



Stormwise Roadside Forest Management Demonstrations: Harvesting Techniques and Wood Product Value

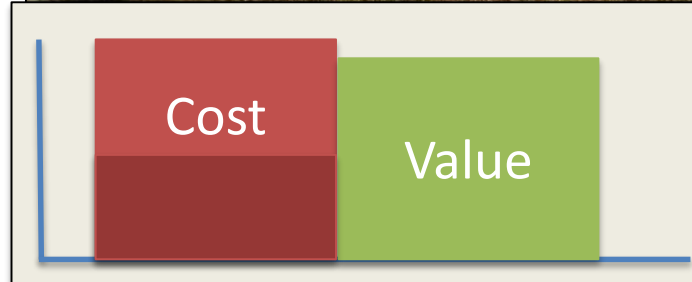
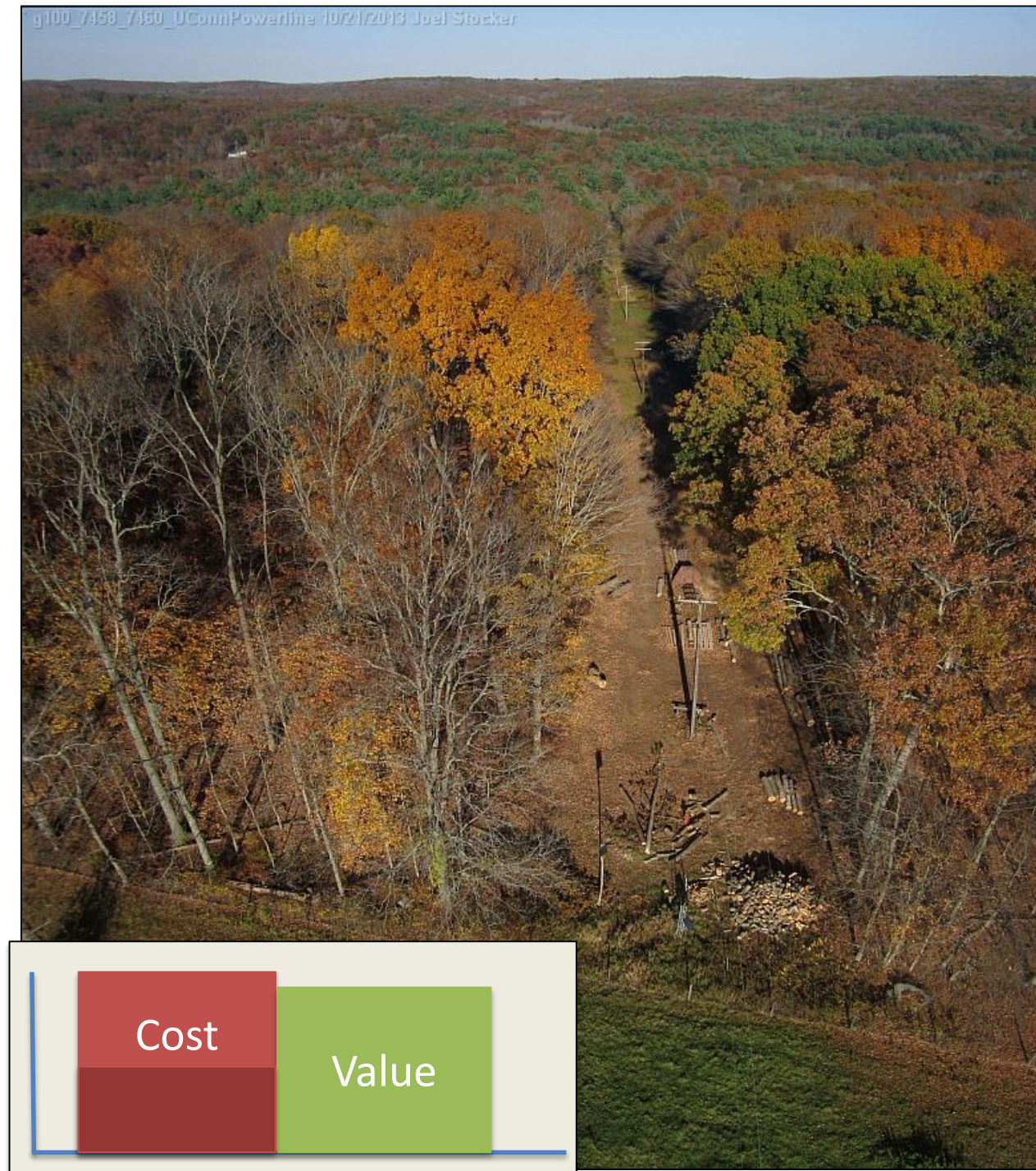


