

Natural Climate Solutions: Reforestation

Gregg Sargis

2030 Goals

- Avoid or sequester 3 billion metric tons of carbon dioxide emissions annually.
- Conserve 650 million hectares of biodiverse habitats.
- Help 100 million people at severe risk of climate-related emergencies
- Conserve 4 billion hectares of marine habitat
- support leadership of 45 from Indigenous and local communities



The Team



The Work

1. Policy

2. Improved Forest Management

- Market strategies
- Non-market strategies

3. Reforestation

4. Agroforestry



Working Woodlands Project Structure

Carbon project provides long-term, sustainable revenue source for the landowner and covers project costs

Forest certification enforces improved forest management practices and provides value add for forest products

Conservation easement ensures long-term forest protection

Family Forest Carbon Program

- Partnership with American Forest Foundation
- Design to support small landowners (>30 acres)
- Pays landowners implement practices

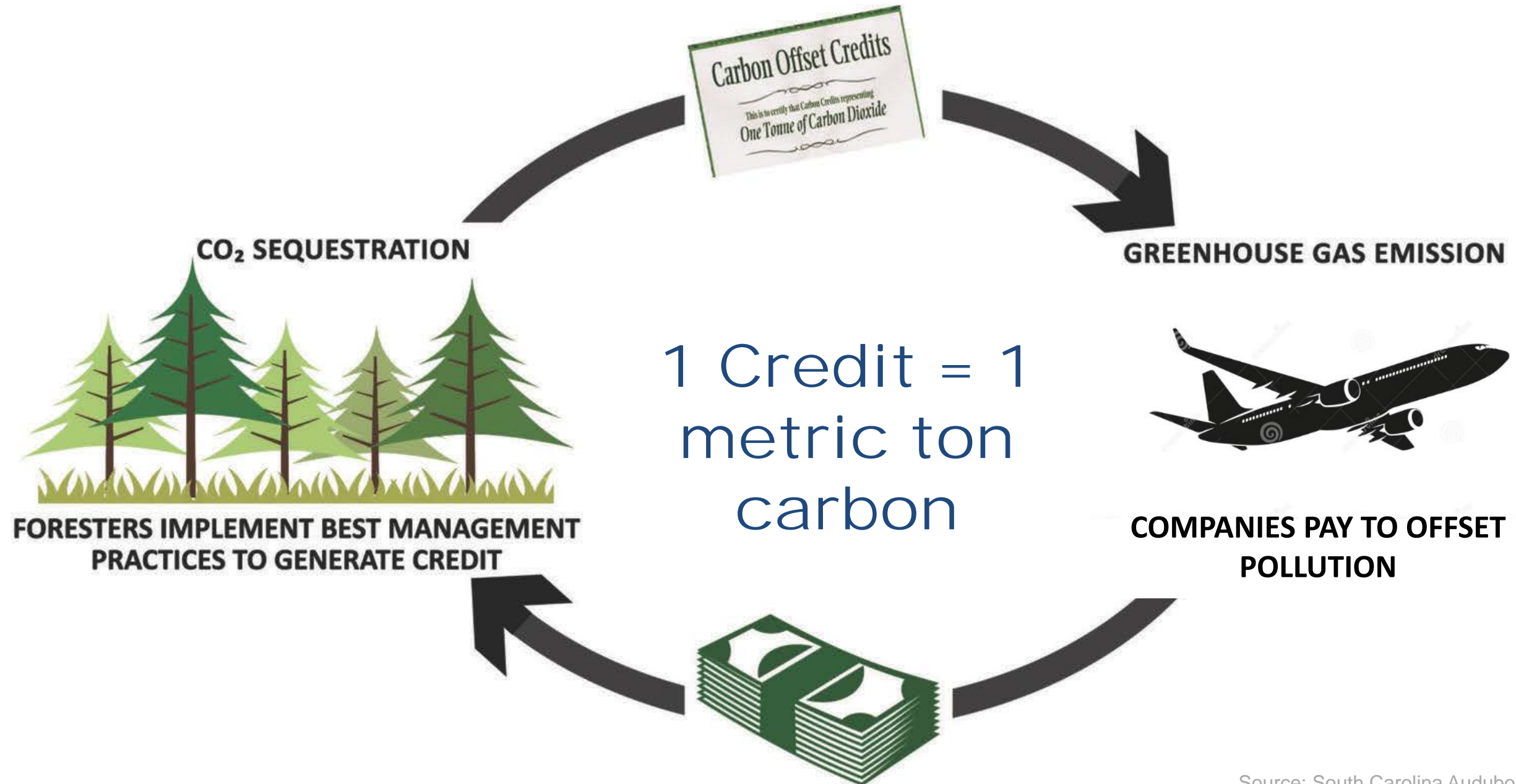


Enhance Your Woodland



Growing Older Forest

What is a forest carbon credit?



