Attachment 1: Base Information and Data Needs for Evaluation (Criteria		
E	valuation Criteria		Base Info
Objectives	Measure	Project Level - Helps to determine if a project implements the goal	Base Information for Assessm
Goal 1: Sustainable - Provide a transportation system that ba	alances benefits to the environment, the ec	onomy and the community.	•
<i>Objective 1.1: Reduce energy consumption associated with transportation:</i>		1	1
	Bike and Pedestrian Facility Inventory	Project increases miles of bicycle and pedestrian, facilities such as sidewalks, bicycle lanes, multiuse paths, and sufficiently wide shoulders (i.e., four feet in width or greater). (Y/N)	Existing and Future Conditions Repor (Pedestrian Network) and 19 (Bicycle files of the inventory
1.1.1 Identify, maintain, and improve networks of facilities for motorized and non-motorized travel.	Pedestrian and Bike Facility Gap Inventory	Project completes an existing gap in the bicycle and/or pedestrian facilities network. (Y/N)	Existing and Future Conditions Repor (Pedestrian Network) and 19 (Bicycle files of the inventory
	Multimodal Level of Service Analysis (MMLOS) for pedestrians and bicyclists at selected intersections	Project improves quality of service experienced by pedestrian or bicyclist as measured by HCM 2010 MMLOS methodology. Y/N	Project Description - is it a new ped/l increase the buffer from vehicle traff opportunties, or reduce the volume o
	Transit service coverage	Project increases or supports the increase of transit service coverage (Y/N)	Existing and Future Conditions Repor (Existing Transit Supportive Areas) ar Supportive Areas) and related GIS file population and employment densitie
	Transit stops with access to pedestrian facilities	Project provides pedestrian improvements within 1/2 mile of a bus stop	Existing and Future Conditions Repor (Pedestrian Network) and 20 (Existin GIS files of stop locations and sidwall
1.1.2 Invest in and encourage public transit and connections to public transit.	Transit stops with access to bicycle facilities	Project provides access to transit stop via bicycle faculties	Existing and Future Conditions Repor (Bicycle Network) and 20 (Existing Tra files of stop locations and bikeway lo
	Transit service frequency	Increases frequency (i.e., decreases headways)	Existing and Future Conditions Repor Frequency Level-of-Service Analysis (
	Transit service hours.	Increases transit service hours	Existing and Future Conditions Repor Sercie Level-of-Service Anlaysis (i.e. 1
	Transit infrastructure (e.g., improvements to transit stop and/or Park 'n Ride amenities)	Increase or improve existing transit infrastructure	Existing and Future Conditions Repor (Transit Service - including stop locat project description

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ormation and Da	la neeus
ent	Additional Data Needed
rt, Sections 4-8, Figures 18 e Network) and related GIS	
rt, Sections 4-8, Figures 18 e Network) and related GIS	
bike facility, widen a facility, fic, enhance roadway crossing or speed of adjacent traffic?	
rt, Sections 4-8, Figures 21 nd 22 (Future Transit es on transit service areas and es	
rt, Sections 4-8, Figures 18 g Transit Service) and related k locations	
rt, Sections 4-8, Figures 19 ansit Service) and related GIS ocations	
rt, Sections 4-8, Service (i.e. Table 6)	
rt, Sections 4-8, Hours of Table 7)	
rt, Sections 4-8, Figure 20 ions) and the proposed	

