

Chesapeake Bay Land Use/Land Cover (LULC) Trends

Sarah M. McDonald USGS, Lower Mississippi Gulf Water Science Center

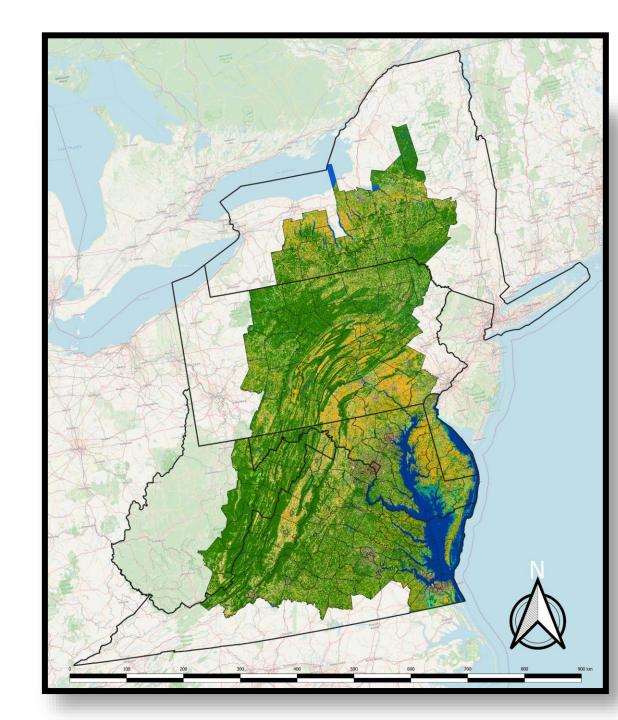
Healthy Watersheds GIT Meeting June 9, 2025





