Freight Mobility Strategic Investment Program 2018 Application Form

Project Summary

Project Tit	tle:									
Annlicont	Orgoniati	.								
	Organizati	on								
Lead Agend	-									
	rson & Title	:								
Email:										
Phone:										
Address:										
Project Lo	cation									
City:						Legi	islative			
County:						Dist	trict(s):			
GPS Coord	inates:									
STRATEGI	C FREIGHT	CORRI	DOR on	which	this project is loca	ited.				
(Attach a deta	ailed map of the	he propos	sed project	and all a	affected adjacent rout	tes - see Q1)				
PROJECT A	ADDRESSEI	D IN RE	GIONAL	. and/	or STATE TRANS	PORTATI	ON PLA	NS (see Q9)	
Regional P	lan:									
		name of	plan(s)						date	
State Plan:										
		name of	plan(s)						date	
List of Sup	plemental	Docur	nents:		Project Financia	al Summa	ary:			
Vicinity Map	o (required -	see O1B)		-					
	(required - s				Total Public Secto	or Match:	[#DIV/0!
	<u>, - 1</u>				Total Private Sec					#DIV/0!
							•			
					-	Total	Match:	Ś		- #DIV/0!
								Ŧ		
					-					
					-	FMSIB Re	auest:			#DIV/0!
										,
Supplement	al Applicatio	n Form	used	Y/N	Та	otal Projec	t Cost:			#DIV/0!
	# of pages					•	L			•

Funding Detail

Partnerships:	Anticipated	Committed	Total
Public Sector Match			
Lead Agency Funds			\$-
			\$-
			\$-
			\$-
			\$-
Private Sector Match			
			\$-
			\$-
			\$-
			\$-
			\$-
Partnership Total	\$-	\$ -	\$-

Funding Allocation:	PE	RW	CN	Total
FMSIB Request				\$-
Committed Public Sector				
Lead Agency Funds				\$-
				\$-
				\$-
				\$-
				\$-
Committed Private Sector				
				\$-
				\$-
				\$-
				\$-
				\$-
Anticipated / Need				\$-
Total	\$-	\$-	\$-	\$-
Tentative	PE Completed	RW Completed	CN Ad	
Dates			Start	
·			Completed	

Cash Flow Needs (\$1,000's):

	pre-2017	2017-2019	2019-2021	2021-2023	2023-202	5 Tota	al	
Total PE Phase						\$	1	
Total RW Phase						\$	-	
Total Const. Phase						\$	-	
FMSIB Request						\$	-	
				Project	Total \$		-	#DIV/0!
			Partnership Total \$				-	#DIV/0!
				FMSIB	Total \$		-	#DIV/0!

Detailed Project Information

In addition to the Project Summary and Funding Detail submitted on page 1 and 2, the following information is required in order for this funding application to be considered complete.

Refer to the Freight Mobility Strategic Investment Program 2018 Guidelines and 2018 Criteria documents for further details and additional guidance.

Project Narrative and Required Supplemental Data:

Q1: Description and scope of project and supplemental data:

Q1A: Truck/Rail industry contact names

Q1B: Vicinity and benefitted area map(s)

Q1C: Traffic Data

Freight Mobility for the Project Area:

Q2: Truck travel times, with and without the project, and other freight travel time benefits

Q3: Other project benefits

Q4: Calculate truck volume to capacity ratio

Q5: Rail capacity improvements

Freight Mobility for the Region, State, & Nation:

Q6: Significance of the project to regional economy

Q7: Significance of the project to state economy

Q8: Relation of project to port or international boundary access

Q9: Relation of project to a regional, state, or national freight corridor

General Mobility:

Q10: Non-truck travel times, with and without the project

Q11: If project includes at-grade railroad crossing improvements, reduction in travel delays

Q12: If project includes at-grade railroad crossing improvements, travel time to an unobstructed crossing

Q13: Is project improving an urban principal arterial

Safety:

Q14: Accident history

Q15: Emergency vehicle access

Q16: Extent of railroad crossing closure

Freight and Economic Value:

Q17: Benefit to mainline rail operations

Q18: Key employment areas

Q19: Improved train speed

Environment:

Q20: Non-attainment area

Q21: Sensitive receptor sites

Q22: Sustainability policies and plans

Q23: Air quality

Partnerships / Costs / Special Issues:

Q24: Critical timing of partnership investments

Q25: Project quantitative benefits

Q26: Least-cost alternatives

Q27: Special or unique circumstances

Signature and Certification

Detailed Project Application

Note: If inadequate space is provided for individual responses, please utilize the Supplemental Application Form (if utilized, note its use on the cover sheet)

Project Narrative and Required Supplemental Data:

Q1 Please describe the scope of the freight mobility project and how the project will:

- (a) reduce barriers to or increase capacity for improved freight movement; and/or
- (b) mitigate the impacts on local communities of increasing freight movement, including rail and road conflicts.

Reducing barriers or increasing capacity includes: truck climbing lanes, realignment and rerouting project to avoid excessive truck climbing grades or general congestion; alternate truck routes; dedicated truck lanes; access into and/or out of ports, intermodal freight facilities and freight terminals; truck turning lanes; changes in roadway or intersection geometry to better accommodate trucks; increasing weight limits; and the use of Intelligent Transportation Systems (ITS).

Mitigation includes grade separations, mitigating impacts of increasing truck and/or railroad traffic to a community and can be the use of ITS.

Answer:

Q1A Provide the names, contact information, and comments of the truck and/or rail representatives consulted on this project.

- Q1B Provide a map identifying the extent of the proposed project and identify all transportation facilities directly affected by the proposal. (Provide this information as a separate document submitted with the hardcopy transmittal of the completed application.)
- Q1C Provide traffic data within the project boundaries describing four scenarios:
 - (1) current traffic values with no project
 - (2) current traffic values with project completed, if different than (1)
 - (3) predicted traffic values 10-years in the future with no project
 - (4) predicted traffic values 10-years in the future with project completed, if different than (3)

Required "Traffic Values" for each of 1-4 above:

- (1) Percentage of various vehicle types
- (2) Average weekday/average weekend
- (3) AM and PM peak period volumes, or 24-hour continuous fluctuation, for both travel directions for vehicles
- (4) Provide separate peak period data, or 24-hour continuous fluctuation, pertaining to trucks if freight movement has different timing/peak flow characteristics than other traffic

(Provide this information as a separate document submitted with the hardcopy transmittal of the completed application.)

Freight Mobility for the Project Area:

Q2 Provide travel time for truck traffic between logical termini that reflect the benefits of the proposal:

- during free-flow with and without the project
- during current truck peak hours with and without the project
- during truck peak hours 10-years in the future with and without the project

Include with the response a description of the logical termini utilized.

(Provide this information below or submit this information as a separate document attached to the hardcopy transmittal of the completed application.)

Q2 continued

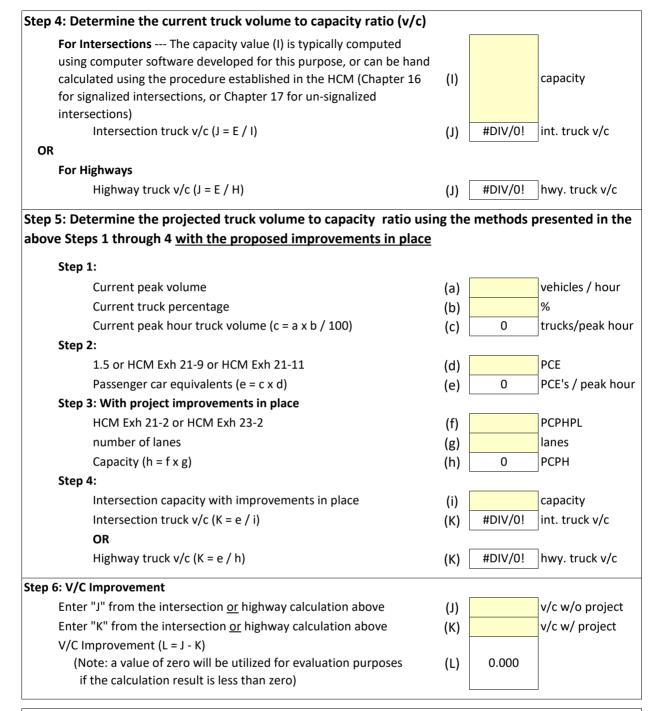
Describe other freight mobility benefits from reduced truck travel time as a result of the project.

