District of Columbia Tree Planting Programs
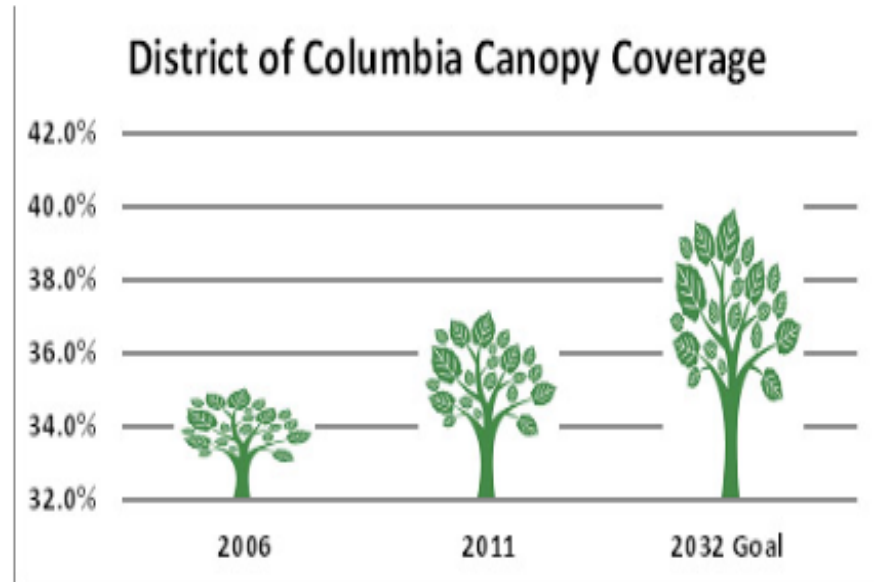
District Tree Planting Programs

- **DDOT Urban Forestry Division Street Trees**

- **DOEE voluntary plantings**
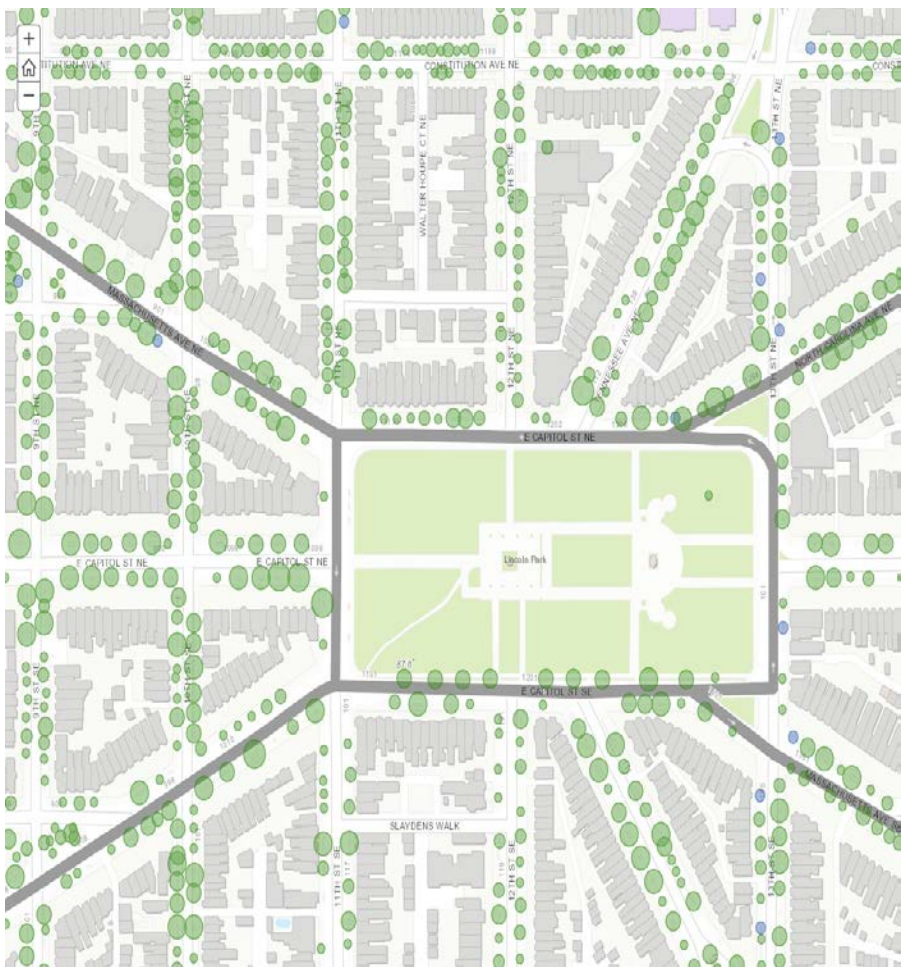 - **RiverSmart Homes, Rebates**
  - **Tree Planting Grants**

- **Casey Trees plantings**

- **Federal Agencies (NPS, GSA)**

- **Other nonprofits, utilities, etc**

What Drives District Tree Plantings?