KEY PRINCIPLES:

1. Trees with space to grow are healthier trees.
2. Tree tops and branches grow toward the sunlight.
3. Trees allowed to move in the wind develop wind-firmness.
4. The right trees need to be growing in the right place.

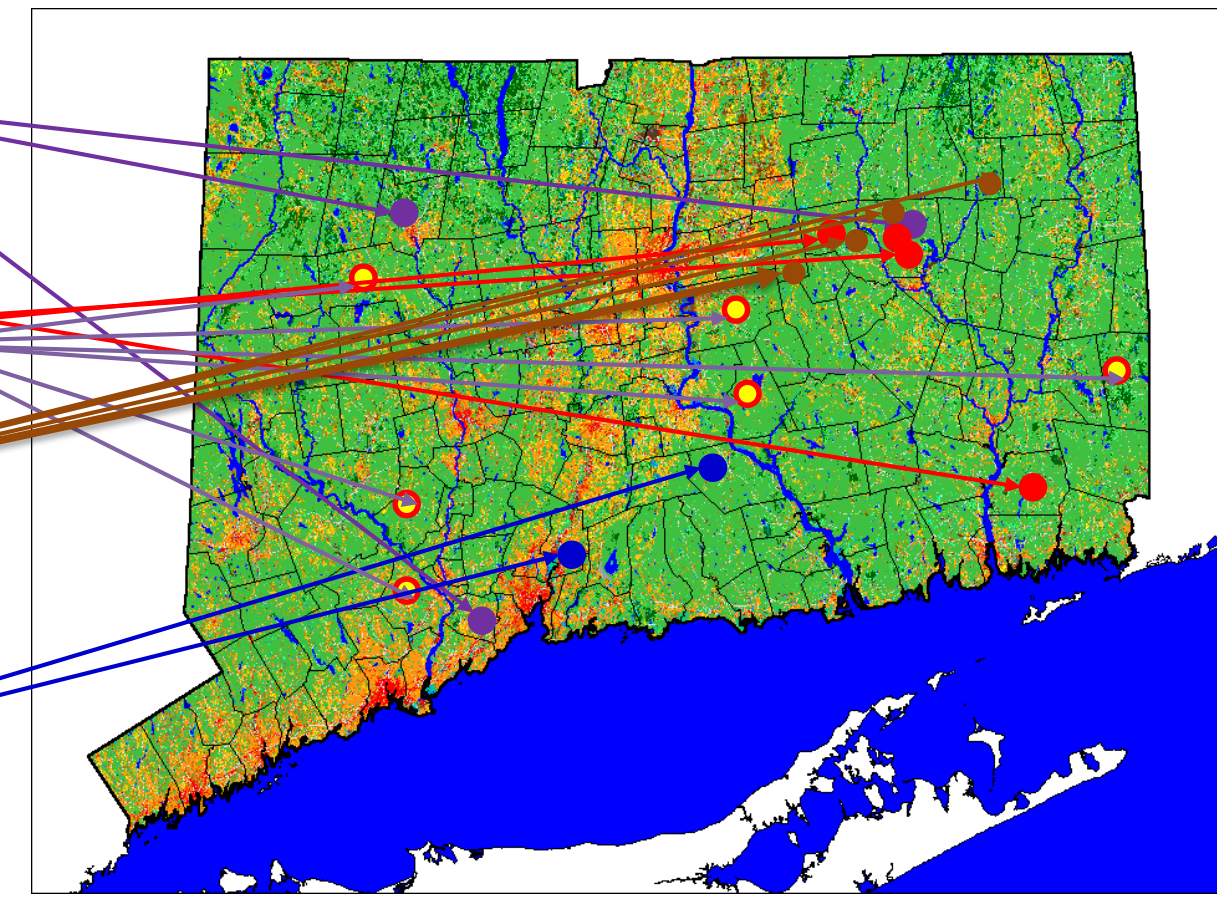
Storrs Research and Demonstration Site

- Small-scale harvesting
- Interior trees felled first
- Edge trees felled by arborist crew
- Logs sold roadside
- One-acre cost approx. \$6600.00
- (Approximately 50:50 arborist/woods crew costs)
- Yield:
 - 3600 bd ft of high grade logs, value: \$2400.
 - 2800 bd ft of low grade logs, value: \$900.
 - 8 cord fuelwood, value: \$1200.
 - 1500 bd ft miscellaneous sawn material value: \$1800.
- Total estimated product value: \$6300.00
- Some loss due to log spec. errors



Research and Demonstration Site Locations:

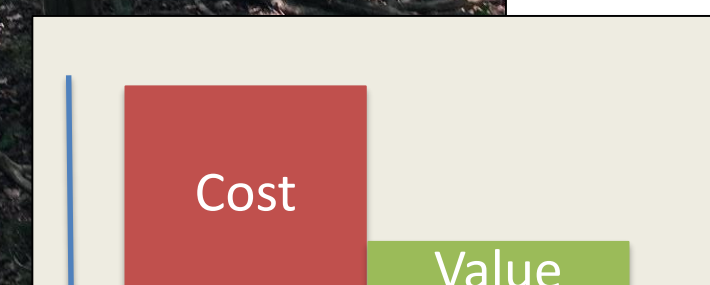
- Tree biomechanics research
- Roadside forest stand management demonstration sites CAES & UConn
- Remote Sensing
