3. Request that the Roads Finance Study evaluate the adequacy of the HBR program to meet the Willamette River bridge needs and other state and local bridge replacement and rehabilitation needs.

4. Request that the Oregon Transportation Commission work with the AOC/LOC Bridge Committee to consider policy options in developing a ranking system, criteria and process that addresses statewide bridge needs, including large unfunded local bridges, that ensures a distribution of bridge funds to the Willamette River bridges at a level consistent with the funds received by the State of Oregon attributable to these bridges.

5. Request the Oregon Transportation Commission to consider the high cost of rehabilitating the Willamette River bridges compared with other local government bridges, and allow these large movable bridges to compete in the prioritization for the HBR allocation with similar high-cost bridges at the state level rather than competing in the HBR allocation for local governments.

6. Request that the Roads Finance Study recommend a funding solution through the HBR Program or other federal or state mechanisms to ensure adequate funding for the full range of statewide bridge needs, including:

   . State Highway High Cost Bridges
   . City/County High Cost Bridges
   . State Highway Routine Bridges
7. Request that ODOT, AOC and LOC defer amendment of the Interagency Agreement for administration of the HBR Program until a revised ranking system has been established.

8. Request that ODOT assist the Portland region in developing a bridge management system as required by ISTEA.

JPACT has reviewed this HBR position paper and recommends approval of Resolution No. 92-1617.

FACTUAL BACKGROUND AND ANALYSIS

1. The ISTEA of 1991 increased the Highway Bridge Replacement Program significantly, resulting in a funding increase for Oregon from $7.8 million in FY 1991 to $25 million in FY 1992. Despite this increase, the need for replacement or rehabilitation of the Willamette River bridges remains unfunded in the Draft Six-Year Program.

2. The Willamette River Bridges are high traffic volume bridges and, in many cases, high in transit ridership, bike and pedestrian traffic.

<table>
<thead>
<tr>
<th></th>
<th>Current ADT</th>
<th>Spring '90 Daily Transit Ridership</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sellwood</td>
<td>31,700 veh.</td>
<td>796</td>
</tr>
<tr>
<td>Hawthorne</td>
<td>27,000 veh.</td>
<td>12,154</td>
</tr>
<tr>
<td>Morrison</td>
<td>49,000 veh.</td>
<td>3,676</td>
</tr>
<tr>
<td>Burnside</td>
<td>38,000 veh.</td>
<td>7,182</td>
</tr>
<tr>
<td>Broadway</td>
<td>30,000 veh.</td>
<td>1,955</td>
</tr>
<tr>
<td></td>
<td>175,700 veh.</td>
<td>25,763</td>
</tr>
</tbody>
</table>

In addition, because of their size, the fact that the Willamette River is a navigable stream, the high cost lift spans involved and the age of the structures, rehabilitation or replacement is very expensive as compared to conventional bridges:

Major Movable Bridge Replacement Cost = $1500/sq. ft.
Major Fixed Span Replacement Cost = $125/sq. ft.
Conventional Bridge Replacement Cost = $55/sq. ft.

As a result, the unmet 10-year Willamette River bridge needs are significant:

<table>
<thead>
<tr>
<th>Item</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Various electrical, mechanical, structural, illumination, rehabilitation</td>
<td>$24 million</td>
</tr>
<tr>
<td>Commercial Sandblast and Paint.</td>
<td>43 &quot;</td>
</tr>
<tr>
<td>Seismic Retrofit.</td>
<td>20 &quot;</td>
</tr>
<tr>
<td>Sellwood Bridge Replacement</td>
<td>42 &quot;</td>
</tr>
<tr>
<td></td>
<td>$129 million</td>
</tr>
</tbody>
</table>
Bridge needs of this magnitude are atypical for any unit of local government in Oregon.

3. HBR funds are distributed to the states on the basis of each state's total bridge replacement/rehabilitation needs as a percentage of national bridge replacement/rehabilitation needs. The same unit costs for similar types of bridges nationwide are used in this calibration. The high cost of the Willamette River bridges are included in Oregon's needs and account for 11 percent of the statewide needs. As such, 11 percent of the total HBR funds allocated to Oregon are due to the needs identified for the Willamette River bridges. Simply allocating the Willamette River bridges 11 percent of the HBR funds over the six-year life of the ISTEA would produce $16.8 million towards meeting the Willamette River bridge needs. The draft Six-Year Program envisions none of these funds being allocated to the Willamette River bridges.

4. Administration of HBR funds has historically been established through an interagency agreement between ODOT, AOC and LOC. By statute, at least 15 percent of the HBR system must be spent on bridges off the federal highway system. These are generally small bridges under jurisdiction of local governments. An additional 15-20 percent has been allocated to city/county bridges on the federal highway system with the remaining 65-70 percent programmed by ODOT on state highway system bridges. For the upcoming Six-Year Program update, ODOT proposes to allocate 15 percent off-system, 15 percent local on-system, and 70 percent ODOT.

Over the past six years, the local on and off-system bridges have been ranked according to the following criteria:

- Sufficiency Rating (on a 1-100 scale) .... 71.4 percent
- Cost Factor .................................. 7.1 percent
- Deficient Structure ......................... 14.3 percent
- Historic Status ............................ 7.1 percent

Using this system, the Willamette River bridges ranked in the top five in the overall local bridge needs. However, few of these bridges were funded due to the limited availability of funds and the desire to cap the dollar amount that would be allocated to any single jurisdiction.

In the upcoming Six-Year Program, ODOT proposes to revise the ranking criteria as follows:

- Sufficiency Rating (on a 1-100 scale) .... 25 percent
- Cost Factor. ................................. 20 percent
- Jurisdiction Need (resources available per road mile) ..................... 20 percent
- Load Capacity .............................. 35 percent

Under this ranking system, the Willamette River bridges ranked poorly at numbers 37, 38, 43, 44 and 58 out of a possible 67 bridges. Due to these changes, it appears that
once again, the Willamette River bridges would go unfunded for the next six years.

5. There is no apparent basis for establishing the split between state and local bridges. As proposed, the funding would be split: 70% ODOT/30% local, with no funds allocated to Multnomah County. Multnomah County earns 11 percent of the HBR funds allocated to the state. Additionally, there should be a comparison of the ranking of ODOT bridges versus local bridges to establish the split between state and local bridges.

RECOMMENDATION

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6. Request that ODOT assist the Portland region in developing a bridge management system as required by ISTEA.

EXECUTIVE OFFICER'S RECOMMENDATION

The Executive Officer recommends approval of Resolution No. 92-1617.
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FOR THE PURPOSE OF ADOPTING ) RESOLUTION NO. 92-1617
A POLICY ON HIGHWAY BRIDGE ) Introduced by
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8. Request that ODOT assist the Portland region in developing a bridge management system as required by ISTEA.

ADOPTED by the Council of the Metropolitan Service District this ___ day of ________, 1992.

Jim Gardner, Presiding Officer
OREGON TRANSPORTATION PLAN
Public Review Draft
May 1992

Multimodal System Element

THE NEW OREGON TRAIL
Leading into the 21st Century
The purpose of the Oregon Transportation Plan is to develop a safe, convenient and efficient transportation system which promotes economic prosperity and livability for all Oregonians.
To make comments and obtain additional copies of this plan, contact:

Dave Bishop, Transportation Plan Manager
Carolyn Gassaway, Transportation Analyst

Oregon Department of Transportation
Strategic Planning Section
Room 405, Transportation Building
Salem, OR 97310

Phone: (503) 373-7571
FAX: (503) 373-7194

Public comments on this document are due by Monday, July 1, 1992.
PREFACE

The Oregon Transportation Plan (OTP), including the Policy Element and the Multimodal System Element, is intended to meet the requirements of ORS 184.618(1):

As its primary duty, the [Transportation] Commission shall develop and maintain a state transportation policy and a comprehensive, long-range plan for a multimodal transportation system for the state which encompasses economic efficiency, orderly economic development, safety and environmental quality. The plan shall include, but not be limited to aviation, highways, mass transit, pipelines, ports, rails and waterways.

In addition, the OTP is intended to meet the requirements of the Land Conservation and Development Commission (LCDC) Goal 12 Transportation Planning Rule and the federal Interstate Surface Transportation Efficiency Act (ISTEA) requirements for a state transportation plan.

The Multimodal System Element implements the goals and policies in the Policy Element by identifying a coordinated transportation system, a network of facilities and services for air, rail, highways, public transit, pipeline, marine transportation, bikeways and other modes to be developed over the next 20 years. The System Element includes an inventory of existing facilities and services, a base forecast of transportation trends, identification of corridors and transportation facilities of statewide function, a description of minimum levels of service, and an implementation strategy. This document summarizes the data that form the basis of the System Element; the Multimodal System Element Technical Report contains the basic data.

The OTP Steering Committee, made up of members of the Oregon Transportation Commission, the governor's office, state legislators and representatives of local governments, has been guiding the development of the System Element. After examining three alternative approaches to providing transportation facilities and services, the committee chose a preferred system. The committee is distributing this draft of the Multimodal System Element for public review. The review includes public meetings throughout the state from late May to mid-June.

The OTP Steering Committee will revise both the Policy and System Elements based on public comments. The Oregon Transportation Commission will hold hearings on both elements in August and expects to adopt them in September. Changes in transportation policies and financing requiring legislation will be introduced to the legislature in January 1993.

Public comments on this document are due by Monday, July 1, 1992.
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EXECUTIVE SUMMARY

Introduction

Oregon's transportation system continues to be crucial to the state's livability and development. Opportunities and challenges facing the state require a strong and efficient transportation system to serve the needs of commerce and personal mobility.

