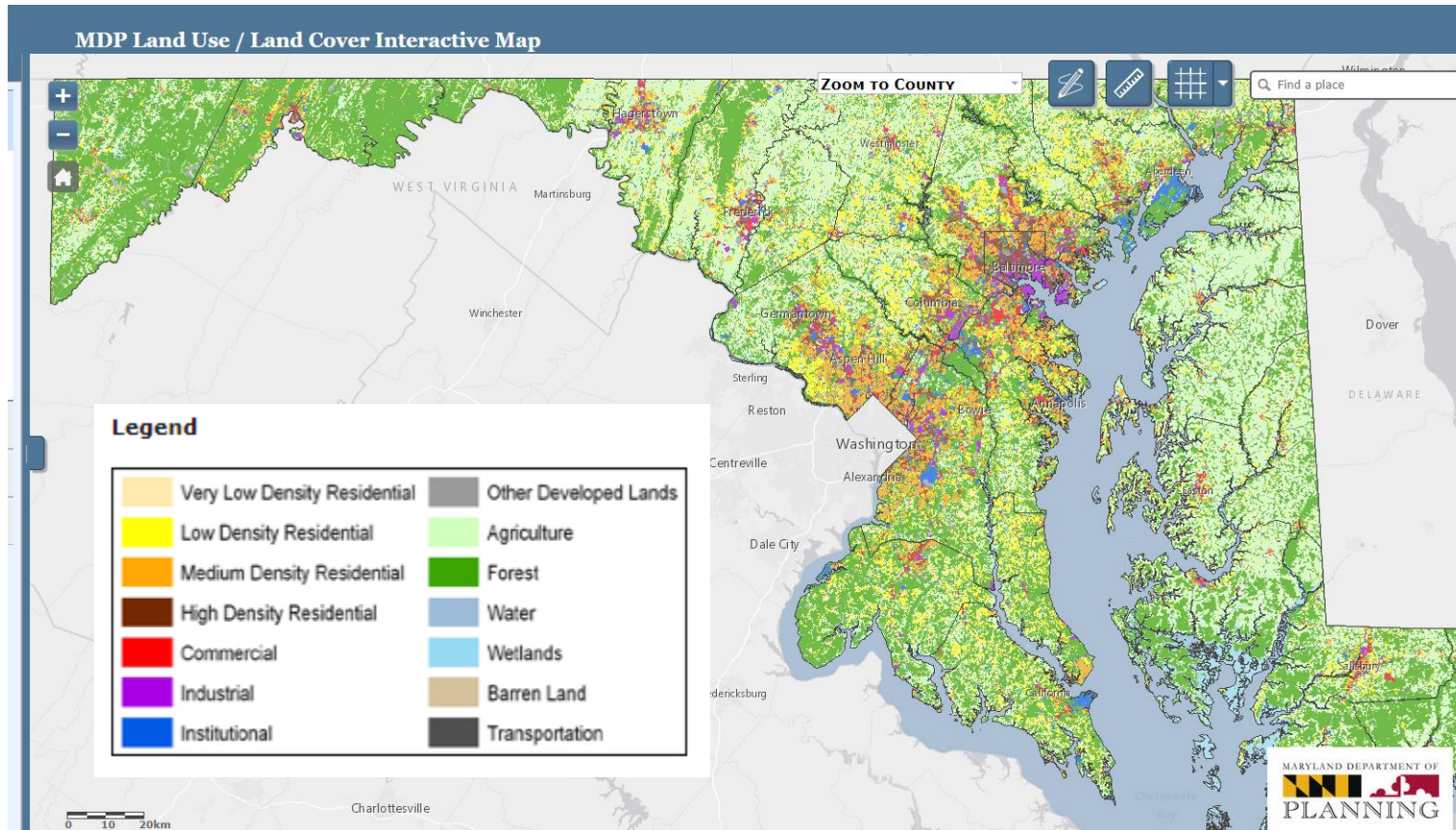


2020 STATEWIDE LAND USE MAP UPDATE

Deborah Sward
Assistant Manager, Geospatial Data & Analysis
deborah.sward@maryland.gov

