

Action	Long or short	Assigned to	Resources (source of)
Establish a pooled fund through Washington state with 4 subgroups <ul style="list-style-type: none"> - Construction/materials (A) - Testing and research (B) - Education and public involvement (C) - Policy (D) 	short	WSDOT	Pooled fund
List of acronyms (environmental and materials) <ul style="list-style-type: none"> - list of words - definitions 	short	Consultant to pooled fund study	Pooled fund study
Ordering/use/storage of SRTT tire	short	Manufacturer	Manufacturer
Define acoustic durability	short		
Finish the OBSI standard	short	ETG	FHWA
Document for OBSI & wayside	short	ETG	FHWA
DLPA	short	INDOT/NCAT	?
Synthesis on Cost/Benefit & recommendation	short	Pooled fund or NCHRP	
Synthesis of global practice	short	Pooled Fund & WSDOT	
Clearinghouse items on other list	short	ETG	Volunteer plus some funded
Mechanistic/experimental hybrids models and connection to testing	long	Federal agencies with international cooperation	Federal plus state DOT (possible piggyback on European efforts)
Discuss turning on “pavement type” in TNM	short	US DOT	
Policy issues on other list	short	US DOT	
General public education issues	short	ETG	Pooled fund study
Distribution of short term findings on public education	long	State DOT’s	State DOT’s
Get public response to different pavements	long	State DOT’s	State DOT’s

List of Gaps/Issues

Assigned to code:

- A – Construction
- B – Testing/Research
- C – Education/Public education
- D – Policy

Gap	Assigned to
Clearinghouse	
A template for the data on the clearinghouse web site(3)	B
Shared wavfiles (1)	C
Sharing data (2)	B
List of acronyms and definitions	All
Industry participation and contribution (1)	

Gap	Assigned to
Establish ETG (measurement)	
Meet more often and communicate more often, maybe subgroups (1)	

Gap	Assigned to
Quieter Current Pavement Technology	
Consistent inter-agency reporting (1)	all
Develop double layer porous asphalt (6)	A, B
Synthesis of global practice (11)	NCHRP
Pervious concrete/porous concrete overlay (1)	A, B

Gap	Assigned to:
Education/Noise 101	

Establish Noise 201 (1)	C
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Gap	Assigned to:
Measurements	
Measurement Methods (6)	B
Improved noise metrics (0)	B, D
We need a standard tire for noise testing (e.g., the SRTT) (11)	B
What are acceptable variations of measurement methods? (0)	B
Would it be useful to have a common, shared vehicle for noise testing? (1)	B
Need more precise acoustic data to optimize noise mitigation strategies (0)	B
Get public response to different pavements. (2)	B, C
Can we describe the relative advantages/disadvantages of various measurement methods for different applications, specifically wayside and OBSI. (8)	B
Identify storage for test tires (1)	B
Create a recommended equipment list for measurement practitioners (e.g., hardness tester) (0)	B
Identify age and wear parameters when test tire replacement is required (0)	B
Validation of reference tire versus population (0)	B
Develop an INI (Swanlund will give the words) (6)	B

Gap	Assigned to:
Research Noise/Safety/Durability/Cost	
Understanding the Durability of the Noise Reduction Effect (9)	B, D
Understanding Pavement Characteristics and Noise (3)	A, B
Can quieter pavements be built for studded tire applications? (1)	A, B
We should look at what is happening inside the car. (0)	B
Better understanding of meteorological effects (0)	B
Improve noise modeling capabilities (2)	B, D
Durable pavements with acoustic longevity (8)	A, B
The effect of pavement absorption on the propagation of tire/pavement noise to the wayside (1)	B
Traffic Mix Effects (5)	B

Is the texture/noise relationship the same for trucks and passenger cars (4)	A, B
What are the effects of “wide-based tires”? (0)	B, D
Will truck volumes and weights continue to increase? (0)	
Can we make pavements safe and quieter? (0)	A, B
Better understanding of trucks (source contributions) (1)	B, NCHRP 8-56

Gap	Assigned to:
Research Cost/Benefit	
Cost/Benefits of Quieter Pavement (5)	All
Can we monetize the benefits of quieter pavement? (1)	All

Gap	Assigned to:
Policy & Guidelines	
Policy	
Can we discuss modifications to the QPPP policy? (0)	D
More tools in the noise mitigation toolbox (1)	D
We should emphasize impact avoidance (2)	D
Is it possible to do a user defined pavement type in TNM (4)	D
Consistent and qualified reporting of data (1)	D
Can we have pavement type (surface texture) turned on in TNM? (6)	D
Can we do pavement type (surface texture) from other similar states? (4)	D
Establish a policy ETG (1)	D
Establish pool fund for travel and research prioritization (4)	D
A national QPPP or QPR (2)	D
A reference pavement (ability to develop delta) (3)	D

Gap	Assigned to:
Construction, Acceptance & Monitoring	
Maintaining Quieter Pavements (3)	A
Construction and construction acceptance (5)	A, B

Construction issues are pretty universal recognized as causing variability (2)	A
What is needed for communicating texture and material specs (i.e., ride model)? (0)	A
Establish construction guidelines and best practices (14)	A

Gap	Assigned to:
Accelerated Testing	
Couple accelerated pavement testing to include acoustical testing (2)	B

Gap	Assigned to:
Education (General public education and involvement)	
Communication and Education	C
“We need to be able to answer the public’s questions about quiet pavement and annoyance” (5)	C
A lot of complaints we are asked to address are coming from far from the pavement (<<<67 dB). Perception of traffic noise at distance, particularly related to low frequency and perception (1)	C
Learning gap: communicating spectra and understanding perception? Communicating connection between quantity and quality of sound (3)	C
Educational tools for the public (a toolbox) (3)	C
Can we educate the public about the difference between the interior and exterior sound? (1)	C
Consistent terminology (7)	C
Collecting psycho-acoustics literature related to highway noise (1)	C
How perception metrics would be used (1)	C

Gap	Assigned to:
Miscellaneous	
What is the real traffic noise problem? (2)	All