Oregon's population is expected to grow faster than the nation's for most of the next 40 years. According to forecasts by the Oregon Department of Transportation (ODOT), Oregon's population is projected to increase from 2.8 million in 1990 to 3.8 million in 2012. After that Oregon's growth rate will slow, reflecting national trends. Most of this growth is projected to take place in the Willamette Valley, especially in its suburban areas; the Valley's population densities will approach those of more urban states.

At the same time, the population in eastern Oregon will also increase. Growth pockets on the coast and in central and southern Oregon will probably lead growth outside of the Willamette Valley.

Increased demands for transportation services will be most prevalent in the Willamette Valley where congestion will become an increasing problem, especially in the Portland metropolitan area. Air quality and energy conservation will be important concerns as auto emissions and congestion increase. New forms of land development will be required to avoid the type of urban sprawl that has reduced the livability of many American cities and limited opportunities for public transit, bicycling, and walking.

As the state's economy develops more diversity, high value manufacturing and services will be important industries along with wood products, agriculture and tourism. Links to international and national markets must be developed in order to take advantage of the new economic trends.

Rural areas will increasingly need access to services and markets. Links to rural areas must be maintained and enhanced in order to serve both those areas and the economy of regions outside the Willamette Valley.

New technology should help make travel more efficient. Intelligent Vehicle Highway Systems (IVHS) will allow traffic to flow more efficiently, while high speed rail may have the potential to divert many trips from air. But the state also needs to improve linkages between transportation and land use so that each supports the other.
In anticipation of these challenges, Oregonians have set bold new directions for the state's future transportation system through the Oregon Benchmarks, the Land Conservation and Development Commission's (LCDC) Transportation Planning Rule, and the goals and policies developed in the Oregon Transportation Plan's (OTP) Policy Element. These form the basis for the Multimodal System Element.

The Goals of the Oregon Transportation Plan

The purpose of the Oregon Transportation Plan is to develop a safe, convenient and efficient transportation system which promotes economic prosperity and livability for all Oregonians.

The Transportation Commission drafted this purpose statement during development of the Policy Element of the Transportation Plan. The Policy Element also established four goals for Oregon's future transportation system which were assumed explicitly to encompass the Oregon Benchmarks and the requirements of LCDC Goal 12: Transportation.

Goal 1. System Characteristics: To enhance Oregon's comparative economic advantage and quality of life by the provision of a transportation system with the following characteristics:

- Balance
- Efficiency
- Accessibility
- Environmental Responsibility
- Connectivity among Places
- Connectivity among Modes and Carriers
- Safety
- Financial Stability

Goal 2. Livability: To develop a multimodal transportation system that provides access to the entire state, supports acknowledged comprehensive land use plans, is sensitive to regional differences, and supports livability in urban and rural areas.

Goal 3. Economic Development: To promote the expansion and diversity of Oregon's economy through the efficient and effective movement of goods, services, and passengers in a safe, energy efficient, and environmentally sound manner.

Goal 4. Implementation: To implement the Transportation Plan by creating a stable, but flexible financing system, by using good management practices, by supporting transportation research and technology, and by working cooperatively with regional and local governments, the private sector, and citizens.
The Role of the Multimodal System Element

The recommended Multimodal System Element presented in this document meets the goals of the Policy Element in eight ways:

1. It identifies a multimodal system including air, rail, auto, truck, bus, bicycle, pedestrian and marine transportation, telecommunications, and pipelines to be implemented within the next 20 years.

2. It establishes minimum levels of service to be achieved by each mode of transportation.

3. It identifies other major improvements beyond minimum levels of service.

4. It identifies the transportation corridors and facilities which serve statewide and interstate functions.

5. It identifies transportation system and facility management processes that must be put into place, including local transportation demand management and financing principles.

6. It identifies land use policies that must be put into effect to achieve the goals of the transportation plan.

7. It identifies local, state, and federal roles in implementing the plan and sets planning and performance criteria for modal implementation plans and local and regional transportation plans.

8. It estimates the financial requirements to implement the plan.

The Alternatives

One way to develop a transportation plan is to envision the facilities and services which would be in place if the plan were implemented. The System Element does this for the next 20 years. Because of the length of time required to implement transportation projects and changes in technologies, the System Element also envisions those major issues and projects which may be necessary in the next 20 to 40 years.

To place the possibilities in perspective, the Steering Committee examined three alternatives: (1) an alternative with funding that does not increase with inflation, (2) an alternative that contains current funding with increases for inflation, and (3) an alternative that emphasizes economic development and livability. Five maps summarize the major transportation system characteristics of the three alternatives.
Existing 1992 (Map 1) illustrates the existing transportation system. The basic structure of the transportation system is already in place and the Preferred Plan builds on that structure.

A Funding Decline - Alternative 1 would not expand and improve the system illustrated on Map 1. The following consequences would result:

- No expansion of current service levels since efforts would be limited to preservation of existing infrastructure;
- Increased traffic congestion;
- Decline in intercity bus, rail, specialized transit, aviation, marine transportation, and pipeline services;
- Some increased transit ridership in the Portland metropolitan area where traffic congestion would significantly increase and a decline in ridership in other areas due to lack of funding;
- No improvements at intermodal passenger and freight facilities;
- Increased vehicle miles traveled (VMT) and person trip generation at a lower rate than the base case (the Continuation of Current Programs alternative).

2012 Continuation of Current Programs - Alternative 2 (Map 2) shows how the system would look if existing transportation programs at state and local levels were continued without any change in emphasis or without major funding enhancements. This is referred to as the base case. Under this alternative there would be:

- Unmet minimum levels of service standards for highways, transit, rail, aviation, marine transportation, and pipelines;
- Limited expansion of state highway capacity;
- Growth in transit ridership and intercity passenger patronage at the same rate as population growth but a reduced number of intercity bus routes;
- Limited number of new citywide transit systems established, such as in Bend;
- Enhanced air service in Astoria, Newport, and Roseburg;
- Scenic byways along the entire length of US 101 and the Columbia Gorge;
• New specialized elderly and disadvantaged transit services;

• Increased VMT per capita between 0.3 percent per capita in metropolitan areas and 1.5 percent per capita statewide;

• Little change in ridesharing as a percent of work trips and average trip length; dispersal of new jobs to suburban areas would be offset by increased congestion and more compact suburban development;

• Continuation of the 1 percent program for bicycle and pedestrian facilities;

• Designation of Corvallis/Albany as a new metropolitan planning area.

**Minimum Levels of Service - Plus Preferred Transportation System - Alternative 3** (Map 3) shows how the transportation system would look with full implementation of the economic development and livability alternative. Under this alternative, it is expected there should be by 2012:

• A transportation system that helps maximize economic opportunities and quality of life, as measured by the Oregon Benchmarks;

• Hourly intercity passenger service established in the Willamette Valley along I-5 between Eugene and Portland;

• A sevenfold increase in the use of telecommunications over 1990 use;

• High occupancy vehicle (HOV) lanes and peak period congestion pricing established on freeways and arterials in metropolitan areas;

• Intelligent Vehicle Highway System (IVHS) networks in metropolitan areas and on I-5 and I-84;

• Increased walking and bicycle trips to represent 5 percent of all person trips, and transit to double from the base case forecast in metro areas;

• Intercity bus or commuter bus service available to cities of over 2,500 population;

• Urban transit service available in communities over 25,000 population;

• Intermodal passenger terminals established in Portland, Salem, Eugene, Medford, and Bend;

• Enhanced rural commercial air service, particularly to Baker City and the La Grande area;
• International port improvements and maintained rail service on the lower Columbia River and Coos Bay;

• Improved intermodal hub freight facilities in Portland, Eugene, Klamath Falls and Umatilla and in Idaho near Ontario;

• Additional major highway freight corridors on non-Access Oregon Highways;

• Additions to the statewide functional highway system;

• Natural gas pipelines developed to Coos Bay and Tillamook to help industrial development and make alternative transportation fuel available;

• Full implementation of the LCDC Transportation Rule;

• Establishment of a Willamette Valley Transportation System Coordination Area.

Willamette Valley Detail (Map 4) provides more detail for Alternative 3 as it affects the Valley.

Long-Range Transportation Possibilities (Map 5) illustrates a number of possible future developments worthy of discussion, but that are either too far in the future or too uncertain to be included in this plan in a meaningful way. These possibilities include:

• High-speed rail service in the Willamette Valley with connections to Seattle;

• A Valley interurban rail service which is being investigated as a way of serving travel needs on the west side of the Willamette Valley;

• A Klamath Falls intermodal air freight hub;

• A new international airport in the Willamette Valley which could be needed if Portland International Airport reaches capacity;

• A tourism highway between Grants Pass/Medford and Gold Beach.

The OTP Steering Committee selected the Preferred Plan (Alternative 3) for public discussion. Development of the plan will require cooperation and implementation by federal, state, regional, and local governments and private providers. Jurisdictional roles and the financing program for the plan are still being formulated. The Transportation Commission will adopt a specific financing program in November 1992.
DEVELOPMENT OF THE PREFERRED PLAN

PLANNING FRAMEWORK

The Multimodal System Element is built upon the goals, policies and actions of the Transportation Plan Policy Element, the Oregon Benchmarks, the LCDC Goal 12 Transportation Planning Rule, population and economic forecasts and an examination of alternative approaches to the development of the transportation system.

The design of the Multimodal System Element is best understood by a more detailed explanation of the four goals of the Oregon Transportation Plan.

