Addressing Climate Change by:

Growing Smarter

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SG&G HOME | GREENPRINT | PLANT TREES | GROW OYSTERS | BAYSTAT

MAIN AREAS

- Welcome
- GreenPrint
- Plant Trees
- Grow Oysters
- Bay Stat
- Take Our Survey

PARTICIPANTS

- Base Realignment and Closure (BRAC)
- SGG College Initiatives
- Department of Agriculture
- Maryland Energy Administration
- Department of the Environment
- Department of General Services
- Office of the Governor

Welcome to *Smart, Green & Growing*

Welcome to ***Smart, Green & Growing...*** where our goal is to involve every Marylander in creating a more sustainable future for our State.

Today our new, interactive GreenPrint map is helping guide preservation of our most vital landscapes. BayStat allowing Marylanders to track our Chesapeake Bay restoration efforts. More than 800 citizens are growing oysters along the Tred Avon River, augmenting Bay those efforts. A statewide tree planting effort is now underway will help reduce our carbon footprint.

Maryland's state agencies, local governments, businesses and citizens have already begun

http://www.baystat.maryland.gov/

Internet | Protected Mode: Off

100%

2009 Legislative Session

- TOD
- Smart Growth Indicators and Goal
- Terrapin Run (comp plans)
- Smart Growth Visions
- Climate Change

Coastal Storms in Maryland

Sea-Level Rise in Maryland

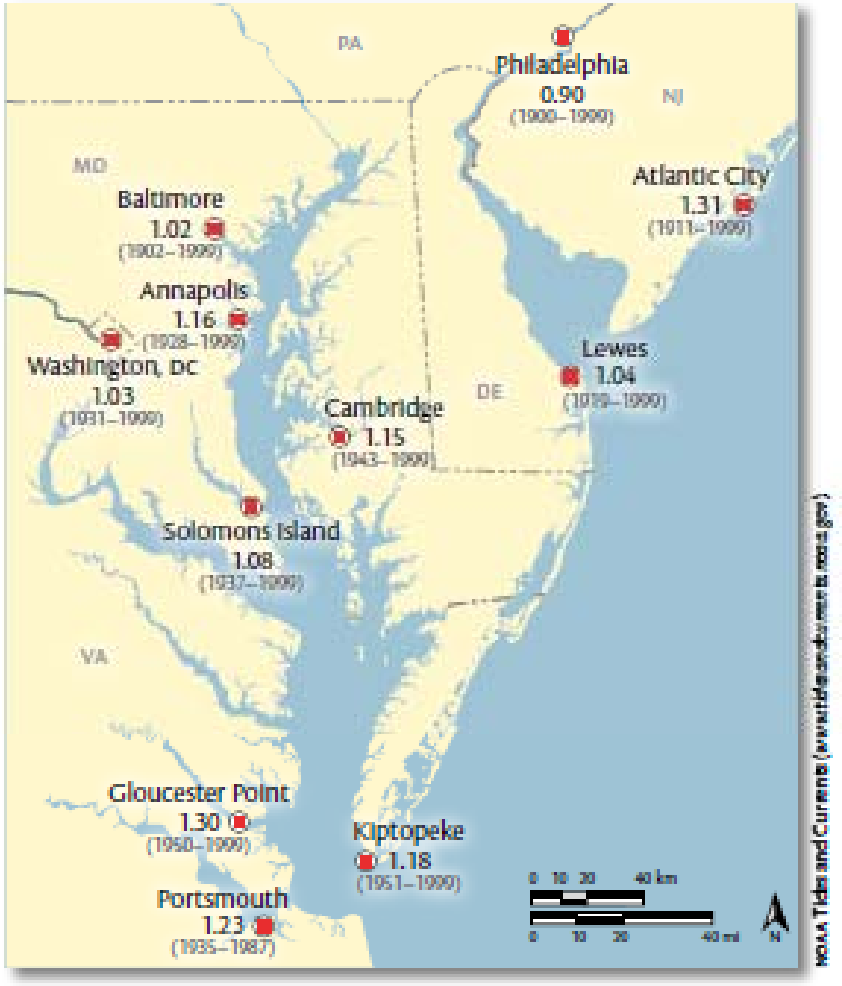
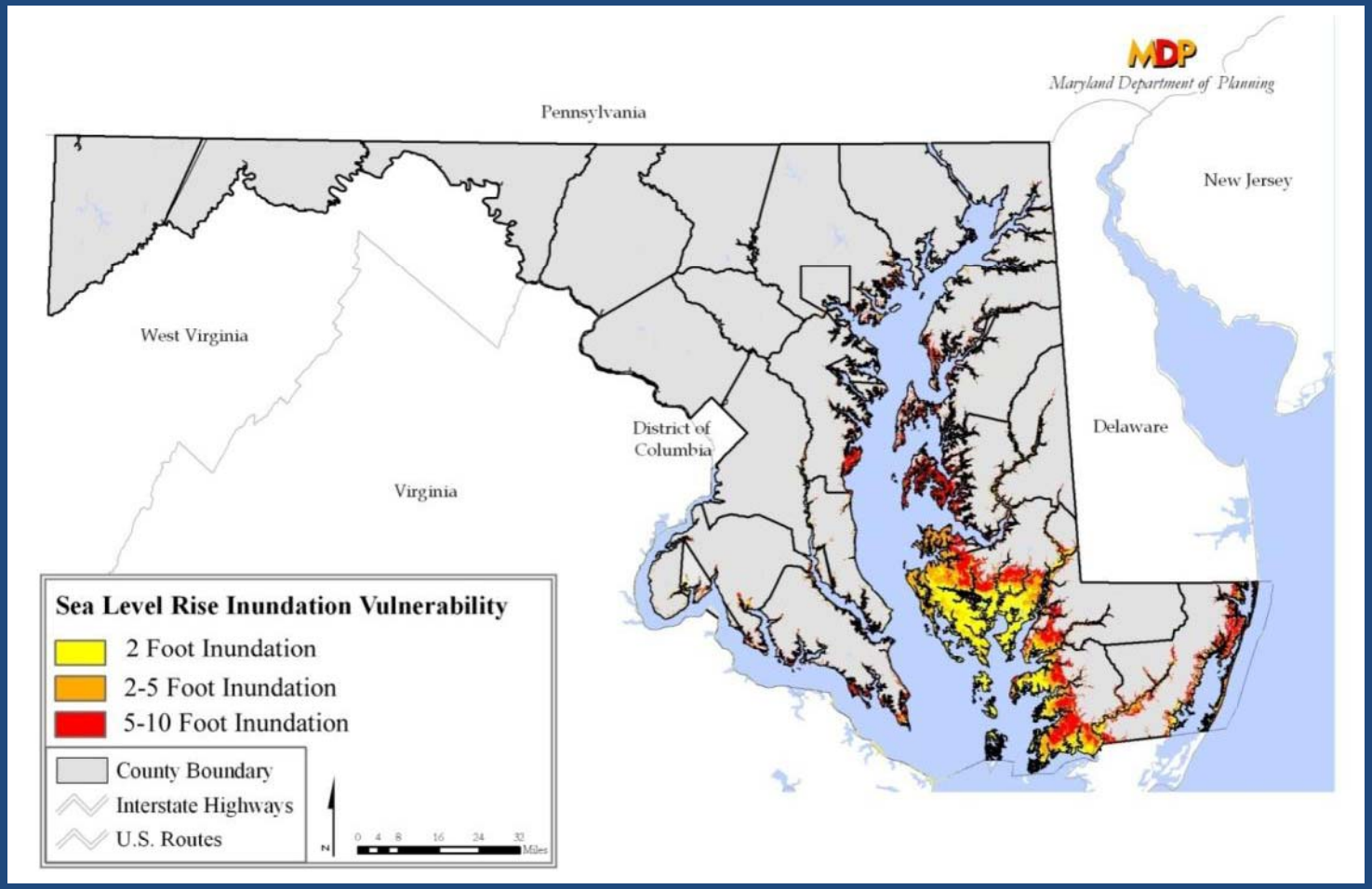
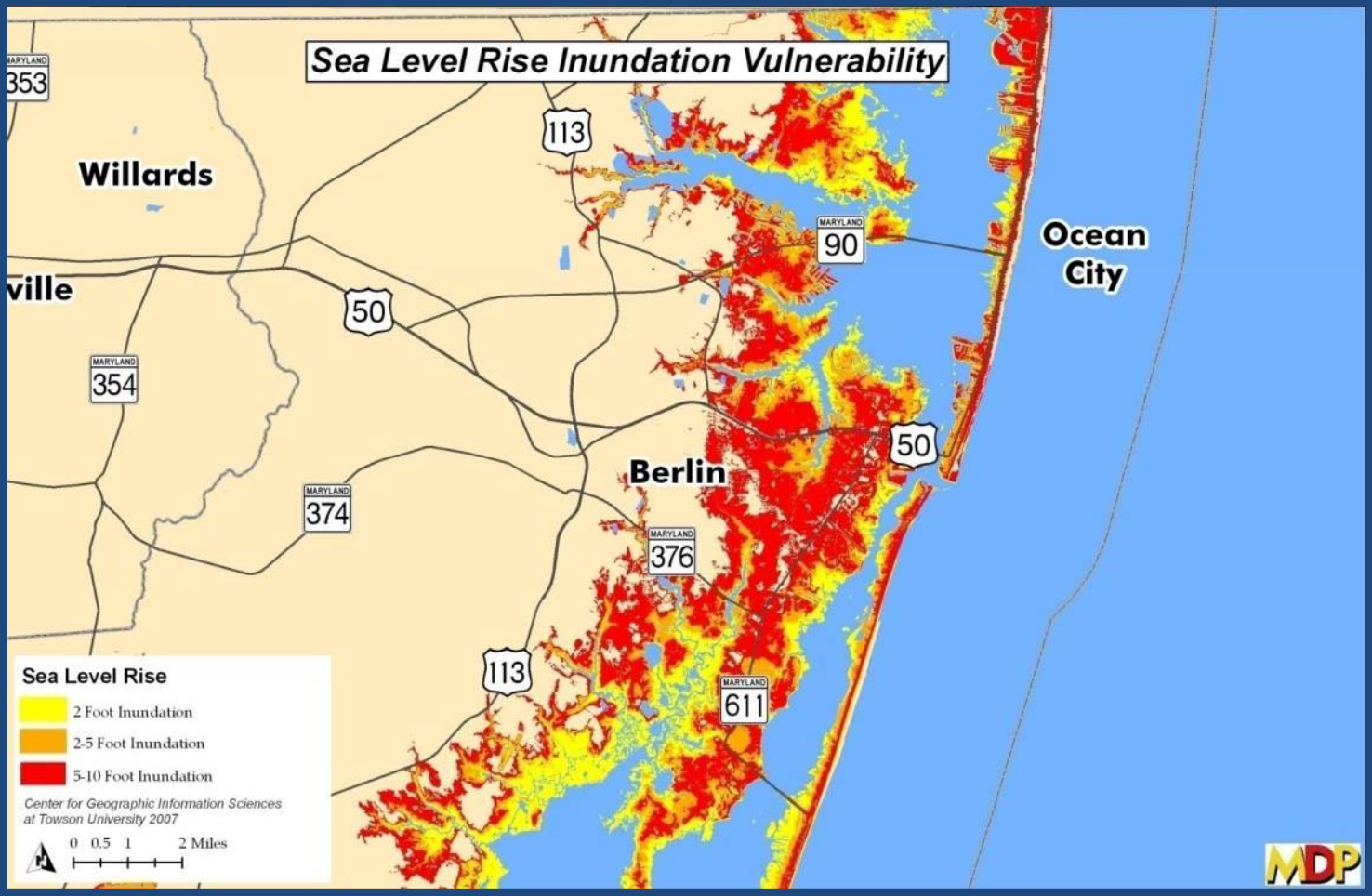


