## FORECASTING IN MARYLAND

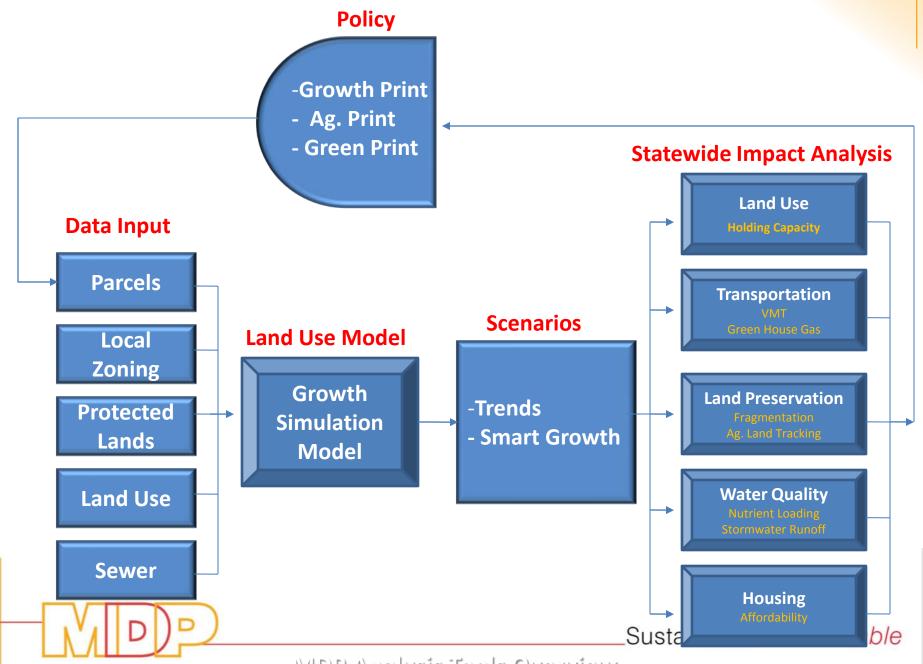
Stephanie Martins, AICP
Maryland Department of Planning
September 16, 2013



## MDP's GROWTH MODEL

- Been in existence since 1990s
- Several significant enhancements over the years
- Important tool for state policy and legislative implementation
- Used for local technical assistance
- Creates ability to analyze impacts to water quality, transportation, and fiscal impact.

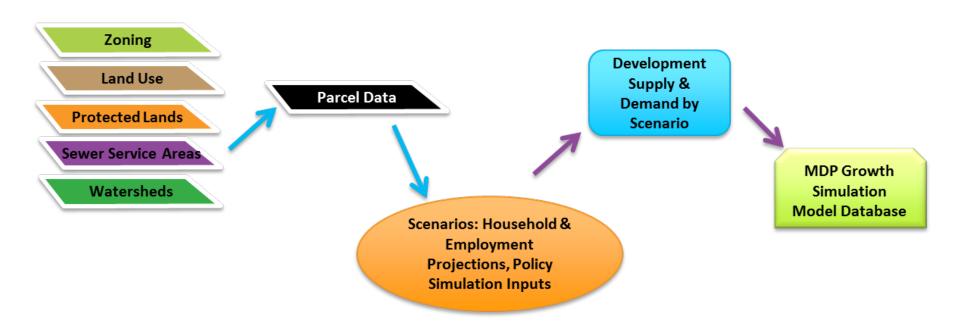




IMDP Analysis Tools Overview

## MDP GROWTH MODEL

MDP Growth Simulation Model





## MDP'S GROWTH MODEL

- Estimates land use change using population, household, and employment projections.
- Estimates development capacity based on local programs and policies.
- COG projections or a proportion of recent growth for non-COG jurisdictions by watershed are used to determine future growth allocation.





