# Implementing Natural Solutions to Climate Change

Essex County Open Space Conference Webinar – December 2, 2020

Lisa Hayden – Outreach Manager, NEFF







## NEFF's Mission

Through our core expertise in conserving forestland and advancing Exemplary Forestry, **New England Forestry** Foundation (NEFF) helps the people of New England to sustain their way of life, protect forest wildlife habitat and ecosystem services, and mitigate and adapt to climate change.





# FORESTS & CLIMATE SOLUTIONS

**ADAPTATION - MITIGATION** 

#### Conservation is a Climate Action!

...Building resilience through land protection



#### Synergy of Forest Resilience and Carbon

- Without successful adaptation of our forests to a rapidly changing climate, this carbon sink may not be a permanent one
- Climate-informed silviculture is an important tool available to keep our forest ecosystems healthy so they can bounce back from disturbance and remain functional



#### SEEING THE FOREST

A SYSTEMS APPROACH



#### Part 1: End Forest Conversion

Whether for agriculture in the Amazon or for homes near Amherst deforestation releases carbon already stored and eliminates future potential to store more





#### Part 2: Manage Forests Better

#### NEFF'S EXEMPLARY FORESTRY

#### Enhance Wildlife Habitat

for full suite of species present

↑ Wood Quality & Quantity produced & retained in stands over time

Enhance Role of
Forests in
Mitigating Climate
Change

- ✓ Operating at landscape scale
- ✓ Specific, measurable metrics
- ✓ Enhancing ecological values from water quality to carbon sequestration



#### Part 3: Build Wood Buildings



"The Metro Mayors
Coalition will need to add
185,000 housing units
from 2015 – 2030 in
order to meet demand
and reduce – or at least
stabilize -- housing
costs."

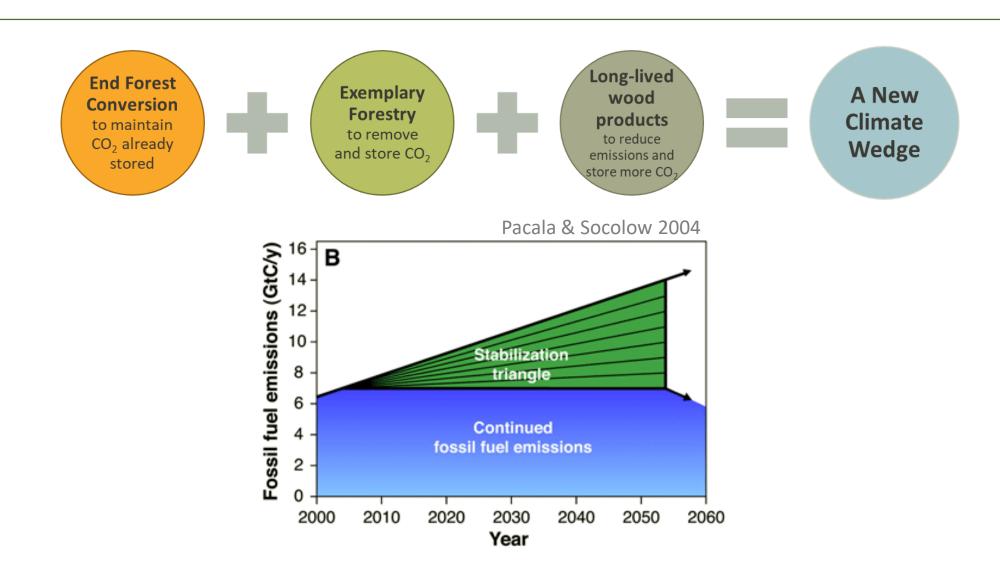
#### Forests to Cities Climate Challenge

- ✓ Substitute for more carbon-intensive materials (plastic, steel, concrete)
- ✓ Long-term carbon storage in the products themselves including mid-rise wood buildings



NEFF: <a href="https://foresttocities.org/">https://foresttocities.org/</a>

#### A Systems Approach



#### Grow, Build, Live - Webinar Series



Trees to Table – January Woods to Home – February Forests to Cities – March

#### Request Link to Register:

https://docs.google.com/forms/d/e/1FAIpQLSfYYxxFZWKLt2A29 LYcS7FoU6eswoeO7AEyBoowAGEBBHoMUA/viewform