Benefits to the Landowner



Forest Health

Improved forest management practices promote long-term forest health.



Income

Guaranteed annual payments to help landowners care for their woods.



Technical Assistance

Access to professional foresters and a forest management plan

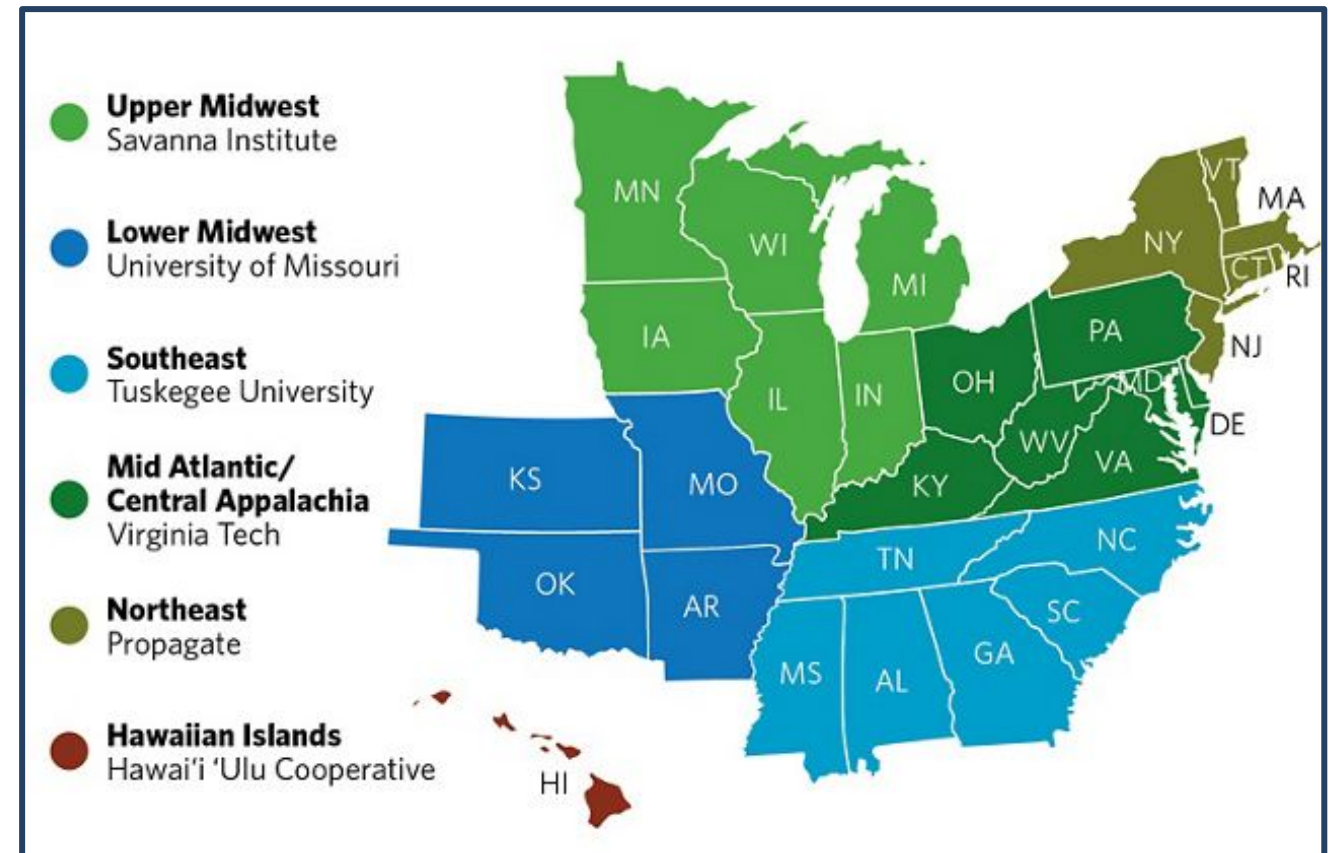


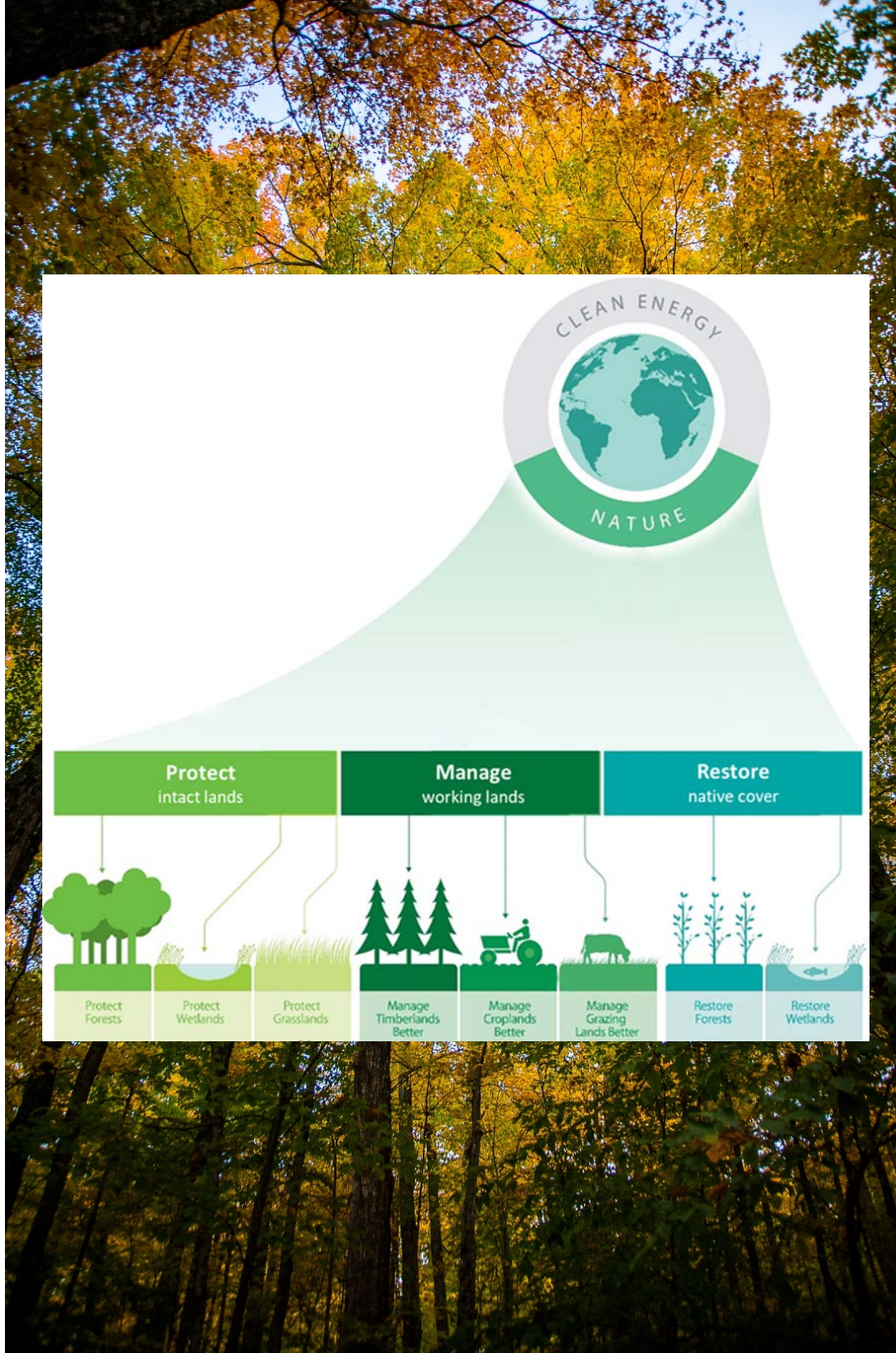
Community

Opportunity to connect with like-minded landowners

Expanding Agroforestry Production -

- **30,000 acres of new agroforestry plantings** over the next five years, across 30 states
- \$60 million – with \$36 million directly to producers
- Emphasis on underserved producers
- **New York's Role:**
 - Producer outreach and engagement
 - Nursery capacity
 - Species lists





New York State Climate Goals



NY state 2050 climate goals



Significantly reduce greenhouse gas **emissions** (85% from 1990 level)
Drive critical building and transportation **electrification**
Achieve economy-wide **carbon neutrality**