Answer:

Q3 What are some of the benefits that this project will have to improve safety, eliminate noise, reduce emissions, eliminate grade crossings, reduce vehicular delays, or result in other environmental benefits?

Q4 What is the improvement in the volume to capacity ratio (v/c) for truck peak-hour movements? (Perform the following calculation. If you believe this question does not apply or cannot be performed as outlined, explain why within the space provided for assumptions. If multiple intersections and/or dissimilar roadway segments are involved, the applicant should provide this information as a separate document attached to the hardcopy transmittal of the completed application.)

Describe any assumptions utilized in gathering and/or applyin	ig the	uata:	
Answer:			
Note: HCM = 2000 ITE Highway Capacity Manual For determination of truck volume to capacity ratio for intersection in skipping Steps 1 and 3.	nprove	ements, go c	lirectly to Step 4,
1: Calculate the current peak hour truck volume			
Current peak volume	(A)		vehicles / hour
Current truck percentage	(B)		%
Current peak hour truck volume (C = A x B / 100)	(C)	0	trucks/peak hc
2: Convert peak hour truck volume to passenger car equivalen	ts		
Factor for converting trucks to passenger car equivalents (PCE) Use a factor of 1.5 except for the following conditions:	(D)		PCE
For <u>upgrades</u> use the value from Exh 21-9 of the HCM using the specific site conditions			_
For <u>downgrades</u> use the value from Exh 21-11 of the HCM using the specific site conditions			_
Passenger car equivalents (E = C x D)	(E)	0	PCE's / peak ho
3: Determine the current facility capacity (without the project)			
Highway capacity value from the HCM	(F)		PCPHPL
For multilane highways, use the value from Exh 21-2 for the posted speed and LOS D			_
For basic freeway sections on four-lane or more freeways, use Exh 23-2 for the posted speed and LOS D			
Number of current lanes in the direction of peak hour flow	(G)		lanes
Current capacity (H = F x G)	(H)	0	РСРН



Q5 If this project results in improved railroad operating efficiencies, please describe the increases to train velocity, the reduction in train delays, and/or increases in capacity.

Freight Mobility for the Region, State, & Nation:

Q6	What is the significance of this project to the <u>regional</u> economy? Describe the project's impact on the regional freight transportation system and the regional economy (i.e., nature of the improvement and principal freight moved; improved intraregional and interregional freight movement in terms of products, industries and direct employment; improved freight movement and access to domestic and international markets in terms of freight, industries and direct employment; benefits to other regional industries; and access and links to intermodal connections and facilities.)
	Answer:
Q7	What is the significance of this project to the state economy? Describe the project's impact on the state (outside the region) freight transportation system and the state (outside the region) economy. (i.e., improved intrastate freight movement in terms of products, industries and direct employment; improved freight movement to domestic and international markets in terms of freight, industries and direct employment; and benefits to other state industries.)
	Answer:
Q8	Does the project improve the freight movement for <u>direct</u> port access or across an international border?
	Yes No If yes, explain the proximity and the relationship of the project to the port or border and how it improves freight flow.
	Answer:

Q9 Is this project part of a regional corridor solution or major system improvement?