Evaluation Criteria			Base Info
Objectives	Measure	Project Level - Helps to determine if a project implements the goal	Base Information for Assessm
	Multimodal Level of Service (MMLOS) for transit riders	Project or program improves quality of service experienced by transit riders as measured by HCM 2010 MMLOS methodology. Y/N	Existing and Future Conditions Report (Pedestrian Network), Service Freque (i.e. Table 6), Hours of Service Level- and Project Description - Is it enhanc pedestrian connectivity to the stop?
1.1.3 Explore and encourage rideshare, car-sharing, transit pass programs, telecommuting, and other transportation	Alternative Transportation Programs Participation		Program Descrption - is the proposed participation in non-SOV travel?
demand management strategies.	Vehicle Miles Traveled Per Capita		Existing and Future Conditions Report
1.1.4 Encourage the use of alternative-fuel vehicles and more	Identify Existing Alternative Energy and/or Fuel Efficient Programs/Actitivies and Number of New Programs/Actions		Program Description - is the propose use of alternative energy or furel eff
efficient fuel vehicles.	Alternative Transportation Programs Participation		
<i>Objective 1.2: Improve air quality by reducing transportation related emissions including reducing greenhouse gas emissions to target levels.</i>	Vehicle Miles Traveled	Project, program, policy helps reduce County- wide VMT. (Y/N)	Existing and Future Conditions Report
	Transportation Emissions in Tons (CO2, CO, NOx, VOC, PM2.5, other air toxins)	Project, program, policy helps reduce vehicle emissions. (Y/N)	Existing and Future Conditions Report
	Use of Best Management Practices	Use of best management practices including during construction phases	Policy Driven
<i>Objective 1.3: Minimize water quality impacts of transportation-related activities.</i>	Sensitive Habitat (acres impacted)	Decreasing/minimizing number of acres of sensitive water habitats impacted by a project, program or policy.	Conservation Areas, Map III, Comp Plan
	Green Street Design Elements	Green street treatments in projects, programs or policies.	Policy Driven
<i>Objective 1.4: Promote a resilient transportation system that can adapt to evolving land use and fit the desired future, while meeting present needs.</i>	Travel Network Connectivity Analysis	Degree to which project, program, policy increases connectivity of vehicle, pedestrian and bicycle network.	Existing and Future Conditions Report, 5 (Functional Classification), 18 (Pedestria Network)
	Land Use and Transportation Integration	Degree to which project, program, policy increases integration of land use and transportation planning	Existing and Future Conditions Report, S Transit Service)
<i>Objective 1.5: Stabilize existing sources of transportation revenue and identify stable, diverse, long-term sources of funding. (Same as Objective 6.3)</i>	See Objective 6.3		
<i>Objective 1.6: Support motorized and non-motorized transportation projects that use public resources cost effectively. (Same as Objective 6.2)</i>	See Objective 6.2		
<i>Objective 1.7: Prioritize repairs and maintenance of existing transportation facilities and services. (Same as Objective 6.1)</i>	See Objective 6.1		

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ent	Additional Data Needed		
rt, Sections 4-8, Figure 18 ency Level-of-Service Analysis of-Serice Anlysis (i.e. Table 7) ing the stop amenities or			
d program likely to increase	Current program information and participation data		
t, Section 2, Table I4			
d program likely to increase cient vehicles?	Records of programs related to alternative-fuel vehicles		
	Records of Alternative Transportation Program Participation		
t, Section 2, Table I4			
rt, Section 2, Table I4			
	Best Management Practices (BMPs)		
	Green Street Treatments (i.e. BMPs)		
Sections 4-8, Figures 10 n Network), and 19 (Bicycle			
Sections 4-8, Figure 20 (Existing			

Evaluation Criteria			Base Info	
Objectives	Measure	Project Level - Helps to determine if a project implements the goal	Base Information for Assessme	
Goal 2: Local Businesses and Jobs Plan the transportation system to support a prosperous and a	adaptable economy and further the econom	ic well-being of businesses and residents of the	county	
<i>Objective 2.1: Prioritize transportation improvement projects within and providing access to existing and future employment centers.</i>	Employment Area Accessibility.	Project increases miles of roads, bicycle facilities, pedestrian facilities and transit service route miles within and providing access to urban or rural employment area	Existing and Future Conditions Report, S and Zoning), 18 (Pedestrian Network), 19 (Existing Transit Service)	
	Average Travel Time in Identified Corridors	Project reduces average travel time	Existing and Future Conditions Report Project Description - is the project like increase vehicle capacity?	
<i>Objective 2.2: Promote efficient movement of people, materials and goods.</i>	Travel Time Reliability	Project improves travel time reliability	Existing and Future Conditions Report Project Description - is the project like of a corridor (i.e. through ITS, advanc incident management, etc.)?	
	Multimodal Level of Service for Vehicles at Selected Intersections	Peak hour LOS for auto, ped, bike, or transit improved on a corridor or intersection based on HCM 2010 MMLOS	Existing and Future Conditions Interse and associated Synchro Models	
	Volume-to-Capacity Ratios at Selected Intersections	Peak hour volume-to-capacity (V/C) ratios at selected intersections. Calculated using existing and forecasted auto volumes and intersection vehicular capacity.	Existing and Future Conditions Interse and associated Synchro Models	
<i>Objective 2.3: Identify, maintain, and improve networks of facilities for motorized and non-motorized travel.</i>	See Objective 1.1.1	1		
<i>Objective 2.4: Invest in and encourage public transit and connections to public transit.</i>	See Objective 1.1.2			
<i>Objective 2.5: Explore and encourage carpooling, vanpooling, rideshare, transit pass programs, telecommuting, and other transportation demand management strategies. (Same as Objective 1.1.3</i>	See Objective 1.1.3			
<i>Objective 2.6: Improve freight movement.</i>	Travel Time Reliability.	Project improves travel time reliability on a freight route	Existing and Future Conditions Report Existing and Future Conditions, Count System Plan Elements, Figure W01 (F Description - is the project likely to in freight corridor (i.e. through ITS, adva improved incident management, etc.	
	Level of Service on Truck Routes at Selected Intersections	Project improves LOS for trucks on truck routes	Existing and Future Conditions, Count System Plan Elements, Figure W01 (F and Future Conditions Intersection O associated Synchro Models	