## MDP's GROWTH MODEL:

- Incorporates detailed local data and information
- Is scalable
- Is customizable
- Is not an off-the-shelf software package
- Considers a 25-30 year planning horizon
- Does not consider all site constraints or infrastructure constraints



# RELATIONSHIP WITH LOCAL GOVERNMENTS

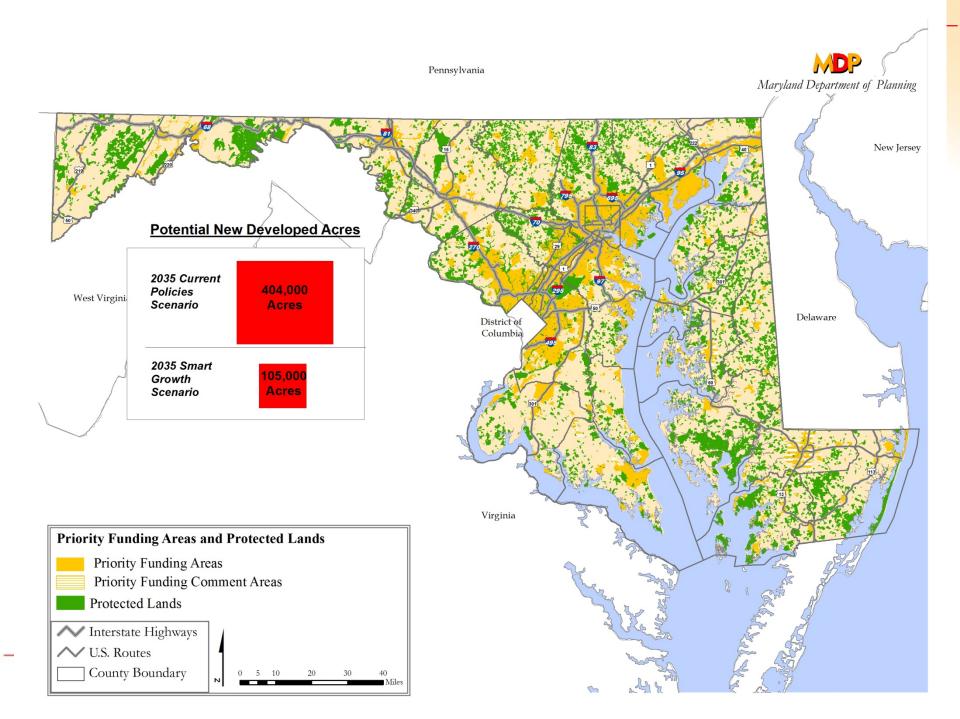
- Relies on local government partnerships for some data (i.e. zoning, sewer service).
- Many of MDP's analysis assumptions are customized for local governments (i.e. realized density yields).
- Analysis is strengthened with local govt. input and ground-truthing.