Oregon Transportation Plan Goals

GOAL 1 - SYSTEM CHARACTERISTICS: To enhance Oregon's comparative economic advantage and quality of life by the provision of a transportation system with the following characteristics:

- Balance
- Efficiency
- Accessibility
- Environmental Responsibility
- Connectivity among Places
- Connectivity among Modes and Carriers
- Safety
- Financial Stability

Balance: The transportation system must be designed and developed so that people have transportation choices going from place to place. In urban areas, people should be able to choose to commute, for example, by carpool, public transit or bicycle. Freight shippers need competitive services to hold down rates and encourage innovation.

Efficiency: The system must be efficient. Transportation agencies need to make decisions such as whether to add lanes to freeways or to build light rail lines based on their full costs, including the costs to the environment and community.

Accessibility: Transportation services must be accessible to all potential users, including the young, the elderly, and the disabled. Public transportation and transportation for special groups, like the elderly, must be coordinated to provide more effective service.

Environmental Responsibility: The system must be environmentally responsible. Vehicle emission standards and efforts to reduce the vehicle miles traveled per capita should improve air quality and reduce energy consumption.
**Connectivity:** Statewide transportation corridors must provide access for people and goods to all areas of the state, nation, and world. People and goods must be able to shift easily from transit or truck, to rail, to ship, or plane to take advantage of the most efficient mode.

**Safety:** Safety must be improved through better transportation facility design, increased law enforcement and better education for drivers of all types of vehicles.

**Financial Stability:** The transportation system must have financial stability and give priority to funding those transportation needs identified in state, regional, and local transportation system plans.

**GOAL 2 - LIVABILITY:** To develop a multimodal transportation system that provides access to the entire state, supports acknowledged comprehensive land use plans, is sensitive to regional differences, and supports livability in urban and rural areas.

The state must define and assure appropriate minimum levels of transportation service to provide access to all parts of the state. In rural communities, bus services, highways, and bicycle routes need improvement.

Oregon's transportation system must support statewide land use goals and regional, city, and county land use plans. Transportation facilities and services should support development of compact urban areas. Land use developments need to be designed so people can live, work, and shop in the same area. Land use patterns should encourage walking, bicycling, and the use of transit. Access controls on intercity routes should be used to reduce congestion.

Scenic vistas and aesthetic values that support our environmental quality and economic development need to be included in the design and improvement of transportation corridors.

**GOAL 3 - ECONOMIC DEVELOPMENT:** To promote the expansion and diversity of Oregon's economy through the efficient and effective movement of goods, services and passengers in a safe, energy efficient and environmentally sound manner.

To foster economic development, people and goods must be able to travel by the most efficient means possible. One mode must be connected with others through intermodal hubs which allow goods to move from truck to rail to ship or plane.
Adequate facilities for rail service, air freight, and marine transportation must be maintained. Transportation providers should be encouraged to work together to expand the capacity of Oregon's freight and passenger industry and increase competitiveness in international trade. Transportation services for tourism should be identified and developed.

GOAL 4 - IMPLEMENTATION: To implement the Transportation Plan by creating a stable, but flexible financing system by using good management practices, by supporting transportation research and technology, and by working cooperatively with regional and local governments, the private sector, and citizens.

Transportation financing must be both stable and flexible. Those who use and benefit from the transportation system should pay for it. The finance system must provide equity among alternative transportation modes, state, regional, and local jurisdictions, all regions of the state, and individuals and businesses.

Implementation policies recognize that the transportation system must be managed so that steps are taken to ease the demands on the system before new facilities are constructed. This can be done by reducing peak period travel and improving the traffic flow through such means as ramp metering and incidence management. In the future, congestion pricing or toll systems may be an important element of urban freeway management.

The state should support the development of innovative management practices, new technologies, and other techniques that help carry out the implementation of the Transportation Plan.

Further refinement and implementation of the Transportation Plan will depend on the cooperation of federal, state, regional and local governments, the private sector, and the citizens of Oregon.

Oregon Benchmarks

The Oregon Progress Board created the Oregon Benchmarks to monitor progress in achieving the state's objectives in human resources, livability, and the economy. The 1991 Legislature adopted many of these objectives. Several of the Benchmarks have specific implications for the Multimodal System Plan and were included in the analysis and development of the plan. These are listed in Table 1. In some cases, the plan does not fully implement the Benchmark, but each was taken into account in the process.
<table>
<thead>
<tr>
<th>BENCHMARK</th>
<th>2010 TARGET</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Urban Mobility:</strong> Percentage of Oregonians who commute to and from work during peak hours by means other than a single occupancy vehicle</td>
<td>60%*</td>
</tr>
<tr>
<td><strong>Air Quality:</strong> Percentage of Oregonians living where the air meets government ambient air quality standards</td>
<td>100%</td>
</tr>
<tr>
<td><strong>Livability Benchmarks</strong></td>
<td></td>
</tr>
<tr>
<td>Percentage of Oregonians who commute (one-way) within 30 minutes between where they live and where they work</td>
<td>88%</td>
</tr>
<tr>
<td>Percentage of miles of limited access highways in Oregon urban areas that are not heavily congested during peak hours</td>
<td>60%</td>
</tr>
<tr>
<td>Transit hours per capita per year in Oregon metropolitan areas</td>
<td>1.7 hours</td>
</tr>
<tr>
<td><strong>Economic Prosperity Benchmarks</strong></td>
<td></td>
</tr>
<tr>
<td>Percentage of Access Oregon Highways built to handle traffic at a steady 55 mile-per-hour rate</td>
<td>90%</td>
</tr>
<tr>
<td>Percentage of Oregonians living in communities with daily scheduled intercity passenger bus, van, or rail service</td>
<td>No target set</td>
</tr>
<tr>
<td>Percentage of Oregonians living within 50 miles of an airport with daily scheduled air passenger service</td>
<td>75%</td>
</tr>
<tr>
<td>Number of United States, Canadian and Mexican metropolitan areas of over one million population served by non-stop flights to and from any Oregon commercial airport</td>
<td>26</td>
</tr>
<tr>
<td>Number of international cities of over one million population (outside of Canada and Mexico) served by direct and non-stop air service to and from any Oregon commercial airport</td>
<td>12</td>
</tr>
<tr>
<td>Backlog of city, county, and state roads and bridges in need of repair and preservation</td>
<td>5%</td>
</tr>
<tr>
<td>Percentage of the 50 largest ports outside the United States served with direct service from the Port of Portland</td>
<td>80%</td>
</tr>
</tbody>
</table>

* Analysis carried out as a part of the OTP indicates this benchmark is probably not achievable.
LCDC Goal 12 Transportation Rule

The Goal 12 Transportation Rule also contains an extremely important requirement for metropolitan area transportation. That requirement is to reduce per capita vehicle miles of travel in each metropolitan area by 10 percent in the next 20 years and 20 percent in the next 30 years, and to rely on alternative modes of transportation including public transit, bicycling and walking.
FORECASTS

To estimate transportation trends over the next 20 years, planners forecast population and employment increases and estimated the increased use of major types of transportation.

The System Element is built on a statewide base forecast which could be allocated to counties and metropolitan areas. Each of the planning alternatives was initially developed and evaluated on this base forecast. However, recognizing that unforeseen changes can have profound impacts on decisions, two contingency forecasts were also developed. These are a super growth forecast, which predicts the impacts of unexpectedly high rates of population growth, and an eco-catastrophe forecast, which predicts the impact of an unforeseen environmental or economic catastrophe that severely constrains future growth and development.

Base Forecasts

ODOT's October 1991 report, "Demographic and Economic Forecasts 1990-2030," projects that population will increase in Oregon at a rate of 1.35 percent per year from 1990 to 2010 and employment will increase at 1.62 percent per year. The 1970-90 Oregon population growth rate was 1.55 per year. In the future, employment growth is expected to exceed the population growth rate by 20 percent because of the West Coast's generally favorable location (climate, natural resources, and access to rapidly growing Pacific Rim economies) and because of a continuing increase in the proportion of the population between ages 15 and 65 until about 2005. (See Appendix A for county projections.)

TABLE 2


<table>
<thead>
<tr>
<th></th>
<th>1970</th>
<th>1990</th>
<th>2010</th>
<th>2030</th>
<th>Rate</th>
<th>Rate</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. Population</td>
<td>211,349</td>
<td>245,807</td>
<td>282,050</td>
<td>297,537</td>
<td>0.69%</td>
<td>0.92%</td>
<td>0.27%</td>
</tr>
<tr>
<td>Ore. Population</td>
<td>2,092</td>
<td>2,847</td>
<td>3,725</td>
<td>3,933</td>
<td>1.55%</td>
<td>1.35%</td>
<td>0.27%</td>
</tr>
<tr>
<td>U.S. Employment</td>
<td>75,957</td>
<td>129,229</td>
<td>155,776</td>
<td>150,776</td>
<td>2.44%</td>
<td>1.25%</td>
<td>-0.16%</td>
</tr>
<tr>
<td>Ore. Employment</td>
<td>709</td>
<td>1,248</td>
<td>1,723</td>
<td>1,664</td>
<td>2.87%</td>
<td>1.62%</td>
<td>-0.17%</td>
</tr>
</tbody>
</table>

Using the population and employment forecasts, planners estimated the amount of travel anticipated through existing plans. These base case forecasts are the result of review and adaptation of existing ODOT forecasts included in the 1991 ODOT Highway Plan and in the 1989 ODOT Aviation Plan, Metro forecasts in the Regional Transportation Plan update of 1989, the Portland Metro forecasts prepared for 2010 since the 1989 Plan, and upon public transit agency forecasts and forecasts by other planning agencies. Table 3 summarizes base case forecasts for travel trends.

