# Smart Transportation Rank Choice (Smart TRAC)

#### Section I: Introduction

Transportation needs always outstrip funds available. The Hawaii Department of Transportation (HDOT) and many transportation stakeholder have made the case for more investment in transportation and will continue to do so. However, HDOT also recognizes that with more money will also come a longer list of ideas and projects to improve Hawaii' s transportation system. Therefore, it will always be essential to have a system to identify the transportation projects that most effectively move the state' s priorities forward. Those priorities are:

- improving safety;
- preserving the transportation system;
- providing access to jobs and necessities;
- reducing traffic congestion, and
- protecting the environment and cultural assets.

To ensure a strong connection between projects selected for funding and our statewide transportation goals, HDOT has developed an evaluation process called Smart Transportation Rank Choice (Smart TRAC) – to assess the degree to which each project proposed for funding addresses a problem or state priority relative to the requested funding for the project. Without such a system, the process is opaque and always appears to be politically driven, even when it is not. Under Smart TRAC, HDOT and its partners and stakeholders have developed a guantifiable and transparent prioritization process for making funding decisions for limited transportation funds in our Statewide Transportation Improvement Program (STIP). The STIP is a federally required four-year program that identifies the transportation projects (highway, freight, public transit, bicycle and pedestrian) that will utilize federal transportation funding or require approval from either the Federal Highway Administration or the Federal Transit Administration. Aside from the federal requirement, the STIP is where the DOT communicates its project-level priorities and plans to external and internal stakeholders.

#### Section IV: Evaluation Measures and Scoring

This section summarizes the evaluation measures that are used in the Smart TRAC evaluation process, and the methods by which those evaluation measures will be calculated.

HDOT has identified five statewide surface transportation priorities against which projects should be evaluated under Smart TRAC:

- improving safety;
- preserving the transportation system;
- providing access to jobs and necessities;
- reducing traffic congestion, and
- protecting the environment and cultural assets.

HDOT worked with the sub-STAC to develop the measures for Smart TRAC. HDOT researched best practices from across the country to establish these measures and sought metrics that have a meaningful impact on our statewide priorities; minimize overlap between measures; are transparent and understandable; work in areas of all kinds (urban, suburban and rural); work for all modes of transportation.

Projects can receive up to a total of 80 points allocated as follows.

Safety Measures

#### Need input from safety team

	1. IMPROVE TRANSPORTATION SAFETY						
	High	Medium	Low	Comments			
1a. Reduce	8	4	0				
Crashes	Anticipated to reduce crashes at a high crash location as listed on high- crash intersection or non-intersection lists prepared by	Anticipated to reduce crashes in a non-high crash location	Not anticipated to reduce crashes				

	HDOT.					
1b.	8	4	0			
Improves	Anticipated to	Anticipated to	Not anticipated			
safety for	greatly improve	modestly improve	improve safety and			
vulnerable	safety and access to	safety and access to	access to			
users	transportation for	transportation for	transportation for			
	non-motorized	non-motorized	non-motorized			
	travelers.	travelers.	travelers.			
4 bonus points if project scores a high or medium in reducing crashes that have involved fatalities.						
Maximum Safety Score:			20			

# Asset Management Measures

# Need input from asset management team

	2. PRESERVE THE TRANSPORTATION SYSTEM							
	High Medium Low		Low	Comments				
2a. System	4			2			0	
Preservation roads	Addresses pay rated "poor" o based on Pave Condition Inde (PCI) and proj has been desig using the pave optimization software.	vement or "fair" ement ex ject gned ement				Does no pavemen poor or	t address nt rated fair.	Change this to rated highly in the asset management plan?
2b. System	4			2			0	
Preservation bridges	Addresses brid rated "poor" b on National Br Inspection Standards (NE	dge based ridge BIS)	Add rate NB	lresses bridge ed "fair" based IS	on	Does no bridge r fair.	t address ated poor or	Change this to rated highly in the asset management plan?
2c. System	4			2			0	
Preservation transit	Addresses a transit asset (i.e., vehicles, equipment, systems or structures essential to transit operation) rated in "poor" condition.		Add ass equ or s ess ope "fai	dresses a trans et (i.e., vehicle dipment, syster structures ential to trans eration) rated ir" condition.	sit s, ms it in	Does not address a transit asset rated in poor or fair condition.		Change this to rated highly in the asset management plan?
	4 bonus points if project scores a high or medium and serves a low-income community						ncome community.	
	4 bonus points if project scores a high or medium and will reduce an asset's vulnerab to the impacts of climate change.					asset's vulnerability		
2d. Volume	4	3		2		1	0	

(only for projects scored high or medium in 2a, 2b.)	>20,000 ADT	10,000- 20,000 ADT	5,000- 9,999 ADT	1,000- 4,999 ADT	<1,000 ADT	
Maximum System Preservation Score: 24						

### Accessibility Measures

### Need input from accessibility team

	3. PROVIDE ACCESS TO JOBS AND NECESSITIES						
	High	Medium	Low	Comments			
3a.	4	2	0				
	Improves access to jobs by more than one mode	Improves access to jobs by least one mode	Does not improve access to jobs	Modes: auto, transit, bike, pedestrian. HDOT is acquiring Sugar Access to			
				support scoring.			
3b.	4	2	0				
	Improves access to	Improves access to	Does not improve				
	non-work	non-work	access to non-work				
	necessities by more	necessities by more	necessities by more				
	than one mode	than one mode	than one mode				
	4 bonus points if project scores a high or medium and serves a low-income community.						
Maximum Access Score: 12							

Traffic Congestion Measures

# Need input from traffic congestion team

	4. REDUCE TRAFFIC CONGESTION						
	High	Medium	Low	Comments			
4a. Delay	4	2	0				
	Anticipated to	Anticipated to	Not anticipated to	Need to define			
	significantly reduce	moderately improve	improve person	significant and			
	person hours of	person hours of	hours of delay	moderate. Is this			
	delay	delay		double counting? If			
				improve auto			
				accessibility, delay is			
				already captured.			
	4 bonus points for project on a high priority freight route with high or medium rating on 4a.						
	4 bonus points for a project on a corridor that accommodates transit with high or medium						

rating on 4a. Maximum Traffic Congestion Score:

12

### Environment and Cultural Assets Measures

### Need input from environment and cultural assets team

	5. PROTECT THE ENVIRONMENT AND CULTURAL ASSETS						
	High	Medium	Low	Comments			
5a.	4	2	0				
Emissions	Likely to significantly reduce long-term carbon emissions or NAAQS.	Likely to moderately reduce long-term carbon emissions or NAAQS.	Not likely to reduce long term carbon emissions or NAAQS.	Need to define significant, moderate and long-term.			
5b.	4	0	-4				
Sensitive lands	Improves cultural or environmental resources	Does not impact cultural or environmental resources	Has a negative impact on cultural or environmental resources				
5c.	4	0	-4				
Resilience	Improves asset's resilience to natural weather events or sea level rise.	Project is not vulnerable to natural weather events of sea level rise.	Asset will be or will remain vulnerable to natural weather events or sea level rise.				
Maximum Environmental and Cultural Impacts Score:12							