

Executive Order 41 Update

**Winter Workshop
February 15, 2016**

Jim Pappas
Office of Performance Management



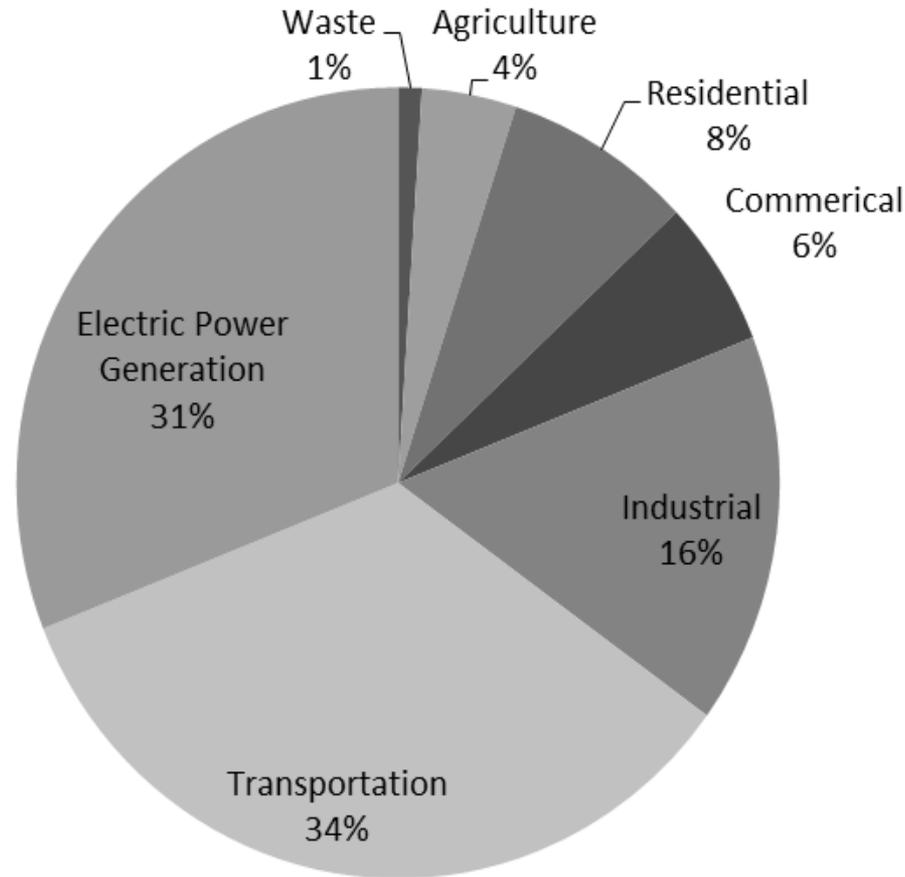
Executive Order 41

- *Preparing Delaware for Emerging Climate Impacts and Seizing Economic Opportunities for Reducing Emissions*
- Signed September 12, 2013
- All state agencies are subject to the provisions of EO 41 for both construction projects and long-range planning
- Directs agencies to address both the causes and consequences of climate change

Executive Order 41 (cont)

- Creates Cabinet Committee on Climate and Resiliency (CCoCAR)
- Directs the state to set a mitigation goal
- Requires State Agencies to plan and design projects for flooding and sea level rise
- Requires State Agencies to prepare adaptation recommendations

Delaware's Greenhouse Gas Emissions Portfolio (2010)



Source: Delaware 2010 Greenhouse Gas Inventory, Division of Air Quality, 2014

EO 41 – Workgroups

- **Adaption**
 - Develop agency specific, actionable recommendations for improving Delaware's preparedness and resilience to climate impacts.
- **Flood Avoidance**
 - Established to develop flood avoidance and design guidance to incorporate measures for adapting to increased flood heights and sea level rise.