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 THE 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

METHODOLOGY UPDATES

Inputs:

- Vector parcels and tax assessment data (2018)
- High-resolution CC/UVM LU/LC
- County/municipal data, 2010 LULC map, and ancillary data

Methodology Updates:

- Create base land use map (developed uses only)
- Map entire roadway network as transportation
- Not comparable to 2010 LULC

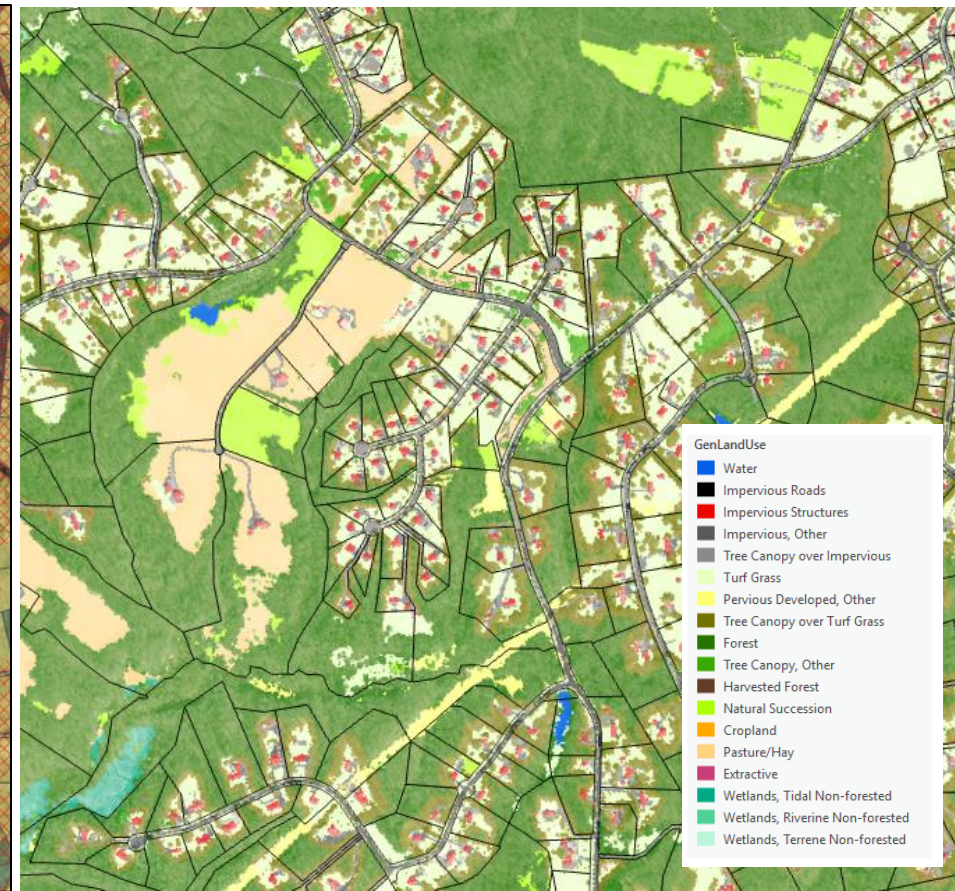
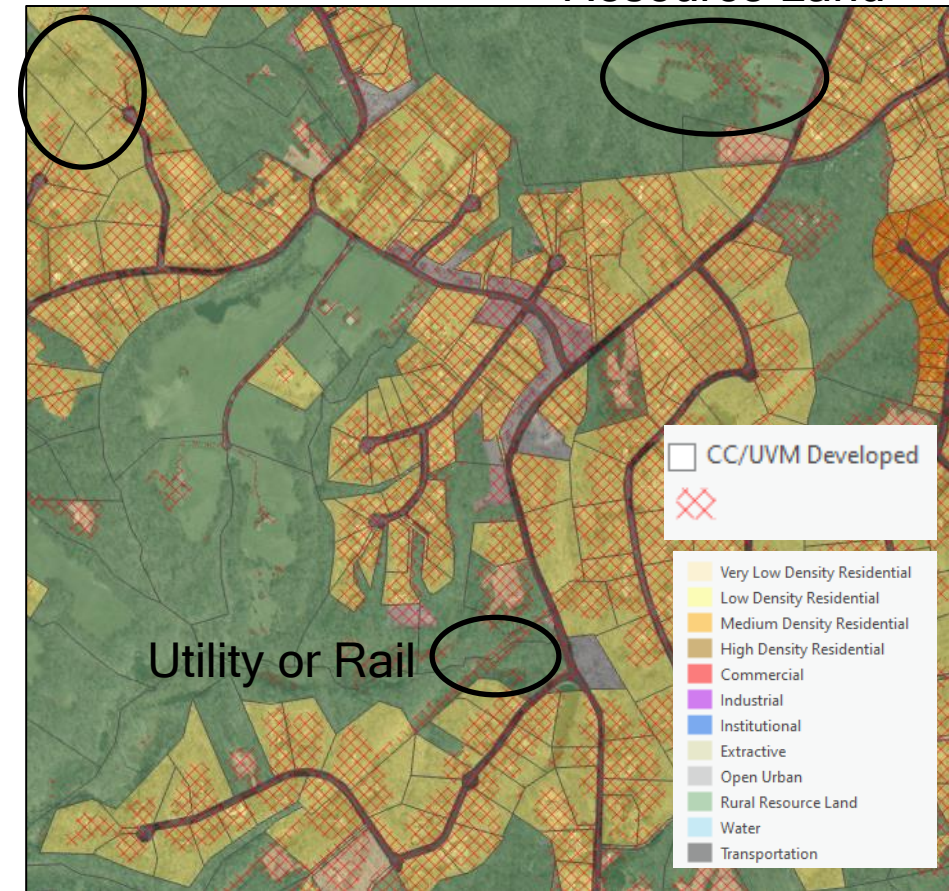
STATEWIDE LAND USE CLASSIFICATIONS

