Inform development of and convene around topics including:

• Legislation

• Regulation

• Transportation/ Land Use

• Adaptation
A two-tiered approach is needed

“Avoiding the unmanageable and managing the unavoidable”*

Avoiding the unmanageable → mitigation
  – Emissions reduction policies at state, regional, federal, and international levels

Managing the unavoidable → adaptation
  – Preparedness, resilience, ecosystem management, protecting vulnerable populations

*Title of the UN Foundation Scientific Expert Group Report on Climate Change and Sustainable Development
... in the adaptation arena:

• Federal legislative analysis
• Working with state governments to identify and help eliminate legal and policy barriers to adaptation
• Adaptation clearinghouse – a toolkit of resources for adaptation planning
State Adaptation Plans

State Adaptation Plans complete or in progress
Adaptation Plan recommended in Climate Action Plans

Source: T. Cruce for the Pew Center on Global Climate Change, April 2010
Common Transportation Elements in Adaptation Plans

Inventories: catalogue infrastructure and identify risks

Coordination: vertical and horizontal

Design Standards: improving resiliency

Planning and Risk Assessment
Starting Up: States Taking First Steps

Connecticut
- Identify affected transportation sectors
- Broad identification of impacts

Kansas
- Long Range Transportation Plan recognizes the need to address climate impacts
- Calls for development of resilient design standards

Maryland
- Assess vulnerability of transit systems to SLR and extreme weather
- MDOT will formulate adaptation policies (ID options and assess design standards)
Starting Up: States Taking First Steps (cont’d)

New Hampshire
• Identified impact on transportation infrastructure
• Recommended development of adaptation strategy

Virginia
• Calls for accounting for climate change in project planning and design, maintenance plans
• Calls for developing a plan to minimize risks to infrastructure

Washington
• Called for development of partnerships

Massachusetts
• Identified climate impacts
• Calls for accounting for climate change in planning
• Calls for statewide collaboration on transit adaptation
Alaska
Infrastructure Adaptation Strategy

Create a statewide system for assessing vulnerability
  • Identify vulnerable infrastructure
  • Create information sharing system

Promote improvements to state’s transportation system
  • Implement changes to planning and design
  • Change funding and prioritization formulas

Build longer-lasting transportation infrastructure

Actions Already Accomplished

Relocation of airports
$10M in funding to combat permafrost melting under highways
Florida
Florida

3 Goals Identified

1. Inventory at-risk transportation infrastructure
   • Perform cost-benefit analysis
   • FDOT will continue monitoring rainfall and storm surge

2. Coordinate state and local adaptation efforts
   • Cooperation between state, local and regional entities
   • Information sharing

3. Address climate change in long-term planning
   • FDOT will update its transportation plan
CalTrans’ preliminary impact assessment
  4 Sectors impacted: marine, airports, roads, regions/corridors

State adaptation strategies
  1. Develop detailed vulnerability assessment
  2. Incorporate adaptation strategies into transportation and investment decisions
  3. Develop new design and engineering standards
  4. Incorporation of climate change into disaster preparedness plans
Maine

Maine DEP’s adaptation strategy
1. Identify vulnerable roads and culverts and place on hazard maps
2. Share this inventory and methods to help build local capacity
3. Evaluate design standards and other policies

Maine DOT’s adaptation strategy
1. Short term strategies
   A. Monitor conditions and assess infrastructure resilience
   B. Prioritize infrastructure for retrofit and incorporate CC into planning
2. Long term strategies
   A. Improve design standards and GIS resources
   B. Maintain and restore natural buffers
   C. Regularly inspect bridges and culverts
   D. Provide guidance and support to entities outside Maine DOT
For More Information

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