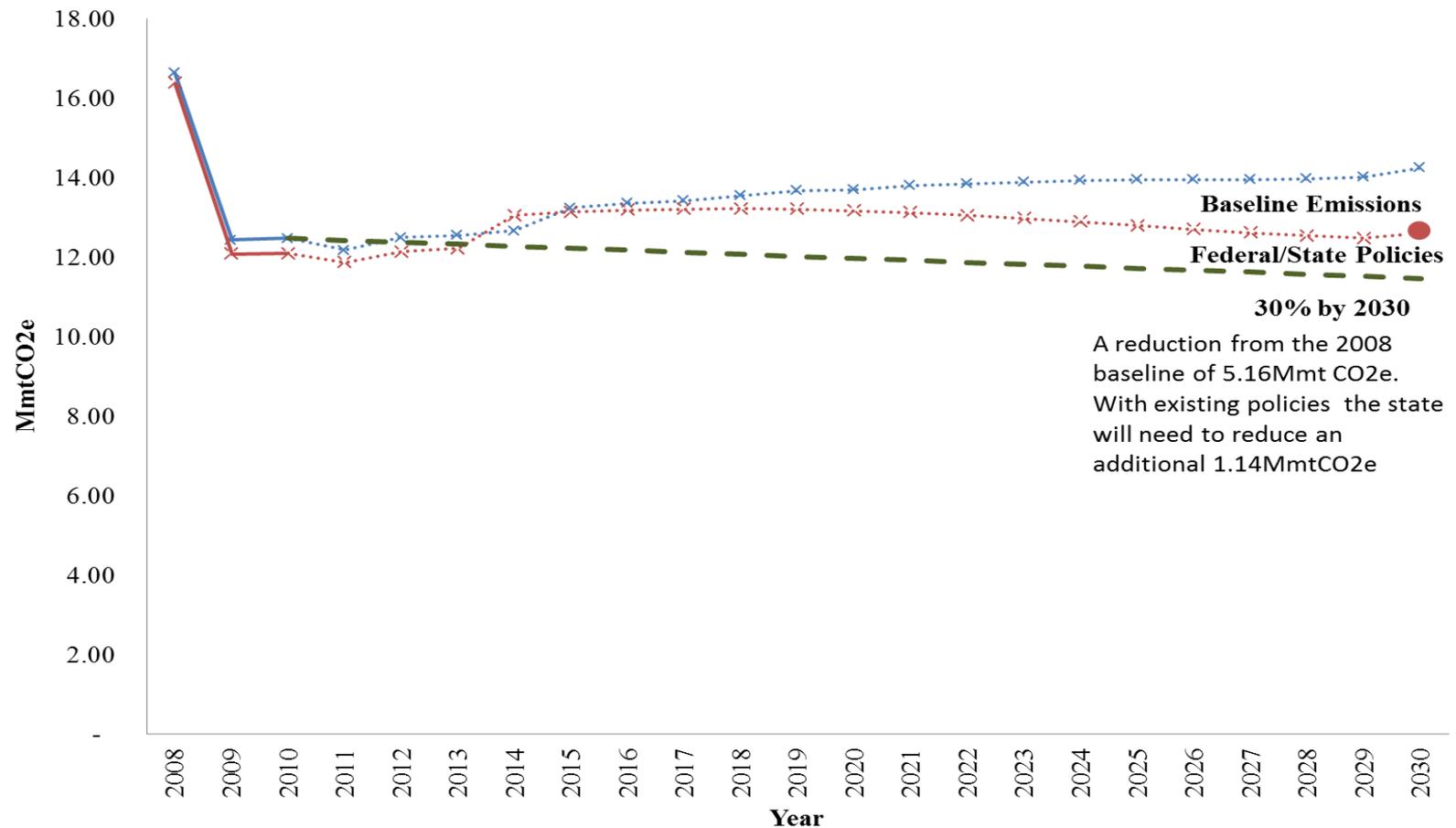
EO 41 – Workgroups (cont.)