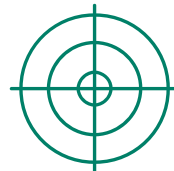
NY state reforestation goal



Plant **680M trees** on **1.7M acres** by **2040**
Resulting in 4.9+ MMT CO₂e of additional annual sequestration by 2050

TNC 2030
global goal

NY state 2033 interim goal



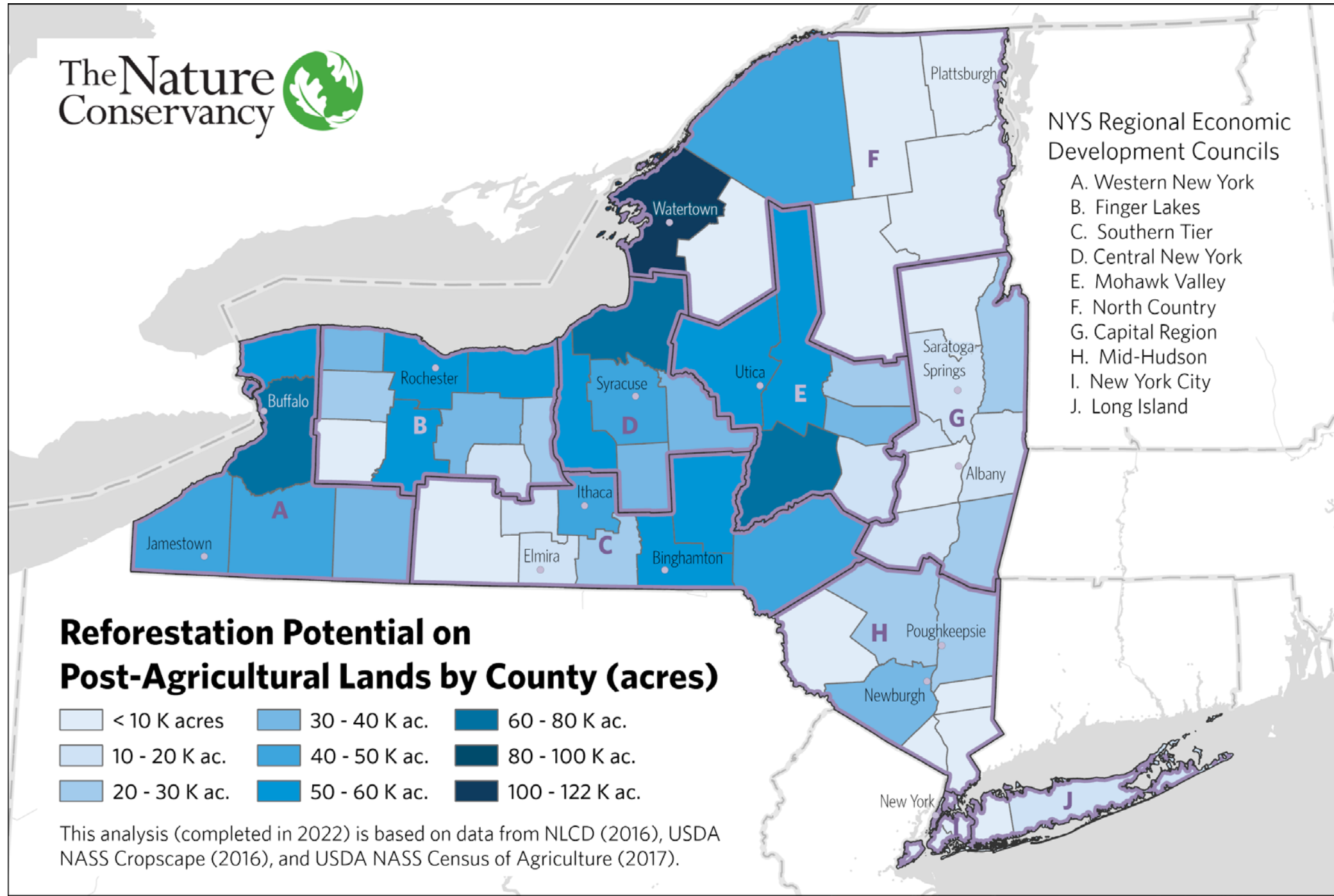
Governor Hochul recently set an **interim goal of 25M trees by 2033**
State has allocated **\$47M of FY25 budget** to stimulate planting

