



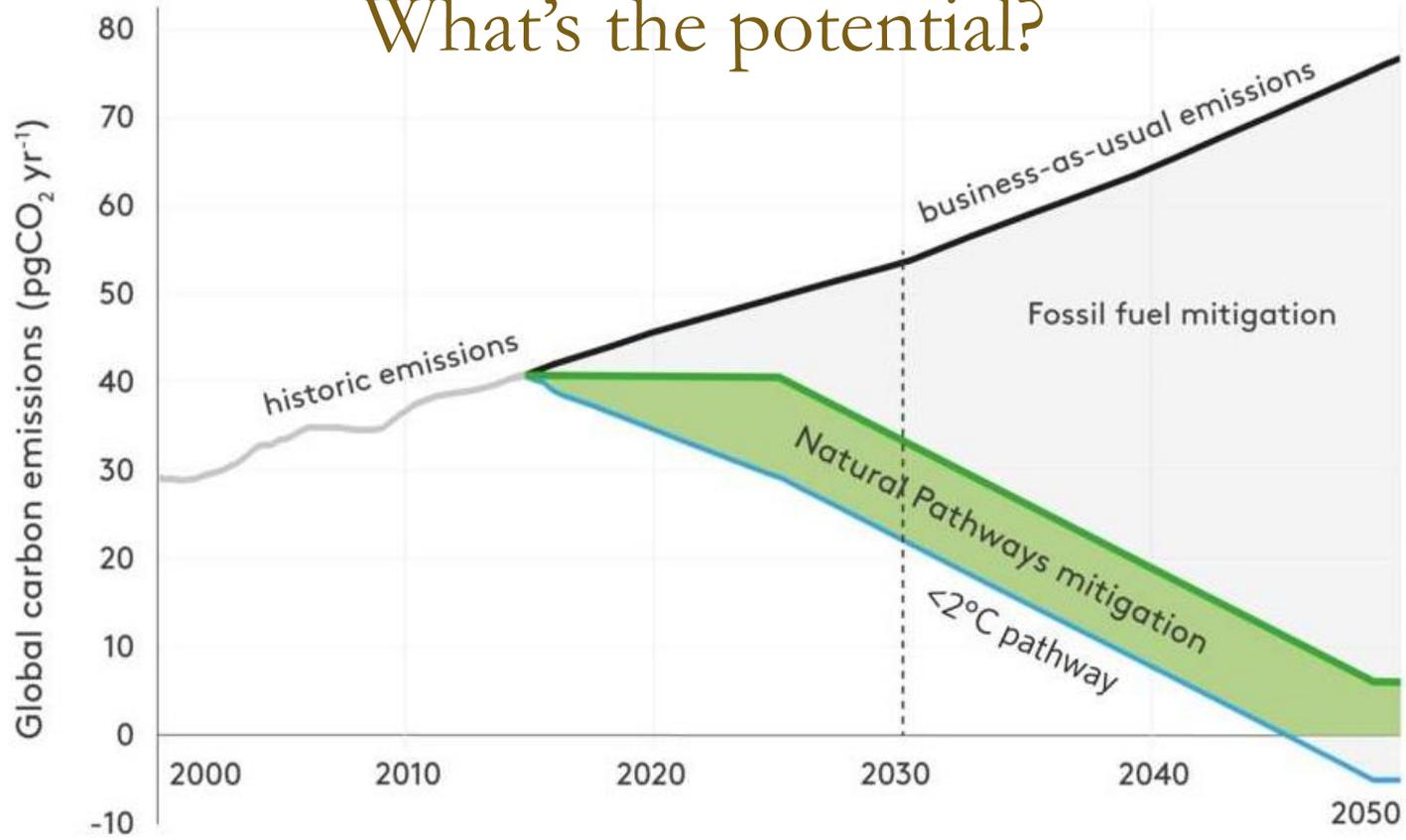
The Family Forest Carbon Program: Opportunities for Small Landowners