- **Mitigation**

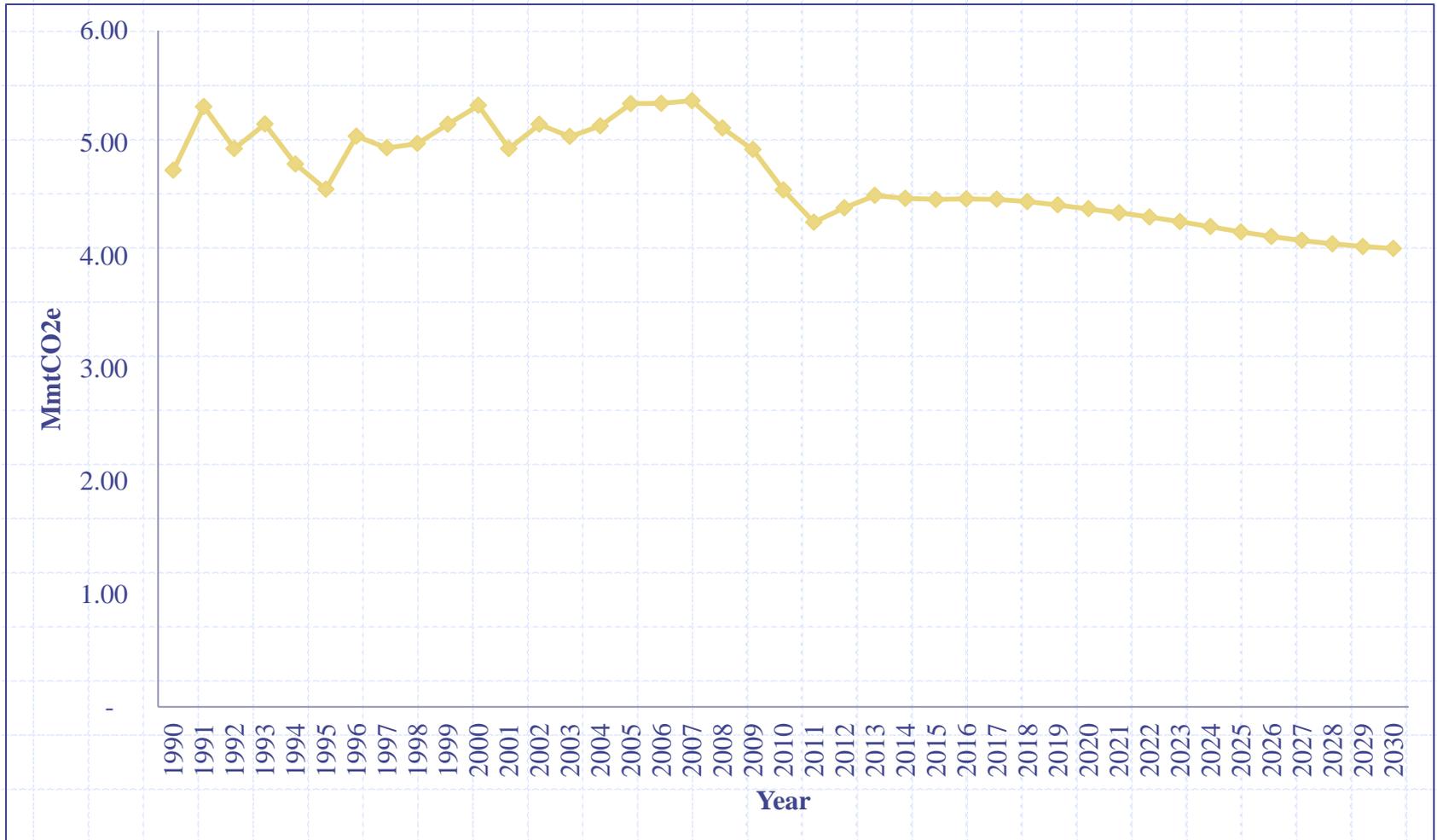
- Examine GHG emissions, regulations, programs, and policies that influence GHG emissions, use best data available to establish a GHG mitigation target, and develop an implementation plan to guide Delaware toward its goal

- **Recommended mitigation target of 30% greenhouse gas reduction from a 2008 baseline by 2030**