**TABLE 3**

**TRANSPORTATION TRENDS**

**BASE CASE FORECASTS**

<table>
<thead>
<tr>
<th></th>
<th>1990 Estimate</th>
<th>Growth Rate/Year</th>
<th>2010 Forecast</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highway Total</td>
<td>27 billion vmt**</td>
<td>1.7 to 2.5%</td>
<td>34 to 44 billion</td>
</tr>
<tr>
<td>Highway Metro</td>
<td>9 billion vmt**</td>
<td>1.7 to 2.9%</td>
<td>15 billion vmt</td>
</tr>
<tr>
<td>Transit Total</td>
<td>65 million/yr ***</td>
<td>2.6%</td>
<td>108 million/yr</td>
</tr>
<tr>
<td>Transit Metro</td>
<td>55 million/yr</td>
<td>2.9%</td>
<td>97 million/yr</td>
</tr>
<tr>
<td>Intercity Bus</td>
<td>0.66 million/yr</td>
<td>1.0%</td>
<td>0.81 million/yr</td>
</tr>
<tr>
<td>Amtrak</td>
<td>0.56 million/yr</td>
<td>1.0%</td>
<td>0.68 million/yr</td>
</tr>
<tr>
<td>Airplane</td>
<td>3.9 million/yr</td>
<td>5.2%</td>
<td>10.8 million/yr</td>
</tr>
<tr>
<td>Truck</td>
<td>1.1 billion vmt</td>
<td>2.5%</td>
<td>1.8 billion vmt</td>
</tr>
<tr>
<td>Rail</td>
<td>136 million tons</td>
<td>2.5%</td>
<td>223 million tons</td>
</tr>
<tr>
<td>Pipeline</td>
<td>62 million b/yr****</td>
<td>1.0%</td>
<td>76 million b/yr</td>
</tr>
<tr>
<td>Ports - Inland</td>
<td>11 million tons</td>
<td>2.5%</td>
<td>18 million tons</td>
</tr>
<tr>
<td>Ports - Export</td>
<td>21 million tons</td>
<td>2.5%</td>
<td>34 million tons</td>
</tr>
<tr>
<td>Ports - Import</td>
<td>3 million tons</td>
<td>5.0%</td>
<td>8 million tons</td>
</tr>
</tbody>
</table>

* Vehicle miles traveled
** Range of highway VMT based on Rule 12 constraints
*** Million passengers per year
**** Barrels per year

**Super Growth**

A more rapid rate of population growth in Oregon, such as 2.3 percent per year, would cause severe deficiencies in the capacity of the state’s transportation system, particularly in the metropolitan areas. Unless denser residential patterns occur or infill development in the metropolitan areas takes place, new residents would be forced to move to areas outside the urban growth boundaries that are not well served by transportation modes other than the automobile and may not have adequate highway capacity. This would result in
longer trips by automobile and the need to widen highways and provide more access to the highway system.

On the other hand, a benefit of this high growth rate would be greater revenues to support transportation enhancements. If land use objectives could be maintained under the super growth forecast, additional resources that become available could be used to enhance transportation services. Higher densities in urban areas would create demands for more rapid shifts to public transportation options, and environmental and livability objectives would continue to be met.

**Eco-Catastrophe**

An eco-catastrophe could involve environmental and natural resource events that also would affect the state's economy. Or economic restrictions could affect environmental conditions and regulations.

These events could include:

- severe drought
- severe recession
- severe climate changes, such as global warming and ozone depletion
- a prolonged energy crisis

Any of these events would result in changes in demands for the transportation system. Clearly, limitations on personal mobility would result in people making fewer trips and shorter trips, or shifting to other modes for travel. Changes in the manner in which business is conducted, such as reduced demand for Oregon products or reduced output due to environmental considerations, would affect both freight movement and employee travel.

Environmental catastrophes such as severe drought and acid rain conditions could dramatically reduce the employment in and quantity and quality of products of the state’s forestry, agriculture and fishing industries. An energy crisis, global warming or ozone depletion could result in restriction in the amount of fossil fuel used. If restrictions were made in Oregon, but not in other states, it might encourage businesses and residents to move to other states. Or if restrictions were made in other states but not in Oregon, it might result in greater highway demands.

A severe recession, changes in the demand for Oregon exports, and new freight equipment requirements (such as ships with deeper draft channel requirements) would influence employment in the state. These kinds of events could lead to a focus on new industries and a relaxing of the number and impact of environmental regulations.
ALTERNATIVE APPROACHES

In the process of determining the preferred level of service to carry out the Transportation Plan’s goals and policies, the OTP Steering Committee examined three approaches to managing and improving Oregon’s transportation system to the year 2012:

1. Funding Decline -- A plan which continues current funding levels without adjustments for inflation or new programs;

2. Continuation of Current Programs -- A plan which maintains current programs and increases revenues and expenditures to account for inflation; and

3. Livability Approach -- A plan which attempts to maximize the impacts of transportation investments and programs on both livability and economic development to achieve the OTP goals, Oregon Benchmarks and the Goal 12 Transportation Rule.

The three approaches result in different kinds and levels of economic development and livability. The first two approaches are proposals against which the preferred alternative may be evaluated. However, they also have some value in themselves because they provide a basis for development of contingencies if the preferred alternative cannot be fully implemented.

1. Funding Decline

Under this approach, the only expenditures are those needed to preserve the existing infrastructure and maintain, but not expand, current services.

This approach has reduced expenditures in comparison to continuation of current programs because real dollar expenditures on transportation are assumed to decline with inflation. Transportation modes not now receiving public funding would not receive public funding in the future.

This alternative does not contribute to improved air quality or improved availability of public transit, bicycle paths, and pedestrian walkways. Land uses can be controlled and development channeled although no supporting transportation investments, such as public transit, would be financially feasible. Increases in congestion, declines in infrastructure investment, declines in levels of service, and increases in operating costs would negatively affect economic growth.
Public transportation service levels cannot be expanded beyond current commitments. Amtrak ridership should grow with population, although no new services would be added. Air travel will likely grow with population. Intercity bus services are likely to continue to decline in both ridership and services.

Highway conditions would not deteriorate, but congestion would increase. No initiatives would be possible for improved intermodal facilities for passengers or freight.

2. Continuation of Current Program Levels

This alternative plan (Map 2) provides for a continuation of the same state and regional transportation programs as anticipated through 1995 through the entire 20-year period to 2010. Many planned projects at the state and regional levels require additional funding to be made available if the programs are to be carried out. Current revenue sources are assumed to be adjusted for inflation as time passes so the buying power of the revenue sources does not change. For sources such as gasoline taxes and weight-distance taxes, rates of taxation will have to be periodically adjusted in order to keep pace with inflation.

Highway pavement conditions would continue to improve slightly although levels of congestion will increase. Intercity rail ridership should grow with population, while intercity bus ridership would decline as intercity bus services continue to be eliminated (most corridors had only one or two trips per day in 1991). Ridership on urban transit and specialized elderly and handicapped services should grow about the same as highway travel. Air travel would grow more rapidly than other modes.

3. Livability Approach

Under this alternative plan (Map 3), transportation investments and programs would be oriented to the economic and livability goals of the OTP Policy Element, the LCDC Transportation Rule and the Oregon Benchmarks. This option is a consolidation of two options, one which maximizes economic development and one which maximizes land use and environmental benefits. These were combined because they cannot be approached separately.

This alternative depends heavily on the concept of minimum levels of service within each transportation mode to assure appropriate transportation alternatives to all areas of the state. Development of this alternative is described in detail in the section on the Preferred Plan.
Evaluation of the Alternatives

Table 4 compares the three alternatives (sketch plans) based on 13 criteria:

- Highway VMT
- Transit trips
- Telecommuting trips
- Private cost per year
- Public cost per year
- Total cost per year
- Economic efficiency
- Economic development
- Environment
- Land use
- Alternative modes and technologies
- Consistency with Oregon policies
- Safety

Table 4 clearly indicates that the Livability alternative is best in virtually all criteria. It provides positive benefits in terms of economic development and efficiency as well as the environment, land use and safety. Highway vehicle miles of travel (VMT) would increase the least under the Livability alternative because of the implementation of the LCDC Transportation Rule. This alternative will meet the 10 percent per capita reduction of VMT in the metropolitan areas required by the rule.

