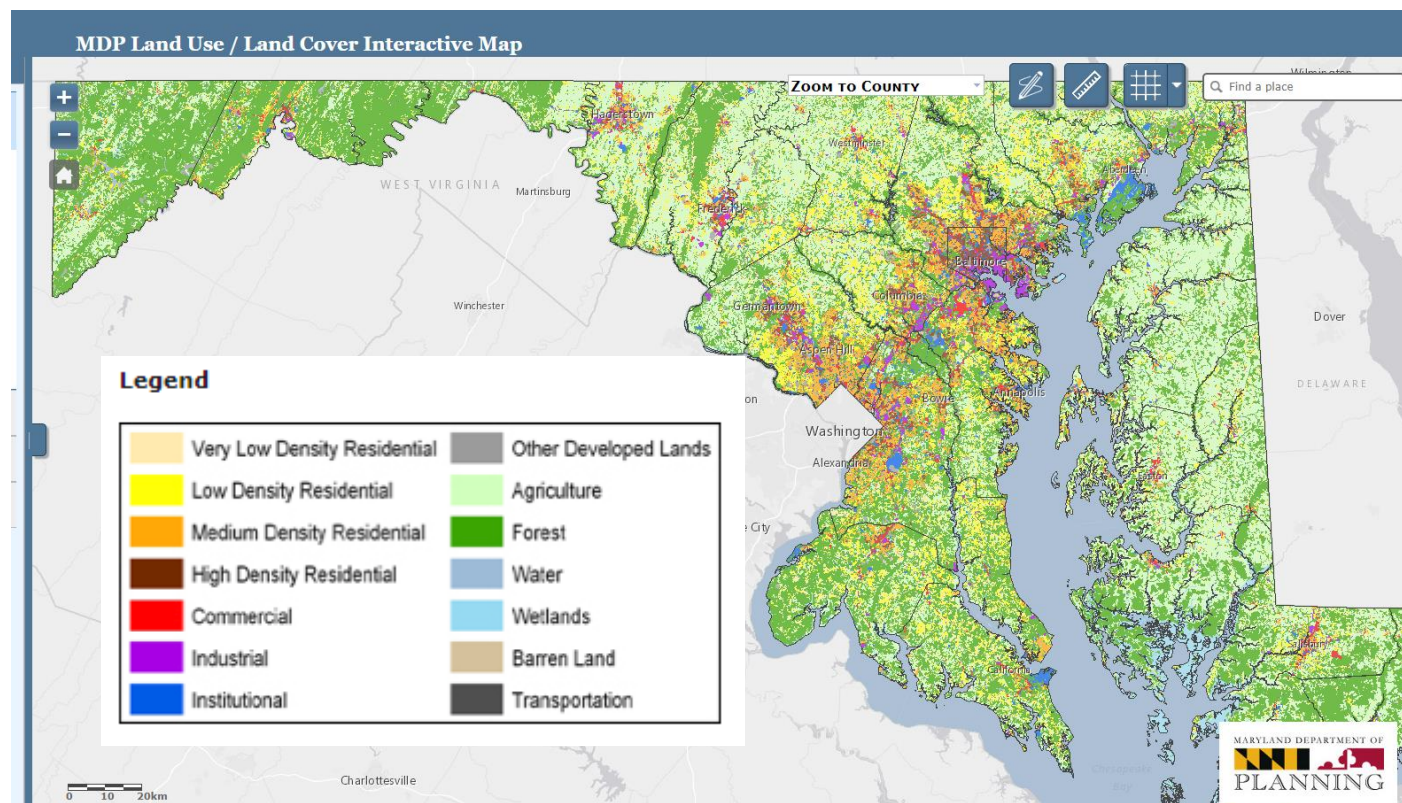# MARYLAND STATEWIDE LAND USE MAP UPDATE

Deborah Sward

Geospatial Data & Analysis Unit

March 20, 2024

2010 LAND USE LAND COVER PRODUCT

Webpage: https://planning.maryland.gov/Pages/OurWork/landuse.aspx
Data Download: https://planning.maryland.gov/Pages/OurProducts/DownloadFiles.aspx