District of Columbia Canopy Coverage

- **MS4 Permit Requirements**
  - **Net increase of 33,535 trees in MS4 area over life of current permit**

- **District Urban Tree Canopy goal**
  - **40% urban tree canopy by 2032**

- **Chesapeake Bay load reductions**

Tracking Tree Plantings
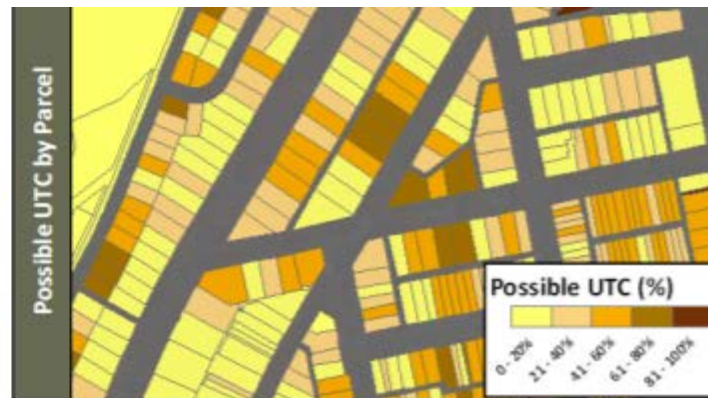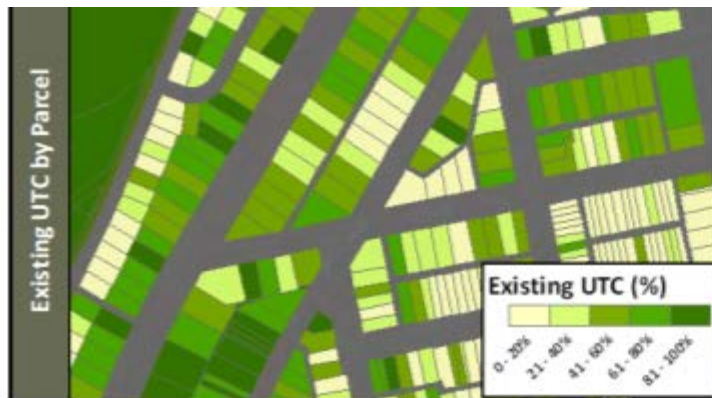

Different Tracking Systems for Different Programs:

- **DDOT UFD, Casey Trees GIS systems**
- **DOEE Stormwater Database**
  - **RiverSmart Homes, Rebates**
- **Other individual or project-specific approaches**