Urban (Developed) Land Uses	Remaining "Rural Resource" Land
Very Low Density Residential (< 0.2 du/ac) <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> Transportation Extractive Open urban land 	

Remove rural/undeveloped subclassifications

MDP LU vs. CC/UVM LU/LC

Forested Residential Improved Rural
Resource Land



Draft Land Use (MDP)

CC/UVM 2017/18 LU/LC

MARYLAND DEPARTMENT OF

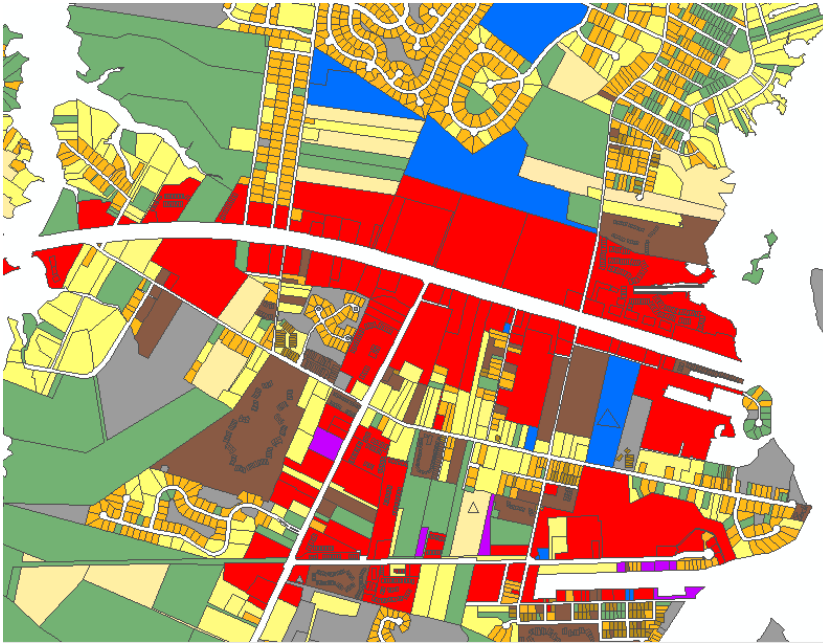


Images show hypothetical example. Actual land uses may differ.