Figure 1. Rates of sea-level rise in Chesapeake and Delaware Bays region. Data are from tide gauges and the period of time they cover is in parentheses.

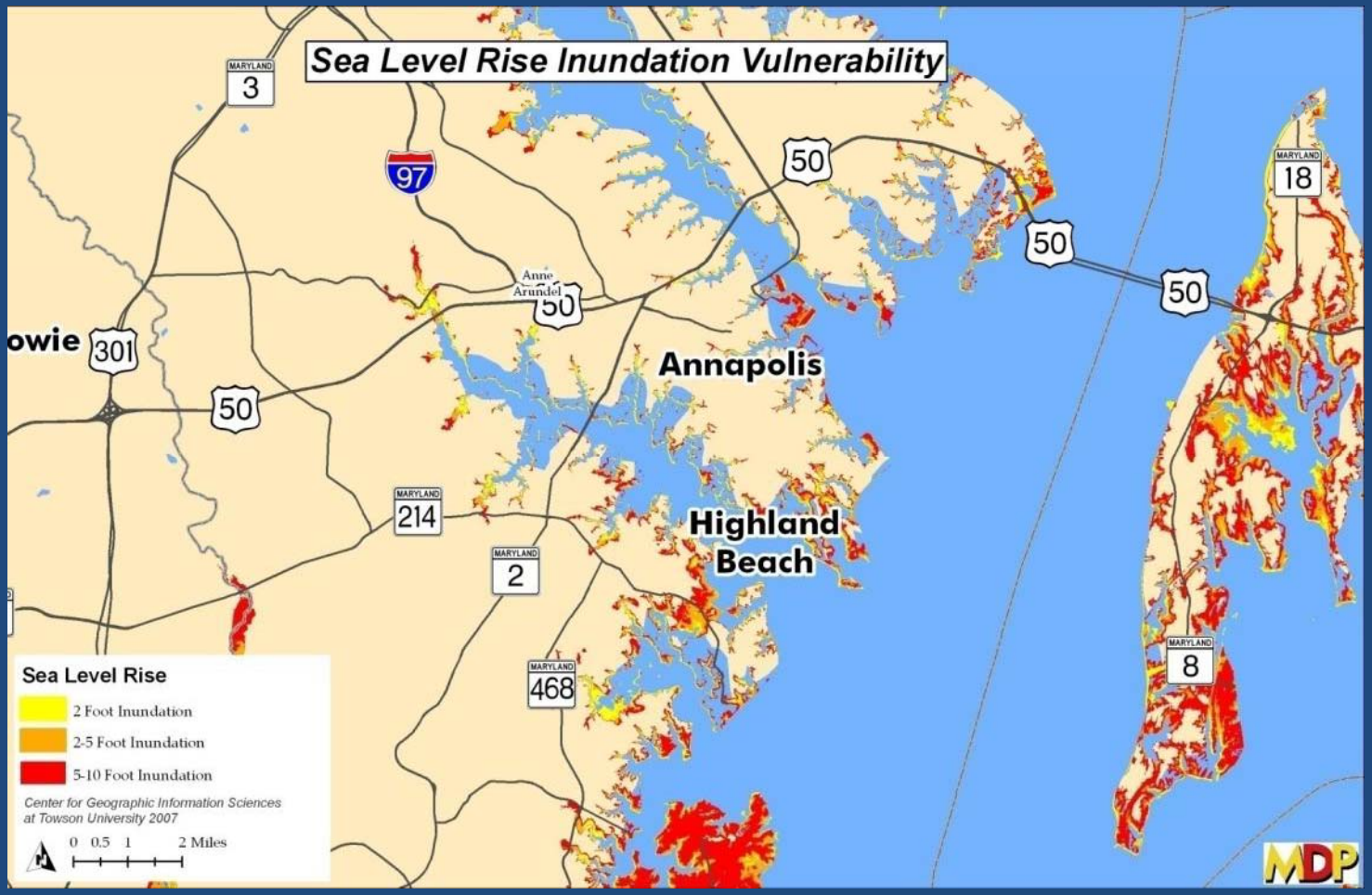
Maryland's Sea-Level Rise Vulnerability



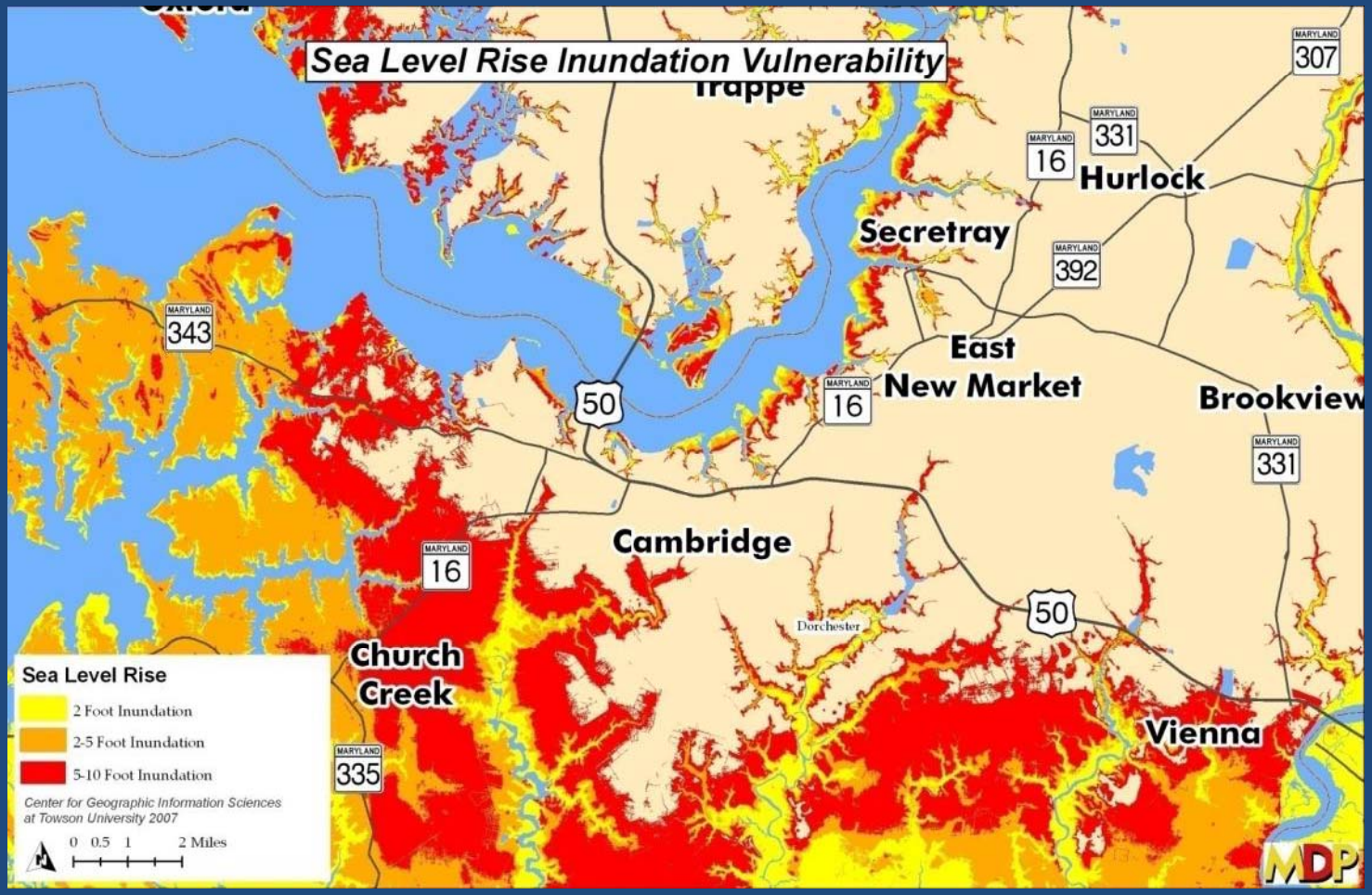
Ocean City/Worcester County



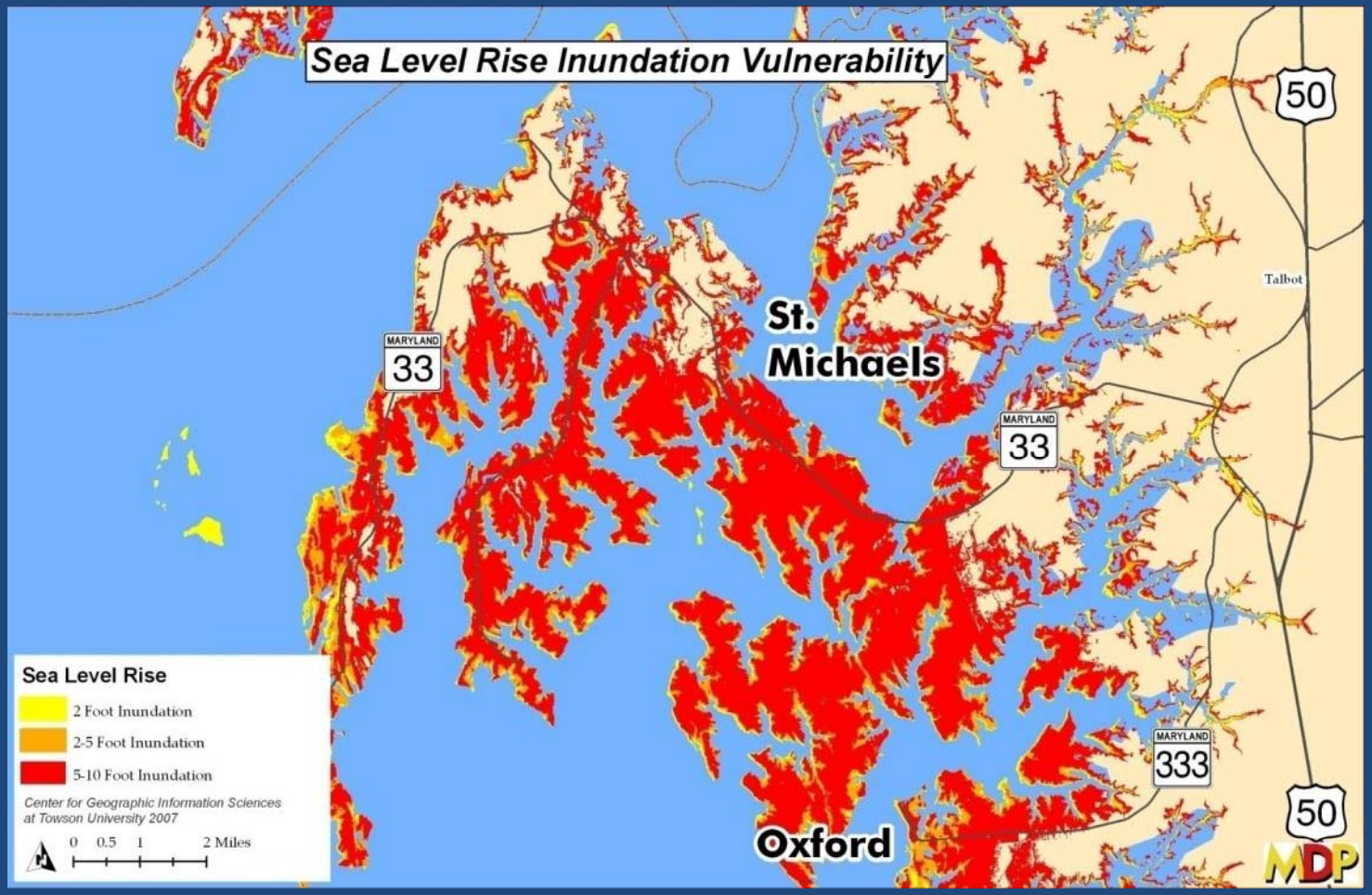
Annapolis


Sea Level Rise Inundation Vulnerability
MARYLAND 3
97
50
50
50
50
MARYLAND 18
Anne Arundel
owie
301
50
Annapolis
MARYLAND 214
MARYLAND 2
Highland Beach
MARYLAND 468
MARYLAND 8
Sea Level Rise
2 Foot Inundation
2-5 Foot Inundation
5-10 Foot Inundation
Center for Geographic Information Sciences at Towson University 2007
0 0.5 1 2 Miles
MDP