- Value Recovery Pilot Projects



LONG-TERM GOALS

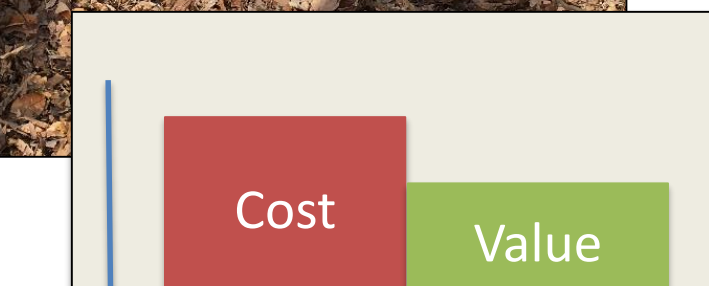
- Fewer tree-related outages
- Outages that occur are shorter duration
- Management and trimming rotations are extended
- Ground-level future maintenance

Torrington Research and Demonstration Site



- Chain saw harvesting only
- Edge trees treated by ETT
- Wood sold in place.
- One-acre cost approx. \$2800.00
- Yield: 15 cord fuelwood, value: \$375.00

Orange Research and Demonstration Site



- Small-scale harvesting
- Edge trees topped by utility crew (ETT practice)
- Logs and wood sold roadside
- One-acre cost approx. \$2600.00
- Yield:
 - 3300 bd ft of low grade logs, value: \$1155.00
 - 10 cord fuelwood, value: \$250.00
- Total estimated product value: \$1405.00



Chaffeeville Demonstration Site

Coventry Demonstration Site

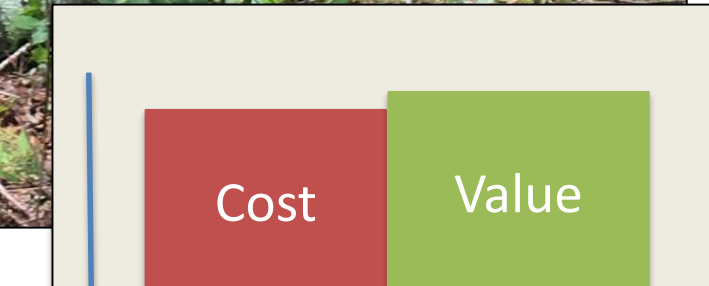


- Small-scale harvesting
- Edge trees topped by contracted arborist crew
- Logs Processed
- Wood sold by state