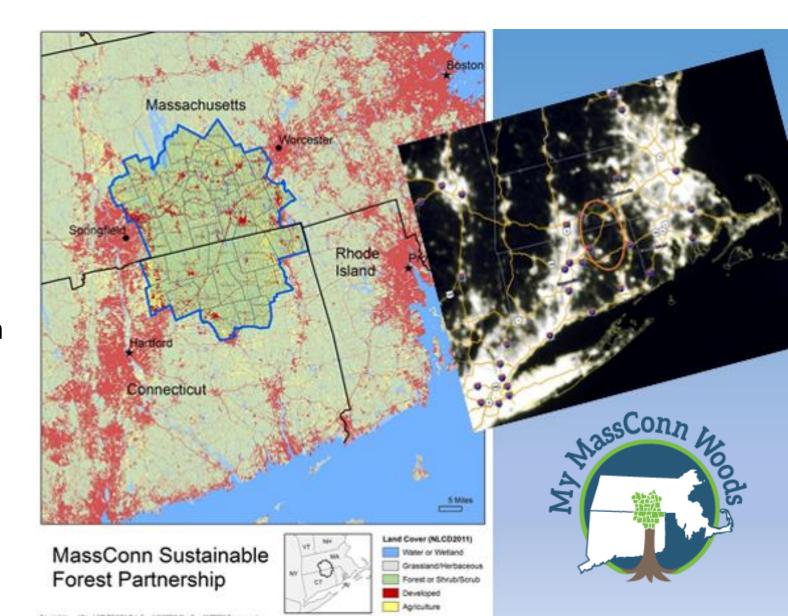
# HOW CAN WOODLAND OWNERS ADAPT?

#### IDENTIFYING RESILIENCE PRACTICES

#### Landowner Outreach in the MassConn Woods

- Climate adaptation visits by NIACS-trained foresters (NEFF, American Forest Foundation, MassConn partnership)
- 102 private owner visits completed on combined 8100 acres in 38-town, 2-state region since 2016

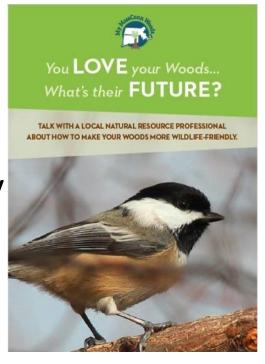


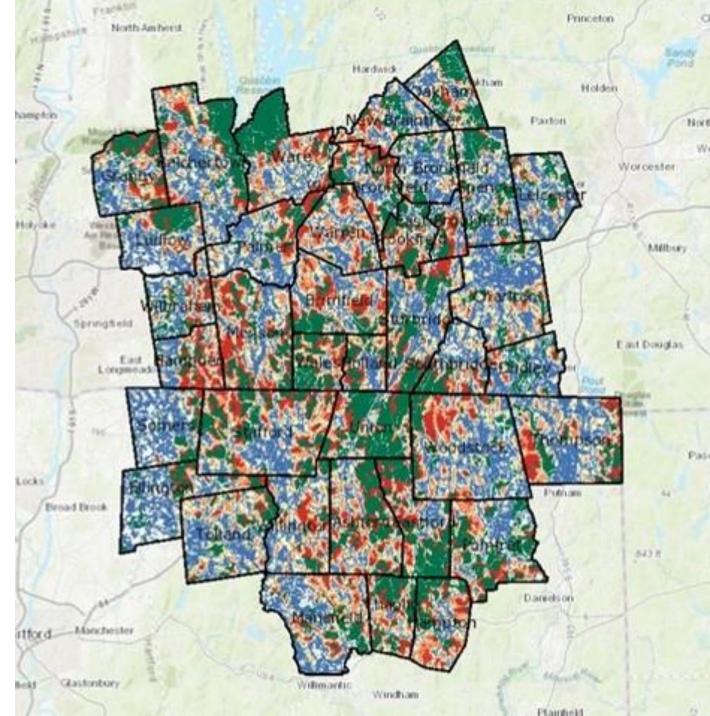


MassConn
 ecological
 priorities –
 Red = top 20%

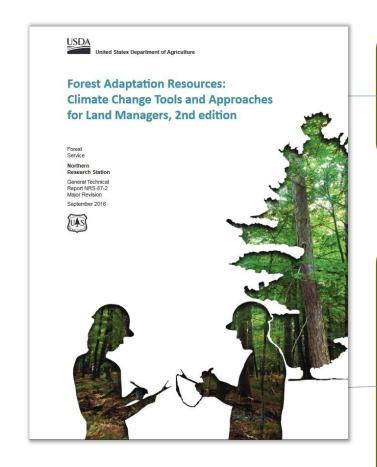
Tool for strategic

landowner outreach:
25+ acres,
high-ranking parcels for conservation/resilience





#### Forest Adaptation Resources



Swanston et al. 2016; <a href="https://www.forestadaptation.org/far">www.forestadaptation.org/far</a>