Cambridge/Dorchester County



St. Michaels


Sea Level Rise Inundation Vulnerability
St.
Michaels
Oxford
Talbot
MARYLAND
33
MARYLAND
33
MARYLAND
333
50
50
Sea Level Rise
2 Foot Inundation
2-5 Foot Inundation
5-10 Foot Inundation
Center for Geographic Information Sciences
at Towson University 2007
0 0.5 1 2 Miles
MDP

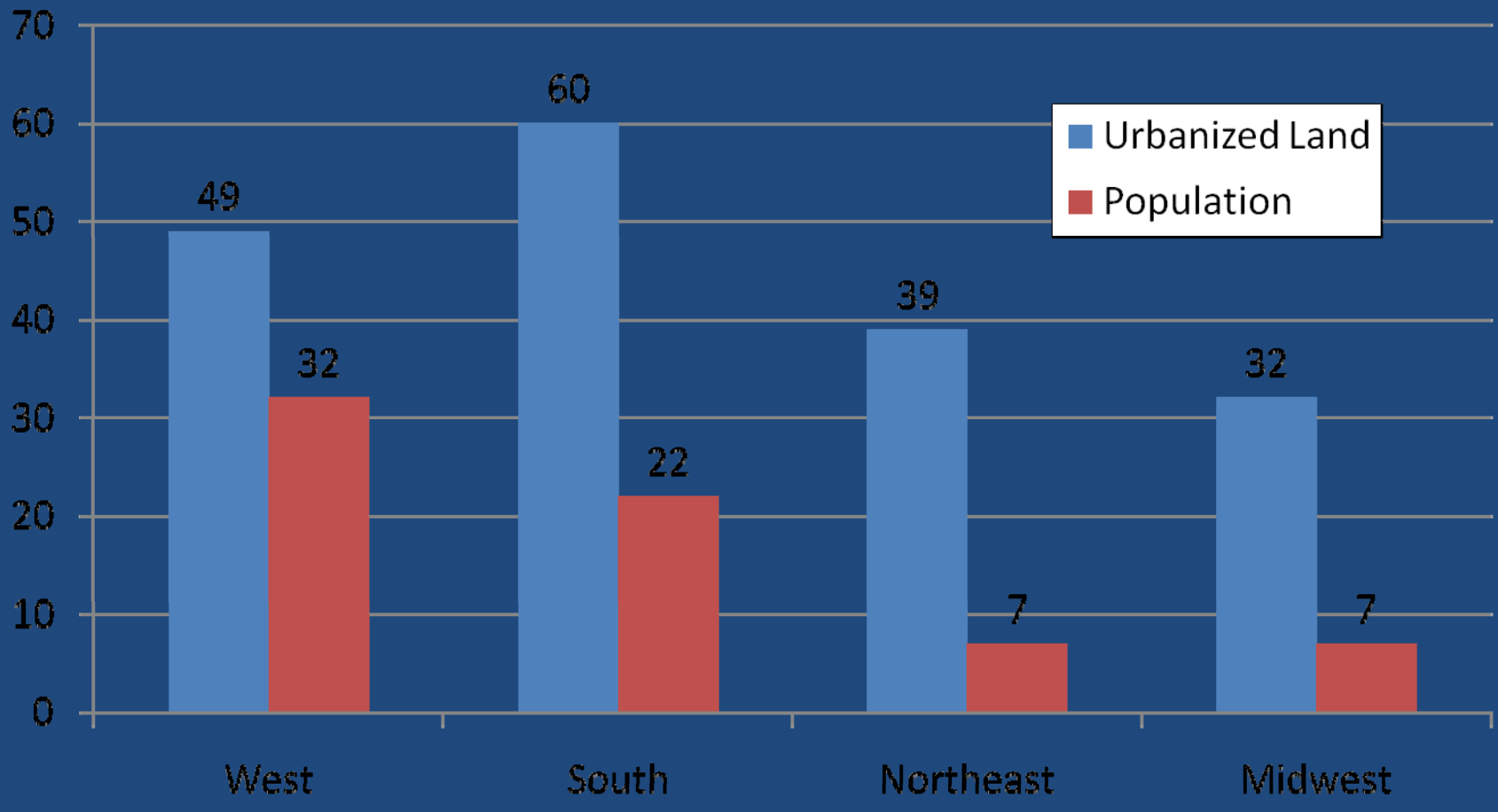
Maryland's CO_2 Emissions

- 109 million metric tons of CO_2 annually
- 1.5% of total U.S. GHG emissions
- Three principal sources:
  - Electricity generation – 41%
  - Transportation – 31% (mostly motor vehicles)
  - Residential/Commercial/Industrial Fuel Use – 11%

Maryland's Transportation GHG Emissions

- From 1990 to 2005
  - Transportation GHG Emissions increased 34%
  - Population increased 17%
  - Total VMT increased 40%
- Growth in driving in Maryland is largely due to sprawl development

Growth of Population and Urbanized Land Area between 1982 and 1997



From Growing Cooler. Reid Ewing et al. 2008.

Maryland Climate Action Plan

- Reduce Maryland's GHG Emissions by 25 to 50 percent by 2020, 90 percent by 2050
- Return VMT per capita to 2000 levels by 2020, then reduce further by 50 percent by 2050