Vermont Carbon Sequestration Working Group

September 16, 2019

Josh Parrish, The Nature Conservancy

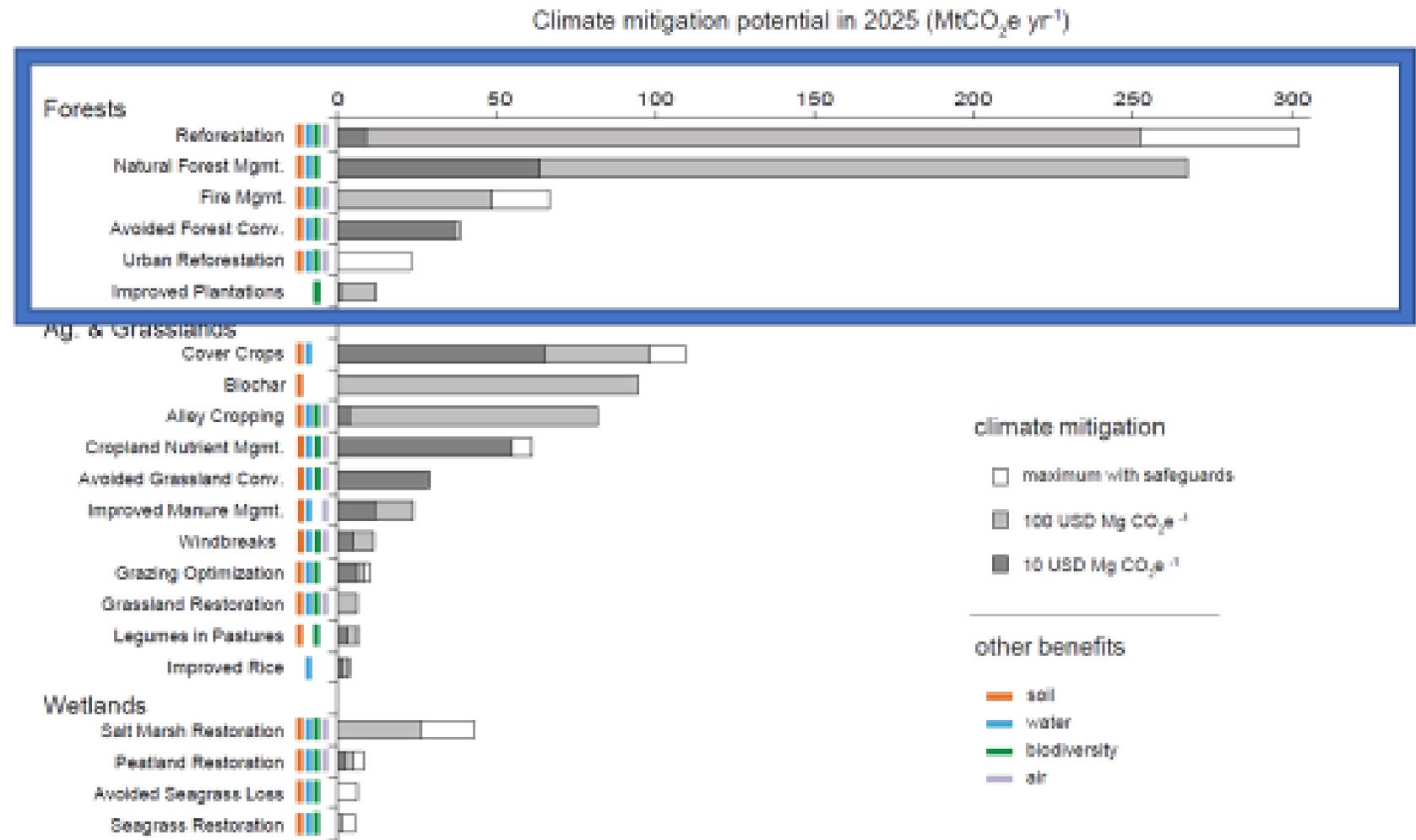
What's the potential?