The total cost to the public of operating and using the transportation system is a very important factor in selecting the Preferred Plan. Traditionally, the public costs for providing the system have been the primary issue. But public costs amount to only 5 percent of the total cost of using the transportation system. Much more important are the private costs to the user including vehicle ownership, value of travel time, fees and fares. The provision of a poor quality transportation system will significantly raise the total costs to the users because of the value of time lost in increased congestion and the increased vehicle ownership and operation costs. (See Appendix B for more cost detail.)
## Table 4
### Summary Evaluation of Alternative Approaches

<table>
<thead>
<tr>
<th>Criteria</th>
<th>1990</th>
<th>Funding Decline</th>
<th>Continue</th>
<th>Livability Approach</th>
<th>Best Plan</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Patronage</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Highway VMT*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Urban</td>
<td>13,100</td>
<td>26,100</td>
<td>26,100</td>
<td>19,800</td>
<td>Livability</td>
</tr>
<tr>
<td>Rural</td>
<td>13,900</td>
<td>19,300</td>
<td>19,300</td>
<td>19,300</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>27,000</td>
<td>44,400</td>
<td>44,400</td>
<td>39,100</td>
<td></td>
</tr>
<tr>
<td><strong>Transit Trips</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Urban</td>
<td>64.7</td>
<td>109</td>
<td>108</td>
<td>212</td>
<td>Livability</td>
</tr>
<tr>
<td>Intercity</td>
<td>1.2</td>
<td>1.4</td>
<td>1.6</td>
<td>3.0</td>
<td>Livability</td>
</tr>
<tr>
<td>Telecommute Trips*</td>
<td>11.1</td>
<td>38.2</td>
<td>39.4</td>
<td>74.9</td>
<td>Livability</td>
</tr>
<tr>
<td><strong>Cost Per Year</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Private</td>
<td>$18.8</td>
<td>$33.4</td>
<td>$32.6</td>
<td>$31.6</td>
<td>Livability</td>
</tr>
<tr>
<td>Public</td>
<td>$1.2</td>
<td>$1.1</td>
<td>$1.2</td>
<td>$1.7</td>
<td>Funding Decline</td>
</tr>
<tr>
<td>Total Cost</td>
<td>$20.0</td>
<td>$34.5</td>
<td>$33.8</td>
<td>$33.3</td>
<td>Livability</td>
</tr>
<tr>
<td><strong>Other Criteria</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Economic Efficiency</td>
<td>Worse than 1990</td>
<td>Same as 1990</td>
<td>Better than 1990</td>
<td>Livability</td>
<td></td>
</tr>
<tr>
<td>Economic Development</td>
<td>Worse than 1990</td>
<td>Same as 1990</td>
<td>Better than 1990</td>
<td>Livability</td>
<td></td>
</tr>
<tr>
<td>Environment</td>
<td>Negative</td>
<td>Neutral</td>
<td>Negative</td>
<td>Positive</td>
<td>Livability</td>
</tr>
<tr>
<td>Land Use</td>
<td>Neutral</td>
<td>Neutral</td>
<td>Neutral</td>
<td>Positive</td>
<td>Livability</td>
</tr>
<tr>
<td>Alternative Modes/Technologies</td>
<td>Neutral</td>
<td>Neutral</td>
<td>Neutral</td>
<td>Positive</td>
<td>Livability</td>
</tr>
<tr>
<td>Consistent With Oregon Policies</td>
<td>Not</td>
<td>Not</td>
<td>Yes</td>
<td>Livability</td>
<td></td>
</tr>
<tr>
<td>Safety</td>
<td>Worse than 1990</td>
<td>Same as 1990</td>
<td>Better than 1990</td>
<td>Livability</td>
<td></td>
</tr>
<tr>
<td><strong>SUMMARY</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Millions

**Billions of dollars
ASSUMPTIONS

The Preferred Plan incorporates certain fundamental assumptions about the future. While the plan is not totally dependent on these assumptions for its implementation, and while it would be a valid approach to transportation planning even without these assumptions, the effectiveness of the plan would be limited if these assumptions were not realized.

1. Regional and local governments will continue to contain development within established urban growth boundaries.

2. Urban areas will use compact and mixed use development patterns to enhance livability and preserve open space. These patterns will also support transit and other alternatives to the automobile.

3. The transportation system will achieve the transportation-related economic and livability standards of the Oregon Benchmarks.

4. State, regional and local governments will cooperate to achieve the vehicle miles traveled reduction standard in the LCDC Transportation Rule.

5. In rural areas personal transportation will continue to be the only alternative available for most purposes.

6. Telecommunications will be developed so that it provides a significant alternative to making transportation trips.

7. The price for transportation services can include a wider variety of costs leading to expanded alternatives to the single occupant vehicle.

8. Most transportation services, other than public transit, will be provided by the private sector.
DESCRIPTION OF THE PREFERRED PLAN

The Livability Approach or the Preferred Plan is comprehensive in its approach. It describes service levels for transportation modes, land use coordination needs, jurisdictional responsibilities, and pricing and investment strategies.

It identifies a multimodal system including air, rail, auto, truck, bus, bicycle, pedestrian and marine transportation, telecommunications, and pipelines to be implemented within the next 20 years. It establishes minimum levels of service to be achieved by each of these transportation modes and identifies other major improvements needed beyond the minimum levels.

The Preferred Plan relies on transportation system and facility management processes, including demand management and transportation pricing that reflects usage. It also depends on land use policies to carry out transportation plan goals.

To help define the responsibilities of state, regional and local jurisdictions, the plan identifies transportation corridors and facilities which serve statewide and interstate functions, and it sets transportation planning and performance requirements for local, regional and state implementation of the plan. Finally, it describes the financial investments needed to implement the plan.

MINIMUM LEVELS OF SERVICE

Minimum levels of service standards describe the performance for each mode that must be achieved in order to meet the goals of the Oregon Transportation Plan for balance and accessibility. Achievement of these minimum levels of service would accomplish the following:

1. Interconnect the various passenger and freight modes to allow travelers and shippers to move between modes and take advantage of the benefits of each.

2. Connect the various areas of the state by linking each community to the nearest Oregon city with a larger population and economy and by connecting areas outside of the Willamette Valley to the Valley.

3. Connect all areas of the state to the national and international transportation system for both passengers and freight.

4. Provide alternatives to private passenger cars in each local area and region of the state.
The minimum levels of service provide performance objectives to apply to the state, regional, and local transportation systems. These performance objectives apply to overall system performance, intermodal facilities, and modal facilities and systems. They describe the system that is expected to be in place within the next 20 years.

**Statewide Intercity Passenger Services**

Specialized transportation services, airport, and intercity common carrier services must be planned as an integrated system to provide accessibility between different communities. Minimum levels of service for intercity passenger services are defined in terms of required minimum connectivity between various parts of the state.

**Minimum levels of multimodal intercity passenger service are set at the following levels:**

- Hourly intercity passenger services should be available to major cities along I-5 in the Willamette Valley.

- Market areas over 50,000 in population and over 70 miles from Portland should have at least three minimum round trip connections to Portland available per day via intercity passenger modes (e.g., Astoria, Newport, Eugene, North Bend, Sweet Home, Redmond, Medford, Roseburg, Klamath Falls, Pendleton).

- East-west and north-south connections should be provided based on travel density in Oregon's interstate corridors to connect to places outside the state.

- Local public transit services and elderly and disadvantaged service providers should connect with intercity passenger terminals.

- Intercity passenger terminals should be subject to public control in order to assure open access to all intercity carriers (all of the state, but especially at main transfer locations including Portland, Eugene, Medford, Bend).

- To the extent possible, direct interconnections should be available between intercity bus, air, rail, airport limousine services, and local transit services (e.g., Portland, Eugene, North Bend, Medford, Klamath Falls, Redmond, Pendleton).

- Services shall be provided in compliance with the Americans with Disabilities Act (ADA) requirements for all modes and transfer facilities.
Intercity bus minimum levels of services

• Intercity passenger service should be available for an incorporated city or groups of cities within five miles of one another having a combined population of over 2,500, and located 20 miles or more from the nearest Oregon city with a larger population and economy. Services should allow a round trip to be made within a day (e.g., Astoria-Portland, Tillamook-Portland, Newport-Corvallis, Brookings-Coos Bay, Lakeview-Klamath Falls, Burns-Bend, John Day/Canyon City-Bend, Enterprise/Joseph-La Grande).

• Local transit and elderly and disadvantaged services should be coordinated with intercity bus services.

• Bus passenger terminals should be publicly controlled to ensure all carriers have access to the terminals under open access terms (e.g., Portland, Eugene, North Bend, Medford, Klamath Falls, Redmond, Pendleton).

Minimum Levels of Rail Passenger Services

The Oregon Rail Passenger Policy and Plan will identify a set of staged improvements for rail passenger service in the Willamette Valley and will identify potential future opportunities for rail passenger development in other parts of the state.

• Intercity rail service through Oregon should be provided with an on-time reliability which allows connections to be made by Oregon boarding and embarking passengers with less than 30 minutes of delay time at every station.

• Rail passenger services from Eugene to Portland should be provided consistent with the results of the Oregon Rail Passenger Policy and Plan.

• Advanced intercity passenger services should be developed within Oregon after technologies and cost requirements have been demonstrated and if favorable levels of federal or other outside financial support are provided for Oregon services.

• Local transit services should be coordinated with intercity rail services to provide for timely and convenient connections (e.g., Portland, Salem, Corvallis/Albany, Eugene, North Bend, Medford, Bend, Klamath Falls).

Intercity Air Passenger and Freight Service Minimum Levels of Services

The minimum levels of service for commercial airports have been defined as
the availability of an airport with commercial service where the population is greater than 50,000 and the distance to the nearest other commercial air service is greater than 70 miles. This standard has generally been met within the state, but leaves some more sparsely populated areas without commercial air service. These areas should have access to air taxi services.

- Air service connections between Portland, or other West Coast hubs, and other areas of Oregon should be provided whenever commercially viable (three round trip planes per day of 19 passengers as a minimum measure of commercial viability) or whenever intercity air connections are more economic than providing operating assistance to other modes (e.g., Astoria, Eugene, Newport, North Bend, Roseburg, Redmond, Medford, Klamath Falls, Pendleton).

- Basic commercial air service should be available to isolated urban areas. These areas are isolated because of topographic constraints, severe weather conditions, and distance from Portland. The areas which must have an airport service are areas with a population of more than 25,000, a central urban area of more than 15,000, and a location more than 50 miles from other commercial air services and more than 100 miles from a metropolitan area (e.g., La Grande/Baker City).

**Statewide Freight Service**

**Freight intermodal and port minimum levels of services**

- Connections to major port facilities should be available under open access terms to all major railroads and trucking lines in the nearby vicinity of maritime port terminals (e.g., Astoria, Portland, Coos Bay).

