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Management Challenges	Stakeholders Engagement
Stakeholders Engagement	 Findings ways to partner with industry
Clear communication.	for implementation buy-in.
	 Formulating a dedicated task force(s)
 Engage stakeholders. 	for asphalt stakeholders' engagement.
Collaboration.	 Identifying local champions for buy-in
	at higher levels.
	 Leveraging contractors/consultants/
	academia for testing when State DOT
	resources are insufficient.
	 Communicating and working with
	industry partners for achieving a
	feasible version of BMD implementation.
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Technical Challenges	Database
Database Setup, Collection	• Organizing initial BMD database.
Analysis, & Management	 Needing for a data wish list for
	validation projects.
 Database setup. 	 Needing for templates and format.
 Track testing parameters. 	 Maximizing data fields and raw data.
 Track field performance. 	 Linking data for BMD mix design,
Data management can persuade decision makers.	construction QA, and field performance.
	 e.g., mix design info, mixture type,
	raw material sources, project
	location, pre-existing pavement
	condition, lot and sub-lot numbers,
	BMD test results, field performance.
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Common Challenges	Integration with Existing Practices
Integration with Existing Practices	(1 of 2) • Needing to bridge the gap between
 Address technical and management perspectives. 	research and practice. • Identifying internal gaps towards
 Compatibility with existing specifications and standards must be ensured. 	 implementing BMD including training. Frequency of testing under BMD poses a significant challenge at the start of implementation, with identified testing frequency being the primary hurdle. Testing impact of new additives/ materials on mixture's mechanical properties.
office of Innovation Implementation	Us separated of formation in the URCL CONTER 31