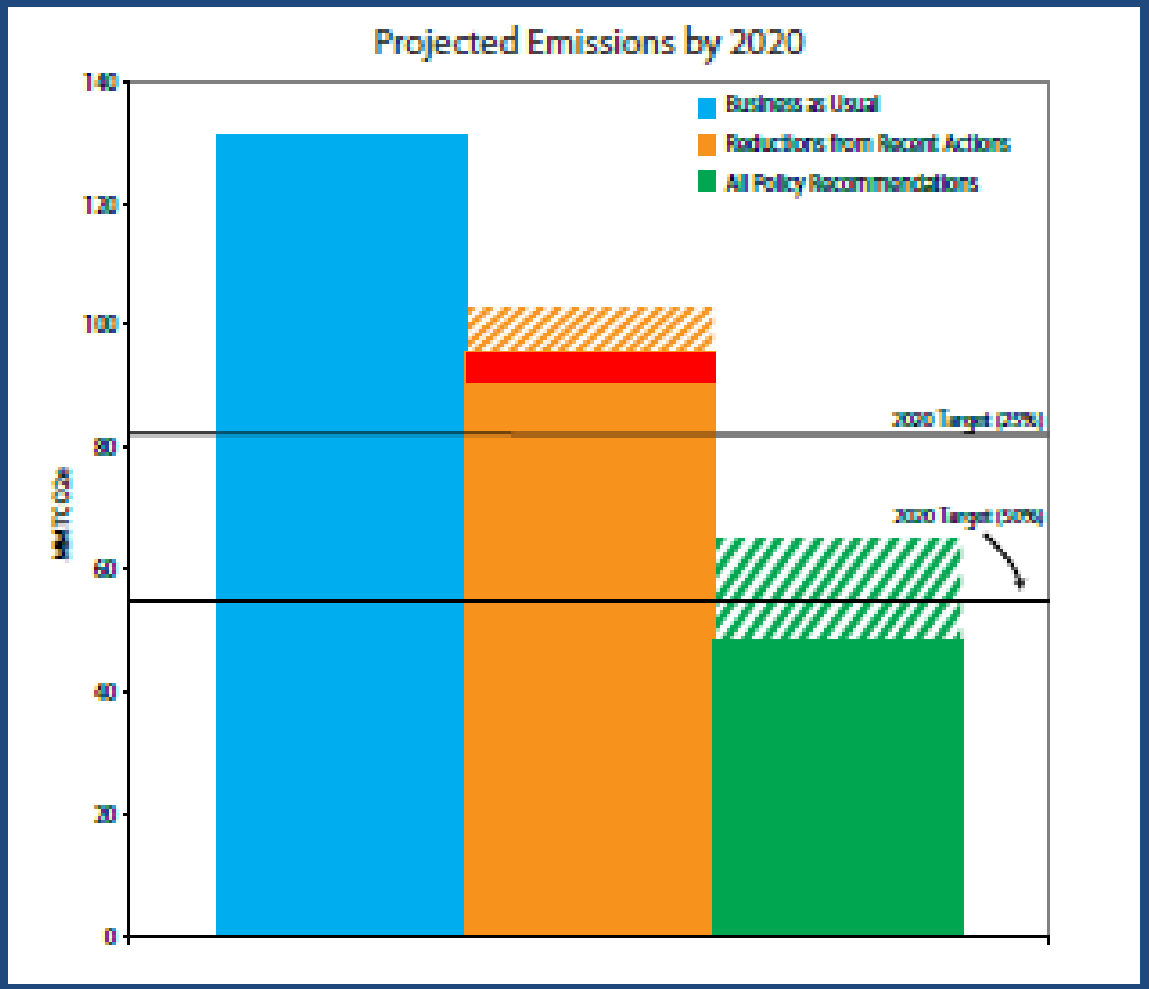
Legislative Action to Implement Plan

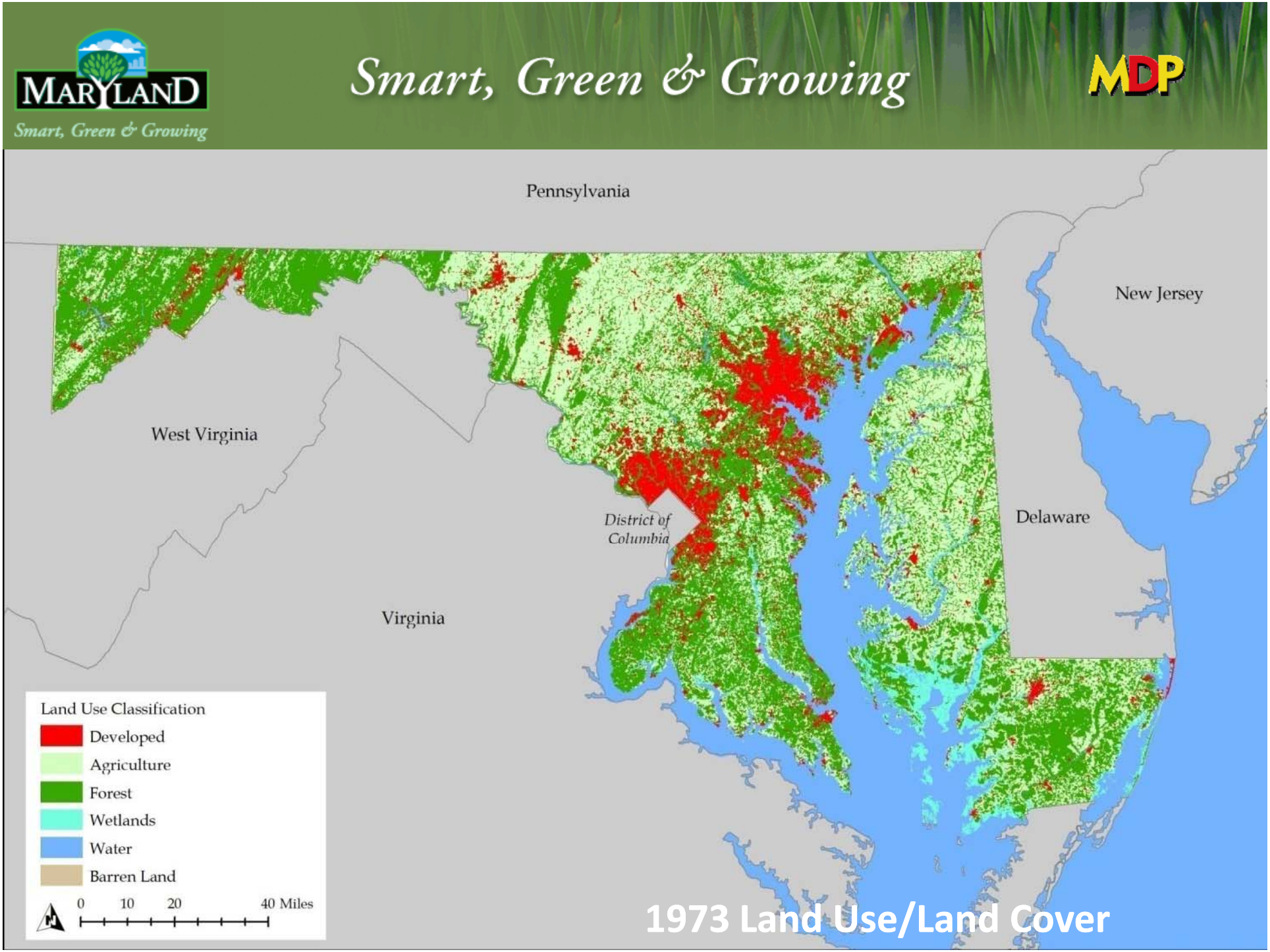
- Transit-Oriented Development
  - SB204 (2008)
    - Establishes TOD as a transportation purpose
  - SB274 (2009)
    - Tax-increment financing, special taxing districts
- Regional Cap-and-Trade
  - RGGI (Healthy Air Act – 2007)
- Green Building, Renewable Energy, Fuel-Efficient Vehicles

2009 session - SB278/HB315

- Sets a 25% GHG reduction goal by 2020 (from 2006 levels) for Maryland
- MDE must complete a final GHG reduction plan by December 2012 which must demonstrate that it will achieve the 25% GHG reduction goal
- Overall, will likely be based largely on the Maryland Climate Action Plan recommendations, including transportation and land use

Impact of Smart Growth Strategy

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Pennsylvania
New Jersey
West Virginia
District of Columbia
Delaware
Virginia
Land Use Classification
Developed
Agriculture
Forest
Wetlands
Water
Barren Land
0 10 20 40 Miles
1973 Land Use/Land Cover

