No.			Synthesis topics	AL	AR	FL	GA	КҮ	LA	MS	NC	SC	TN	VA	WV	average
1	West Virginia	Mark Morvant	Comparison of Granulated vs. Hydrated Lime for Treatment of In-Situ Soils - Lime treatment is usually utilized in construction to reduce plasticity and/or moisture content. Granulated (quick) lime, hydrated lime, and lime slurry are utilized in construction processes, however, due to the varying reaction rates, each may perform differently depending on application and materials. Little guidance in a simple format is available in the as to what are the best applications for each. The objective of the research will be to conduct a synthesis on the topic. Proposed actions would begin with a literature search to determine if past research has already sufficiently covered this topic. The research will examine other state specifications and practices, their requirements, soils allowed, and typical percentages utilized. The researcher will tabulate the results, make conclusions, and provide some best practices recommendations on how to implement the results The potential implementation and benefits will be that the research will designate the appropriate uses of these lime types and include guidance in the specifications for proper methods to ensure the best results are achieved on construction projects.	2	3	6	3	2	2	9	2	4		3		3.00
2	West Virginia	Donnie Williams	Take the synthesis of the benefit/cost and develop a guiding document on how to determine the potential benefit cost of a research project. Would have guidelines as to such things as length of evaluation, interest rates, processes, worked examples. This may also address how to determine performance measures if needed in future federal requirements.	1	4	5	1	6	1	2	1	1		5		3.29
3	West Virginia	Cindy Smith	Implementation of Intelligient Compaction Technology	9	5	4	5	1	6	7	8	6	1	2	1	4.43
4		David Jared (GDOT)	<b>Drone Usage for Traffic Data Collection and Reporting</b> . GDOT has completed a feasibilit study on possible applications for drones to support GDOT activities, but a regional study might be helpful. One of the main issues with this technology/application moving forward is Federal Aviation Administration (FAA) regulations, which could also be studied in the synthesis.	y d 4	5	3	9	4	4	5	4	7		6		5.00
5		Cindy Smith	<b>Performance measures for intermodal transportation systems</b> An effort is needed to identify and evaluate performance measures appropriate for assessing the effectiveness and efficiencies of intermodal transportation systems. This need will support the agencie federal-level efforts with outcomes as the performance measure index.	s 3	1	2	4	7	7	1	7	3		7		5.00
6	Louisiana		<b>Comparison of Functionality and Durability of Pervious Friction Courses.</b> GDOT is currently using more open-graded friction course (OGFC) than Porous European Mi (PEM) on interstates. PEM has been the mix of choice for about the past 10 years, bu anecdotal evidence indicates that PEM is less durable than OGFC. Is there a way to compare the functionality and of OGFC and PEM?	k t 5	2	9	8	3	3	6	5	2		9		5.57

7	Louisiana	Donnie Williams	A view of laws that would be required to allow automated vehicles to be used in each state. With this technology growing at the speed of light, many states will require changes to state laws that may affect its incorporation.	8	5	1	2	9	8	10	9	9	10	6.50
8	Georgia DOT	Mark Morvant	Driven Pile Vibration Monitoring – Driven Piles are a common way to transfer loads for bridge and other foundation types into the ground. Vibrations can be associated with pile installations; and damages to nearby structures are not intended or desired. The potential for vibrations depends upon many variables (pile type, soil type, distance from the pile, the dissipation of energy with distance from the pile, etc. What methods and policies are used by State Departments of Transportation (DOT) to manage the balance of costly site inspections (before/after driving), onsite vibration monitoring, risk to legal damage claims, and the area of influence around the pile. A summary of state practices would be part of the synthesis, which would also include a best practices specification recommendation, and possibly a cost benefit analysis.	6	5	8	7	5	5	4	10	8	4	6.50
9	Mississippi DOT	Donnie Williams	Use of materials to control dust on non-paved roads.	10	5	10	10	10	10	3	6	5	1	6.88
10	Mississippi		<b>Disadvantaged Business Enterprise (DBE) Utilization Techniques and Practices in</b> <b>Alternative Delivery</b> - The current state of practice within many DOT's is that there are established goals and procedures for incorporating federally required Disadvantaged Business Enterprise (DBE) objectives into traditional construction contracts. Good faith efforts are a requirements of State DOTs to not only establish goals but also to properly monitor and react to contractor actual performance for this requirement as contracts are executed. From time to time, it becomes necessary to react to trends and occurrences in the accomplishment of the State DOT's responsibilities, to somehow change or influence Contractor behavior so as to achieve the intent of the federal regulation in reality. An example of this is the trend of saturating a particular market by a tendency to over utilize one particular type of work or service, and not spread the opportunities out in the available markets where there is a pool of ready, willing and able participants in local vicinity of that work. In the field of Alternative Delivery, which blends both construction and preconstruction activities, the possibility exists to expand the field of DBE opportunities in a more deliberate fashion, partly because there is a wider range of DBE	8	5	7	6	8	9	8	3	10	8	7.00

	External Pooled Fund project topic
Donnie Williams / Mark Morvant	Pooled fund with Dr. Hota Ganagroe (Already in the works) where the study would look at the durability question surround fiber reinforced plastic. Many states are using this project in varying degrees to rehab concrete elements. A constant question being asked is how long will it last. Study would look at this issue and evaluate existing applications. s
Michelle Owens	Ditch Check Practices using Large-Scale Testing Techniques
Neil Mastin	Roadway Departure Safety Information Clearinghouse:The objective of this pooled fundproject is to fully develop and launch the Roadway Departure Safety InformationClearinghouse.The Clearinghouse will be an actively managed, comprehensive, centralizedresource for roadway departure safety information.This effort will reduce frequency andseverity of roadway departure crashes by aiding practitioners with more rapid identificationand implementation of best practices, safety countermeasures, new roadside safetytechnologies, and the latest research and training.The Clearinghouse will serve as an integral tool in support of important safety initiatives thatare underway in the United States including Toward Zero Deaths, the Decade of Action, andthe various state Strategic Highway Safety Plans, all of which have elements related toroadway departure safety.These efforts have a common goal of eliminating deathsassociated with highway crashes.SCOPEThe scope of the Clearinghouse will include identification and dissemination of data, bestpractices, safety countermeasures, and research that will reduce the number and severity ofroadway departure crashes.SCOPEThe scope of the frequency of vehicles leaving the roadway,1. Reducing the frequency of vehicles leaving the roadway,2. Reducing the severity of crashes that do occur.Tasks required to complete the Clearinghouse development include: content identification,