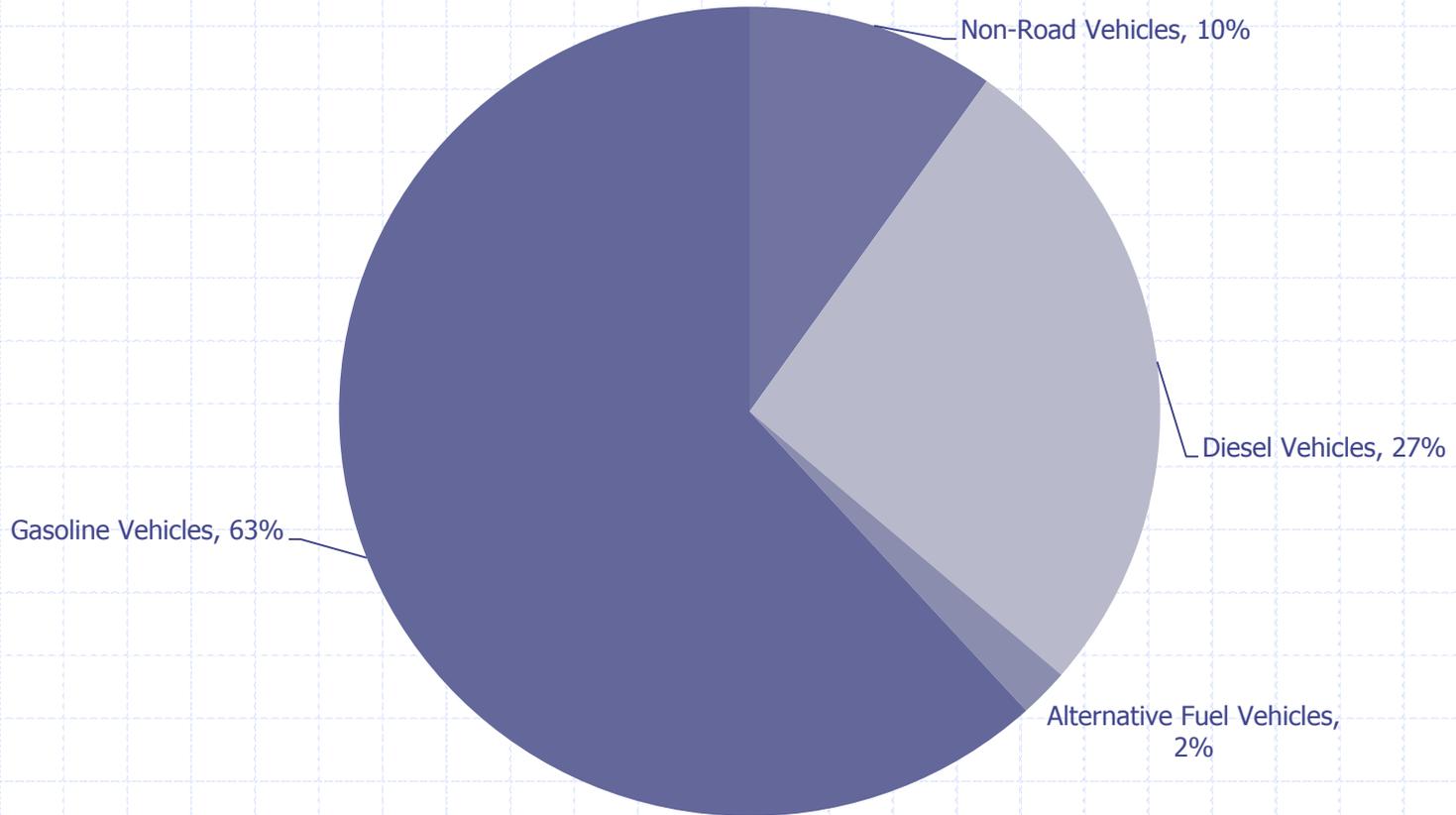
Delaware's Greenhouse Gas Mitigation Target with Trends and 30% Reduction Target