Targeting Plantings / Future Potential

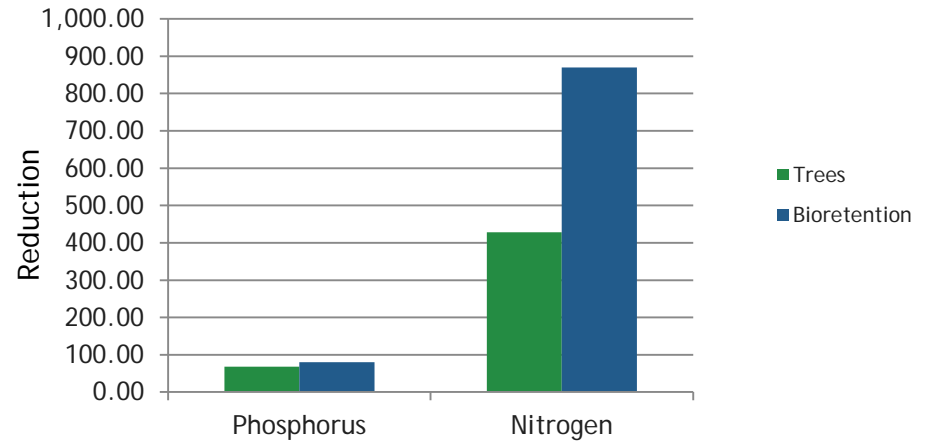**"Targeting" depends on the program:**

- **Street tree plantings not evenly distributed between Wards**
- **DOEE targeting areas with low rates of participation in RiverSmart Homes**
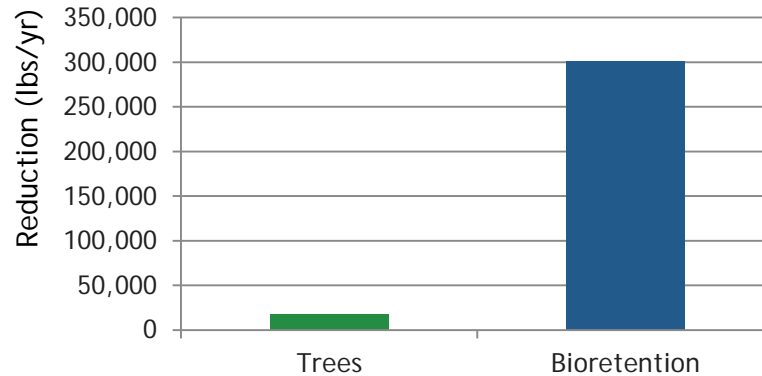- **Prefer plantings in MS4 area of the city**

Cost and Performance

- **DOEE grant spending:**
  - **Approx. $1.2 million to plant 4,900 trees**
  - **Unit cost of $244/tree**

- **Clean Water SRF projects with similar budgets:**
  - **School / Park LID retrofits**
  - **Green Streets**
  - **IE small number of LID installations**

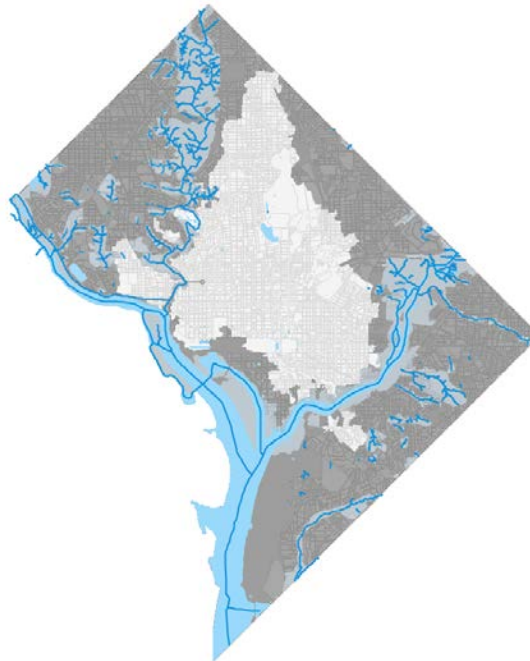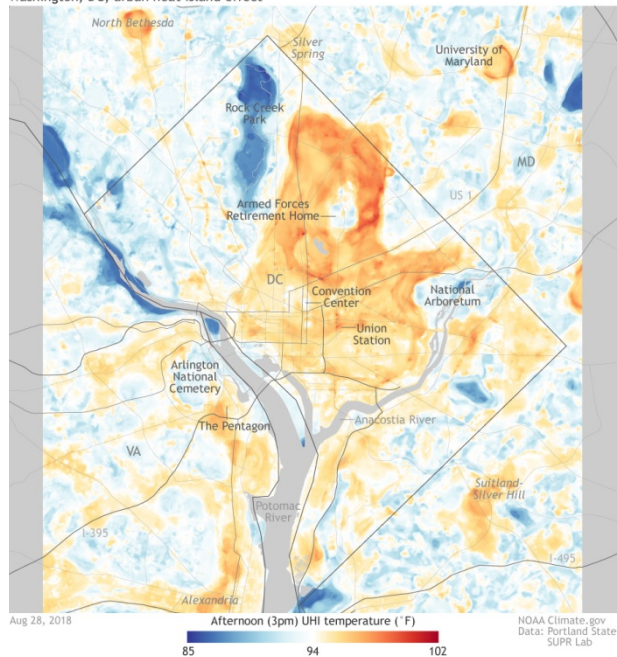**Nutrient Reductions Returned from CAST Model**

A grouped bar chart with y-axis labeled "Reduction" ranging from 0.00 to 1,000.00. Categories on x-axis: Phosphorus and Nitrogen. Legend: Trees (green), Bioretention (blue). Phosphorus — Trees approx. 65, Bioretention approx. 80. Nitrogen — Trees approx. 425, Bioretention approx. 865.

Sediment Reductions Returned from CAST Model

A bar chart with y-axis labeled "Reduction (lbs/yr)" ranging from 0 to 350,000. Categories: Trees (approx. 17,000), Bioretention (approx. 300,000).

Co-benefit

Washington, DC, urban heat island effect

- **Conflict between Urban Heat Island priority areas and MS4 area?**
- **Air quality?**

Questions?

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