- Major intermodal hub facilities serve as transfer points from or to truck, air, rail, and marine transportation and should be identified and supported as a method for improving Oregon's access to national and international markets. Connections to major intermodal facilities should be available under open access terms. The service area for an intermodal hub is approximately 150 miles (e.g., Portland, Eugene, Klamath Falls, Umatilla).

- Ports and port systems handling substantial quantities of international and national freight (more than 3,000,000 tons) should have multimodal connections, be able to operate in the international marketplace and have access to rail freight service (e.g., the lower Columbia River, Coos Bay).
Highway Freight Minimum Levels of Services

Highway levels of service standards are defined in the Oregon Highway Plan for peak hours. In addition to peak hour level of service, standards are proposed to allow the movement of traffic on highways of statewide function.

- Highway freight accessing intermodal terminals or moving within Oregon should experience level of service C or better on Oregon highways during off-peak periods (e.g., Portland, Eugene, Klamath Falls, Umatilla).

- Highways which have a high percentage of trucks, provide regional freight access, and handle long-distance traffic to out-of-state destinations should be designated as primary freight corridors and incorporated into corridor plans and projects (e.g., Hwy. 97 Madras to Biggs, Hwy. 20 Bend to Ontario).

Rail freight minimum levels of service

- Branch rail lines within Oregon should be maintained to allow a minimum speed of operation of 25 miles per hour whenever upgrading can be achieved with a favorable benefit-cost ratio.

- Rail main lines within Oregon should provide convenient ramp, terminal and reload facilities for transfers from truck to rail for long haul movement of freight. High quality highway access should be provided to these sites (main lines, Oregon Trunk, Siskiyou branch).

- Priority rights of way should be preserved for potential public use or ownership when abandonment proceedings are initiated (e.g., corridors where there are future alternative uses, especially the Willamette Valley).

- Reload facilities should be encouraged and, if warranted, supported where they provide the most cost efficient and environmentally effective response to branchline abandonment.

- Open access should be provided to and from all reload facilities and to major ports (lower Columbia River, Coos Bay, Portland, Eugene, Klamath Falls, Umatilla).

Pipeline/natural gas minimum levels of service

- In order to make alternative fuel widely available to the transportation user and to support regional economic development opportunities, natural gas should be available every 100 to 150 miles on major
interstate/statewide transportation corridors throughout the state (e.g., Tillamook, Coos Bay/North Bend).

**Interstate and Statewide Highways**

- Minimum levels of service and minimum tolerable conditions for state highways are included in the Oregon Highway Plan.

- Intelligent Vehicle Highway Systems (IVHS) should be established on I-5, I-84 and within metropolitan areas to increase system capacity, improve motorist information and improve travel efficiency on interstate, statewide, regional and local highways.

- Highway system management techniques such as access management, transportation demand management (TDM) and congestion pricing shall have a substantial role in enabling the metropolitan areas to meet the LCDC Goal 12 Transportation Rule for reduction of per capita vehicle miles of travel.

**Regional/Local Transit Service**

**Urban transit system minimum levels of service for metropolitan planning organization (MPO) areas of over one million population (Portland)**

- Urban transit services should be increased to assure that transit has a substantial role in enabling the metropolitan areas to meet LCDC Goal 12 Transportation Rule requirements for reduction of per capita vehicle miles of travel.

- Urban transit services should be provided in all parts of the urbanized area.

- High capacity transit services with separate rights-of-way or priority treatments for transit vehicles should be provided in all interstate corridors and other highway corridors of statewide function in which level of service E or worse is experienced or anticipated.

- Service frequencies for all routes should be no less frequent than one half hour at peak periods.

- Service should be provided at no less than one hour frequencies for off-peak services on all routes, or a guaranteed ride home program should be available and publicized.

- Park and Ride facilities along major rail or busway corridors shall be provided to meet 100 percent of peak and off-peak demand for such facilities.
• Urban transit services should provide convenient connections to all intercity passenger modes and terminals.

• Service levels provided to transit-oriented developments should be sufficient to achieve the transit-related usage goals of the development.

• Urban areas of 2,500 population or more within 20 miles of the metropolitan central city should have at least peak hour transit service to the metropolitan area (e.g., Newberg, Scappoose).

Urban transit minimum levels of service in MPO areas of less than one million population (Salem, Corvallis/Albany, Eugene, Medford)

• Urban transit services should be increased to assure that transit has a substantial role in enabling the metropolitan areas to meet LCDC Goal 12 Transportation Rule requirements for reduction of per capita vehicle miles of travel.

• Urban transit services should be provided in all parts of the urbanized area.

• High quality transit services should be provided in all interstate corridors and other highway corridors of statewide function in which level of service E or worse is experienced or anticipated.

• Service frequencies for all routes should be no less frequent than one-half hour at peak periods.

• Service should be provided for off-peak mid-day services on all routes, or a guaranteed ride home program should be available and publicized.

• Park and Ride facilities along major rail or busway corridors should be provided to meet 100 percent of peak and off-peak demand for such facilities.

• Urban transit services should provide convenient connections to all intercity passenger modes and terminals.

• Urban areas of 2,500 population or more within 20 miles of the metropolitan central city should have at least peak hour transit service to the metropolitan area (e.g., Cottage Grove, Lebanon, Mt. Angel, Silverton, Dallas, Monmouth, Stayton).

Urban transit minimum levels of services for urban areas of over 25,000 persons (e.g., McMinnville, Coos Bay/North Bend, Grants Pass, Bend, Klamath Falls)
• Urban transit services should be available to the general public to provide a modal alternative to automobile travel.

Regional and Local Highways and Streets

Minimum levels of service and minimum tolerable conditions for local city and county roads are included in the Oregon Roads Finance Study. The minimum levels of service and minimum tolerable conditions vary based upon functional class, terrain, and traffic volume.
OTHER MAJOR PROJECTS AND PROGRAMS

Projects Included in the Plan

There are three additional improvements that would be necessary to achieve the plan which go beyond the minimum levels listed above. (See Maps 3 and 4.)

1. Deepening the Columbia and Coos Bay channels

These projects will be necessary to preserve the competitiveness of Oregon ports for international transportation. The Corps of Engineers is undertaking a feasibility study to deepen the Columbia channel to 43 feet and has completed a feasibility study to deepen the Coos Bay channel to 36 feet.

2. Implementation of Intelligent Vehicle Highway Systems (IVHS)

IVHS systems allow vehicles to exchange information about the road system and have the potential to greatly enhance the efficiency and safety of highways by giving drivers information necessary to select routes. They control vehicle operations in such a way as to maximize use of facilities while minimizing congestion. This capability will be particularly valuable on the interstate highways and in metropolitan areas. In metropolitan areas IVHS will also be critical to implementation of management and pricing strategies discussed below. IVHS is now in its infancy in terms of application, but should be implemented during the next 20 years.

3. Expanded urban transit in metropolitan areas

The level of service prescribed for metropolitan areas in the minimum levels of service was that required to meet the accessibility and balance goals in the Policy Element for individual travelers. However, this level will not be sufficient to reduce the per capita VMT necessary to meet the LCDC Transportation Goal. This plan also envisions additional investments to meet that goal.

Additional Improvements

In addition to the improvements included the plan, there are five improvements still being considered which are either not developed completely enough to include in the plan or are too far in the future. (See Map 5.) These include:
1. **High speed rail**

The Oregon Rail Passenger Policy and Plan is considering the potential for high-speed rail service in the Willamette Valley. The establishment of this service will depend on the potential for adequate ridership levels and ties north to Seattle and possibly to Vancouver, B.C.

2. **Willamette Valley interurban rail service**

A Valley interurban rail service is being investigated as a way of serving travel needs on the west side of the Willamette Valley. With adequate ridership, such service could support community development and possibly reduce needs for highway improvement in the Valley.

3. **Klamath Falls intermodal freight airport hub**

The Klamath Falls area has an opportunity for an intermodal freight airport. As the market develops, this facility could become a reality.

4. **New international airport in the Willamette Valley**

Beyond 2012, a new international airport in the Willamette Valley could be needed if Portland International Airport reaches capacity. A new airport would enable Oregon to have an international hub that would provide major economic development opportunities, especially if other international airports in the Pacific Northwest also reach capacity. Oregon's land use system could be a major advantage in locating and preserving such a facility.

5. **Grants Pass/Medford and Gold Beach tourism highway**

A tourism highway between Grants Pass/Medford and Gold Beach is worthy of discussion since Grants Pass/Medford is the only metropolitan area of this state which does not have direct access to a major coastal recreation area. But the development of such a highway would have to consider environmental issues.
SYSTEM MANAGEMENT AND PRICING

One of the basic concepts in the OTP is that managing the transportation system may be just as important as constructing and operating it. For example, demand management in the form of metered freeway ramps has already improved operation of freeways in the Portland metropolitan area.

The Preferred Plan creates incentives to choose the more efficient and environmentally responsible modes of transportation by using fees and managing the transportation system to encourage these choices. A rational pricing strategy for transportation services, including use of the highway system, would be developed to encourage patterns of travel and land use which are consistent with livability goals.

In the short term, a rational pricing strategy may involve incremental increases to Oregon's current highway and other user fees such as ramp metering, parking fees and charges for environmental costs such as vehicle emissions. Such a strategy should lead to higher fees for use of more congested highways and other facilities, particularly during peak periods—an approach known as congestion pricing. To have the desired effect of reducing travel, the user should directly feel these fees and pay out-of-pocket as much as possible. Revenues from such a pricing program should be applied to infrastructure preservation and alternative transportation improvements which foster economic growth and are consistent with the livability goals.