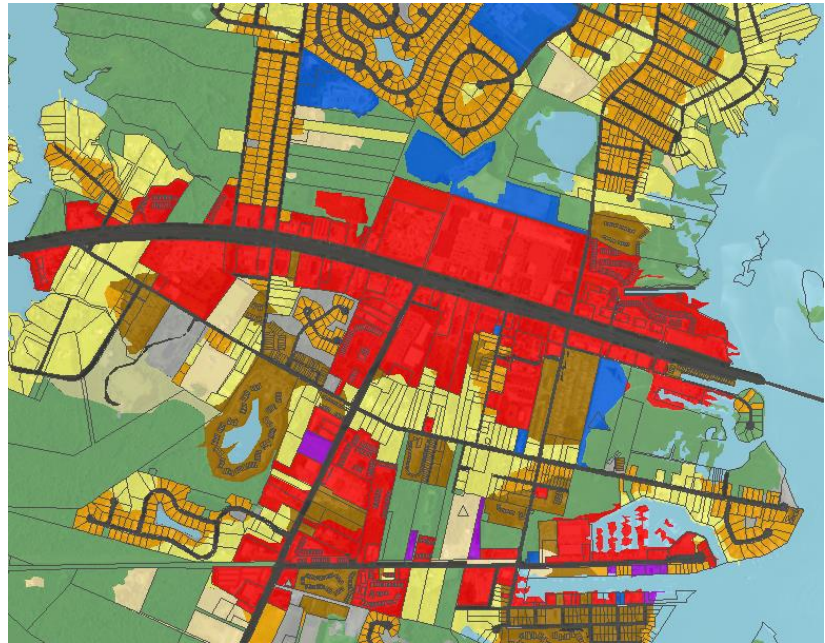
STATE/LOCAL DATA

- Tax assessment data
 - Land use codes and building descriptions
 - Agricultural use assessment
- County/municipal data
- Open urban land - Cemeteries, golf courses, fairgrounds
- Extractive uses

2020 METHODOLOGY STEPS



Step 1: Semi-automated parcel classification



Step 2: Statewide modeling

STEP 1: PARCEL CLASSIFICATION (DRAFT METHOD)

Developed parcel contains one of the following:

1. Residential* or commercial/industrial improvements based on tax assessment data
2. Other parcels** meeting structures/impervious thresholds and developed per local and/or 2010 LULC datasets
3. Open urban (e.g. cemetery, park, fairground, golf course), right-of-way, or extractive land

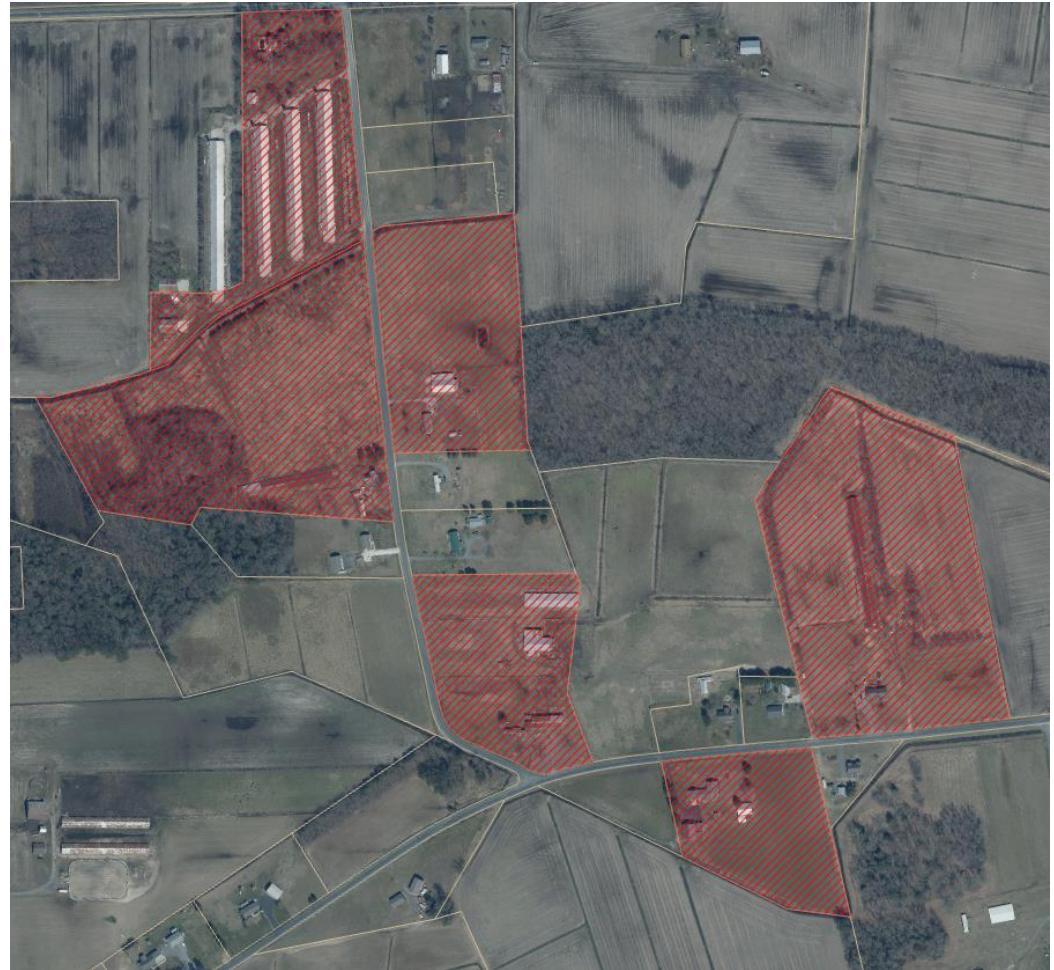
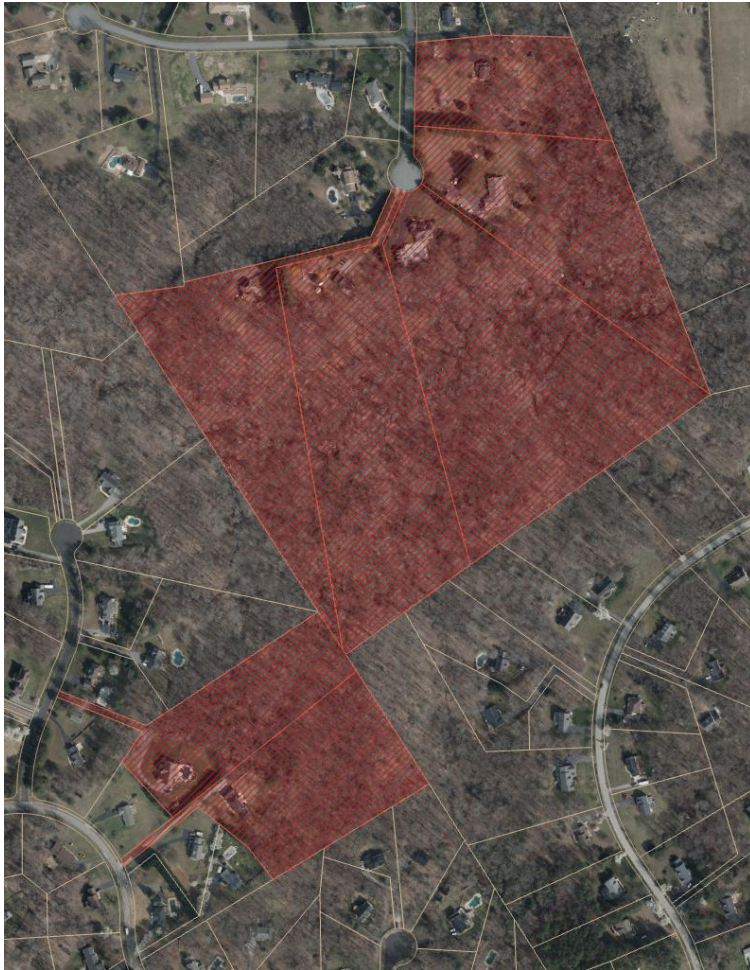
Developed classification based on tax assessment data, local and/or 2010 LULC data, and manual review