#### **Strategies & Approaches**

Menu of adaptation actions



 Structured process to integrate climate change considerations into management

Workbook approach

5 2

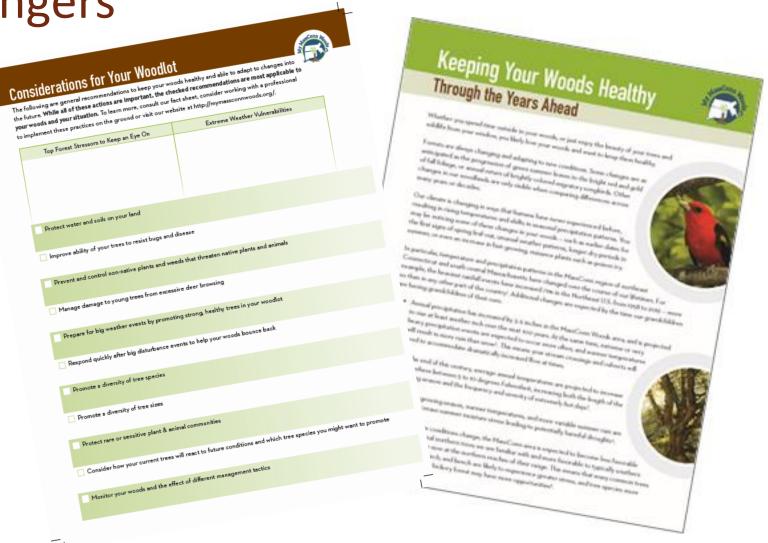
4 3

MassConn Woods goal: Equip Foresters to be

**Adaptation Messengers** 

• Find trusted spokespeople

- Lead with politically neutral messages
- Focus on local impacts/responses



#### Considerations for Your Woodlot



Climate-Informed Practices:

- ✓Treated/removed invasives (12 acres barberry, knotweed, multiflora rose)
- ✓Timber harvested to diversify age classes & species (40 acres)
- ✓ Clear-cut with reserves for wildlife habitat (4.5 acres)

#### COMMUNICATING CLIMATE

**OUTREACH LESSONS** 

## Talking climate... Finding common ground



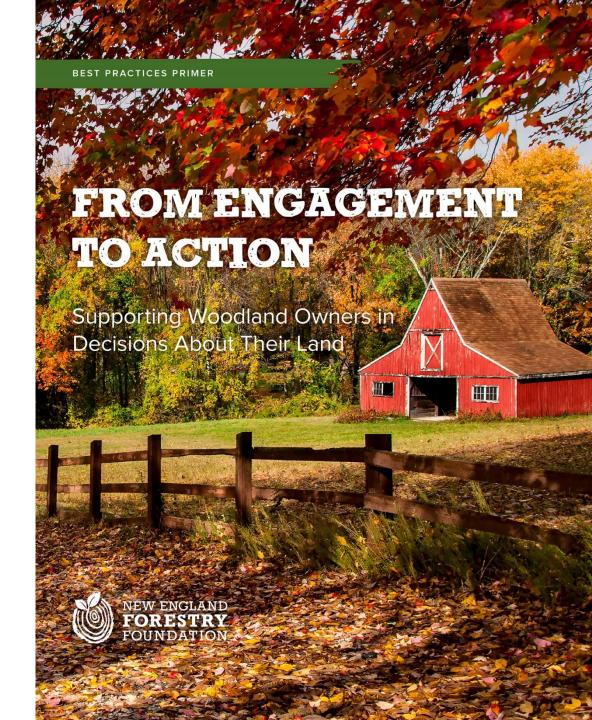
#### From Engagement to Action...

 NEFF report on importance of strategic and sustained outreach to landowners not already plugged into peer networks

Available for download from NEFF's web site:

https://newenglandforestry.org/ connect/publications/fromengagement-to-action/





## The crucial private landowner audience...

- 215,000 private New England woodland owners of 10+ acres
  - MA: 26,000 ownerships
- Owners of undeveloped lands –
   whether permanently protected or not
  - will decide the future of our forests
    - Will we manage with exemplary forestry, for forest carbon and resilience?