# HISTORICAL USES OF MDP'S LULC MAP

Planning Activity	Use
Comprehensive planning	Existing land use distribution Land use change
Pollutant loading analyses	Loading by land use
Development capacity, land preservation targeting, and land stability analyses	Where does development capacity or pressure exist?
Transportation planning	Trip generation/distribution NEPA Indirect and Cumulative Effects Analyses

HISTORICAL LAND USE CLASSIFICATIONS AND UPDATES

Urban/Developed Land Uses	Remaining Undeveloped Resource Land
Very Low Density Residential (< 0.2 du/ac) • Primarily Agriculture • Primarily Forest	Agriculture Forest Water Wetland Barren
Low Density Residential (0.2-2 du/ac)	
Medium Density Residential (2-8 du/ac)	
High Density Residential (>8 du/ac)	
Commercial	
Industrial	
Institutional	
Other Developed Lands • Transportation • Extractive • Open urban land	

Remove rural/undeveloped subclassifications

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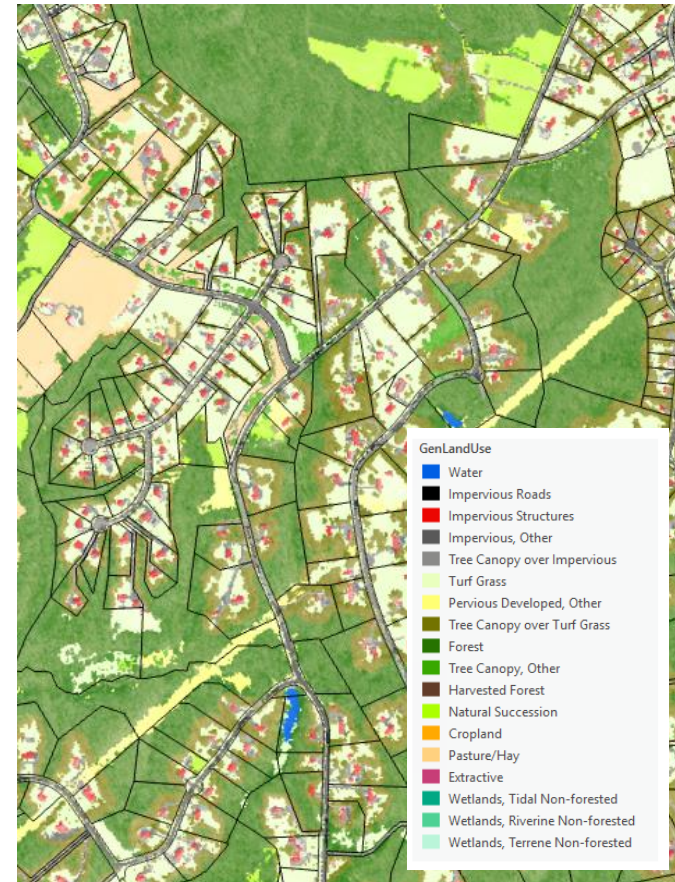DEPARTMENT OF PLANNING

LAND USE PRODUCT COMPARISON
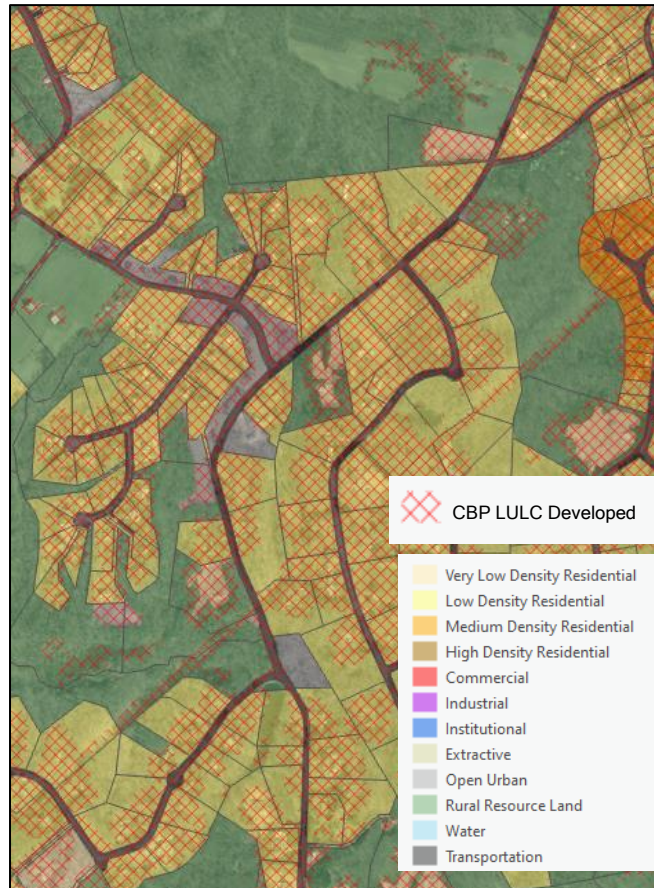
Draft Land Use (MDP)