* < 20-acre parcel for single-family residential improvement

** Typically excludes parcels ≥ 5 acres assessed for agricultural use

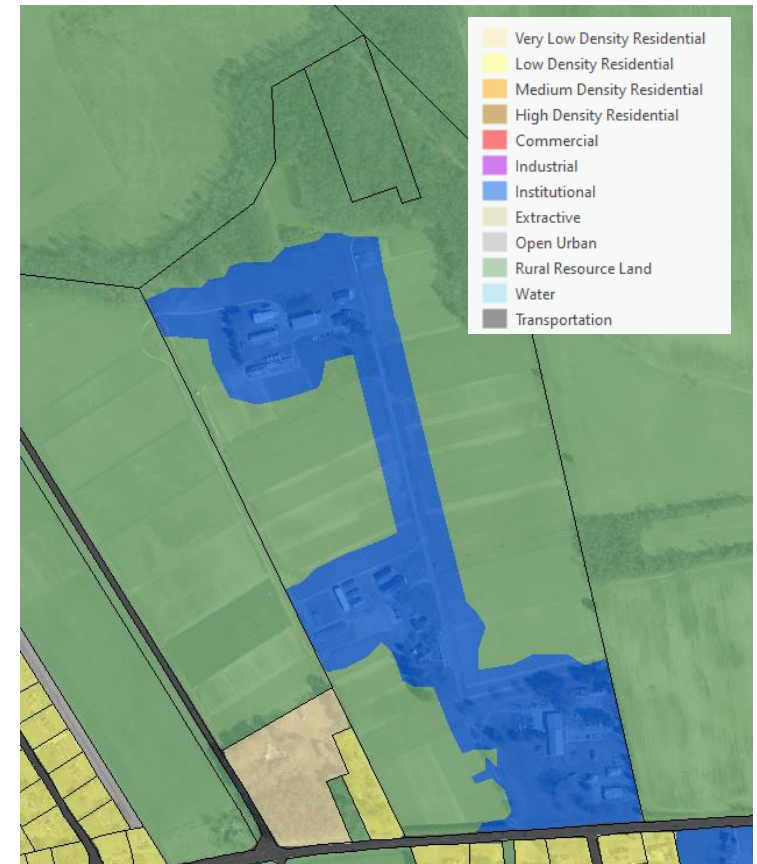
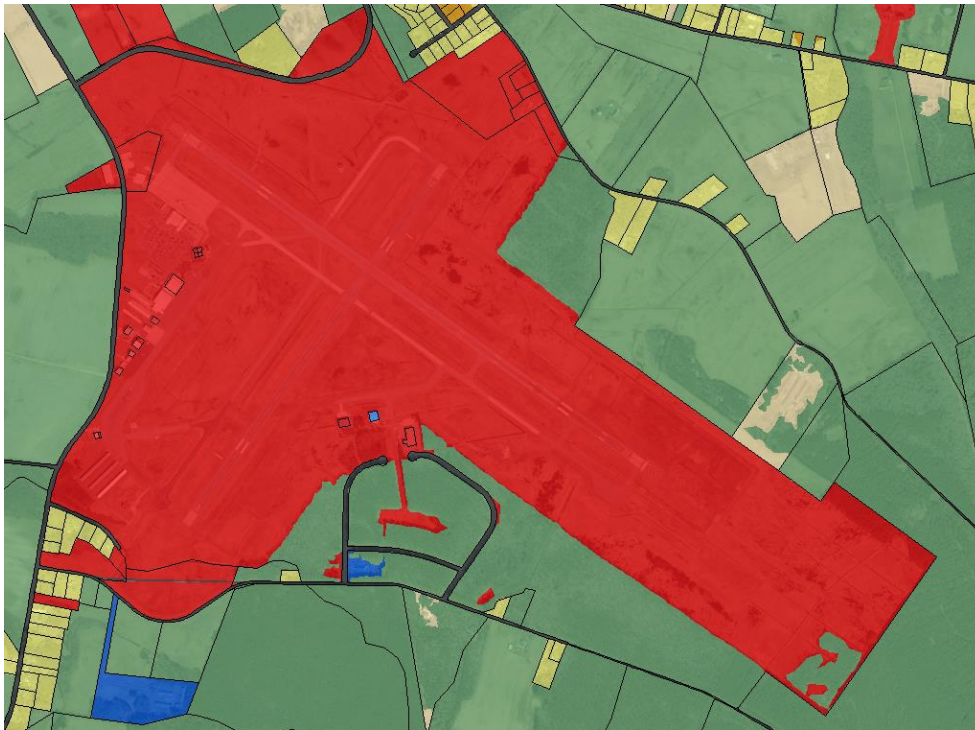
STEP 2: STATEWIDE RULES

