

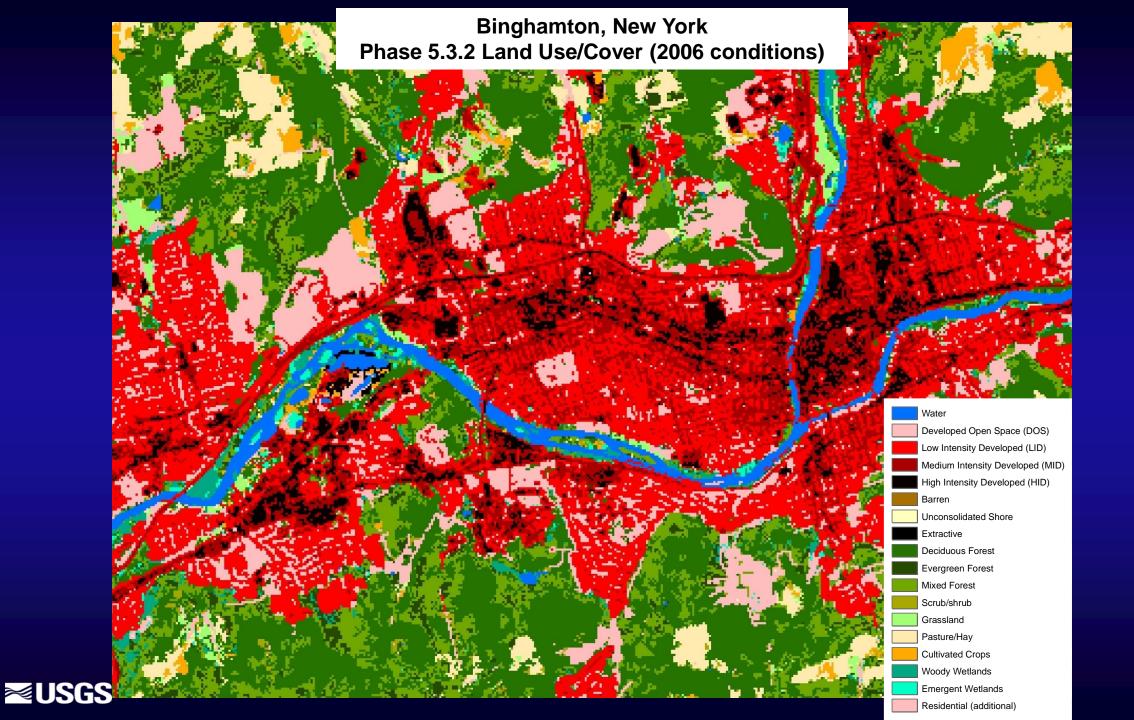
THE DEXT GENERATION

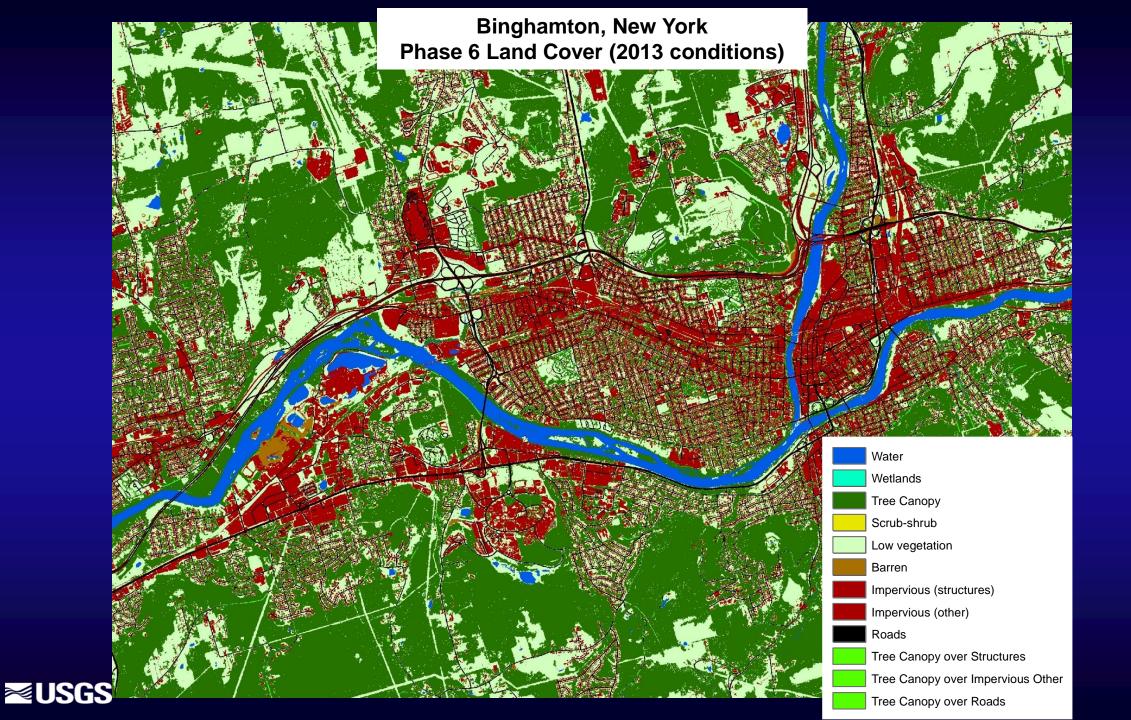
Peter Claggett, Coordinator CBP Land Use Workgroup

