USDA CARBONSCAPES
Quick Start User Guide

A national look at carbon landscapes and a central location for USDA Carbon inventory, modeling and mapping of terrestrial biosphere carbon

DATA

LEARN

ATLAS

EXPLORER

www.CarbonScapes.org

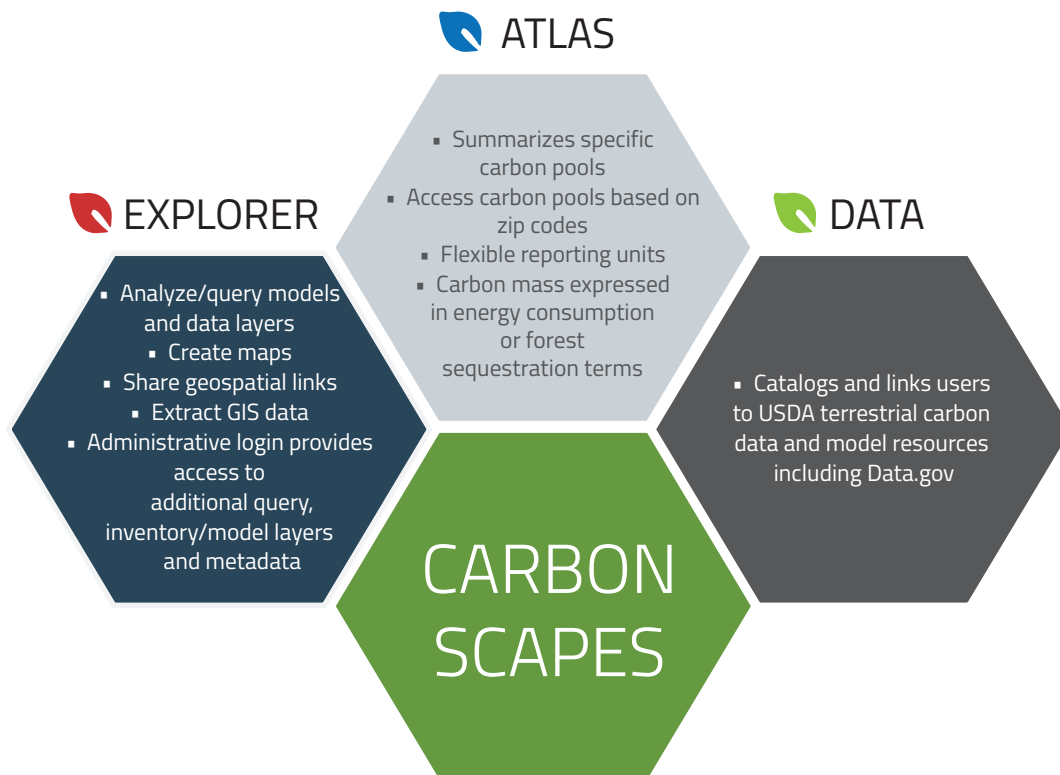USDA

West Virginia University
DIVISION OF PLANT AND SOIL SCIENCES

WV GIS Technical Center
West Virginia University

About CarbonScapes

The goal of USDA CarbonScapes is to provide a useful and easy to navigate web map application to educate and answer questions for stakeholders about USDA inventory, modeling, and mapping of terrestrial biosphere carbon across the landscape. CarbonScapes is comprised of three application (ATLAS, EXPLORER, and DATA). CarbonScapes is a product of a partnership between USDA and West Virginia University

ATLAS

- Summarizes specific carbon pools
- Access carbon pools based on zip codes
- Flexible reporting units
- Carbon mass expressed in energy consumption or forest sequestration terms

EXPLORER

- Analyze/query models and data layers
- Create maps
- Share geospatial links
- Extract GIS data
- Administrative login provides access to additional query, inventory/model layers and metadata