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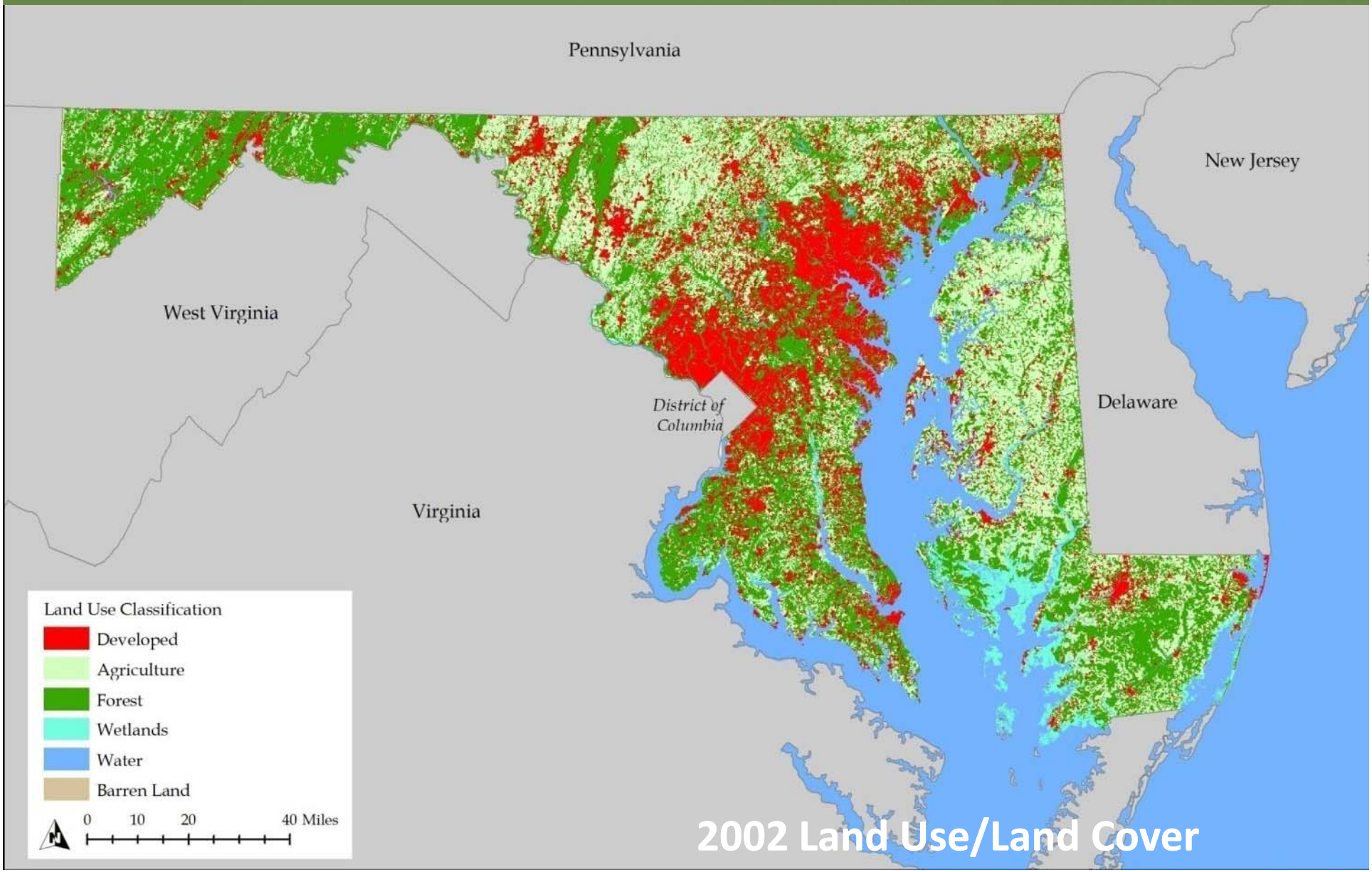

2002 Land Use/Land Cover

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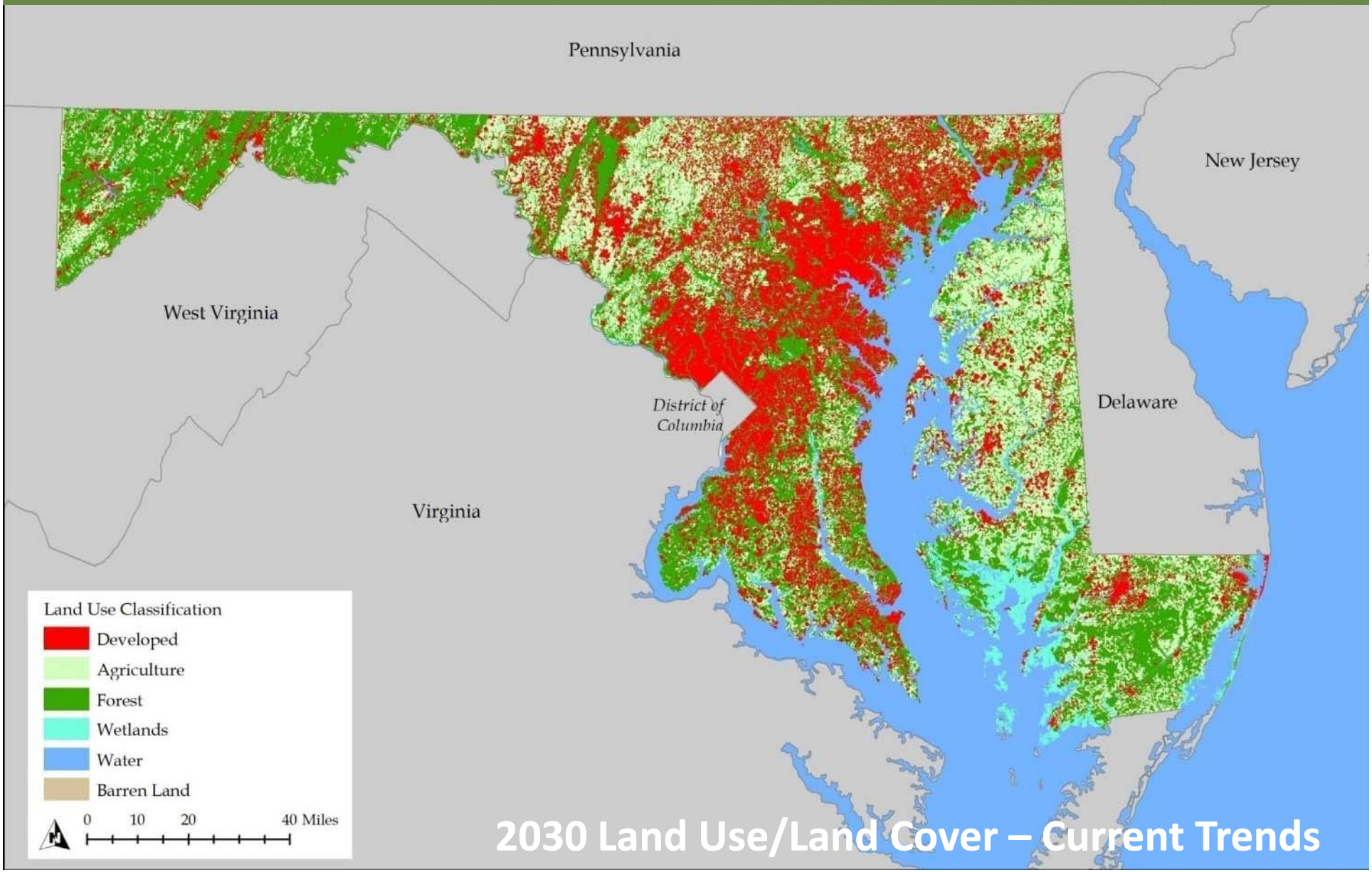