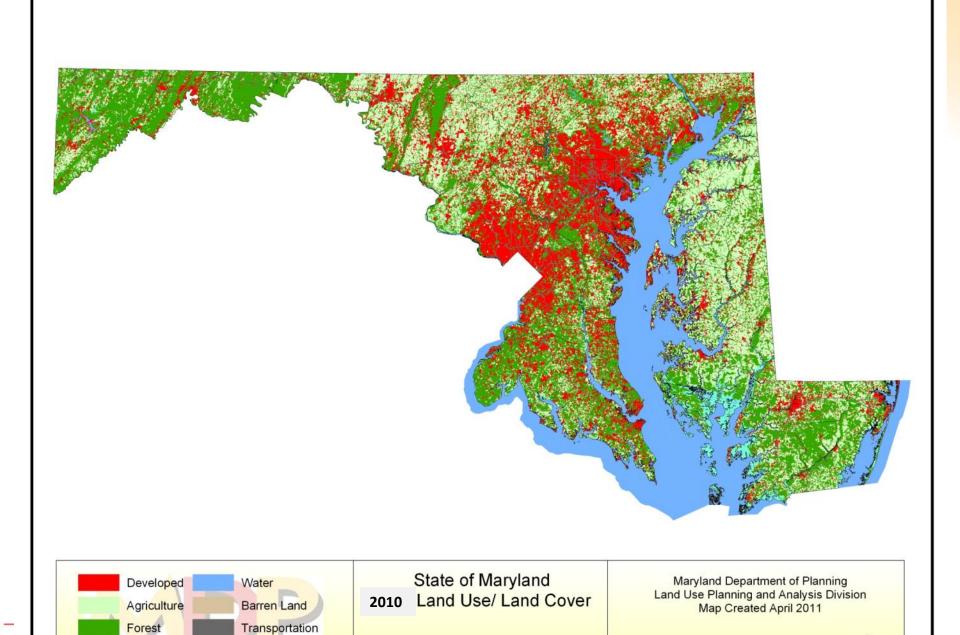




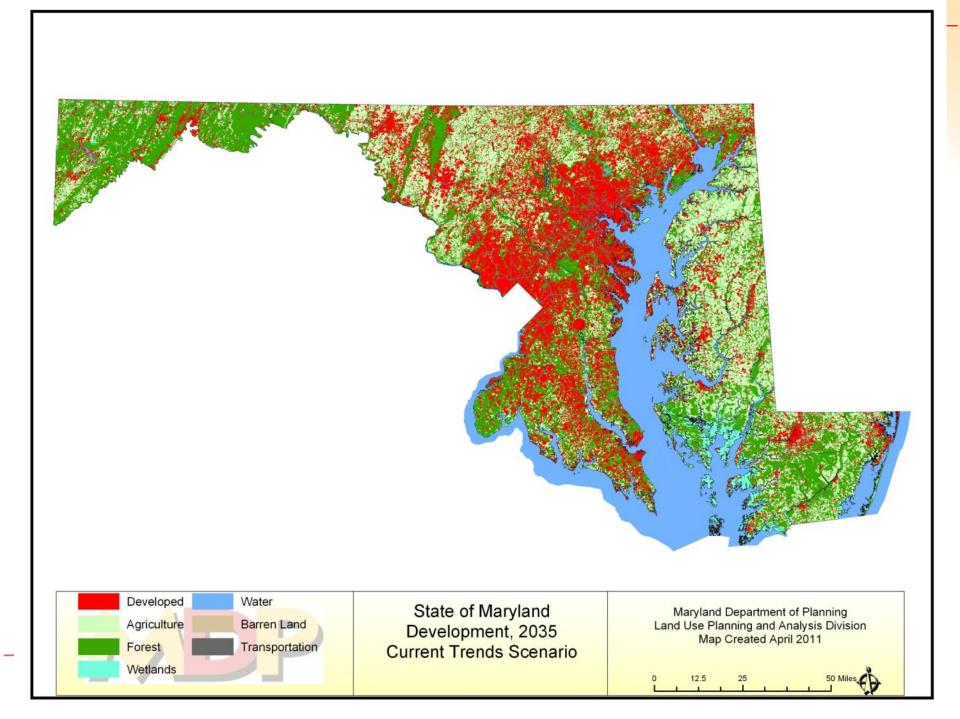
## **GROWTH MODEL OUTPUT**

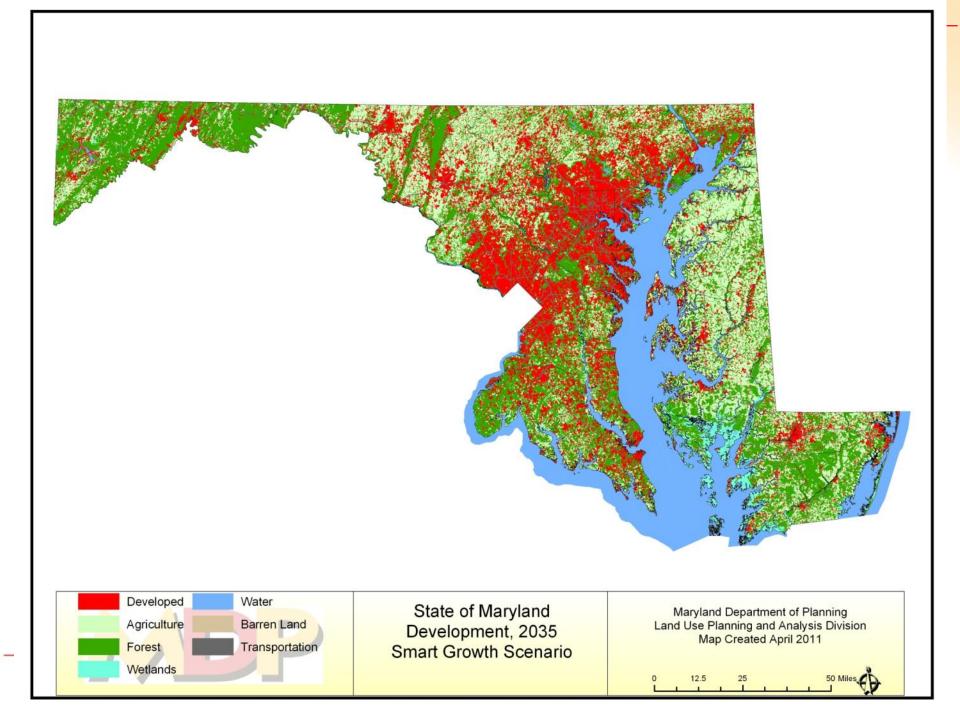