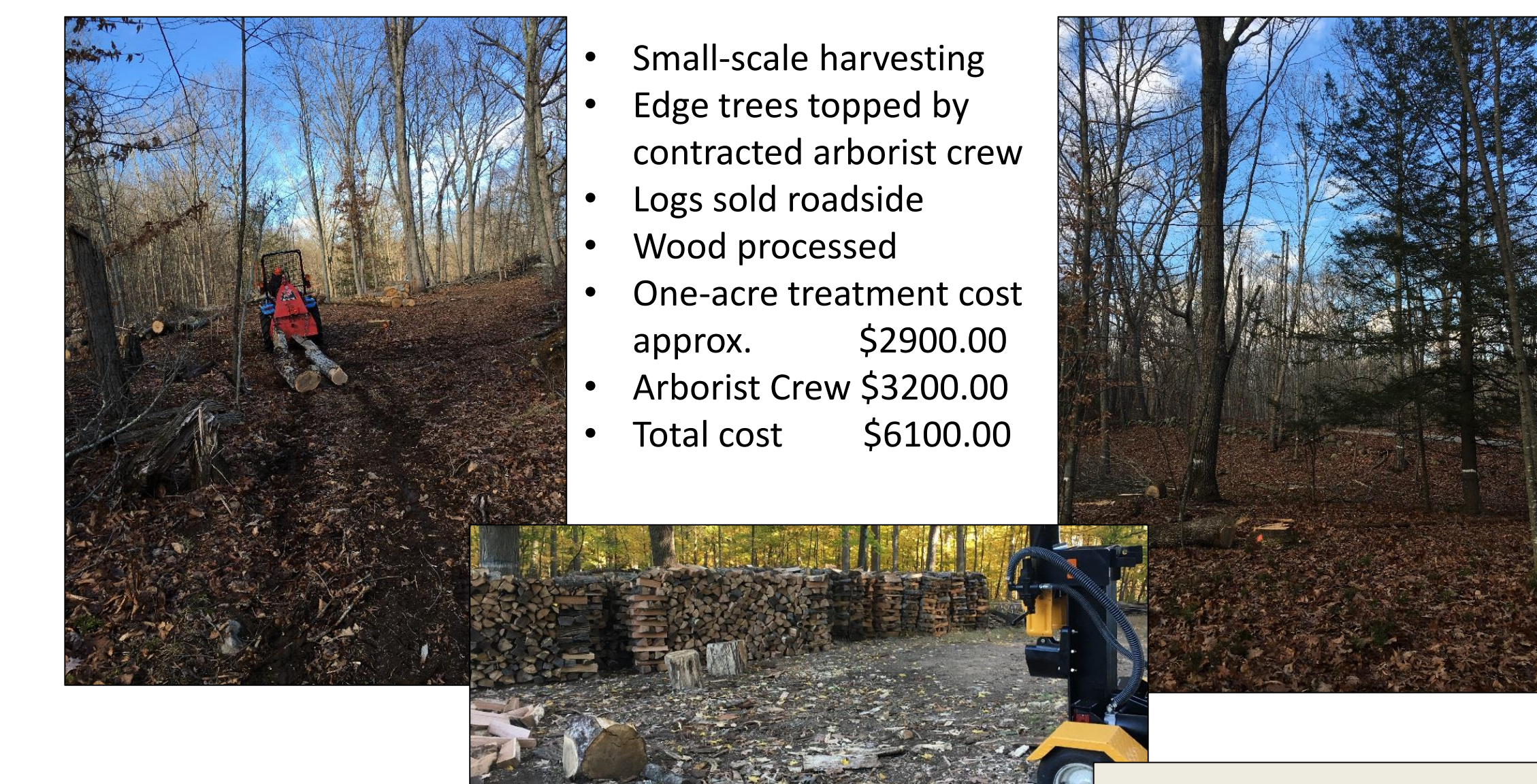


- One-acre treatment cost approx. \$5760.00
- Arborist Crew \$3200.00
- Total cost \$8960.00
- Yield:
 - 5800 bd ft of mixed dimension lumber, value: @ \$1.60/bf = \$9280.00
 - 10 cord fuelwood, value: \$250.00
 - Total estimated product value: \$9530.00