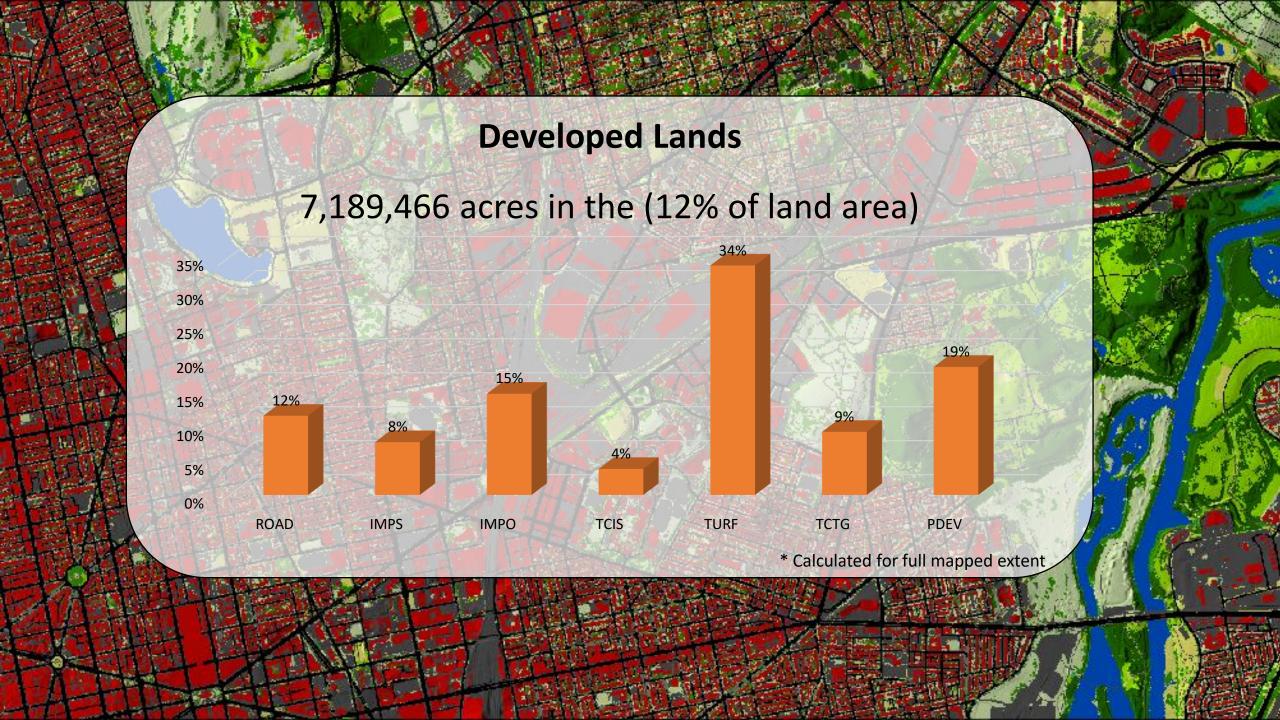
Release Status

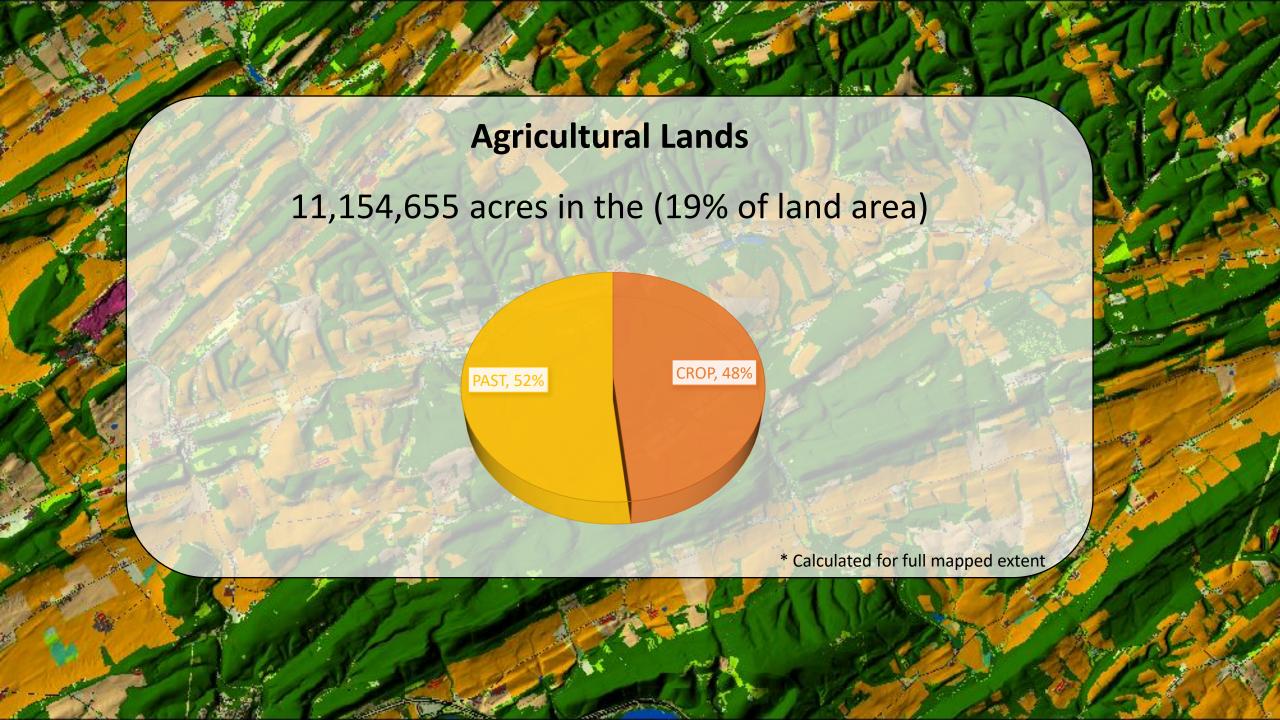
- All data can be viewed on the Chesapeake Conservancy's Web Viewer: https://lulc-viewer.cicapps.org/
- County and state-scale data will be downloadable from ScienceBase (in progress)
- The county download links are also available in the web-viewer (currently not active links)
- Webinar planned for June 25th, 12:00-1:30pm EST