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ent	Additional Data Needed		
Sections 4-8, Figures 3 (Land Use 9 (Bicycle Network), and 20			
t, Section 2, Table I5 and ely to reduce delay or			
t, Section 2, Table I3 and ely to increase the reliability ced signal systems, improved			
ection Operations Analysis			
ection Operations Analysis			
t, Section 2, Table 13 and ty-Wide Transportation reigh Routes)and Project acrease the reliability of a anced signal systems, .)?			
ty-Wide Transportation reight Routes) and Existing operations Analysis and			

Evaluation Criteria			Base Information and Data Needs	
Objectives	Measure	Project Level - Helps to determine if a project implements the goal	Base Information for Assessment	Additional Data Needed
Goal 3: Livable and Local Tailor transportation solutions t	o suit the diversity of local communities	·		
<i>Objective 3.1: Identify, maintain, and improve networks of facilities for motorized and non-motorized travel.</i>	See Objective 1.1.1			
Objective 2.2. Improve Safe Doutes to School Diapping	Number of and Support for Developing Safe Routes to Schools Plans	Project, policy, program facilitate in Safe Routes to School Plans for schools within the County	Policy or Program Driven	Records of Safe Routes to School Programs
Objective 5.2: Improve Suje Routes to School Planning	Pedestrian and Bike Facility Gap Inventory	Project, policy, program help fill gaps in pedestrian and bicycle facilities on roads providing access to schools	Existing and Future Conditions Report, Sections 4-8, Figures 2 (Activity Centers), 18 (Pedestrian Network) and 19 (Bicycle Network)	
<i>Objective 3.3: Invest in and encourage public transit and connections to public transit. (Same as objective 1.1.2)</i>	See Objective 1.1.2			
<i>Objective 3.4: Explore and encourage carpooling, vanpooling, rideshare, transit pass programs, telecommuting, and other transportation demand management strategies. (Same as Objective 1.1.3)</i>	See Objective 1.1.3		-	
<i>Objective 3.5: Facilitate access to daily needs and services</i>	Transit Services, Bicycle Facilities, Pedestrian Facilities and Roads between Residential Areas and Essential Needs and Destinations	Use Opportunity Mapping produce by Housing authority to determine if project increases accessibility to daily needs and services	Existing and Future Conditions Report, Sections 4-8, Figures 18 (Pedestrian Network), 19 (Bicycle Netowork), 20 (Existing Transit Service), 22 (Future Transit Supportive Areas).	
<i>Objective 3.6: Prioritize transportation improvement projects within and providing access to existing and future employment centers (Same as Objective 2.1)</i>	See Objective 2.1			
<i>Objective 3.7: Identify and incorporate design elements that increase community livability and cohesiveness, improve civic amenities.</i>	Transportation Facility Design Elements	Degree to and consistency with which design elements are incorporated into projects, programs, policies.	Policy Driven	Clackamas County Transportation Facility Design Elements
<i>Objective 3.8: Promote a resilient transportation system that can adapt to evolving land use and fit the desired future, while meeting present needs. (Same as Objective 1.4)</i>	See Objective 1.4			
<i>Objective 3.9: Maintain existing and enhance access to recreational opportunities and public lands.</i>	Access to Open Space (URBAN: Population within 1/2 mile ; Rural: Population within 60 minutes)	Degree to which to the project provides or maintains access to open space.	Existing and Future Conditions Report, Sections 4-8, Figure3; "Open Space Network & Recreation Needs", Map IX-01, Comprehensive Plan	
<i>Objective 3.10: Prioritize resources to address transportation needs of transportation disadvantaged populations within the County. (Same as Objective 5.4)</i>	See Objective 5.4			
<i>Objective 3.11: Create project outreach activities and decision- making process that provide meaningful opportunities for all residents to influence decision-making. (Same as Objective 5.5)</i>	See Objective 5.5			