Images show hypothetical example. Actual land uses may differ.

Land Use Land Cover
(Chesapeake Bay Program)

METHODOLOGY

Inputs:
- GIS parcel polygons and tax assessment data
- Chesapeake Bay Program High-Resolution LULC (CBP LULC)
- County/municipal data, 2010 MDP LULC map, and other ancillary data

Key Updates:
- Automate and standardize
- Reduce generalization
- Include entire roadway network within transportation classification
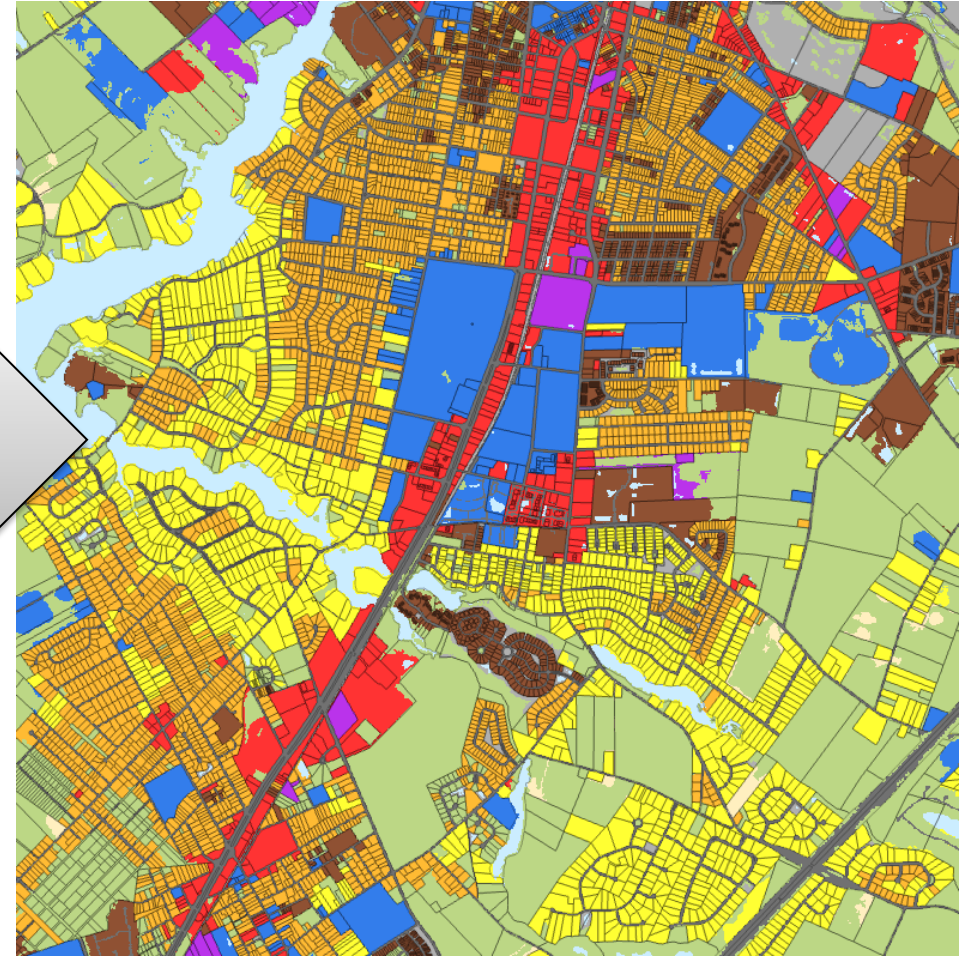
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STEP 1: CLASSIFY DEVELOPED PARCELS