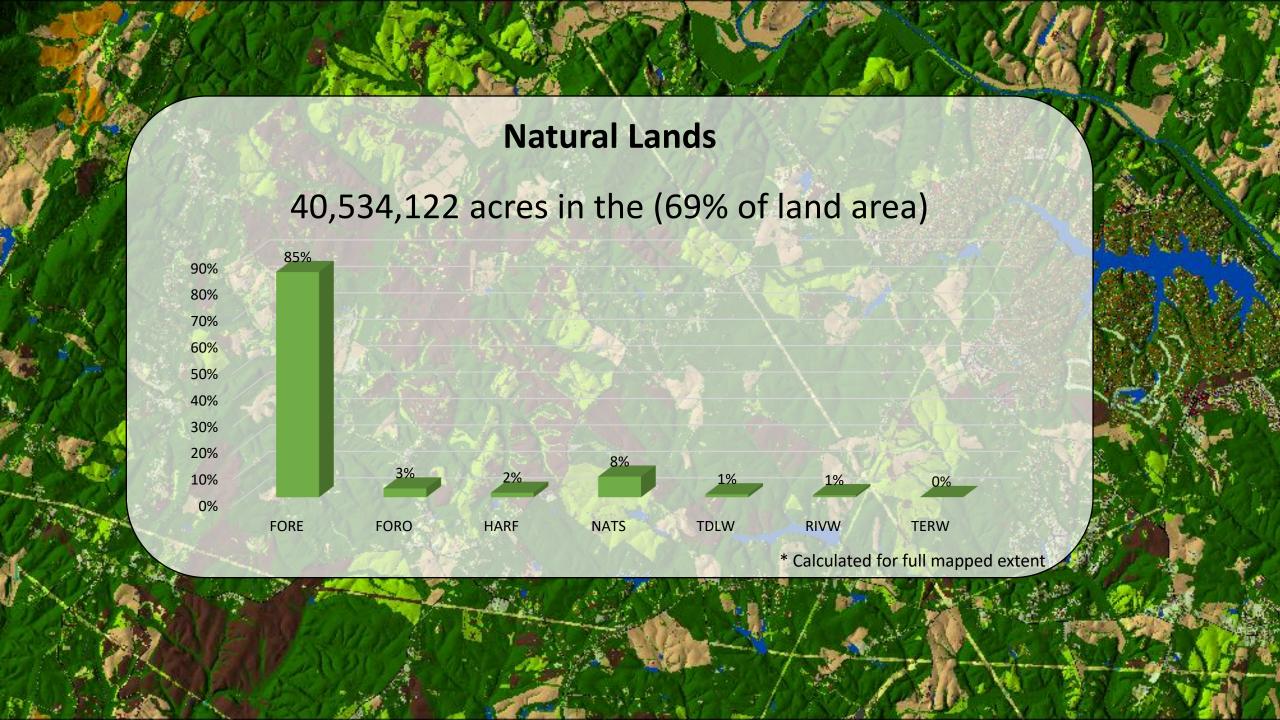


Quick Demo

https://lulc-viewer.cicapps.org/







Land Use / Land Cover Change from 2013/14 to 2021/22 Highlights

Rotational timber harvest:

- 570,000 acres forest
- + 502,000 acres early successional forest

Impervious surfaces

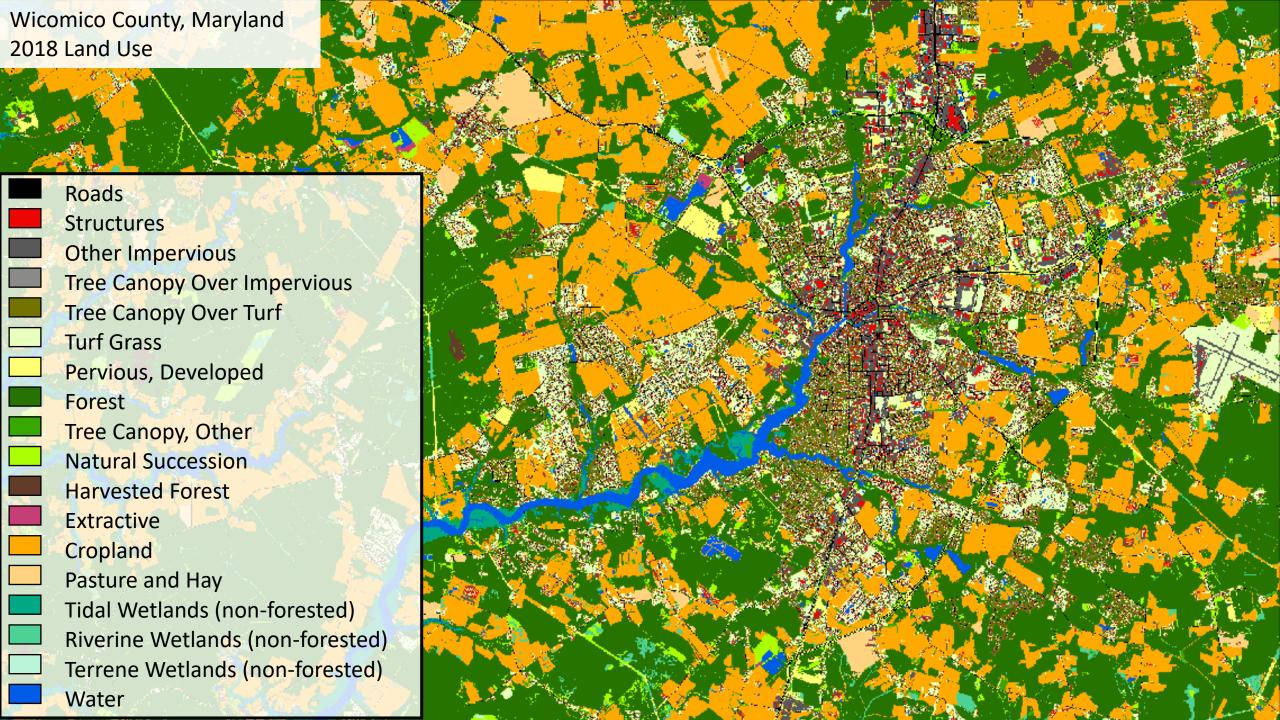
+ 105,000 acres