DATA

- Catalogs and links users to USDA terrestrial carbon data and model resources including Data.gov
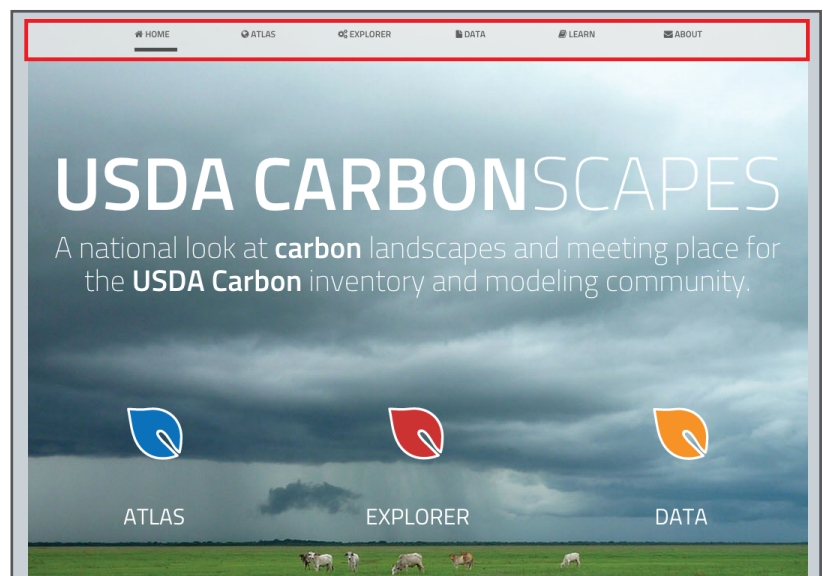
CARBON SCAPES

Getting Started

To get started, launch desired application by using the top access pannel or use the icons to navigate to Carbon-Scape ATLAS, CarbonScape EXPLORER and CarbonScape DATA launch pages
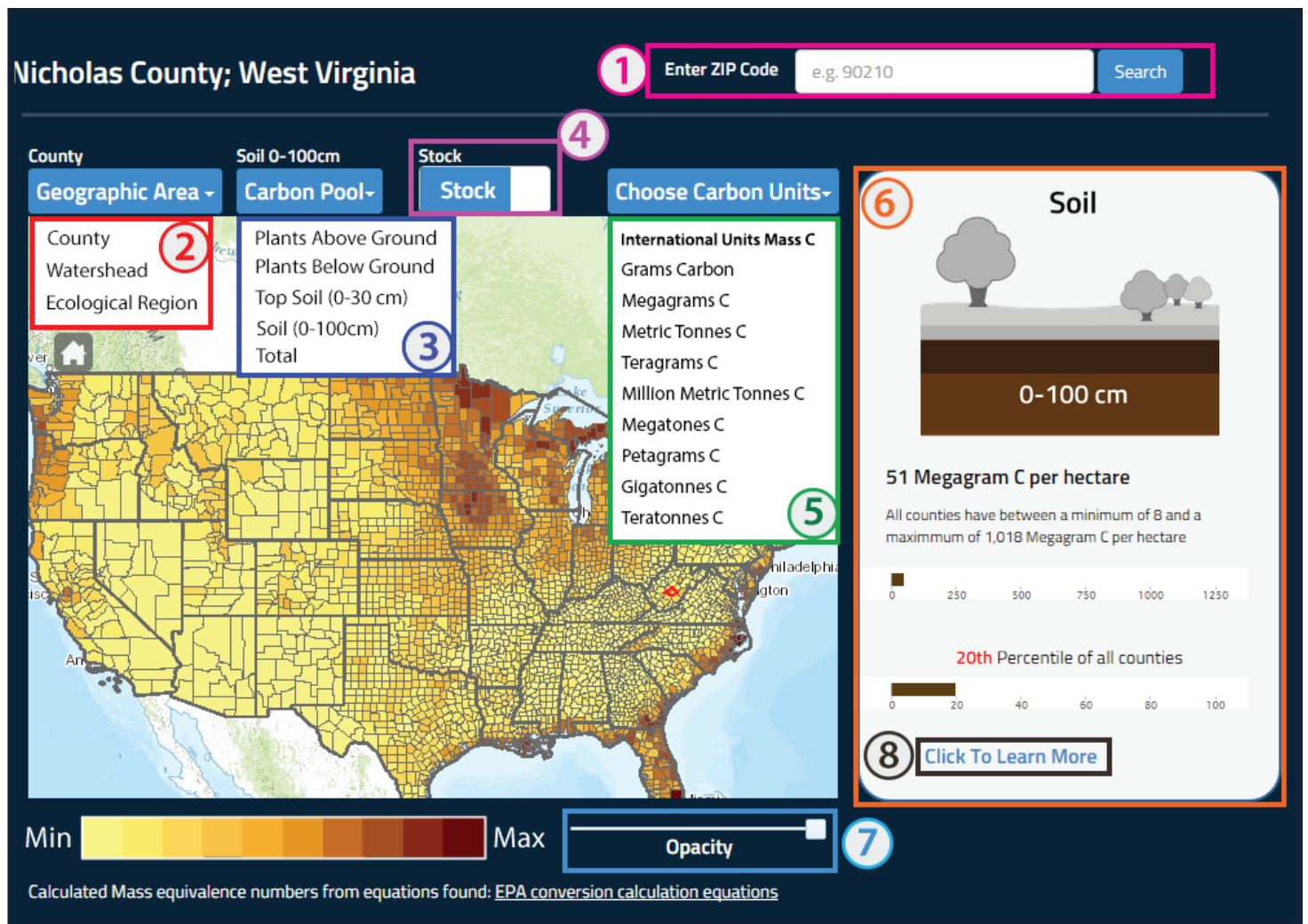
Access Panel

⌂ HOME   ⚙ ATLAS   ⚙ EXPLORER   📄 DATA   📄 LEARN   ✉ ABOUT

USDA CARBONSCAPES
A national look at **carbon** landscapes and meeting place for the **USDA Carbon** inventory and modeling community.

ATLAS   EXPLORER   DATA

Navigate to Launch Page →

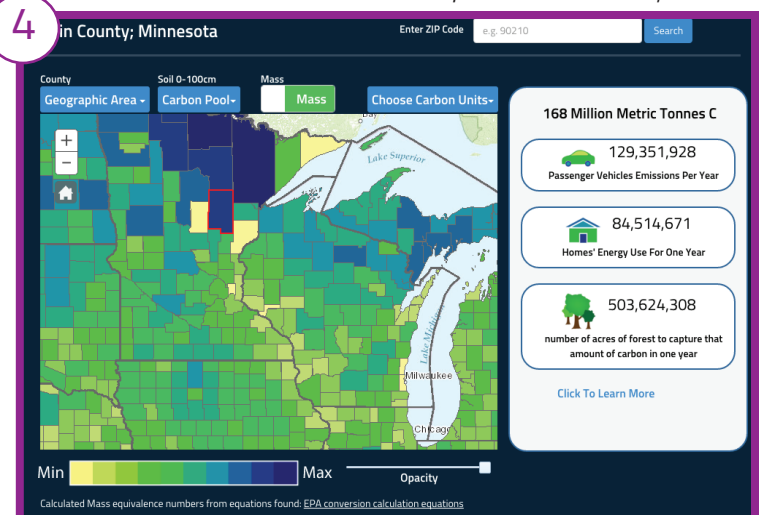Summarizes specific carbon pools in the landscape for carbon stock/mass

CarbonScapes ATLAS Stock Interface

Enter Zip Code (1) or **Select Geographic Area (2)** to find area of interest

Custom map by choosing **Carbon Pool (3)**, switching display from Carbon stock to mass by clicking **Stock/Mass Slider (4)**, and by selecting **Carbon Units (5)**
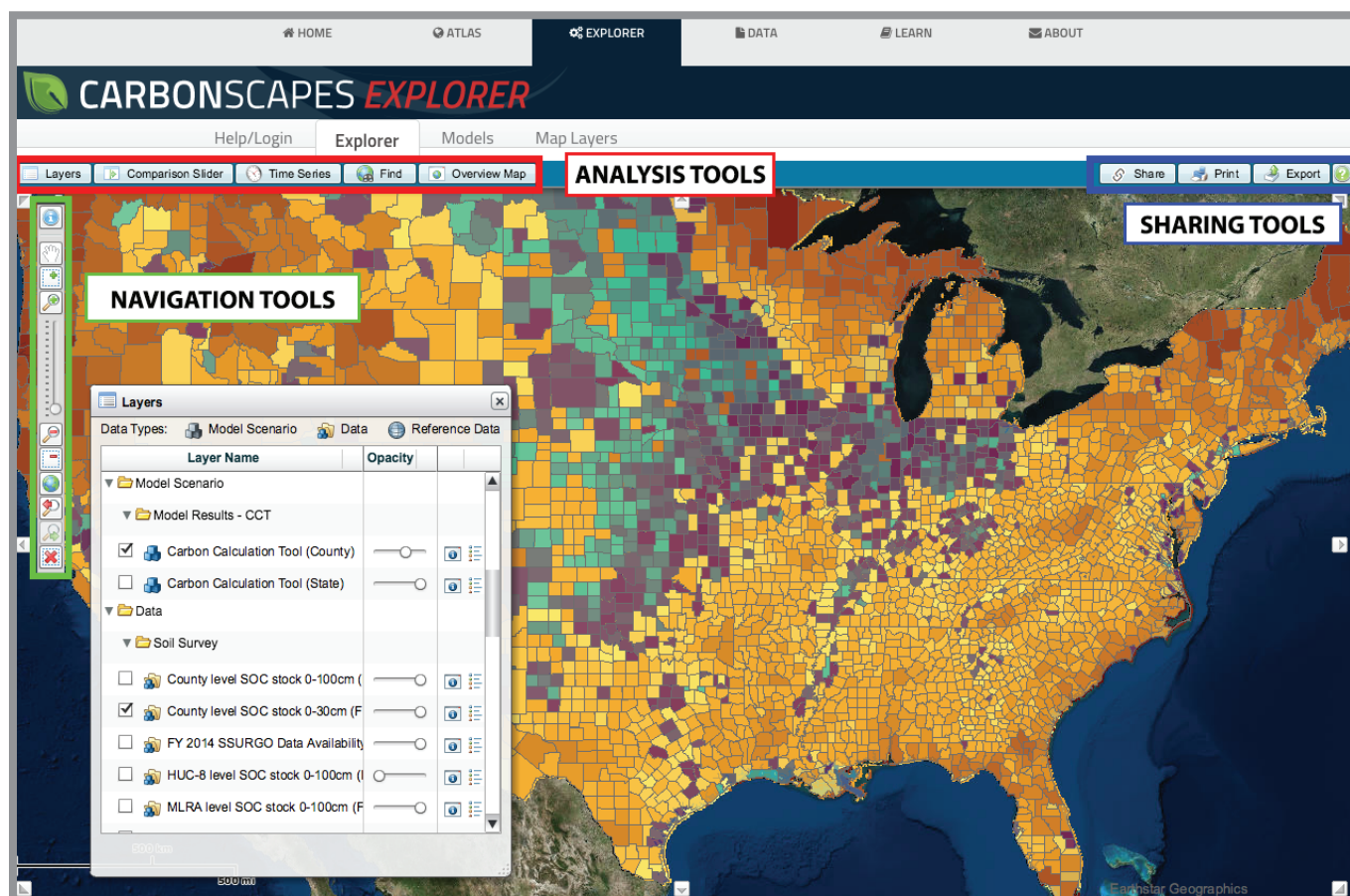
View results in the **Result Panel (6),** change map opacity by moving **Opacity Slider (7),** and **Click to Learn More (8)** about Carbon stock and mass pools

CarbonScapes ATLAS Mass Interface

CarbonScapes *EXPLORER - General View*

Provides advanced users more in-depth tools to visualize and analyze carbon models and data inventory layers