- Parcels with urban improvements associated with structures or impervious surfaces as of 2018
- Parks/open spaces
- Extractive areas

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STEP 2: GENERATE STATEWIDE LAND USE MAP
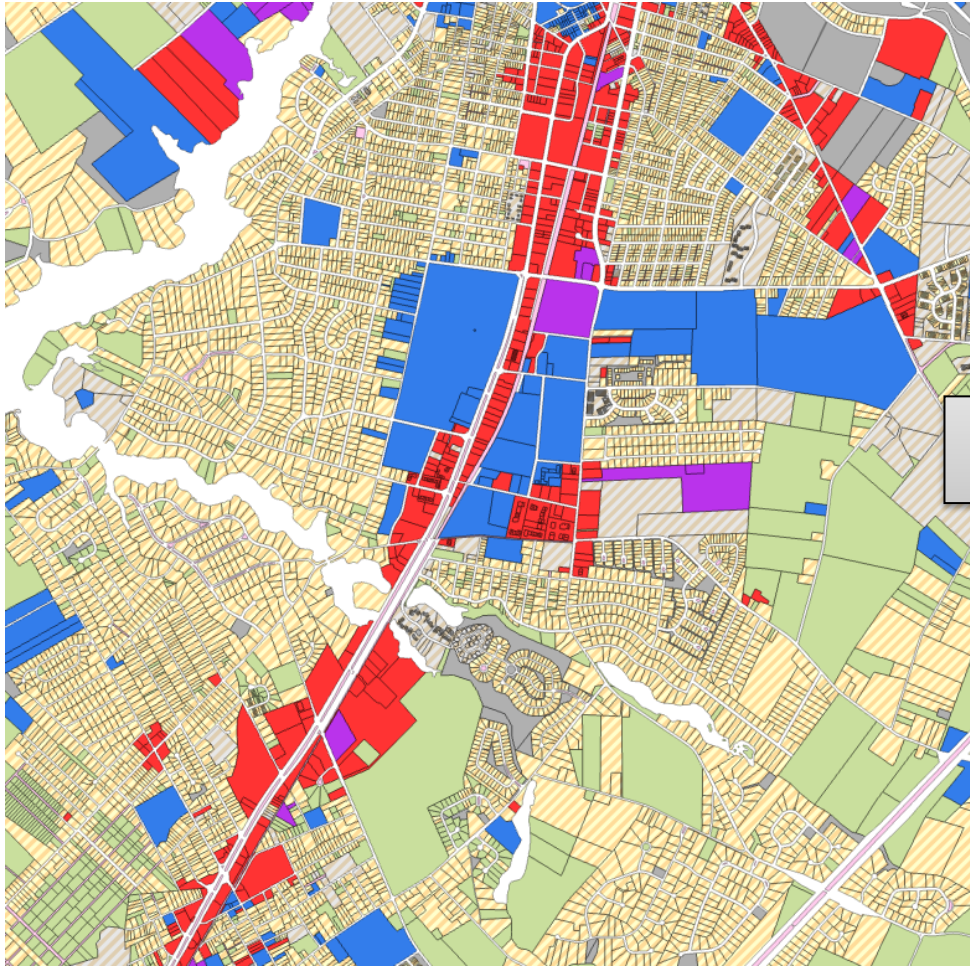
Step 1: Classified Parcels

Step 2: Statewide Land Use Map

Images show hypothetical example. Actual land uses may differ.

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DETERMINE DEVELOPED EXTENT

Very Low Density Residential
Low Density Residential
Medium Density Residential
High Density Residential
Commercial
Industrial
Institutional
Extractive
Open Urban
Rural Resource Land
Water
Transportation

Images show hypothetical example. Actual land uses may differ.