User fees are useful in managing the transportation system and are essential to the achievement of the LCDC Transportation Rule. That rule calls for a 20 percent per capita reduction in VMT in metropolitan areas over the next 30 years. Studies of transportation demand indicate that this cannot be achieved with public transportation and land use changes alone, but must be accompanied by some combination of peak period tolls on roads and parking charges.

To be effective in reducing VMT, the level of fees would have to be substantial. Estimates place the level of fees at $1,250 in new fees per vehicle annually or $.15 per mile in metro areas. Half of the increase could come from mileage congestion fees, and the remainder from employee parking and non-work parking charges. These fees could be phased in during the 20-year planning periods.
LAND USE COORDINATION

Full implementation of this plan requires close coordination between land use policy and transportation. The plan makes three fundamental assumptions with respect to land use policy. First, urban growth boundaries will be maintained in substantially their present positions for the next 20 years. If boundaries do not hold, then public transportation cannot be effective in serving the low density developments that will result and additional highway investments will be required to serve those living in areas that are outside existing urban growth boundaries.

Second, the plan calls for the development of mixed use, pedestrian friendly neighborhoods and commercial districts to reduce demands for automobile trips and increase the ability to provide effective transit services.

Third, the plan assumes that local land use plans can be effective in minimizing conflicts between transportation facilities and other development. Otherwise, major transportation systems, such as urban arterial highways, will not function at the projected levels of service and will require additional investment in capacity or mitigation of conflicts with residential and commercial developments.

Coordination of land use and transportation is a major goal of the LCDC Transportation Goal and will be included in the transportation planning and performance requirements being developed as a part of this plan.
CORRIDORS, FACILITIES AND SYSTEMS SERVING STATEWIDE AND INTERSTATE FUNCTIONS

The responsibility of different levels of government for transportation facilities and services within Oregon will differ by the type of function the service of facility performs. As a step toward establishing governmental responsibilities, transportation corridors, facilities, and systems must be defined according to the functions.

The transportation system of statewide function is determined by the importance of particular elements of the system in terms of

- connecting major cities or urban areas within or outside Oregon
- volumes of passengers and freight
- contribution to important environmental, land use, and development goals
- accessibility provided to regions of the state, other states, and nations

The corridors, facilities, and systems of interstate and statewide function form the backbone of Oregon's transportation system. They provide the framework for identifying state government concerns and responsibilities for the implementation of the Oregon Transportation Plan. While these transportation features are not necessarily owned and operated by the state, the state does have a special interest in their preservation because of their importance to the entire transportation system. Therefore, protection and development of these corridors, facilities and systems will be included in planning and performance criteria for state modal plans, and regional and local transportation plans.

Corridors serving statewide functions are defined as broad bands through which various modal links provide important connections for passenger or freight services. Facilities of statewide function are individual modal or multimodal terminals which, even by themselves, are of a sufficient level of importance to be of statewide function. Systems of statewide function are collections of links, services or terminals, which taken as a whole, are of statewide function even though individual corridors, facilities or services which make up the systems are not a statewide function.

Multimodal Corridors

The multimodal corridors of statewide function, which currently move people and goods by several modes, include the Columbia River corridor including I-84, the north-south I-5 corridor through the Willamette Valley, the north-south route east of the Cascades, and Access Oregon Highway corridors. Although some of these corridors are served only by highways today, they should be
analyzed as multimodal corridors in further planning and project development.

**Highway Corridors and Systems**

Highways connect Oregon with other states and places within the state. They provide for the movement of people and goods around the state. Highways of interstate and statewide levels of importance were identified in the 1991 Oregon Highway Plan. The highways identified as the interstate system, Access Oregon Highways, and statewide highways in the Highway Plan are considered of statewide function. However, the federal Intermodal Surface Transportation Efficiency Act requires reevaluation of these highway classifications.

Other state highways not classified as a statewide function are of importance to the state in terms of their conditions, levels of service, and access management. The Oregon Transportation Plan incorporates the minimum levels of service, minimum tolerable conditions, and access management policies presented in the Oregon Highway Plan.

The level of service and condition of major county and city street systems, including arterial and collector systems taken as a whole are of statewide function.

**Urban and Intercity Passenger Corridors and Systems**

Each of the metropolitan transit district systems, transit systems serving communities over 25,000 population, connecting providers, and paratransit services, taken as a whole, are of statewide significance.

The Amtrak services through Oregon are a statewide function. Future intercity rail service in Oregon will be a statewide function.

Each of Oregon's commercial air carrier service airports is a statewide function. Although the individual general aviation airports are not of statewide function, the performance of, and condition of, the system of general aviation airports in the state as a whole is a statewide function.

All intercity bus lines connecting places of 25,000 or more are a statewide function, and the system taken as a whole is a statewide function. In addition, intercity bus lines connecting places of 2,500 or more, which are 20 miles or more from intercity passenger services, are also a statewide function. The system of intercity services, including specialized van services for the elderly and disadvantaged as a whole is a statewide function.
Intercity passenger terminals serving as major connecting points for an individual mode or for intermodal connections taken as a whole are a statewide function.

The statewide bicycle route system is, as a whole, a statewide function.

**Freight Systems and Services**

Highways play a critical role for intermodal transfers, long distance, regional and local freight distribution. The highways classified as interstate and statewide levels of service in the 1991 Oregon Highway Plan are considered a statewide function.

Waterways are also important carriers of interstate and international freight. The lower Columbia River ports, the Columbia/Snake River system, and the Oregon International Port of Coos Bay are considered a statewide function. The intermodal connections to those ports, including connections between ocean going vessels, barges, railroads, and trucks are a statewide function. Other marine ports which provide statewide, interstate, or international transportation services are considered as a whole to be a statewide function.

Approximately four locations around Oregon should be selected to act as major intermodal transfer locations. These major non-marine intermodal transfer facilities are a statewide function.

The mainline rail lines through Oregon (the Burlington Northern, Southern Pacific, and Union Pacific), connecting lines (Oregon Trunk and Siskiyou branch), and rail access to statewide function marine facilities (lower Columbia River and Coos Bay) are each a statewide function. Although individual rail branch lines are not a statewide function, the services provided by branch lines as a whole are a statewide function; the state has an interest in assuring the connections served by rail branchlines continue to be served without adverse environmental consequences.

The major oil and natural gas pipelines traversing Oregon are a statewide function.

**Regional and Local Corridors and Facilities**

Corridors, facilities and systems which are not of statewide or interstate function are primarily the concern and responsibility of regional and local governments and are highly important to the achievement of regional and local transportation objectives. Therefore, the state of Oregon is also interested in the achievement of performance objectives for transportation facilities and services of regional and local function.
TRANSPORTATION PLANNING AND PERFORMANCE REQUIREMENTS

The planning and performance requirements provide a structure for further transportation planning and programming for state, regional and local agencies. They are a combination of requirements established in the

- LCDC Goal 12 Transportation Planning Rule
- Oregon Benchmarks
- federal Intermodal Surface Transportation Efficiency Act (ISTEA)
- Oregon Transportation Plan (OTP)
  - goals, policies and actions
  - minimum levels of service

The State's Responsibilities

To carry out the Policy and System Elements, ODOT will develop modal and intermodal plans and support statewide minimum levels of service. The planning process will include identifying opportunities to use alternative modes and evaluating tradeoffs between particular modes and other modes and transportation system management.

Preparation of a transportation system plan for the Willamette Valley in cooperation with local governments is currently under discussion. A permanent coordinating committee may be required to implement a Willamette Valley plan.

The state will take a more active role regarding facilities and systems that have statewide and interstate functions such as intercity passenger services, intermodal freight hubs, and intraurban highways.

Regional and Local Responsibilities

Regional and local governments are responsible for being consistent with the adopted parts of the Oregon Transportation Plan, for protecting statewide corridors and facilities, for implementing minimum levels of service, and for meeting other performance and planning criteria.

The Transportation Rule requires regional and local government transportation systems to be consistent with adopted elements of the state transportation system plan. For example, regional and local governments must carry out Oregon Transportation Plan policies such as
• Provide a transportation system that is accessible to all potential users;
• Provide a transportation system with connections between modes;
• Develop transportation system plans sufficient to accommodate planned development;
• Develop a system that is environmentally responsible;
• Promote transportation safety.

Requirements for planning and supporting minimum levels of service are being developed separately from this document. Proposed requirements would vary with the population level of the jurisdiction. Smaller jurisdictions would have fewer requirements than those with larger populations.

Jurisdictions under 2,500 in population would, for example, have to coordinate public bus services with transportation for the elderly and disadvantaged. In addition, jurisdictions with urban areas between 2,500 and 25,000 population would have to reduce conflicts at busy railroad crossings and rail yard areas. Jurisdictions with urban areas over 25,000 in population would have such additional requirements as

• Making urban transit services available to the general public;
• Identifying and supporting intermodal hub facilities and terminals so that goods and people can move easily from one mode or carrier to another.

Jurisdictions within metropolitan planning organizations (MPOs) would also be expected to have high quality urban transit services and park and ride facilities and develop congestion pricing programs. The MPOs (Portland, Salem, Eugene and Medford) must meet ISTEA planning requirements in addition to the more specific state requirements. When the MPOs meet the state criteria, the state will adopt the MPO plan and improvement strategy. To measure progress toward meeting state planning objectives, the state would require the MPOs to provide performance audits.

While this Multimodal System Element is being reviewed at public meetings, a discussion paper listing these and other planning requirements will be reviewed with state, regional and local agencies and the public. For a copy of "Discussion Paper: Transportation Planning and Performance Requirements," write Dave Bishop or Carolyn Gassaway, ODOT Strategic Planning, Room 405, Transportation Building, Salem, OR 97310 or phone 373-7571.
INVESTMENT REQUIREMENTS

According to preliminary needs estimates, implementation of the Preferred Plan will require an additional $9.6 billion in funding of state and local transportation over the next 20 years.