CarbonScapes EXPLORER Interface

Analysis Tools

Layers:
Select display layers

Comparison Slider:
Compare different layers

Time Series:
Visualize temporal changes in a data layer

Find:
Find specific data in a layer

Overview Map:
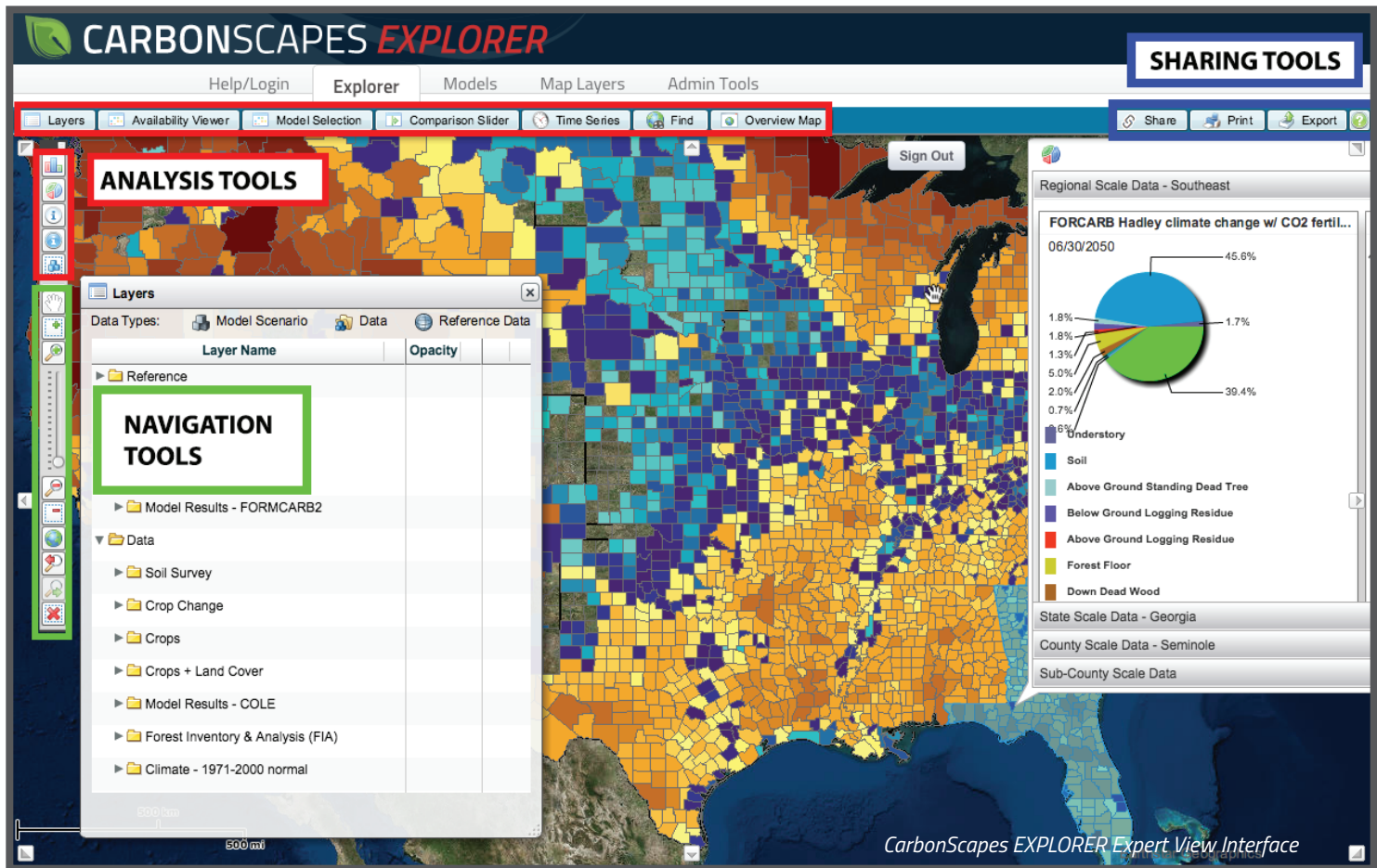Provides overview of the location of main map

Navigation Tools

Access carbon information for a specific area. Result is displayed in new panel

Zoom in and Zoom out- use the cursor to pan and zoom in/out.

Click and draw box to zoom in your area

Click the globe to zoom out to original extent of map

Previous extent

Next extent

Sharing Tools

Share hyperlink of the map

Print map

Export data

Help

CarbonScapes *EXPLORER - Expert View*

Provides advanced users more in-depth tools to visualize and analyze carbon models and data inventory layers

CarbonScapes EXPLORER Expert View Interface

Analysis Tools

Layers: Select display layers

Availability Viewer: View available data layers

Model Selection: Choose model layers for analysis

Comparison Slider: Compare different layers

Time Series: Visualize temporal changes in a data layer

Find: Find specific data in a layer

Overview Map: Provides overview of the location of main map

Displays bar chart for selected area

Displays model scenario as pie chart

Access model scenario information for a specific area

Access carbon information for a specific area. Result is displayed in new panel

Check data availability for a certain area

Navigation Tools

Pan the map. Zoom in and Zoom out- use the cursor to pan and zoom in /out

Click and draw box to zoom in your area

Click on the image of globe to zoom out to original extent of map

Previous extent

Next extent

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Catalogs and links users to USDA terrestrial carbon data and model resources

CarbonScapes DATA Interface

Data includes carbon data inventory layers and models including:

- Gridded Soil Survey Geographic Database (GSSURGO)
- Forest Inventory Analysis (FIA)
- Crop Data Layer
- MODEL-COMET FARM etc.