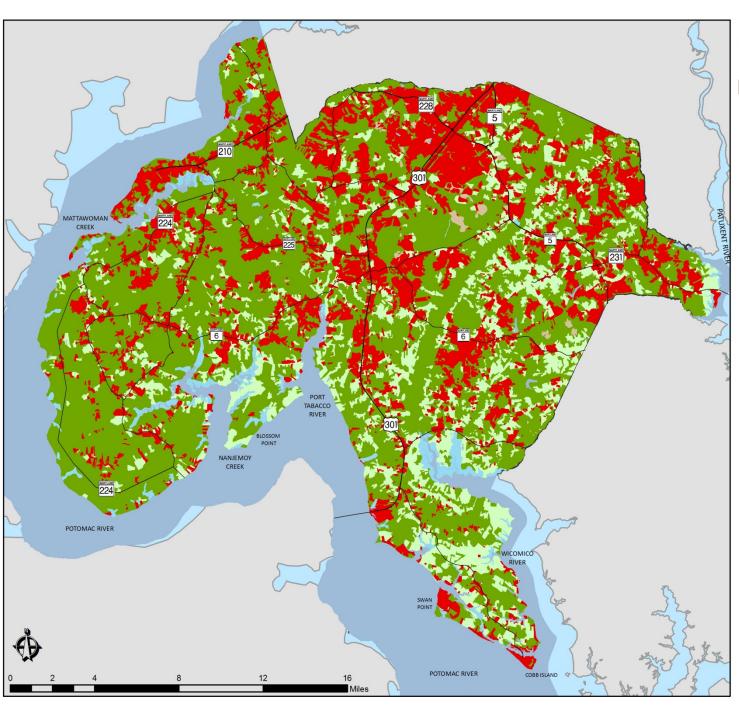




Wetlands

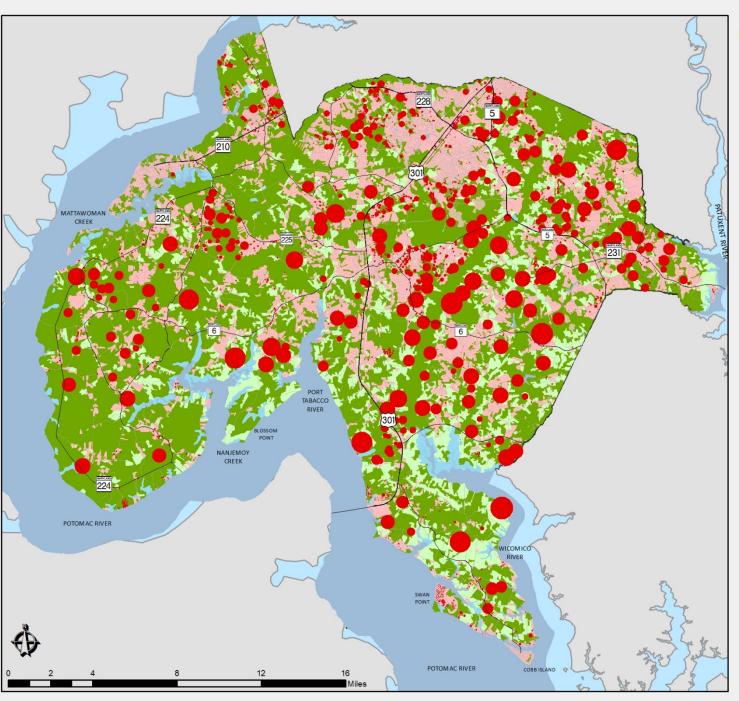






#### Charles County: Land Use Land Cover 2010

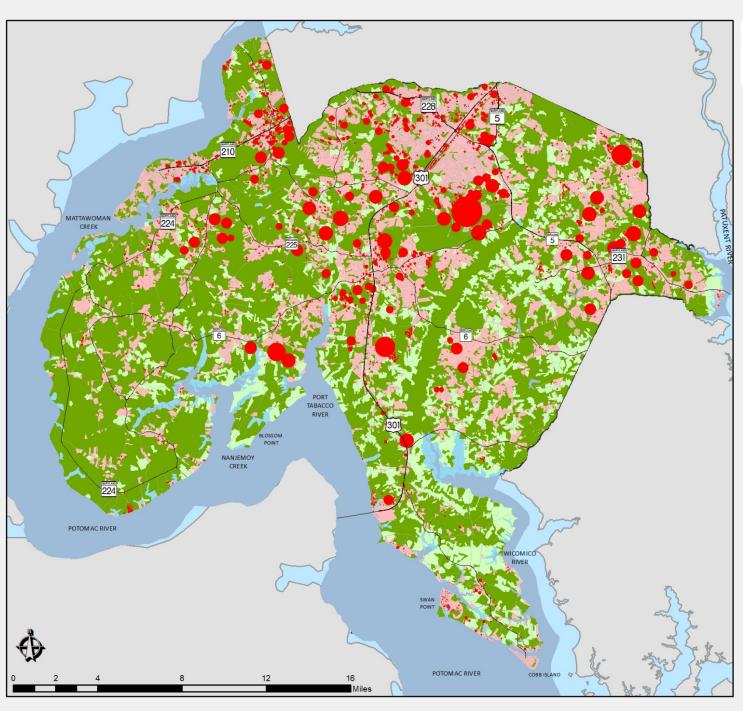




#### Charles County: Current Trends Scenario



Under the proposed comprehensive plan, a pattern of sprawl development would continue in Charles County.