October 24, 2019 STAR Workgroup

U.S. Department of the Interior U.S. Geological Survey

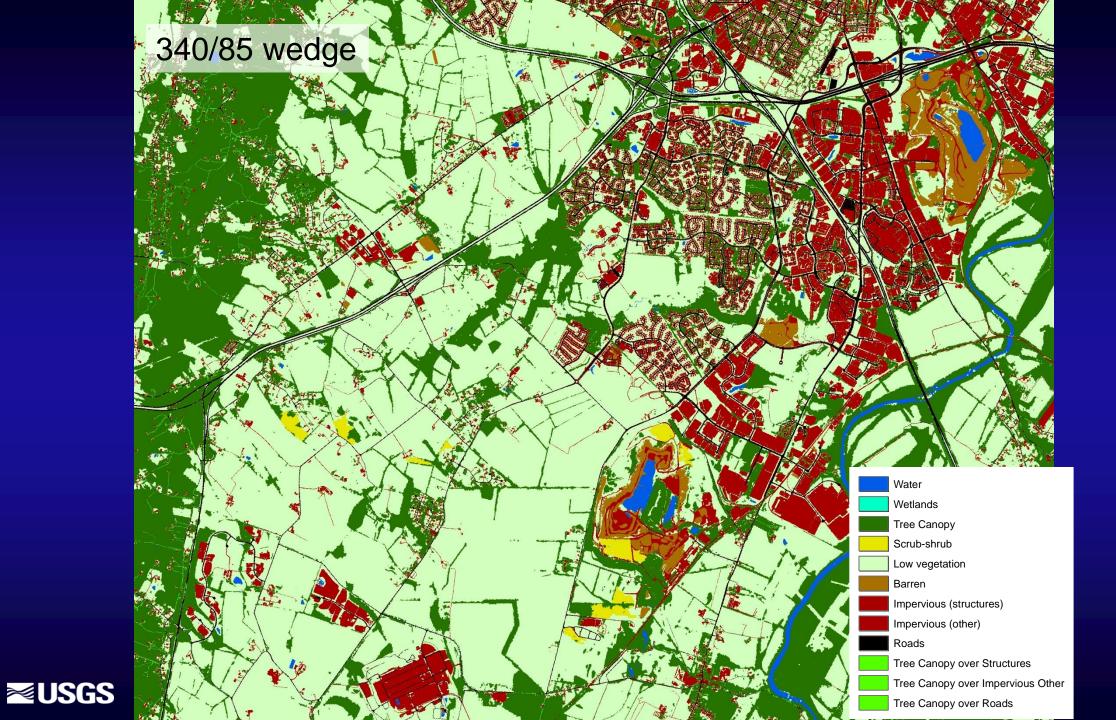


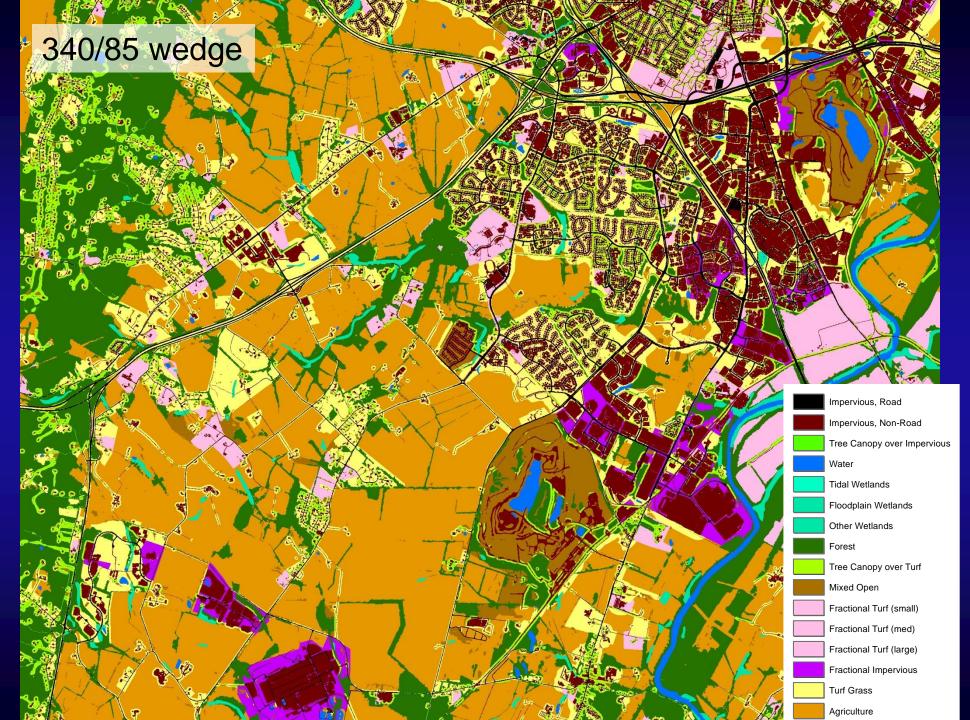














Establishment of a 2013 baseline for monitoring land cover and land use change









Local land use and parcel data

High-resolution land cover data

- Low-density Residential
- Recreation
- Agriculture
- Roads

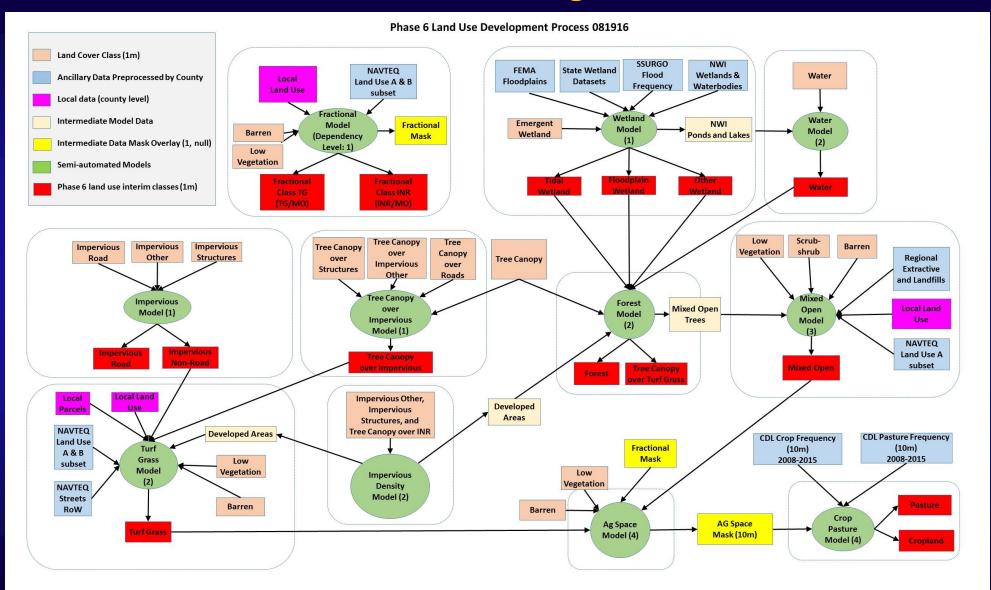
- Impervious surfaces
- Tree canopy
- Low vegetation
- Water

Phase 6 Land Uses

- Impervious-Roads
- Forests
- Turf Grass
- Open Space



Phase 6 Land Use Model: translating land cover into land use



2013 Chesapeake Bay Watershed Land Cover/Use Data

1m Land Cover



1m Land Use



10m Land Cover/Use

Impervious Roads Impervious Non-Roads Tree Canopy Over Impervious Tree Canopy Over Turf Grass **Turf Grass Forest** Wetlands (Floodplain) Wetlands (Other) Wetlands (Tidal) Water Mixed Open

Cropland

Pasture



Current vs Potential Land Use Classes

Tree Canopy/Scrub-shrub/Herbaceous

- Tree Canopy Over Impervious
- Tree Canopy Over Turf Grass
- Forest
 - Deciduous
 - Evergreen
 - Cultivated (orchards, vineyards)

<u>Impervious</u>

- Roads
- Non-Roads
 - Buildings
 - Resid/ Comm/ Indus.
 - Greenhouses
 - Poultry
 - Dairy
 - Solar fields
 - Other (driveways, parking lots)

Wetlands

- Tidal
- Floodplain
- Other
 - Headwater
 - Isolated

Herbaceous/Barren/Scrub-shrub

- Turf grass
- Pasture
- Cropland
 - Center Pivot
- Mixed Open
 - Harvested Forest (0-3 yrs)
 - Managed succession (post harvest)
 - Natural succession (fallow)
 - Suspended succession (right-of-ways)
 - Extractive (active)
 - Construction (bare pre-development)
 - Bare shore
 - Marine/Estuarine
 - Lotic
 - Lentic



^{*} White classes are current.

^{*} Yellow classes are proposed.