Challenges

- **Market Confidence**
- **Seed Sourcing**
 - Cleaning infrastructure
 - Collectors aging out
 - Climate impacts
- **Tree production**
 - Production based on current demand; nurseries need time to expand
 - Private nurseries need infrastructure
 - State nursery lacks funding with increased production costs
- **Post-planting monitoring and maintenance**
- **Landowner engagement and acceptance takes time, effort and trust**

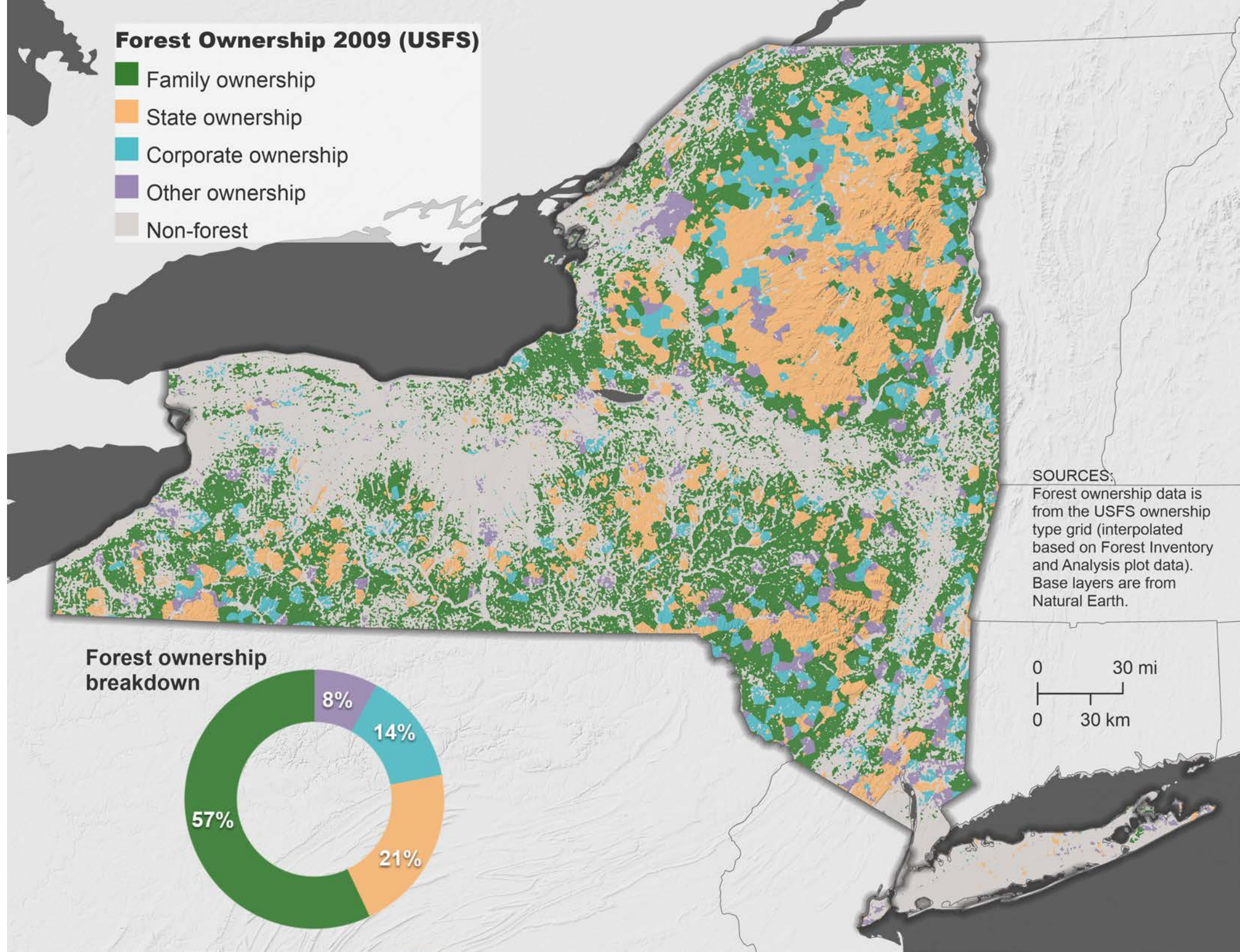


Reforestation Land Suitability



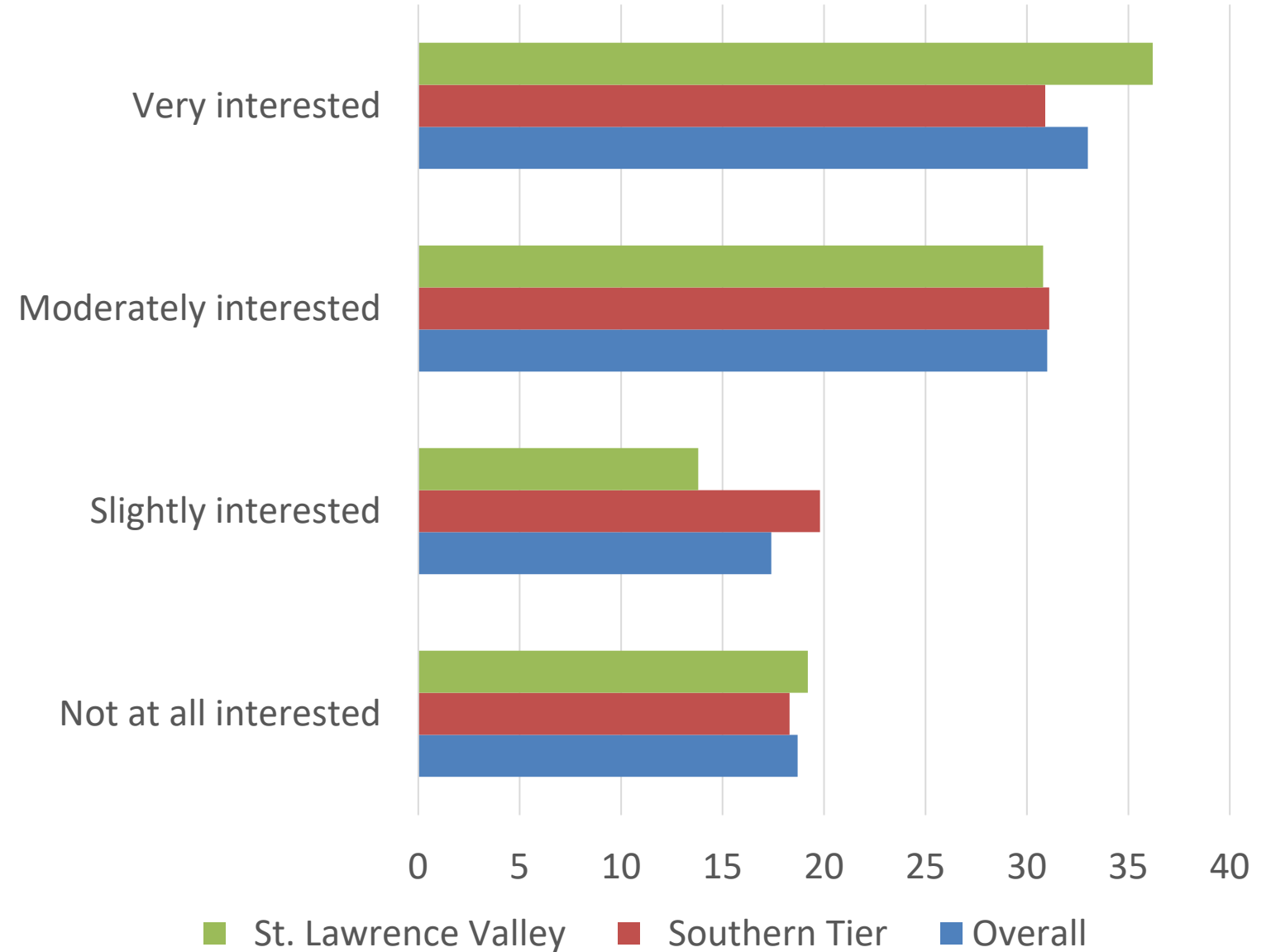
NY Forest Ownership

Private Forest Landowners are Key to Success



Landowner Willingness

How interested are landowners in converting their land to grow mature forest?



"True" Reforestation Opportunity



+



How to Scale?

We are developing a large-scale pilot to jumpstart tree planting in NY



Deliver results & build momentum

Show tangible progress against larger NY reforestation ambition to build momentum on path to 1.7M acres



Create scalable proof of concept

Prove it is possible to acquire land, scale seedling production, cost-effectively plant & monitor, and secure funding for a scalable pilot in NY



Test & learn to inform scaling & sustainability

Experiment with different reforestation models to gather insights that will inform future scaling and how NY State stakeholders can carry the program forward at-scale



Galvanize stakeholders

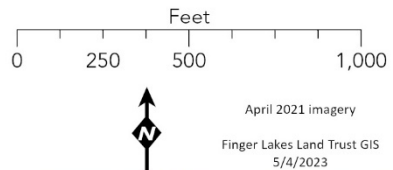
Create opportunities to engage & build excitement for reforestation with key internal & external stakeholders (donors, funders, public officials, etc.)