Planning.Maryland.gov
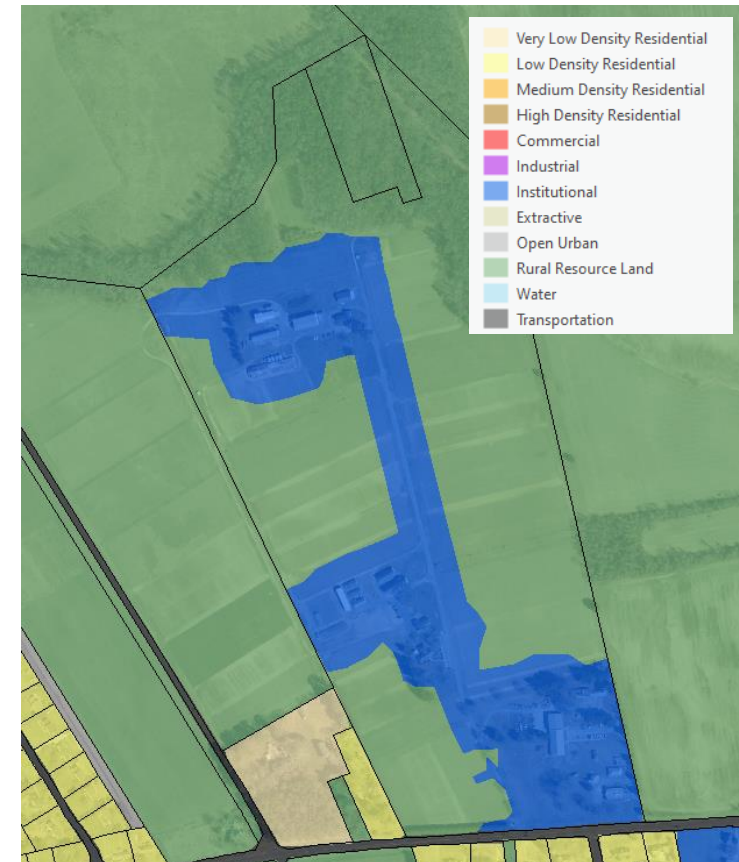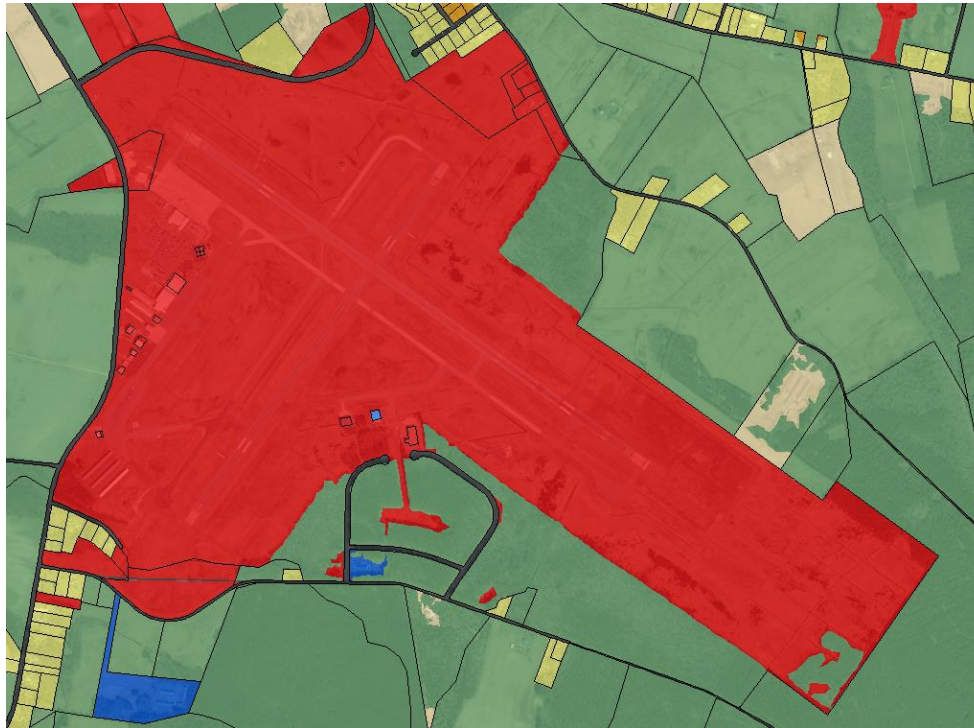
Next Steps & Future Considerations

Next Steps:

- Integrate feedback from local jurisdictions
- Release beta version for public use and feedback (not comparable to 2010 LULC)

For Future Exploration:

- Data maintenance procedures
- Solar, extractive, and mixed use
- Change over time

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THANK YOU

Please feel free to reach out with feedback or questions!

Deborah Sward

deborah.sward@maryland.gov

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