Opportunities to Improve New Jersey's Infrastructure

Mark Mauriello

Director of Environmental Affairs & Planning

Edgewood Properties

Panelists

- Rick Thigpen, PSE&G Services Corporation
- Pat Natale, Mott McDonald
- John Miller, NJ Association for Floodplain Management
- Jeff Perlman, North Jersey Transportation
 Planning Authority
- Jen Senick, Rutgers Center for Green Building

Climate Change Impacts to NJ

- Increases in average temperature
- More frequent and extreme heat waves
- More intense heavy precipitation events and associated flooding
- More frequent short-term droughts
- More frequent and severe coastal flooding due to sea level rise
- More frequent nuisance flooding
- Urgent need for adaptation and future conditions planning



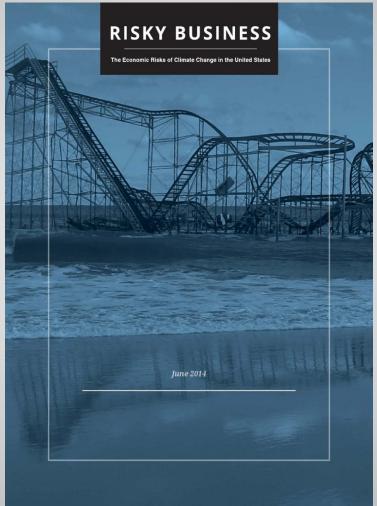








Business









Transportation

- Deterioration of asphalt pavements and rail systems from
- Scouring, erosion and inundation of roadways, bridges and
- Expansion and contracting of bridge infrastructure
- Inundation of and damage to electrical systems servicing
- Damage to traffic and transit signaling systems
- Multiple, extreme event-related impacts





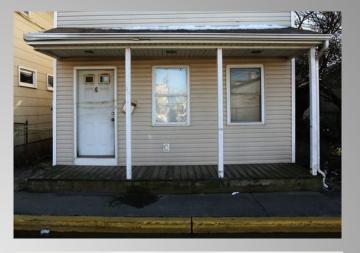




Buildings

- Inundation
- Direct wave impacts
- Foundation failure from erosion and scour
- Battering
- Inadequate land use management (zoning use, density, setbacks)







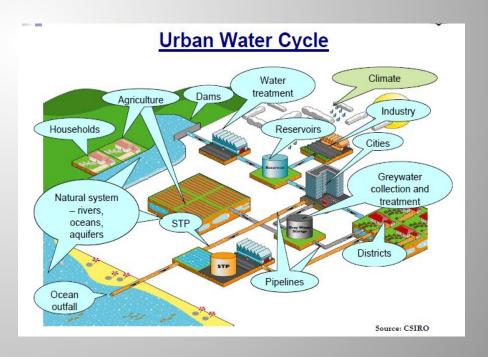


Water, Wastewater, Stormwater

- Saline intrusion
- Greater variability in water supply and water levels
- Stress to aging infrastructure
- Storm and flood impacts to water infrastructure
- Combined sewer discharges
- Contamination from flooding
- Reservoir management challenges
- Stormwater backflow and flooding







Energy











2011 NEW JERSEY ENERGY MASTER PLAN

December 6, 2011

Chris Christie, Governor

Kim Guadagno, Lieutenant Governor

Lee Solomon, President - NJ Board of Public Utilities



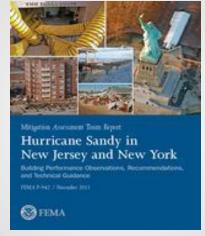
Policy Opportunities

















Federal spending on disaster relief and recovery, 2011–2013

Fiscal year appropria- tions or supplemental bill spending	Estimated disaster-relief spending (in millions of \$)
FY 2011	\$21,376
FY 2012	\$32,412
FY 2012 supplemental appropriations	\$8,174
FY 2013	\$14,321
FY 2013 Superstorm Sandy supplemental appropriations	\$60,210
Total	\$136,493

Notes: The Treasury Department has two disaster-related programs, but funding levels are unavailable. Figures are rounded. Sources: Annual department budget reports: appropriations and supplemental appropriations law. For more detail, see the attached spreadsheet.