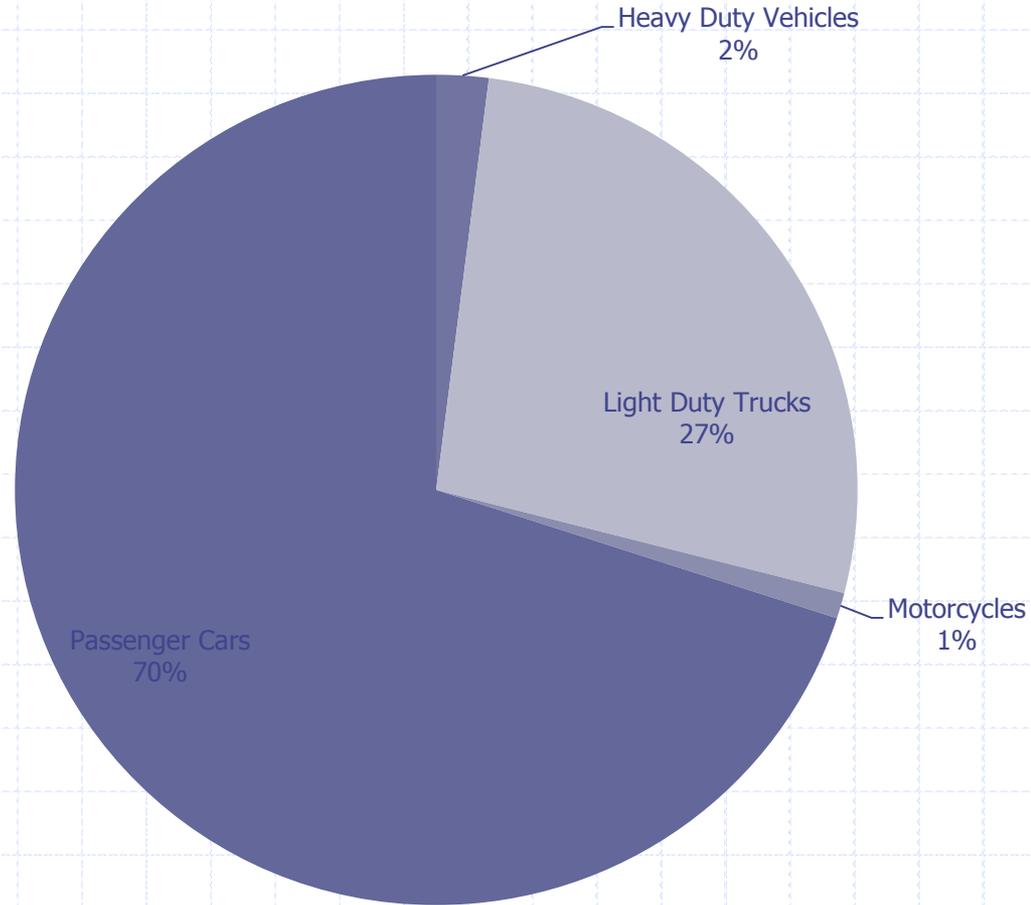
Transportation Sector Greenhouse Gas Emissions (1990-2030)



Transportation Sector Emissions by Vehicle Type

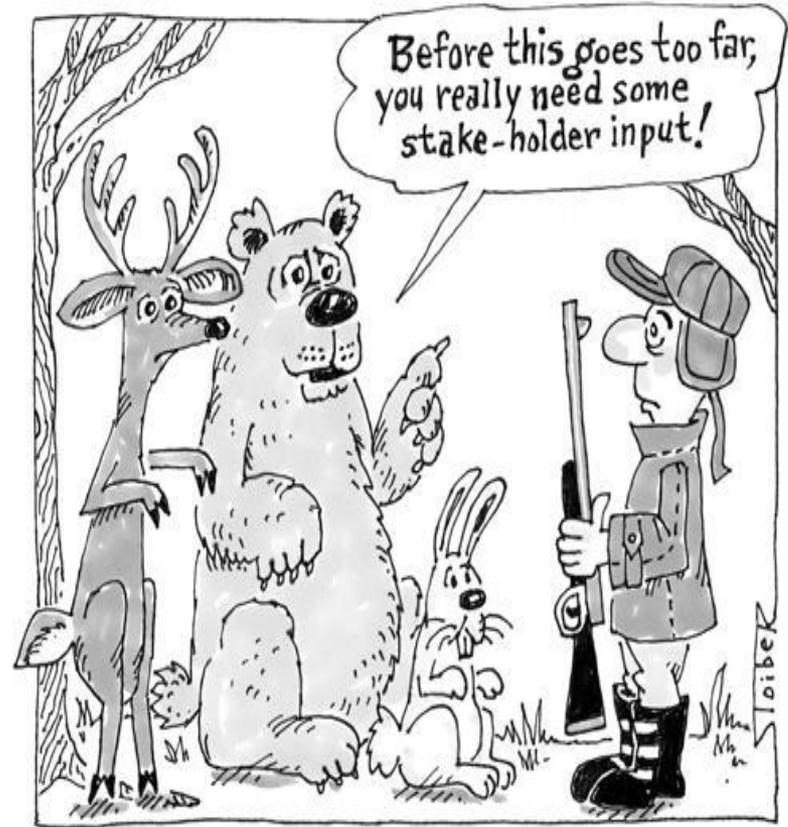


Emissions by Type of Gasoline Vehicle



Significant Progress

- Climate Framework for DE published on December 31, 2014
- Contains 166 recommendations
- Includes 30% GHG reduction goal



Report: Strategies to continue reducing GHG Emissions in DE

- Audience
 - State agency decision-makers
- Provides a “menu” of programs that could reduce GHG in DE
- Next step: select and implement strategies to reach 30% goal

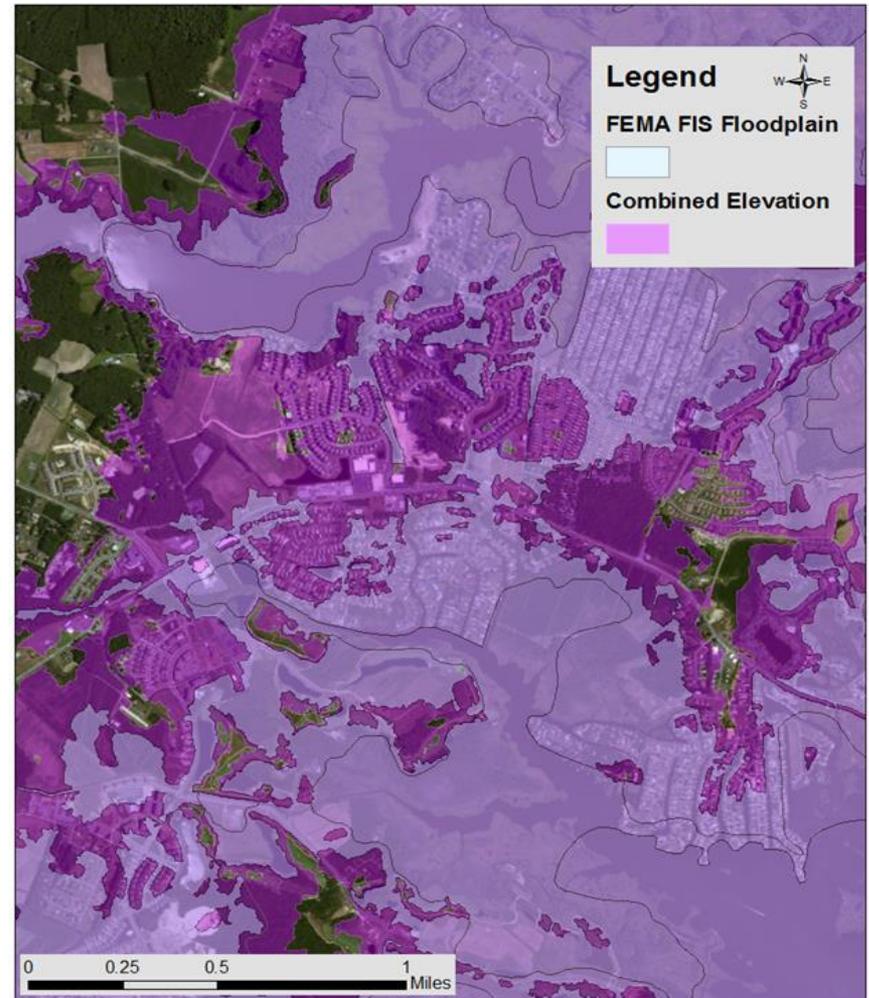
Avoiding and Minimizing Flood Damage to State assets

- Audience
 - State agencies
- Contents
 - Agencies/Projects subject to EO 41
 - Guiding principles
 - Instructions
 - Mapping Tool overview



Mapping Tools – DE Flood Risk Adaption Map

- Future looking
- Developed for state agency use
- Depicts the 1% annual chance floodplain with 3 feet of sea level rise
 - Many caveats and limitations
- Use for planning and assessment



Avoiding and minimizing flood damage to State assets

- Principles
 - Understand the flood risk
 - Avoid sites with flood risk
 - Design to decrease risk of flood damage
 - Incorporate Green Infrastructure Practices
 - Document



Interagency Pilot Projects

- Kick start work on climate adaptation measures to address cross-cutting issues
 - Asset Management
 - Workforce Safety
- Funding available
- Multiagency participation requested

Still to do ...

- Finalize, approve and use
- Flood avoidance guidelines
- Strategies for reducing GHG
- Formalize GHG reduction target of 30%
- Then implementation plan
- More implementation of EO 41 recommendations

Thank you for your time and attention

Jim Pappas

302.760.2379

james.pappas@state.de.us



“Don’t follow the rules. If everybody followed the rules, nothing would change, and without change there is no progress.” Sir Richard Branson