

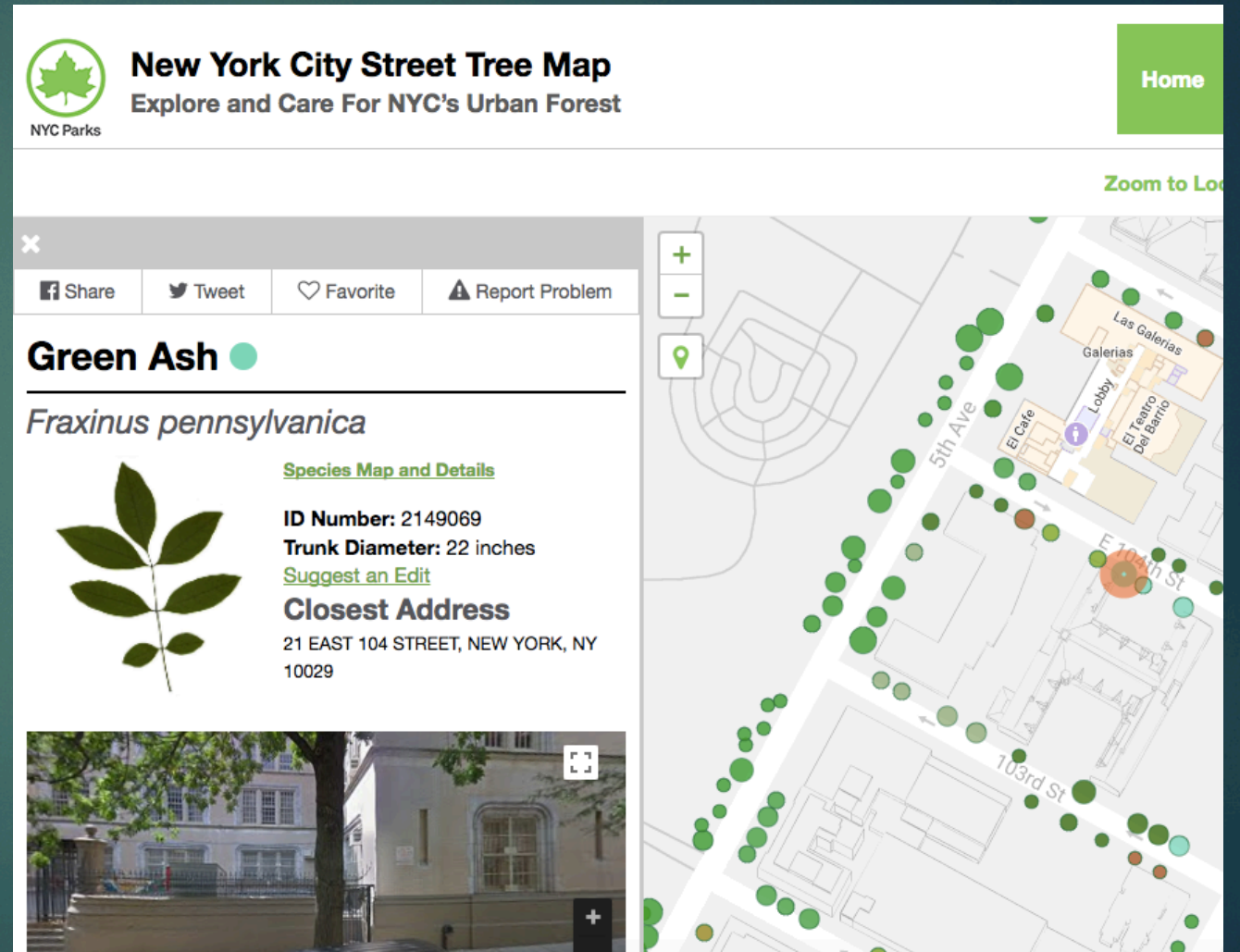
# Future City Lab: New York City's Trees





# New York City Street Tree Map

- ▶ Result of the TreesCount! 2015-2016 census, in which 2,200 volunteers helped the city document every single street tree in the five boroughs.
- ▶ Not only maps locations, records species, and charts trunk sizes, but also uses U.S. government tool to help *quantify* the benefits that each tree offers.
- ▶ **Why might that be important?**



The screenshot displays the 'New York City Street Tree Map' interface. At the top left is the NYC Parks logo. The main header reads 'New York City Street Tree Map' with the subtitle 'Explore and Care For NYC's Urban Forest'. A 'Home' button is in the top right. Below the header is a 'Zoom to Location' button. A navigation bar includes 'Share', 'Tweet', 'Favorite', and 'Report Problem' options. The main content area features a tree profile for 'Green Ash' (*Fraxinus pennsylvanica*), which includes a leaf illustration, a 'Species Map and Details' link, and specific data: ID Number 2149069, Trunk Diameter 22 inches, and Closest Address 21 East 104 Street, New York, NY 10029. To the right is a map showing the tree's location on a street grid, with a red circle highlighting the tree's position. A photo of the tree is shown at the bottom left of the interface.



# How do trees benefit New York City?

- ▶ Stormwater Interception
- ▶ Energy Conservation
- ▶ Air Pollutant Removal
- ▶ Carbon Dioxide Storage
  
- ▶ What special conditions do trees need to survive in the city?



Source: [flickr.com/erika\\_herzog](https://www.flickr.com/photos/erika_herzog/)



# Fact-Gathering

- ▶ Let's go to <https://tree-map.nycgovparks.org> together.
- ▶ How many trees have been mapped on the New York City Street Tree Map?
- ▶ How many species are represented?
- ▶ What is the most common species of tree? What percentage is it of the total number of trees?
- ▶ What are trees' ecological benefits per year?
  - ▶ How much stormwater was intercepted? At what value?
  - ▶ How much energy was conserved? At what value?
  - ▶ How many air pollutants were removed per year? At what value?
  - ▶ How much carbon dioxide was reduced each year? At what value?
  - ▶ What is the total value of street trees to New York City each year?