Scaling 1 tree at a time...

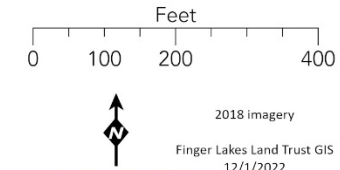




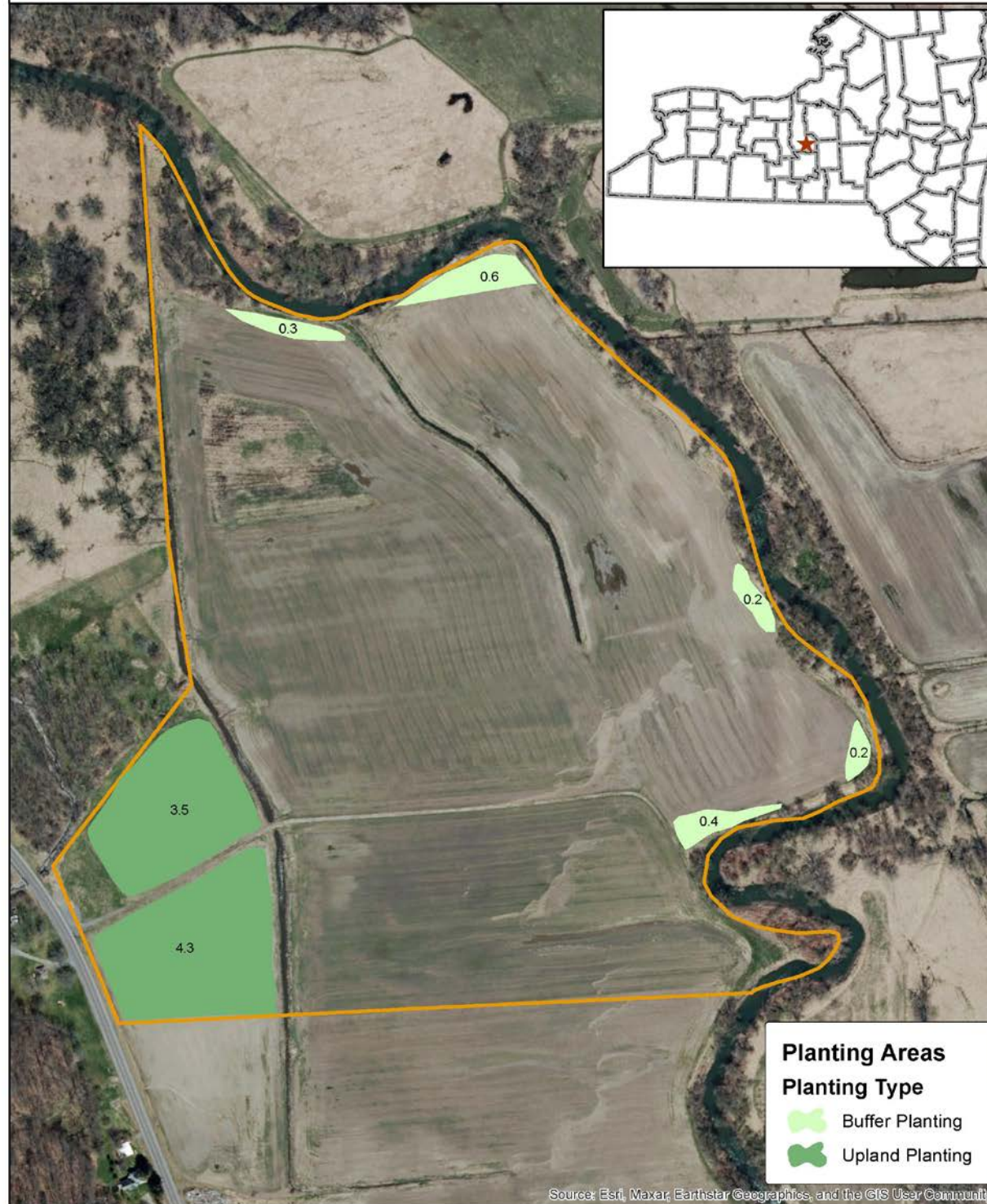
FINGER LAKES LAND TRUST
 Morris tradeland
 PROPOSED LAND PLAN - Rev. May 2023
 Ontario County, Town of Manchester
 85 acres