LARGE LOT RESIDENTIAL VS. AGRICULTURAL LAND



STEP 2: STATEWIDE RULES DEVELOPED EXTENT

Draft rule: Entire parcel if < 5 acres and improved with residential or commercial structure based on tax assessment data



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

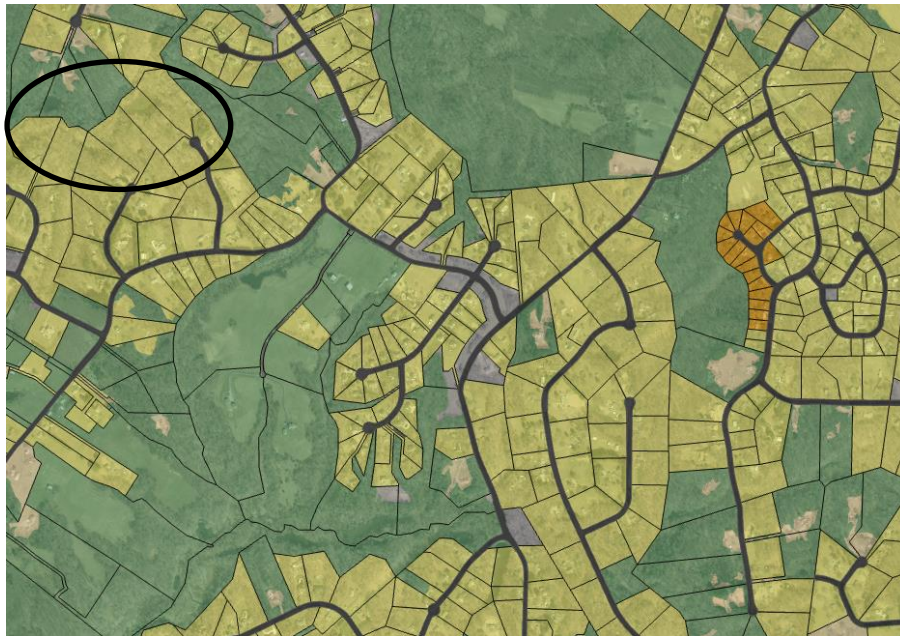
STEP 2: STATEWIDE RULES

OTHER

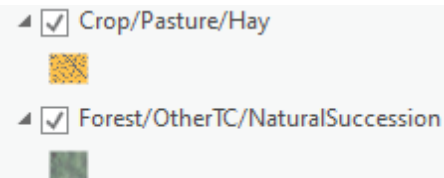
- Minimum mapping units/generalization
 - ⑩ Single-family residential density
 - ⑩ Entrapped undeveloped land or transitional land
- Road ROW coverage
- Solar

POTENTIAL OUTPUTS

Statewide Land Use (Step 2)



Additional CC/UVM LU/LC Detail



OUTREACH

- Stakeholder kickoff webinar & local data collection (Spring 2020)
- Stakeholder [questionnaire](#) (ongoing)
- Next Steps (expected to begin Summer/Fall 2022)
 - County/municipal parcel classification review
 - Update test county outputs based on high-resolution data (Calvert, Howard, Washington, Wicomico, Worcester) and finalize statewide rules
 - Final outputs generated on a rolling basis

THANK YOU

- Feedback on methodology?
- Can our process be useful for future LU/LC mapping efforts?
- Lessons learned from other states?

Please contact me at deborah.sward@maryland.gov with any questions or comments.