FAMILY FOREST CARBON PROGRAM

Unlocking the carbon potential of America’s family forests
Climate Mitigation Potential, U.S., Land-Based

- “Natural Forest Management”
- 250 million tons / year
- ~60 million tons / year at ~$10 / ton or less
WHAT TECHNOLOGIES CAN HELP SOLVE CLIMATE CHANGE?
THE FORGOTTEN TECHNOLOGY

FORESTS
A Case Study: Forests
American Forest Carbon Initiative Goal
To accelerate large-scale natural climate solutions by offering new tools and markets to forest landowners.

- Working Woodlands
- Family Forest Carbon Program
- Forest Carbon Co-op
FAMILY FOREST CARBON PROGRAM

Unlocking the carbon potential of America’s family forests

CASE STUDY:
Family Forest Carbon Program
Family-Owned Forests are Key

- Families and individuals own the largest portion of U.S. forests
- More than the federal government or corporations
- This ownership group is vital for achieving meaningful conservation impact at scale
Most Family Forest Owners Own 20-500 acres

Family Forest Parcel Sizes

175 million acres, 2.6 million owners

175 million acres =
Less than 1,000 acres: 80% of the acres, less than 1% of the projects
What Motivates Landowners?

**Reasons for Owning Woodlands**

(FIGURE 7)

- **Enjoy beauty or scenery**: 50% (Very Important)
- **Protect or improve wildlife habitat**: 42% (Very Important)
- **Protect nature or biological diversity**: 36% (Very Important)
- **Privacy**: 49% (Very Important)
- **Recreation**: 34% (Very Important)
- **Protect water resources**: 31% (Very Important)
- **Pass land on to children/heirs**: 36% (Very Important)
- **Investment**: 18% (Somewhat Important)

Legend:
- Somewhat Important
- Important
- Very Important
Family Forest Owner Spotlight

Susan Benedict, Pennsylvania

- Susan’s forestland has been in her family for 3 generations.
- The cost of owning – and sustainably caring for land each year has been a significant barrier.
- Harvest, thinning, leasing the land, cost-share assistance and more have supported her thus far.
- But now she just wants her trees to grow. What’s next that will generate enough income to be able to steward the land sustainably?
Current Markets are Cost-Prohibitive for Family-Forest Owners

81% of family forest holdings by area < 1,000 acres (NWOS 2013)

Ex. yrs 1-10 total revenue $200/acre
By reaching 20% of family-owned forest acres by 2030, we have the potential to sequester at least 3.5 gigatons of CO2 by the end of the century, while improving wildlife habitat, overall forest health, water quality and recreational spaces.
The Family Forest Carbon Program

- Adopts a practice-based approach that offers incentives for specific forest management practices which have been scientifically demonstrated to enhance carbon sequestration.
- Engages family forest owners with trusted information and decades of experience working with private landowners.
- Reduces the expenses to landowners by 75% or more while creating a path to income.
- Offers carbon benefits to businesses to help them reach their sustainable development goals and demonstrate their leadership on climate issues while supporting an innovative program.
Family Forest Carbon Program

- Upfront $ to cover costs
- Maintenance payments
- Carbon and co-benefits produced
- 20 years, penalty for reversals

Periodic Monitoring
Bringing FFCP to the Central Appalachians
Growing Mature Forests

- 20-year contract
- One planned harvest allowed
  - No thinning from above
  - No mechanical removal of coarse woody debris
  - Harvest must use RIL-C
- Payments and carbon benefit depending on post-harvest residual basal area
Enhancing Future Forests

- 10-year contract
- Understory > 30% of competing shrubs, grasses, forbs on a former or future regeneration harvest site
## Staged Rollout in Central Apps

<table>
<thead>
<tr>
<th>STAGE</th>
<th>PURPOSE</th>
<th>SCALE</th>
<th>LAUNCHES</th>
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</thead>
<tbody>
<tr>
<td>Learning Pilot</td>
<td>Validate supply-side model</td>
<td>100 landowners; 8,500 acres; 195K tons</td>
<td>Q1 2020</td>
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<tr>
<td>Financial Pilot</td>
<td>Validate demand-side model</td>
<td>1,000 LOs; 85,000 acres; 1.9 million tons</td>
<td>Q3 2020</td>
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<tr>
<td>Scale</td>
<td>Material mitigation</td>
<td>6,900 LOs; 500,000 acres; 14.5 million tons</td>
<td>2022-2023</td>
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Future Practices, Other Regions

- Post-Fire Reforestation
- Hazardous Fuels Reduction
- Reduced Impact Logging for Carbon
Changing Rural Perceptions on Climate
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Questions?