	Yes			No							
lf ye	If yes, is your regional planning council supportive of the project? Describe.										
Ansv	Answer:										
lf ye	s, list t	he sta	ate an	d regi	onal p	plans which include the proposed project. List the					
-				-	-	be the process by which the proposed project was selected					
and	priorit	ized.									
Ansv	ver:										

General Mobility:

Q10 Provide travel time for non-truck traffic, between logical termini that reflect the benefits of the proposal:

- free-flow with and without the project
- during current AM and PM peak hours with and without the project

Note if this is the same logical termini as used in Q2. If it is a different one, include with the response a description of the logical termini utilized.

(Provide this information below or submit this information as a separate document attached to the hardcopy transmittal of the completed application.)

Answer:

Describe other non-truck traffic benefits from reduced travel time as a result of the project. Answer:

	Using the Watson Equation: Q = V x R									
Q = Average queues length (in number of vehicles per lane)										
V = Volume expressed in ADT divided by number of lanes in										
R = Percentage of time per day either the crossing is closed at a crossing	or venic	les are stop	bed							
Step 1: Calculate the current queuing (without the project)			_							
Current Average Daily Traffic (ADT)	(A)		vehicles / day							
Number of lanes in one direction	(B)		lanes							
Volume per lane (C = A / B)	(C)	#DIV/0!	vehicles / lan							
Current closure or stoppage time either measure or calculated	(D)		%							
Average queue length (E = $C \times D / 100$)	(E)	#DIV/0!	vehicles / lan							
Step 2: Calculate the projected queuing with the proposed improve	ement									
Projected Average Daily Traffic (ADT) (current +10-years)	(F)		vehicles / day							
Number of lanes in one direction with proposed improvements	(G)		lanes							
Volume per lane (H = F / G)	(H)	#DIV/0!	vehicles / lan							
Estimate or calculated closure or stoppage time	(1)		%							
Average queue length (J = H x I / 100)	(J)	#DIV/0!	vehicles / lan							
Step 3: Reduction in queuing (K = E - J)]							
(Note: a value of zero will be utilized for evaluation purposes if the calculation result is less than zero)	(K)	#DIV/0!	vehicles / lan							
Supplemental Notes:										

Q12 If the project involves an at-grade road/railroad crossing, what is the shortest travel time to an unobstructed crossing in minutes?

Answer:

If present queuing can result in emergency vehicle delay, describe the most logical alternate emergency vehicle route and include the added distance and travel time.

	Is the	e project	on a de	signate	ed urb	ban pr	incipal arterial?
		Y	es		No		
<u>Safe</u>	ty:						
Q14	Have	there be	en any	accide	nts at	the p	roject location that this freight project will help reduce?
		Y			No		
		-			-		dent history and explain how the project will reduce each
							d crossing accidents from non-railroad crossing accidents.
		transmitt					omit this information as a separate document attached to the ion.)
		Answer:			-		
Q15	ls the	e project	located	on an	essen	ntial e	mergency vehicle access route?
					No		
		Y	es		110		
				(i.e. <i>,</i> fir		ice, an	bulance, school bus route and include closest alternative emergency
				(i.e. <i>,</i> fir		ice, an	bulance, school bus route and include closest alternative emergency
		lf yes, d		(i.e. <i>,</i> fir		ice, am	bulance, school bus route and include closest alternative emergency
		If yes, d access)		(i.e., fir		ice, am	bulance, school bus route and include closest alternative emergency
		If yes, d access)		(i.e. <i>,</i> fir		ice, an	bulance, school bus route and include closest alternative emergency
		If yes, d access)		(i.e., fir		ice, an	bulance, school bus route and include closest alternative emergency
		If yes, d access)		(i.e., fir		ice, am	bulance, school bus route and include closest alternative emergency
		If yes, d access)		(i.e., fir		ice, am	bulance, school bus route and include closest alternative emergency
016	Deer	If yes, d access) Answer:	escribe		re, poli		
Q16	Does	If yes, d access) Answer:	ect resu		dditio		bulance, school bus route and include closest alternative emergency
Q16	Does	If yes, d access) Answer: this proj	ect resu	Ilt in a	dditio	onal ro	
Q16	Does	If yes, d access) Answer: this proj	ect resu	Ilt in a	dditio	onal ro	
Q16	Does	If yes, d access) Answer: this proj	ect resu	Ilt in a	dditio	onal ro	
Q16	Does	If yes, d access) Answer: this proj	ect resu	Ilt in a	dditio	onal ro	

Freight and Economic Value:

Q17		the project result in operational efficiencies to the railroad network/system and benefit omic development and the overall capacity and movement of freight within the State/Region?
	Answ	er:
Q18	Does	the project improve access to key employment areas?
		Yes No No
		If yes, describe and include the number of temporary jobs created during construction and the
		number of permanent jobs preserved and/or created. Include the names of businesses and/or the types of permanent jobs affected.
Q19		a result of this improvement, train speed limits can be increased, will the applicant be ortive?
		Yes No N/A
		If yes, describe level of support. If no, why?
		Answer:

Environment:

Q20	Q20 Is the project located in a non-attainment area for air pollution?									
		Yes			No					

FMSIB (Updated 12-21-17)

Q21 How many sensitive receptor sites are affected by the reduction in train whistle noise in the vicinity of the grade separation? (Vicinity is identified as a quarter of a mile up and down the track and 600 feet each side of centerline. Sensitive receptor sites include residences, schools, churches, hospitals, hotels and motels, each counted as individual facilities.)

Answer:

Q22 What sustainability (i.e., greenhouse gas reduction (GHG)) policies and plans has the applicant adopted? (These could be in project design, construction, maintenance and/or operations.) Will these plans or policies be used in developing the project and to reduce the use of fossil fuels (GHG) emissions?

Answer:

Q23 Freight projects have the potential to not only improve the movement of commerce, but also improve local air quality. Explain how this project provides an overall health and environmental benefit. (e.g. reduction of particulate emissions, contribution to attainment standards in non-attainment area, etc.) How was the information and evaluation arrived at to support the benefit statement? (e.g. traffic model, air emissions model, etc.)

Partnerships / Costs / Special Issues:

Q24 What is the timing for the implementation of the proposed project (i.e., matching with other state/federal funds, phasing with other projects, meeting a concurrency requirement)? Are there critical timing issues associated with this project? (e.g. available funding that may expire, project impact, deteriorating infrastructure or other critical timing issues.)
Answer:

Q25 What are the greatest quantitative benefits of this project? (i.e. reduced truck/train delay, lowered v/c ratio, improved travel for trucks, job creation/retention, etc. --- this information will be used by FMSIB to develop a cost effectiveness measure.)

Answer:

Q26 Describe the degree to which least-cost alternatives were analyzed and considered for this project.

Q27 Describe the uniqueness of this project based on factors not addressed by previously asked questions.

Signature and Certification

Freight Mobility Strategic Investment Program								
Application Form								
Certification (To be signed by a Duly Authorized Official of the Applicant Organization)								
l certify that	(4	supports the support of supports the support of support of the sup	ne proposed					
	-	rity to pledge matching funds, and has a	-					
		c Investment Board funds. I further cer lable for the proposed project. I unders						
		state and that all state rules for contra		-				
payment will ap	-	-						
Signature	Date							
Printed Name ar	nd Title		•	•				
Project Title	Project Title							

Submission Requirements:

1. Respond to all applicable questions and prepare/provide all requested information.

2. Transmit electronically the above completed application in Excel format to FMSIB at *saelidg@fmsib.wa.gov*, including a completed cover sheet noting the supplemental documents (PDF format) that will be attached to the submission.