

**Attachment - Breakout Session Summary**  
**Stormwater Infrastructure Toolkit - NJDEP Public Workshop**

<b>Asset Management/Operation &amp; Maintenance Process</b>			
<b>Breakout Session Topic</b>	<b>Successful Components</b>	<b>Implementation Challenges</b>	<b>Implementation Recommendations</b>
Accurate asset inventory	19	7	3
Cost and budgeting	13	7	
Experienced/sufficient staff	7	10	2
Funding	11	19	6
Including the private sector	1	2	2
Job training	7	6	5
Outreach/public response/buy-in from politicians	12	15	2
Communication with responsible parties		2	5
GIS	10		1
Implementation of a written plan/planning	6	1	
Knowledge transfer		3	1
Level of risk/risk management	2	1	
O&M certifications	1		1
Regional cooperation		2	4
Responsible parties/roles for agencies	4	2	
Tracking system	1	3	
Update/maintain system	2	1	
2% Cap		1	
Ability to bond funding during an emergency	1		
Adequate management/projection tools	5		
Age based assessments	1		
Annual update/status updates			2
Apply for federal/state funding			3
Better training/programs for the public/municipalities			4
Capital planning	1		
Chief resilience officer (someone in charge)			1
Condition-based assessments	3		
Connecting outside costs beyond the actual asset (failure)			1
Cost/benefit		1	
Create a separate stormwater division inside of the DPW workforce			1
Cycle of lifespan	1		
Design with maintenance in mind			1
DPW leadership as an advocate			2
Early access to information			1
Enforcement	1		
Historical knowledge	1		
Identify future needs	6		
Identify needed or desired level of service	1		
Identify priority areas			1
Identify problems	1		
Implement alternative systems to slow stormwater flow			1
Including O&M in the design phase of projects	1		
Incorporating assets management/O&M into capital project planning		1	
Inventory of competent resources	2		
Invest in technology			2
Inventory of potential failure potentially a liability		1	
Land is valuable (cost prohibitive)		1	
Learning curve to the new system		2	
Maintain waterways			1
Make it a regulation			6
Make up a plan to have taxes pay for system			1
Monitoring annual costs and personnel		2	
Monitoring for asset performance over time	2		
Need for outside consultants to do assessment		1	
Non-operable			1
Not a departmental priority		2	
Offline			1
Out of sight out of mind		1	
Periodic and routine inspections	1		
Permits		2	
Policy/permit changes		1	
Prioritizing asset restoration to plan maintenance and replacement	4		

**Attachment 43- Module 1 Breakout Session Report Out Summary  
NDR Regional Stormwater Infrastructure Toolkit NJDEP Public Workshop**

<b>Asset Management/Operation &amp; Maintenance Process</b>			
<b>Breakout Session Topic</b>	<b>Successful Components</b>	<b>Implementation Challenges</b>	<b>Implementation Recommendations</b>
Proactive versus reactive	1		
Proper design		2	
Provide a guidance to municipalities about BMPs			1
Publishing successes			3
Regional utility entity			1
Right equipment for tasks	1		
Scheduling	5		
Secure employee buy-in			1
Set up incentives and profitability			2
Share information within municipal departments			1
Share Service agreements			1
Small test case			1
Specialized equipment		1	
Start early in planning and involve governing body			4
Start small			3
Stuck in old ways		1	
Switching from an outdated system		1	
Transparency			1
User-friendly			1
Utilize DEP's mobile mapping app			2
Web based DEP site			1
Work orders	1		

**Notes:**

Identified in all three session topics

Identified in two out of three session topics

**Acronyms:**

% - percent

BMPs - best management practices

DEP - NJ Department of Environmental Protection

GIS - geographic information system

O&M - operations and maintenance