Evaluation Criteria		Base Information and Data Needs		
Objectives	Measure	Project Level - Helps to determine if a project implements the goal	Base Information for Assessment	Additional Data Needed
Goal 4: Safety and Health Promote a transportation system	that maintains and improves our safety, he	ealth and security		
<i>Objective 4.1: Reduce overall crash frequency and severity for all modes of travel. Increase safety culture through on-going</i>	Vehicle, Pedestrian and Bicycle Crash Inventory	Projects, policies, programs aimed at reducing vehicle, pedestrian and bicycle crashes	Existing and Future Conditions Report, Sections 4-8, Figures 23-32 (Crash Maps)	
	Severity of Vehicle, Bicycle and Pedestrian Crashes	Projects, policies, programs aimed at reducing the severity of vehicle, pedestrian and bicycle crashes	Existing and Future Conditions Report, Sections 4-8, Figures 23-32 (Crash Maps)	
engineering, education, enforcement and evaluation.	Enhance County Safety Culture	Increasing activities and coordinated efforts to establish and further a transportation safety culture in the County for the purpose of reducing the potential for future crashes.	Clackamas County Transportation Safety Action Plan (TSAP)	
<i>Objective 4.2: Optimize the transportation system's ability to facilitate emergency response services.</i>	Emergency Vehicle Response Time	Is the project improving, degrading, or not changing the mobility for an emergency vehicle on an emergency transportation route (ETR)?		Emergency Vehicle Designated Routes
	Space for Incident Management and Emergency Vehicles	Does a roadway have space for an impaired vehicle to pull to the side? Does an ETR have space allow emergency vehicles to pass other vehicles?		Emergency Vehicle Designated Routes
<i>Objective 4.3: Identify, maintain, and improve networks of facilities for motorized and non-motorized travel.</i>	See Objective 1.1.1			
<i>Objective 4.4: Invest in and encourage public transit and connections to public transit.</i>	See Objective 1.1.2			
<i>Objective 4.5: Improve air quality by reducing transportation-</i> <i>related emissions.</i>	See Objective 1.2			
	Bike and Pedestrian Network on Low Volume Roads	Projects, policies, programs that increase pedestrian and bicycle facilities on secondary road network	Existing and Future Conditions Report, Sections 4-8, Figures 18 (Pedestrian Network) and 19 (Bicycle Network)	
<i>Objective 4.6: Reduce exposure to transportation-related air emissions.</i>	Sensitive Populations near Major Roadways	Projects, policies, programs that decrease the number of sensitive uses close to high traffic roadways, freight routes	Existing and Future Conditions Report, Sections 4-8, Figure 9 (Transportation Disadvantaged Populations)	
	Construction Emissions	Projects, policies, programs that increase the prevalence of best management practices	Policy Driven	Best Management Practices (BMPs)
<i>Objective 4.7: Encourage the use of alternative-fuel vehicles and more efficient fuel vehicles.</i>	See Objective 1.1.4			
<i>Objective 4.8: Maintain existing and increase access to recreational opportunities and public lands.</i>	See Objective 3.9			
<i>Objective 4.9: Prioritize resources to address transportation needs of transportation disadvantaged populations within the County.</i>	See Objective 5.4			
<i>Objective 4.10: Facilitate access to daily needs and services.</i>	See Objective 3.5			

Evaluation Criteria			Base Info
Objectives	Measure	Project Level - Helps to determine if a project implements the goal	Base Information for Assessme
Goal 5: Equity Provide an equitable transportation system.	•	•	
<i>Objective 5.1: Identify, maintain, and improve networks of facilities for motorized and non-motorized travel.</i>	See Objective 1.1.1		
<i>Objective 5.2: Invest in and encourage public transit and connections to public transit.</i>	See Objective 1.1.2		
<i>Objective 5.3: Explore and encourage carpooling, vanpooling, rideshare, transit pass programs, telecommuting, and other transportation demand management strategies.</i>	See Objective 1.1.3		
<i>Objective 5.4: Prioritizing resources to address transportation needs of transportation disadvantaged populations within the County.</i>	Alternative Transportation Programs and Projects that Benefit Transportation- Disadvantaged Populations		Existing and Future Conditions Report, (Transportation Disadvantaged Popula
	Transportation-Disadvantaged Populations Served By Other Modes of Travel and Car-Sharing Programs		Existing and Future Conditions Report, (Transportation Disadvantaged Popula
<i>Objective 5.5: Create project outreach activities and decision- making process that provides meaningful opportunities for all residents to influence decision-making</i>	Public Involvement Opportunities		Policy Driven
<i>Objective 5.6: Facilitate access to daily needs and services.</i>	See Objective 3.5		
<i>Objective 5.7: Prioritize transportation improvement projects within and providing access to existing and future employment centers.</i>	See Objective 2.1		
<i>Objective 5.8: Provide opportunities for low-income, minority workers and business owners to access/obtain jobs and contracts created by transportation investments.</i>	Minority-Owned Businesses Contracting state, and local open competitive procurer	Clackamas County shall comply with federal, nent processes.	Policy Driven

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ent Additional Data Needed			
ort, Sections 4-8, Figure 9 pulations).			
ort, Sections 4-8, Figure 9 pulations).			
	Records of Public Invovlement Opportunities		
	Federal, state, and local open competitive procurement processes		

Evaluation Criteria			Base Information and Data Needs	
Objectives	Measure	Project Level - Helps to determine if a project implements the goal	Base Information for Assessment	Additional Data Needed
Goal 6: Fiscally Responsible Promote a fiscally responsible	e approach to protect and improve the exist	ing transportation system and implement a cost	t-effective system to meet shared future needs.	
<i>Objective 6.1: Prioritize repairs and maintenance of existing transportation facilities and services.</i>	Transportation Maintenance Status	Project, program, or policy helps reduce proportion of network behind on maintenance	Does the project increase the amount of roadways to be maintained? Does the project improve a roadway that is behind on maintenance?	Roadway pavement ratings/Maintenance Needs
<i>Objective 6.2: Support transportation projects that use public resources cost effectively.</i>	A project, program, or policy's cost effectiveness of achieving desired outcomes	Project cost and complexity is commensurate with benefits (as compared to other projects in plan - used for project prioritization)		Project Cost Estimates
<i>Objective 6.3: Stabilize existing sources of transportation revenue and identify stable, diverse, long-term sources of funding.</i>	Estimated Transportation Funding	Project, program, policy helps increase future funding sources.	Funding Memo will evaluate further	
	Assumed Transportation Budget Allocations	Project, program, policy helps secure and/or increase current funding sources	Funding Memo will evaluate further	
<i>Objective 6.4: Identify and protect right-of-way for future transportation facilities and services.</i>	Public Right of Way Inventory / Needs		Policy Driven - TSP to identify future ROW needs	Policies related to Right of Way preservation
	Vehicle, Pedestrian and Bicycle Crash Inventory	Reduces likelihood of vehicle, bicycle, and pedestrian crashes	Existing and Future Conditions Report, Sections 4-8, Figures 23-32 (Crash Maps)	
<i>Objective 6.5: Prioritize projects, programs, polices that balance safety, mobility, and provide for multiple modes.</i>	Travel Time Reliability	Project improves travel time reliability	Existing and Future Conditions Report, Section 2, Table I3 and Project Description - is the project likely to increase the reliability of a corridor (i.e. through ITS, advanced signal systems, improved incident management, etc.)?	
	MMLOS - Pedestrians, Bicyclists, Transit	Improves MMLOS for pedestrians, bicyclists, transit	Project Description - is it a new ped/bike facility, widen a facility, increase the buffer from vehicle traffic, enhance roadway crossing opportunties, reduce the volume or speed of adjacent traffic, or improve access to transit, transit frequency or stop ameneties?	