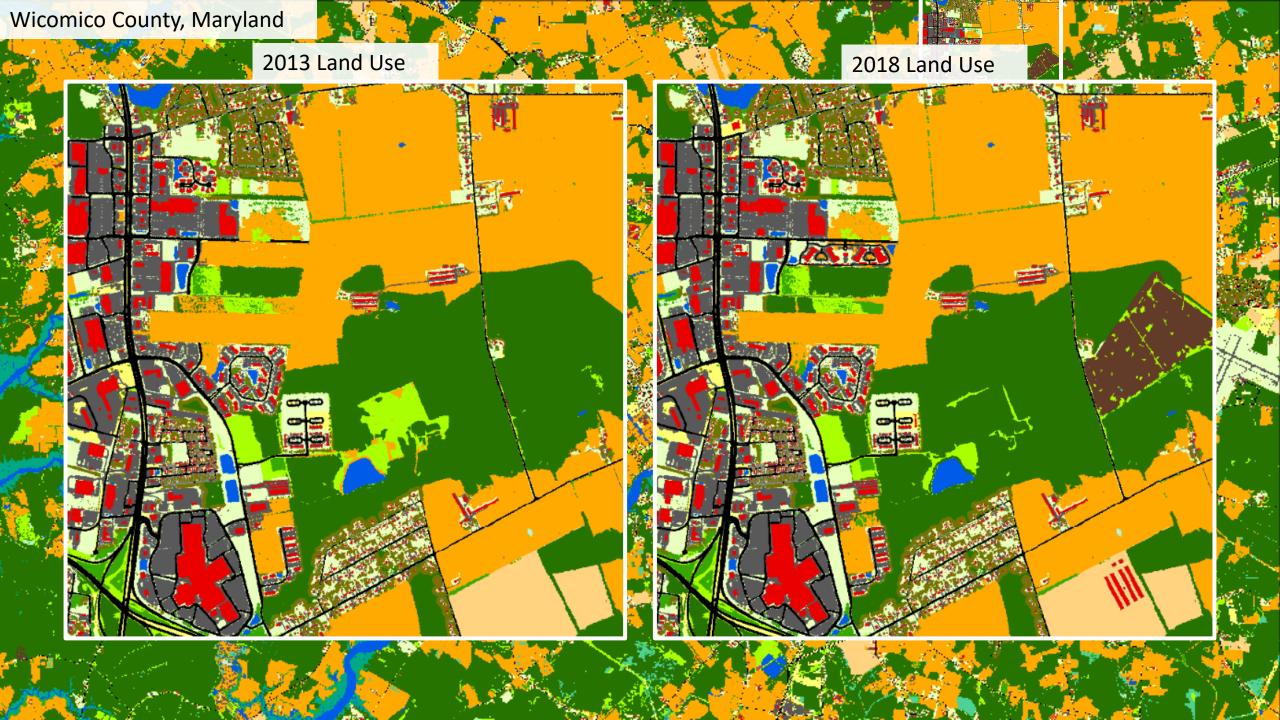
Turf Grass

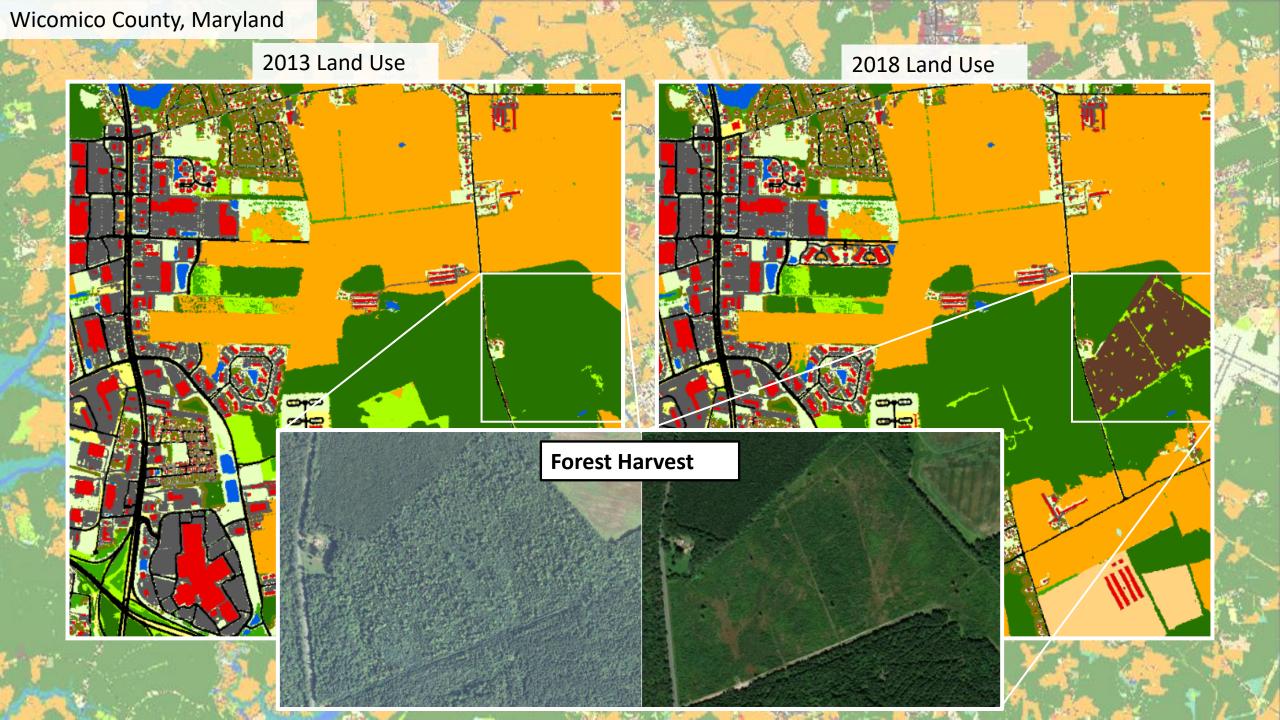
+ 51,000 acres

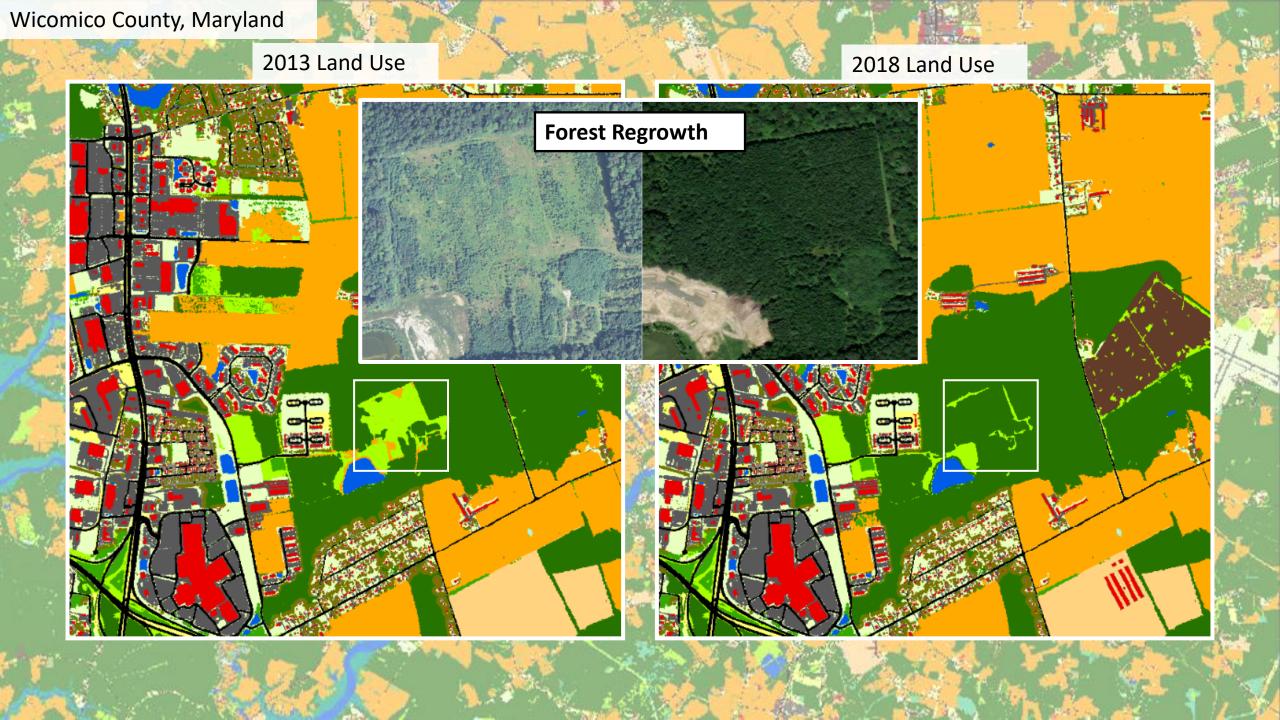
Forest and farmland conversion to development

- 5:1 ratio of forest to farmland
- 100,000 acres of early and late-successional forest
- 21,000 acres of cropland and pasture/hay