2030 Land Use/Land Cover – Current Trends

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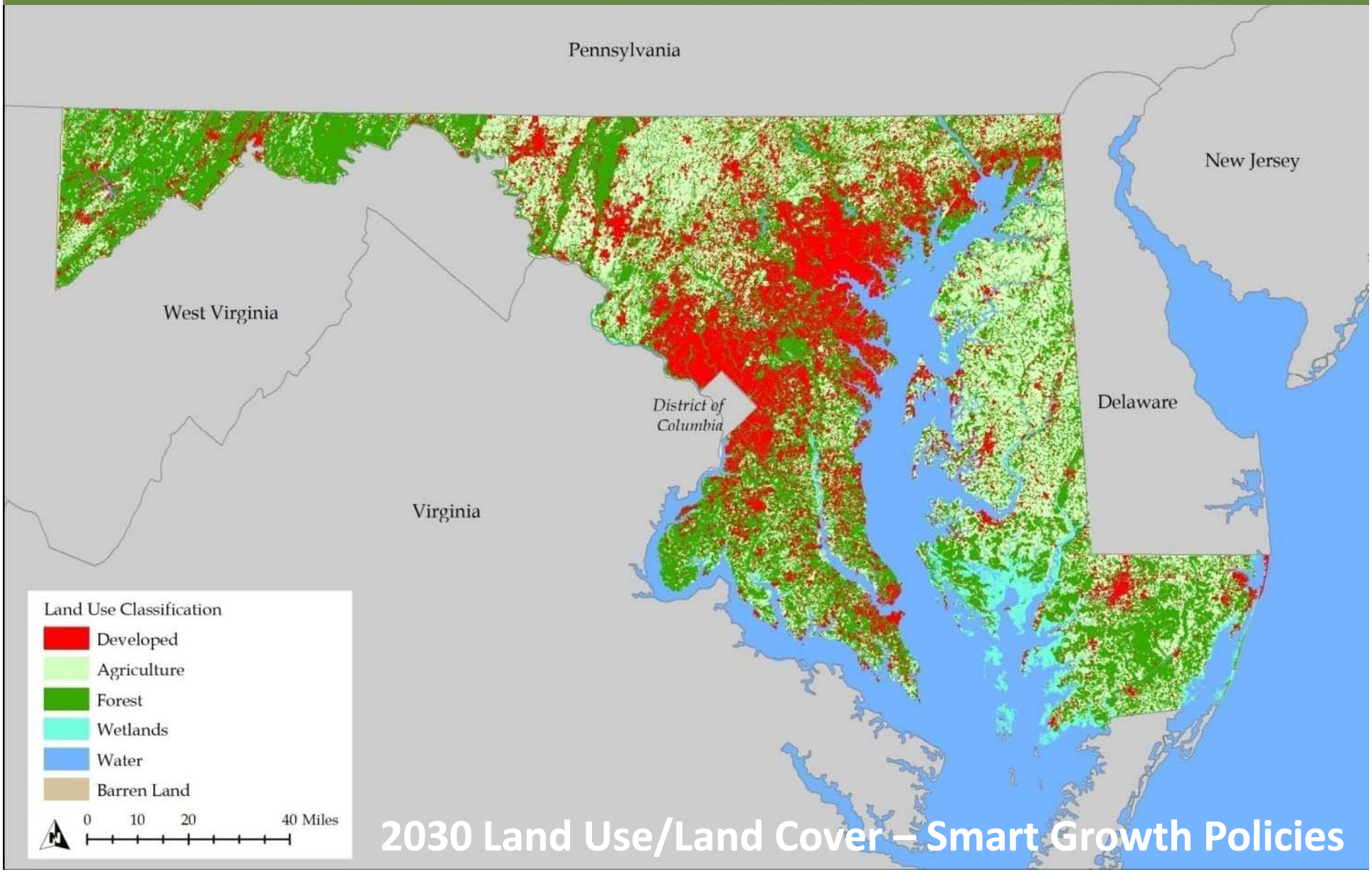
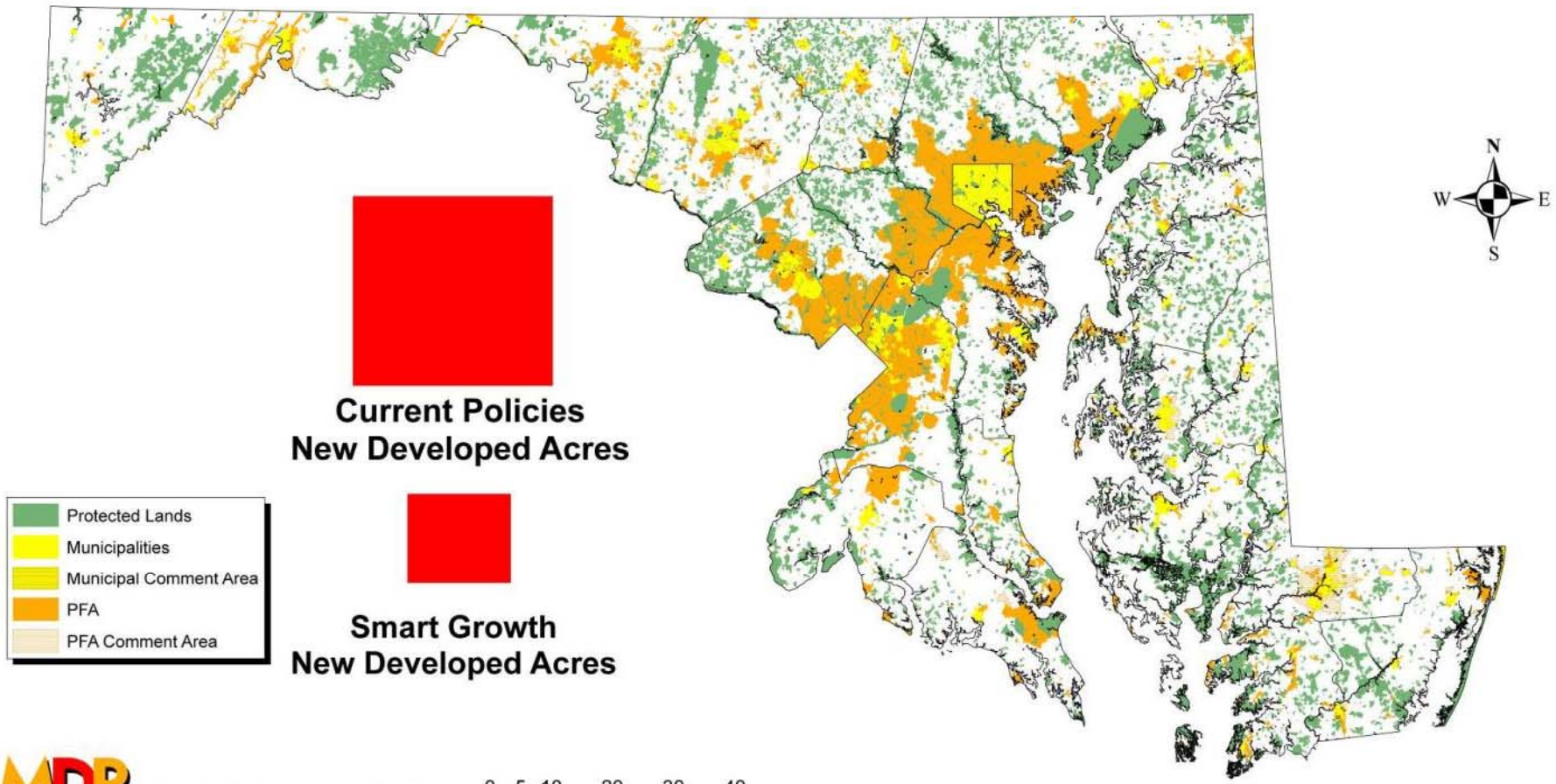


2030 Land Use/Land Cover – Smart Growth Policies

Maryland Priority Funding Areas / Protected Lands and New Potential Developed Acres by 2030



Maryland's Future Transportation GHG Emissions

	CURRENT TRENDS (2030)	SMART GROWTH (2030)	% DIFFERENCE
POPULATION GROWTH	1 million more people	1 million more people	same
LAND DEVELOPMENT	560,269 acres consumed	163,244 acres consumed	71% less
AUTOMOBILE DRIVING	13,175 VMT per capita	9,610 VMT per capita	27% less
TRANSPORTATION GHG EMISSIONS	57% increase above 2006 levels	14% increase above 2006 levels	75% less

Where do we go from here?

- Maryland's current smart growth policies and programs
  - Priority Funding Areas
  - Land Protection
  - Visions
  - Indicators
  - Local Planning Requirements
  - TOD
  - Other agency programs (DHCD, MHT, MDOT)

Where do we go from here?