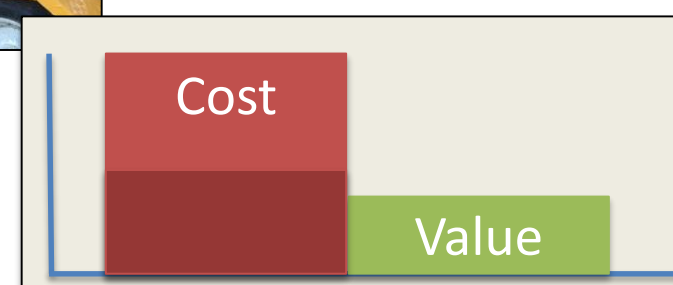
Voluntown Demonstration Site



- Small-scale harvesting
- Interior and topped trees felled by woods crew
- Edge trees topped by utility arborist crew first
- Logs processed
- Wood sold by the state
- One-acre cost approx. \$7200.00
- Yield:
 - 4750 bd ft of mixed dimension lumber value: \$7600.00
 - 12 cord fuelwood, value: \$300.00
- Total estimated product value: \$7900.00
- Estimates without value-add:
 - Cost: \$4000.00
 - Wood value: \$2200.00

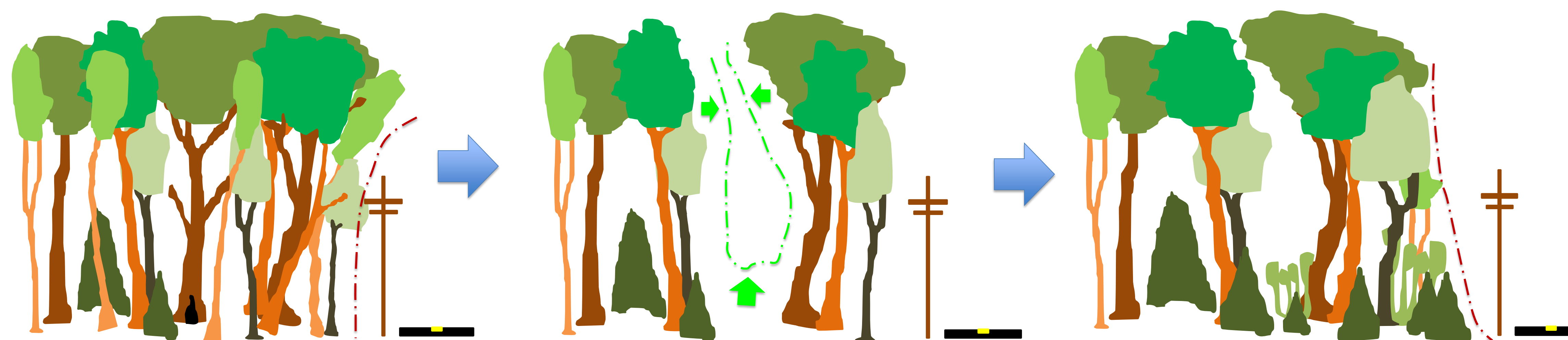


- Small-scale harvesting
- Edge trees topped by contracted arborist crew
- Logs sold roadside
- Wood processed
- One-acre treatment cost approx. \$2900.00
- Arborist Crew \$3200.00
- Total cost \$6100.00
- Yield:
 - 4600 bd ft of mixed grade logs, value: \$1955.00
 - 15 cord fuelwood, value: \$375.00 (\$2475)
- Total estimated product value: \$2330.00



Project Team:

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- Dr. Jeffrey Ward (CAES)
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- Nancy Marek
- Amanda Bunce
- Daniel Hale
- UConn Forest Crew



Establishing attractive, ecologically functional and low-wind-risk roadside forests

Project Partners:

