Matrix of INVEST 1.1 Criteria Changes

			its in Version 1.1 ¹		
	Criteria	Formatting ²	Editorial ³	Content⁴	Description of Content Edits ⁴
	SP-01: Integrated Planning: Economic Development and Land Use	•			
	SP-02: Integrated Planning: Natural Environment	•	•		
	SP-03: Integrated Planning: Social	•			
	SP-04: Integrated Planning: Bonus	•		•	Clarified that scoring of SP-04.1 is either 5 or 10 points, not a sliding scale. This is not a change because this is how the online tool scored projects.
	SP-05: Access & Affordability	•	•	•	Clarified that scoring of SP-05.3b is conditional on SP-05.3a.
	SP-06: Safety Planning	•		•	Provided link for PlanSafe.
	SP-07: Multimodal Transportation and Public Health	•		•	Clarified SP-07.2: Engage Stakeholders scoring requirment.
	SP-08: Freight and Goods Movement	•			
Planning Module	SP-09: Travel Demand Management	•		•	Clarified that scoring on SP-09.4 is either 3 or 5 points. This is not a change because this is how the online tool scored projects.
nin	SP-10: Air Quality	•			
System Plan	SP-11: Energy and Fuels	•	•	•	Clarified that System-Level Data Collection and Forecasting is based upon on-road VMT and provided definition of eco-driving.
S	SP-12: Financial Sustainability	•			
	SP-13: Analysis Methods	•		•	Reordered scoring requirements SP-13.2 and SP-13.3.
	SP-14: Transportation Systems Management & Operations	•	•	•	Clarified that scoring on SP-14.4 is either 3 or 5 points, not a sliding scale. This is not a change because this is how the online tool scored projects.
	SP-15: Linking Asset Management and Planning	•		•	Clarified focus of Asset Management Planning.
	SP-16: Infrastructure Resiliency	•	•	•	Clarified that hazards include structural failures and that vulnerability assessments are GIS-based. Clarified that scoring on SP-16.4 is either 2 or 5 points, not a sliding scale. This is not a change because this is how the online tool scored projects.
	SP-17: Linking Planning and NEPA	•			
	PD-01: Economic Analyses	•	•		
	PD-02: Life-Cycle Cost Analyses	•		•	Provided a link for RealCost software.
anle	PD-03: Context Sensitive Project	•			Provided links to NCHRP reports 480 and 642.
Ν	Development			•	Trovided links to NCTINT Teports 480 and 042.
int I	PD-04: Highway and Traffic Safety	•	•		
ame	PD-05: Educational Outreach	•	•		
Project Development Module	PD-06: Tracking Environmental	•			
	Commitments PD-07: Habitat Restoration	•		•	Provided definition of traditional alignment and removed use of "original alignment".
Ā	PD-08: Stormwater	•		•	Provided definitions of Best Management Practices (BMPs) and Low Impact Development (LID).

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	PD-09: Ecological Connectivity	•		•	Provided definition of traditional alignment and removed use of "original alignment".	
	PD-10: Pedestrian Access	•	•			
	PD-11: Bicycle Access	•	•	•	Separated comfort feature and added definition.	
	PD-12: Transit & HOV Access	•				
	PD-13: Freight Mobility	•				
	PD-14: ITS for System Operations	•	•	•	Revised technology names and groups to fit referenced website better.	
	PD-15: Historical, Archaeological, and Cultural Preservation	•				
	PD-16: Scenic, Natural, or Recreational Qualities	•				
ule	PD-17: Energy Efficiency	•				
Project Development Module	PD-18: Site Vegetation	•	•	•	Revised goal to be more active. Changed non-toxic to non-noxious. Added definitions of non-invasive plant species, noxious species, and site vegetation.	
dola	PD-19: Reduce and Reuse Materials	•	•			
eve	PD-20: Recycle Materials	•	•			
ğ	PD-21: Earthwork Balance	•				
roje	PD-22: Long-Life Pavement Design	•	•			
₫	PD-23: Reduced Energy and Emissions in	•				
	Pavement Materials	_				
	PD-24: Contractor Warranty PD-25: Construction Environmental	•	•			
	Training	•				
	PD-26: Construction Equipment Emission Reduction	•		•	Removed "non-road" because this criterion applies to road and non-road.	
	PD-27: Construction Noise Mitigation	•		•	Revised goal to be more achievable (removed "eliminate") and removed mention of secondary affect of improving human health.	
	PD-28: Construction Quality Control Plan	•				
	PD-29: Construction Waste Management	•				
ule	OM-01: Internal Sustainability Plan	•	•		Clarified that internal includes administrative and maintenance & operations functions.	
e Mod	OM-02: Electrical Energy Efficiency and Use	•				
l Maintenanc	OM-03: Vehicle Fuel Efficiency and Use	•		•	Provided link to AASHTO Equipment Management Technical Service webpage. Clarified that a plan is needed to measure performance and demonstrate outcomes.	
Operations and Maintenance Module	OM-04: Reuse and Recycle	•		•	Clarified scoring with respect to OM-01 Internal Sustainability Plan. Clarified that a plan is needed to measure performance and demonstrate outcomes.	
	OM-05: Safety Management	•	•	•	Corrected number of points earned for scoring requirement OM-05.4 and provided link for PlanSafe.	

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	OM-06: Environmental Commitments Tracking System	•		•	Clarified that most scoring requirements are intended to allow for scalability in the ECTS. Clarified that a plan is needed to measure performance and demonstrate outcomes.		
e Module	OM-07: Pavement Management System	•		•	Provided link for GASB 34. Clarified that a PMS is needed to measure and demonstrate outcomes and in which to include sustainable specifications		
Operations and Maintenance Module	OM-08: Bridge Management System	•		•	Added link for AASHTO Guidelines for Bridge Management Systems. Clarified that a BMS is needed to measure performance and demonstrate outcomes.		
ns and N	OM-09: Maintenance Management System	•		•	Corrected reference to Road Maintenance Plan. Provided examples of vehicle-based technologies.		
Operatio	OM-10: Highway Infrastructure Preservation and Maintenance	•	•	•	Corrected reference to Traffic Control Maintenance Plan. Clarified that a plan is needed to measure performance and demonstrate outcomes.		
	OM-11: Traffic Control Infrastructure Maintenance	•	•	•	Clarified that a plan is needed to measure performance and demonstrate outcomes.		
	OM-12: Road Weather Management Program	•		•	Clarified that a plan is needed to measure performance and demonstrate outcomes.		
	OM-13: Transportation Management and Operations	•		•	Clarified table is for system-wide applications.		
	OM-14: Work Zone Traffic Control	•		•	Clarified that CB Wizard is used to broadcast alert messages to truck drivers. Clarified that a plan is needed to measure performance and demonstrate outcomes.		

Notes:

- 1. Scoring of criteria was clarified in some cases, but not changed in Version 1.1.
- 2. Formatting changes typically include separating background and scoring requirements; showing the full URL instead of hyperlinks; and numbering prerequisites, scoring requirements, and tables for better clarity and alignment between requirements and the web tool questions.
- ${\bf 3.}\ Editorial\ changes\ include\ grammar,\ word\ choice,\ and\ typos\ and\ do\ not\ affect\ the\ content\ of\ the\ material.$
- 4. Content changes typically include clarifications, definitions, and added or updated links and references intended to clarify the intent or scoring of