- Additional Policies and Programs to Consider in Maryland
  - Climate Action Plan recommendations
    - MDOT implementation committee
  - State Development Plan
  - State Legislative Proposals
  - “Growing Cooler” recommendations

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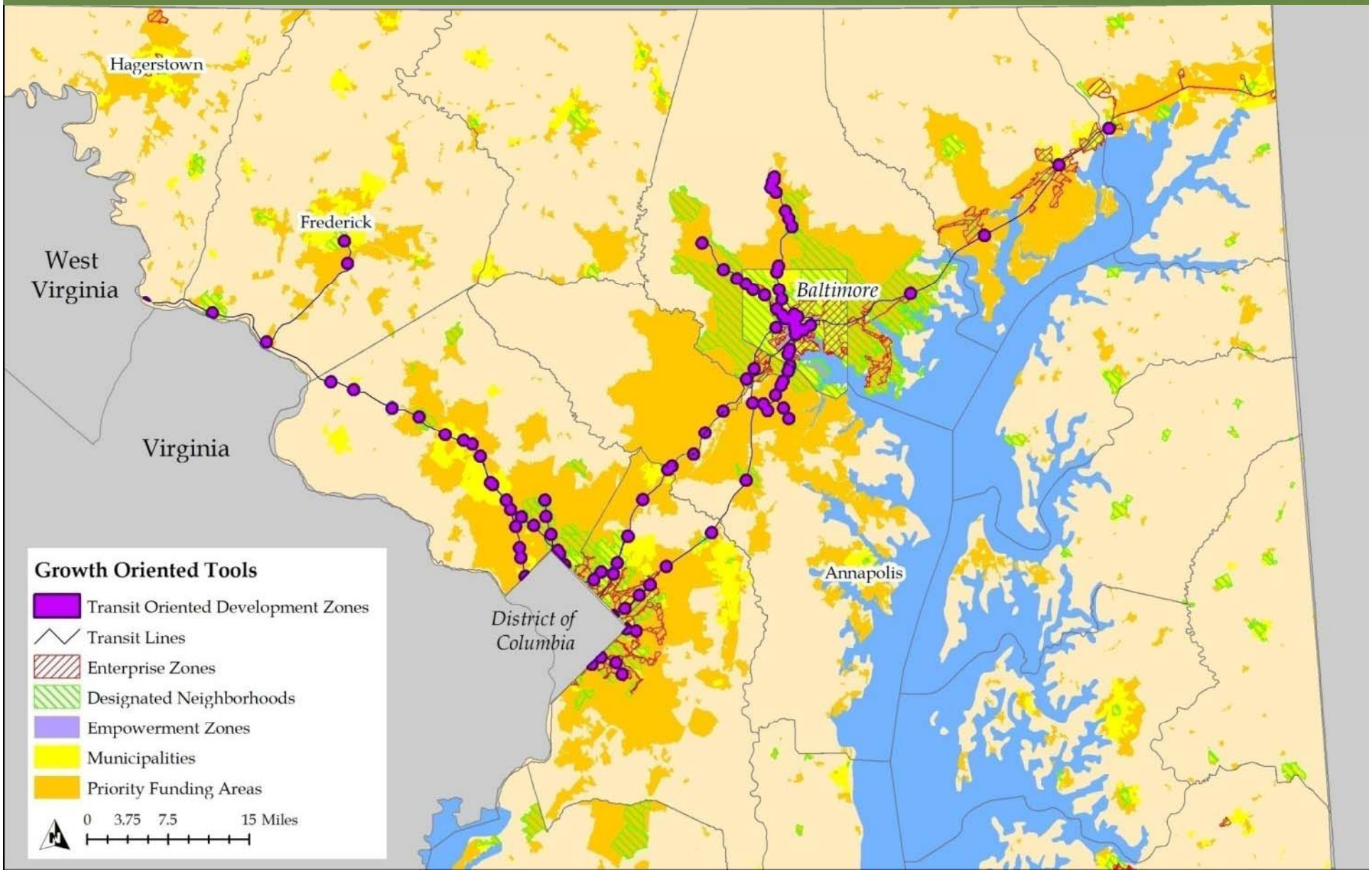

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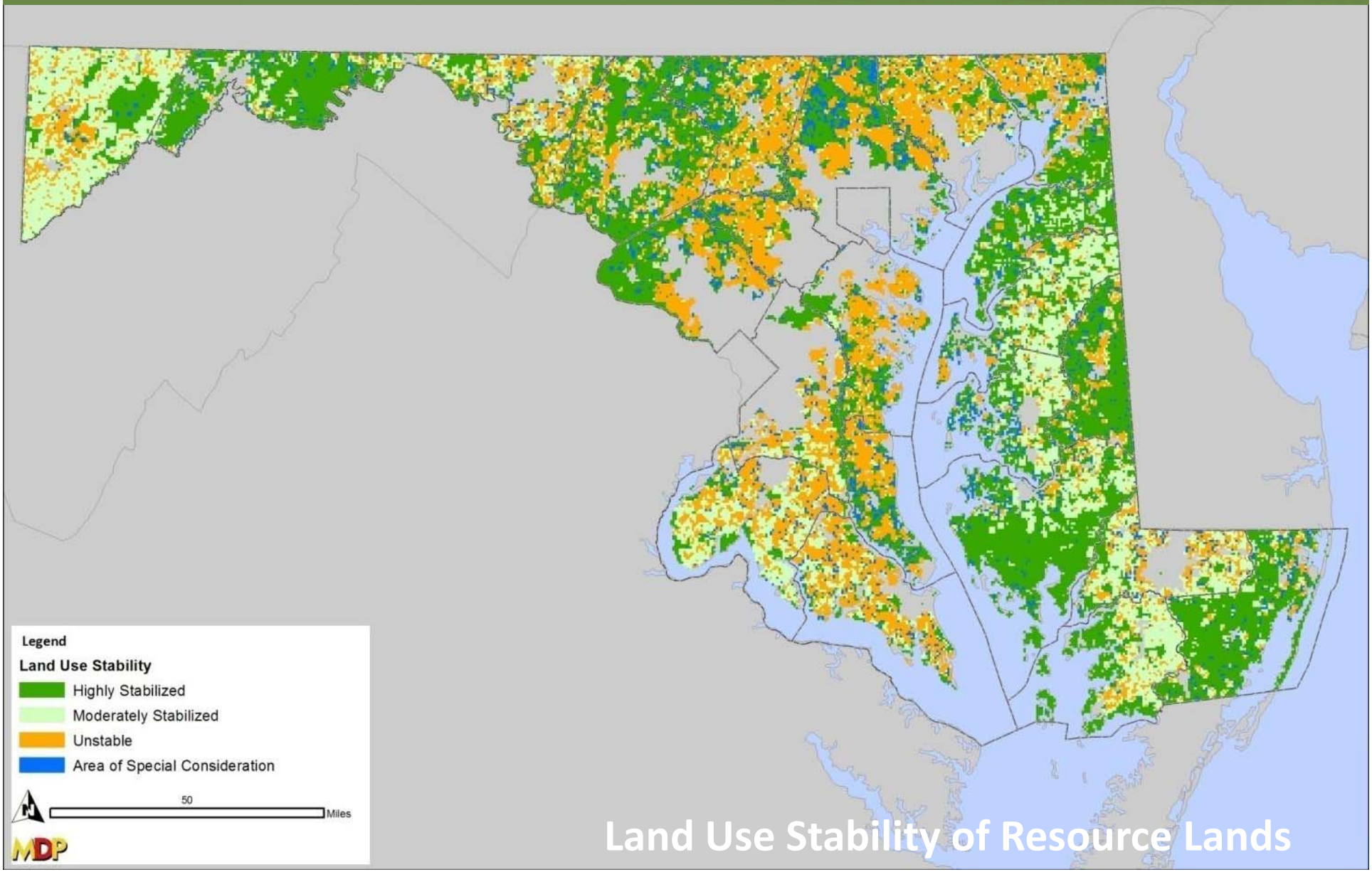

Land Use Stability of Resource Lands