



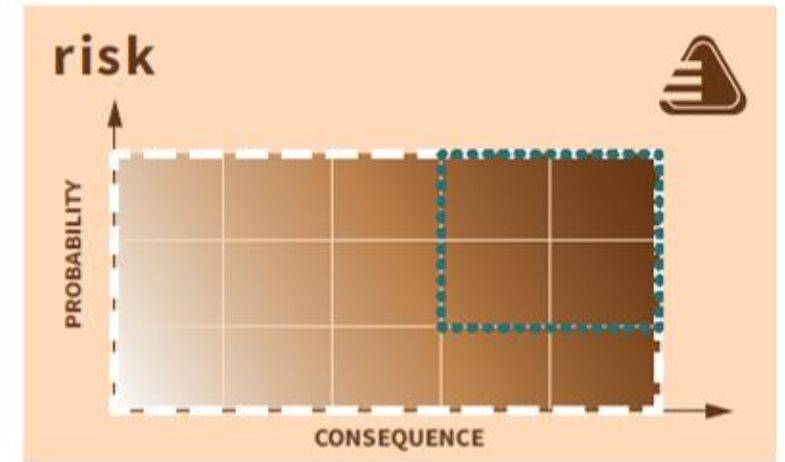
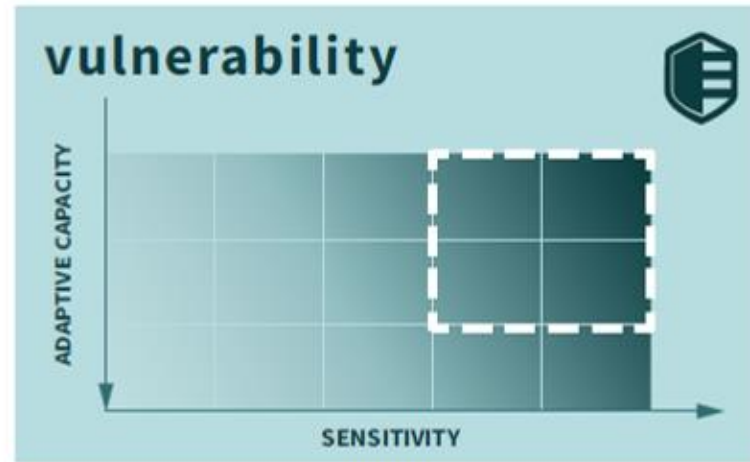
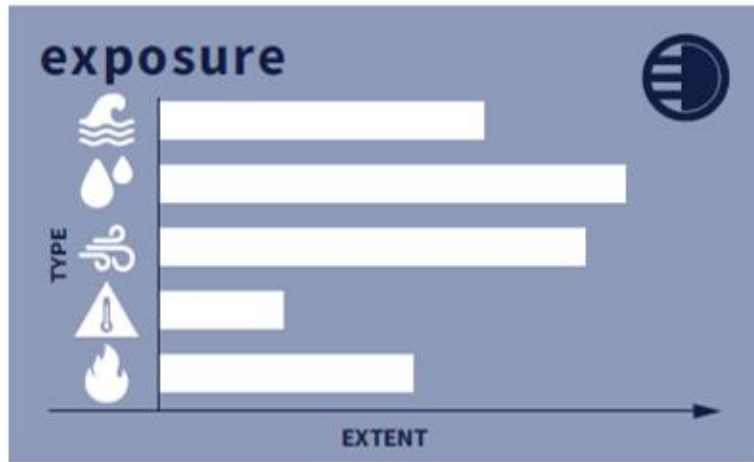
Technical Track No. 3:

Water, Water, Everywhere: Adapting Infrastructure to the Changing Climate

72nd Maine Transportation Conference
December 7, 2023

Lisa Churchill
Principal, Climate Advisory




Workflow



Criteria used

exposures

ASSET-SPECIFIC

-  Sea level rise
-  Precipitation
-  Wind

OTHER CONSIDERATIONS

-  Extreme heat
-  Wildfire

assets vulnerable to exposure



BRIDGES			
LARGE CULVERTS			
CROSS CULVERTS			
UNDERDRAINAGE			
ROADWAYS			
PEDESTRIAN & BIKE TRAILS			
MAINTENANCE LOTS			
RETAINING WALLS			
AIRPORTS			
FERRY TERMINAL TRANSFER BRIDGES			
RAILROAD SYSTEM			

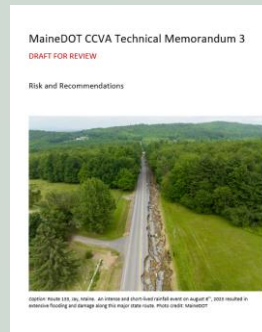
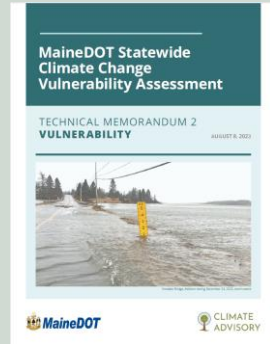
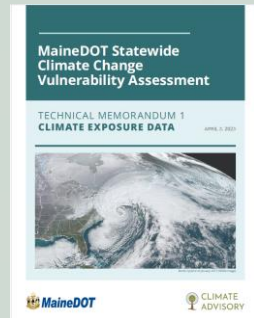
risk criteria

- Highway priority corridor ranking
- Daily traffic volume
- Bypass length (for bridges only)
- Sufficiency rating (for bridges only)
- Roadway condition rating
- Evacuation route
- Previously flooded (for highways only)
- Isolated from critical services
- Flooding exposure at town level
- Equity impacts

Preliminary Results

Recommended Priorities (Summary)	Number	Notes
Bridges	283	
Large culverts	235	
Cross culverts	148	
Highways (individual segments)	334	
Bike + Ped trails	2	
Retaining walls	1	
Maintenance lots	6	
Ferry transfer bridges	9	
Railroads (individual assets)	94	to be further assessed in subsequent phase
Airports	7	to be further assessed in subsequent phase
Total	1119	
Total prioritized in this phase	1018	

Next Steps



2023

2024

Final Public Report
+ databases
+ technical appendices

July 2023