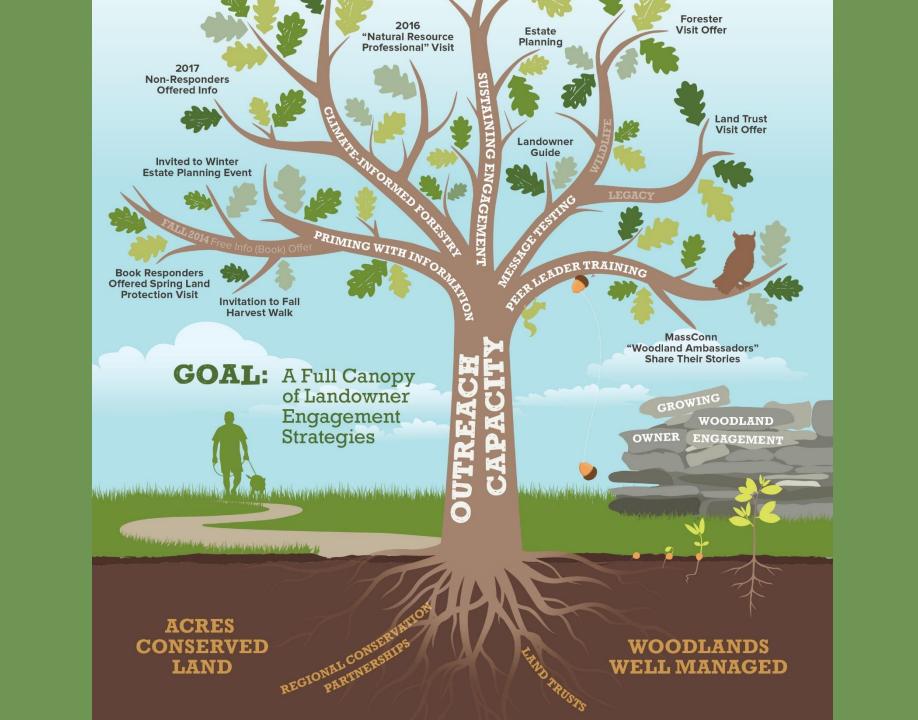




# Patterns of Landowner Engagement Over Time

Steps
on the
pathway...

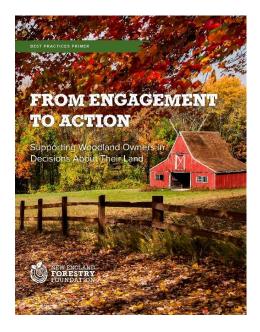


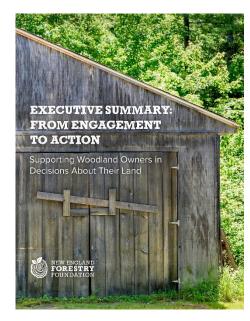


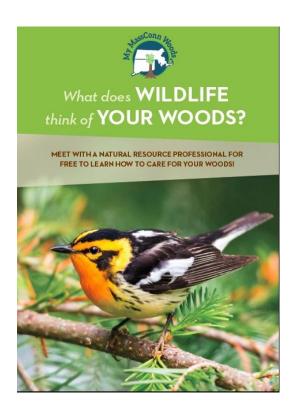
#### **Key Resources**

From Engagement to Action... Outreach report

https://newenglandforestry.org/connect/publications/ from-engagement-to-action/







To access resources developed for the MassConn Woods RCP, visit:

http://www.forestadaptation.org/massconn

LTA/ MA ECAN Climate Communications recommendations:

https://climatechange.lta.org/recommendations-forcommunicating/

### Questions?



#### Do you talk about climate change?

To Family, relatives?....

Friends or neighbors?...

Landowners, members, donors?

## Communicating about Climate Change ... 5 Research-based Recommendations (MA ECAN)

- 1. Lead with politically neutral messages
- 2. Find trusted spokespeople to deliver your message
- 3. Focus on local impacts/responses, rather than causes
- 4. Avoid technical jargon keep it simple
- 5. Use photos to tell a story: faces, people doing desired actions

#### Sources and Resources

• LTA/ MA ECAN Climate Communications recommendations:

https://climatechange.lta.org/recommendations-for-communicating/

Annotated references for climate communications practices:

https://docs.google.com/document/d/1ZGqs4hdGNkJRe287Z7MOSix2iW7bdt2Mpy 1NOImOciU/edit

Six America's Super Short Survey (SASSY!)

https://climatecommunication.yale.edu/visualizations-data/sassy/

- **Urgency and Risky Words:** <a href="https://sparkneuro.com/case-studies/rebranding-climate-change/">https://sparkneuro.com/case-studies/rebranding-climate-change/</a>
- ecoAmerica Let's Talk Climate: Messages to Motivate Americans:

http://ecoamerica.org/wp-content/uploads/2015/11/eA-lets-talk-climate.pdf