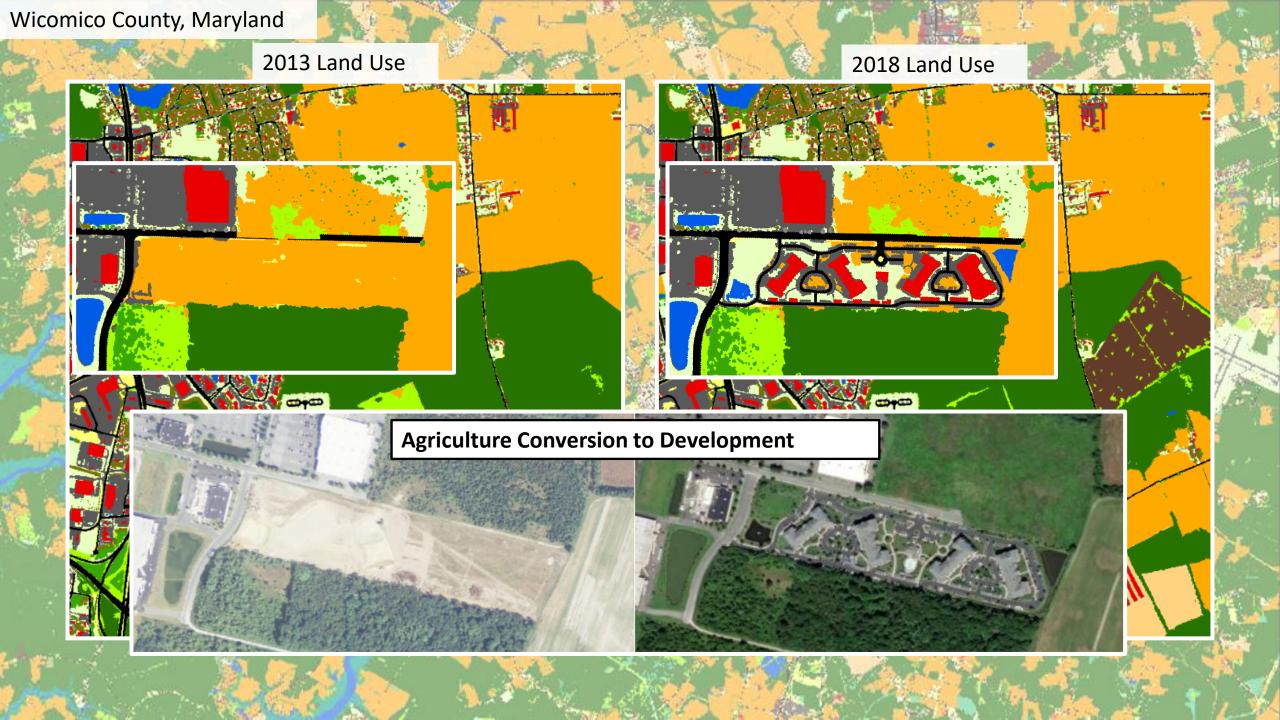














We Have the Data ... Now What?

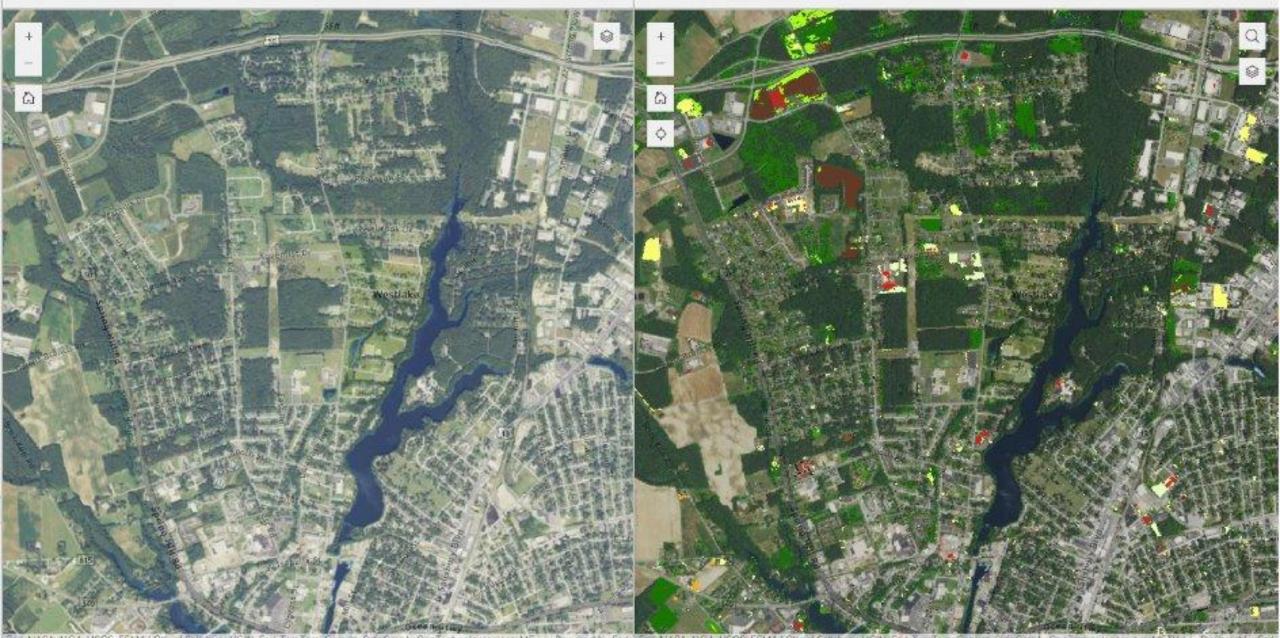
High Impervious Surface Growth/Acre: Crozet, Virginia

2013/2014 to 2021/2022 Change 2013/14 NAIP Aerial Imagery

High Urban Tree Canopy Growth/Acre: Salisbury, Maryland

2013/14 NAIP Aerial Imagery

2013/2014 to 2021/2022 Change



Questions?

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