Table 5 compares continuation of existing program levels with the Preferred Plan and presents the estimated additional dollars necessary to implement the plan. Almost 77 percent of the total dollars in the Preferred Plan are for roads, streets, and highways. Much of this amount is to maintain the existing infrastructure. However, less than 58 percent of the additional dollars will go for roads, streets, and highways because there will be major new investments in railroads (passenger and freight), marine ports, aviation, intercity bus and, especially, transit. This will be a major change in state direction and responsibility for the development and funding of the Oregon transportation system.

These estimates are based on preliminary funding assumptions which were made in order to describe, develop, and evaluate the alternative plans. Major improvements in these estimates will be possible as the results of the Oregon Roads Finance Study, Oregon Rail Passenger Policy and Plan, and transit needs studies become available.
## TABLE 5
### COMPARISON OF PLAN ALTERNATIVES
(MILLIONS OF 1991 DOLLARS)

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Continuation Program Levels</th>
<th>Preferred Plan</th>
<th>Additional Cost to Implement Preferred Plan</th>
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<tbody>
<tr>
<td></td>
<td>20 Year</td>
<td>20 Year</td>
<td>Annual</td>
</tr>
<tr>
<td>Highways*</td>
<td>$20,300</td>
<td>$25,880</td>
<td>$5,580</td>
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<tr>
<td></td>
<td>N/A</td>
<td>400</td>
<td>400</td>
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<tr>
<td>Railroad**</td>
<td>N/A</td>
<td>220</td>
<td>220</td>
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<tr>
<td>Capital</td>
<td>N/A</td>
<td>720</td>
<td>720</td>
</tr>
<tr>
<td>Operating</td>
<td>N/A</td>
<td>720</td>
<td>720</td>
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<tr>
<td>Ports (Capital)***</td>
<td>N/A</td>
<td>720</td>
<td>720</td>
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<tr>
<td>Aviation</td>
<td>N/A</td>
<td>83</td>
<td>83</td>
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<tr>
<td>Intercity Bus (Operating)</td>
<td>0</td>
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<td>120</td>
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<tr>
<td>Transit****</td>
<td>2,516</td>
<td>3,828</td>
<td>1,312</td>
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<tr>
<td>Capital</td>
<td>1,200</td>
<td>2,400</td>
<td>1,200</td>
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<tr>
<td>Pipelines</td>
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</tr>
<tr>
<td>TOTAL</td>
<td>N/A</td>
<td>$33,651</td>
<td>$9,635</td>
</tr>
</tbody>
</table>

Note: Federal revenues will be major portion of most modes' funds.
N/A = Not available or minimal amount.

* Highway needs will be refined by Roads Finance Study.
** Railroad needs are from preliminary results of the Oregon Rail Passenger Policy and Plan and rail freight needs estimates in 1993-8 Preliminary T.I.P.
*** Extrapolation of estimates in 1989 report "Adopting Oregon's Ports to the Future."
**** Transit needs include "Tri-Met Strategic Plan and extrapolation of estimates from 1993-98 Transportation Improvement Program."
OREGON TRANSPORTATION PLAN
STEERING COMMITTEE MEMBERS

CHAIR: Mike Hollern, Chairman
Oregon Transportation Commission

John Whitty, Vice Chairman
Oregon Transportation Commission

Roger Breezley, Member
Oregon Transportation Commission

Cynthia Ford, Member
Oregon Transportation Commission

David Bolender, Member
Oregon Transportation Commission

Martha Pagel
Senior Policy Advisor
Governor's Office

Senator Joan Dukes
Region 1, Astoria

Senator Paul Phillips
District 4, Tigard

Senator Bill McCoy
District 8, Portland

Representative Cedric Hayden
District 38, Fall Creek

Representative Carl Hosticka
District 40, Eugene

Representative Ray Baum
District 58, La Grande

Charles Vars
Mayor, City of Corvallis

Tom Walsh
General Manager
Tri-Met

Kevin Campbell, Judge
Grant County

Consultants:
Arlee Reno
Cambridge Systematics, Inc.

Sorin Garber
David Evans & Associates

Wilbur Smith Associates
Barney and Worth
Joseph R. Stowers

Staff:
Mark Ford
Dave Bishop
Paul Norris
Carolyn Gassaway
Demographic and economic changes among counties occur at different rates and are of differing absolute magnitudes. The table presents county projections of population and employment from 1990 to 2012. It depicts the wide diversity among counties with regard to the various rates of socioeconomic change. County population projections in 2012 range from a high of 711,385 for Multnomah County to a low of 1,638 for Gilliam County. Employment levels range from a high of 485,842 for Multnomah County to a low of 383 for Wheeler County.

### Alphabetical County Population and Employment (1990-2012)

<table>
<thead>
<tr>
<th>COUNTY</th>
<th>1990</th>
<th>2000</th>
<th>2012</th>
<th>% Change</th>
<th>2000</th>
<th>2012</th>
<th>% Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baker</td>
<td>15,300</td>
<td>16,132</td>
<td>16,953</td>
<td>10.8%</td>
<td>4,691</td>
<td>5,387</td>
<td>6,010</td>
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<tr>
<td>Benton</td>
<td>71,200</td>
<td>79,269</td>
<td>88,286</td>
<td>24.0%</td>
<td>31,316</td>
<td>37,977</td>
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<tr>
<td>Clackamas</td>
<td>279,500</td>
<td>340,181</td>
<td>410,702</td>
<td>46.9%</td>
<td>87,680</td>
<td>107,073</td>
<td>132,025</td>
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<tr>
<td>Clatsop</td>
<td>33,500</td>
<td>36,090</td>
<td>38,349</td>
<td>14.5%</td>
<td>14,726</td>
<td>17,280</td>
<td>19,493</td>
</tr>
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<td>Columbia</td>
<td>37,700</td>
<td>42,628</td>
<td>48,147</td>
<td>27.7%</td>
<td>9,554</td>
<td>11,768</td>
<td>14,110</td>
</tr>
<tr>
<td>Coos</td>
<td>60,100</td>
<td>57,971</td>
<td>56,674</td>
<td>-5.7%</td>
<td>22,037</td>
<td>23,154</td>
<td>24,030</td>
</tr>
<tr>
<td>Crook</td>
<td>14,100</td>
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**State**

2,846,316 3,226,691 3,652,546 28.3% 1,248,100 1,493,015 1,773,782 42.1%
## APPENDIX B

### OPERATING AND TIME COSTS OF ALTERNATIVE APPROACHES

(BILLIONS OF DOLLARS)

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<th>Criteria</th>
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<td>Highway Costs</td>
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<td>Out-of-Pocket</td>
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*Compared to Funding Decline
Numbers may not add up due to rounding.
MAP 3
OREGON TRANSPORTATION SYSTEM
PREFERRED TRANSPORTATION SYSTEM
BY THE YEAR 2012
(ALTERNATIVE 3)

Gold
Brooking?

Red Indicates changes in system.

MAJOR TRANSPORTATION FACILITIES

HIGHWAY INTERSTATE / STATEWIDE
New Statewide
Scenic Byway
Highway Freight Corridor
WES Highways

TRANSIT SERVICE (+ 25,000 population)
Willamette Valley Transit, Coast Area
Hourly Intercity Service
Commuter Transit Service
Intercity Bus
Intercity Passenger Terminal

MAJOR RAIL LINES
Amtrak Route
INTERMODAL - Freight
Rail - Port Access

DEEP DRAFT WATERWAY
Ocean Port
Island Waterway
Port Facility
Channel Improvements

AIR CARRIER SERVICE

NATURAL GAS PIPELINE

METROPOLITAN AREA

Yellow on map:
ENERGY RESOURCE SYSTEM
TELECOMMUNICATION IMPROVEMENTS
Map 4
Willamette Valley Detail
Preferred Transportation Plan
(Alternative 3)

(Map 4 unavailable at this time)
CALENDAR OF EVENTS
OREGON TRANSPORTATION PLAN (OTP)

Principles: The OTP System Element is to be completed before a specific legislative financial proposal is approved and released

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<th>SYSTEM ELEMENT</th>
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<td>• Define System of Statewide Significance</td>
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<td>• Urban Mobility Committee Final Policy Recommendations</td>
<td>• Define Minimum Levels of Service</td>
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<td>March</td>
<td>• Rural Freight, Safety Committees Final Policy Recommendations</td>
<td>• Evaluate System Alternative</td>
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<tr>
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<td>• OTC Review of Policy Policy Committees Final Recommendations</td>
<td>• Receive Draft Report</td>
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<td>• Revise Policy Draft</td>
<td>• Approve Report for Public Review</td>
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<td>May</td>
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<td>• Begin Statewide Public Review Meetings on System Element</td>
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<td>June</td>
<td>• June: Adopt OTC Comments</td>
<td>• Complete Statewide Public Review Meetings</td>
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<td>• Revise Policy Element</td>
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<td>July</td>
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<td>• Evaluate Public Comments</td>
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<td>• OTC Adoption of Plan</td>
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<td>• Sept. 18 - Transportation Symposium</td>
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<td>- Discussion of Financing Issues</td>
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<td>October</td>
<td>Continue Development of Finance Package</td>
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<td>November</td>
<td>OTC Adoption of Legislative Package</td>
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Strategic Planning Section (Revised February 15, 1992)
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<td>Earl Blumenauer</td>
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<td>Las White</td>
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<td>Steve Greenwood</td>
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<td>Don Forbes</td>
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