## Smarter Growth Scenario



### Potential New Developed Acres, 2010-2040 by Scenario

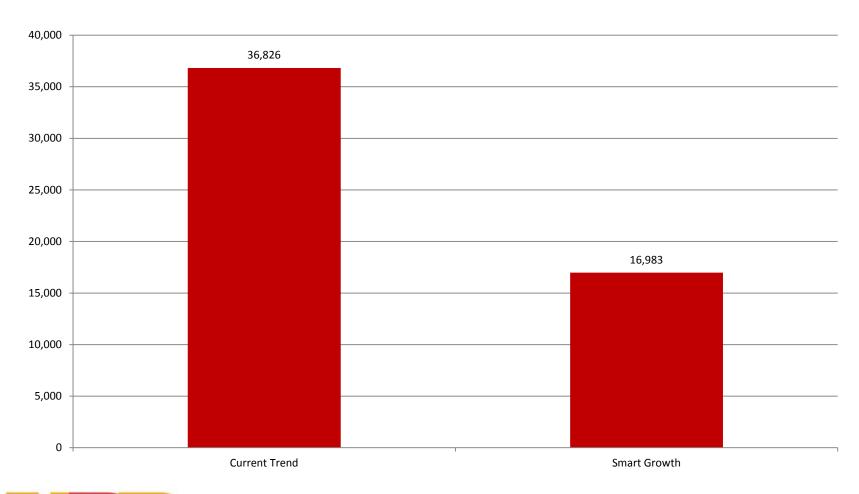
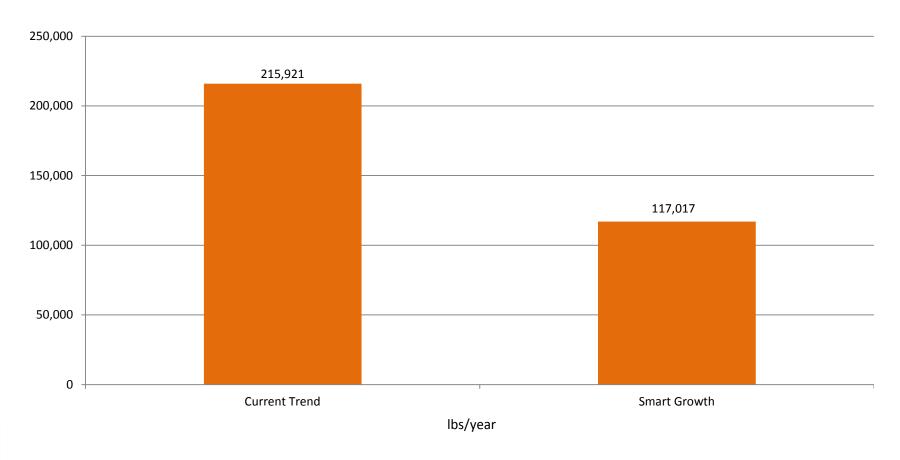


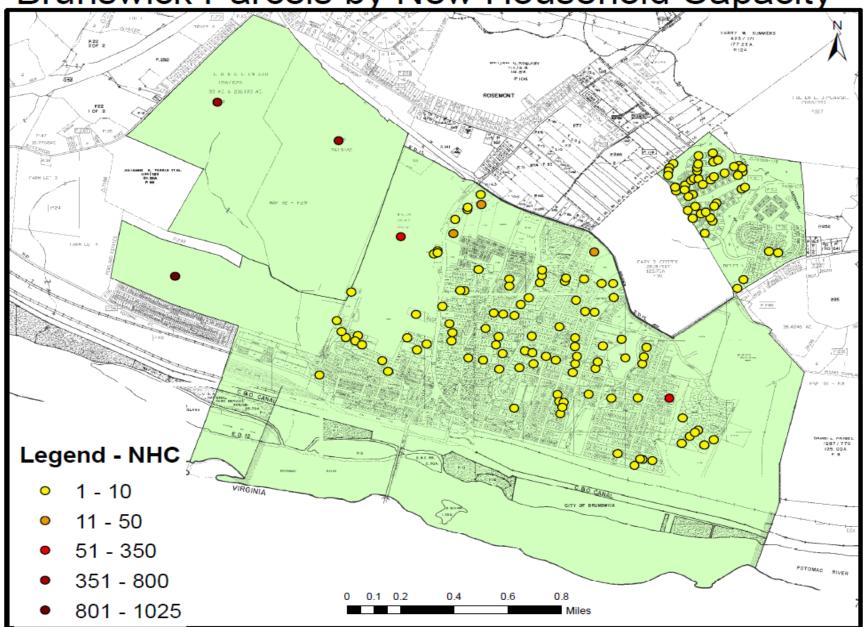


Chart 7: New Non-Point Source Nitrogen Loading from Development, 2010 – 2040





Brunswick Parcels by New Household Capacity



## **NEXT STEPS**

- Incorporate parcel polygon data
- Improve process for allocation of growth to parcels
- Incorporate redevelopment
- Incorporate impact of the septic law



## QUESTIONS?