FINGER LAKES LAND TRUST
 Property of Paul & Kathryn Tunison
 29 ac | Parcel #2.-1-1.3
 Tompkins County, Town of Enfield
 178 Tucker Rd, Trumansburg, NY 14886



Parmley Reforestation Opportunities



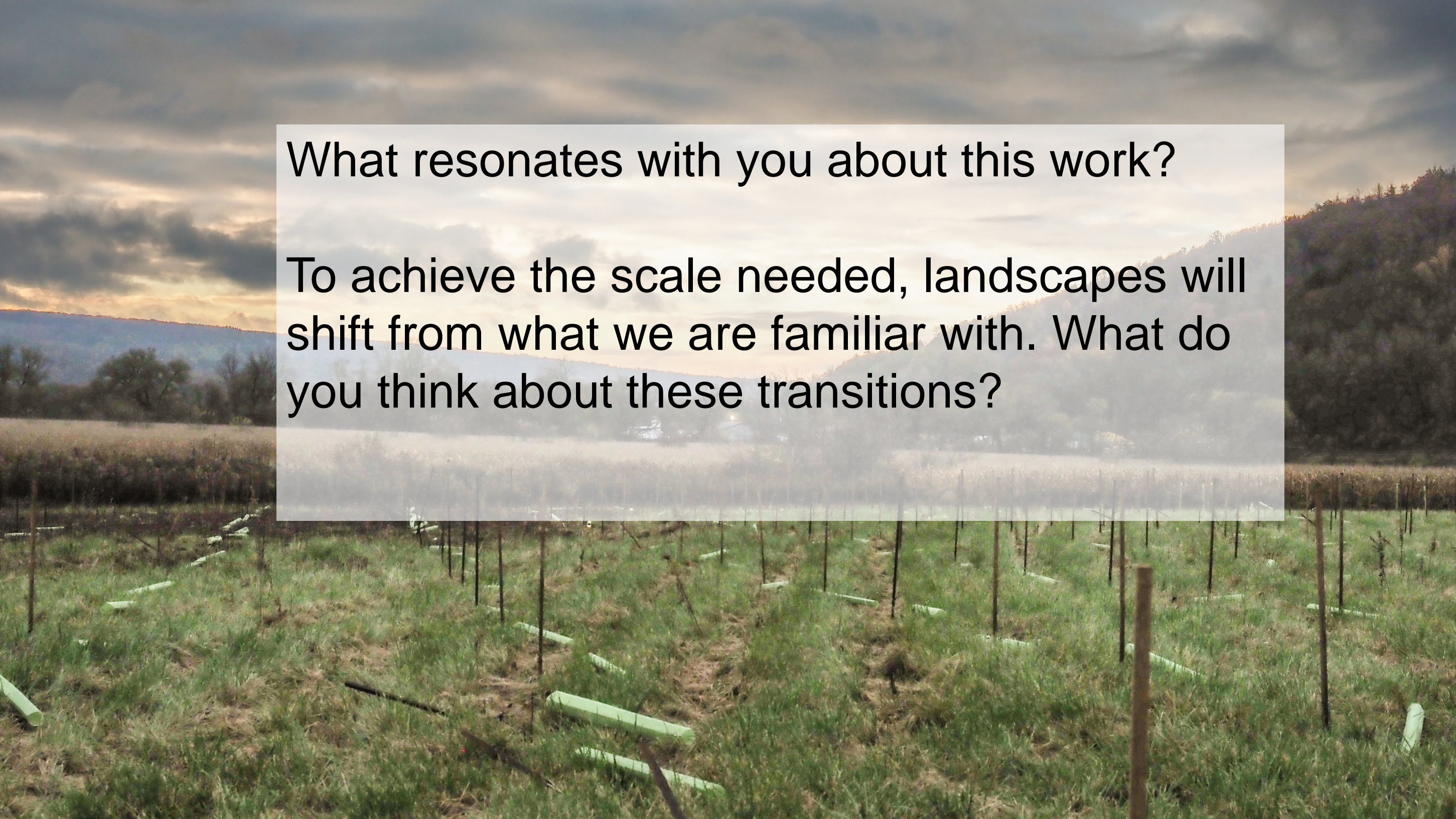












What resonates with you about this work?

To achieve the scale needed, landscapes will shift from what we are familiar with. What do you think about these transitions?

Thank you!