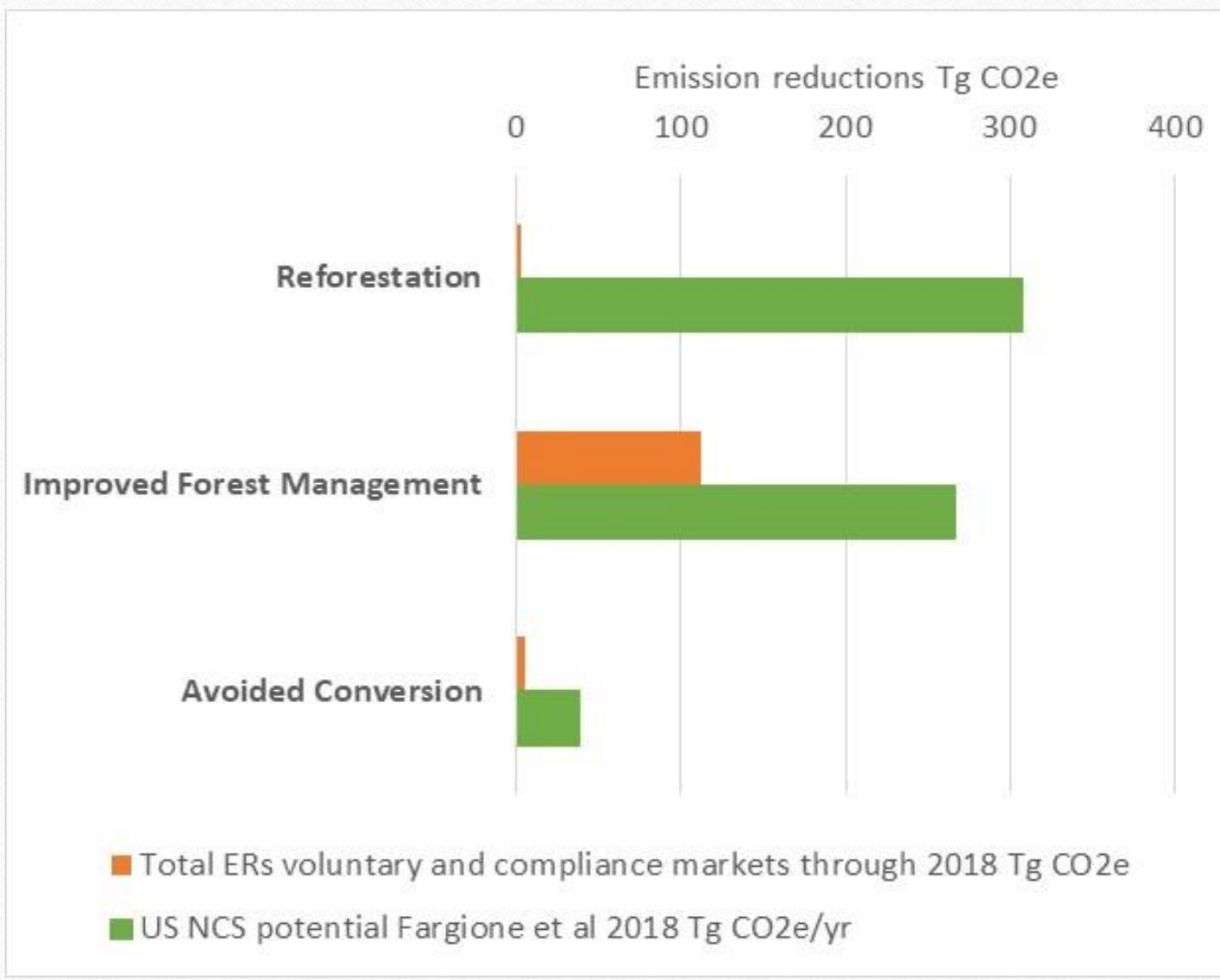
Contribution of natural climate solutions (NCS) to stabilizing warming below 2°C. Reproduced with permission from Proceedings of the National Academy of Sciences.

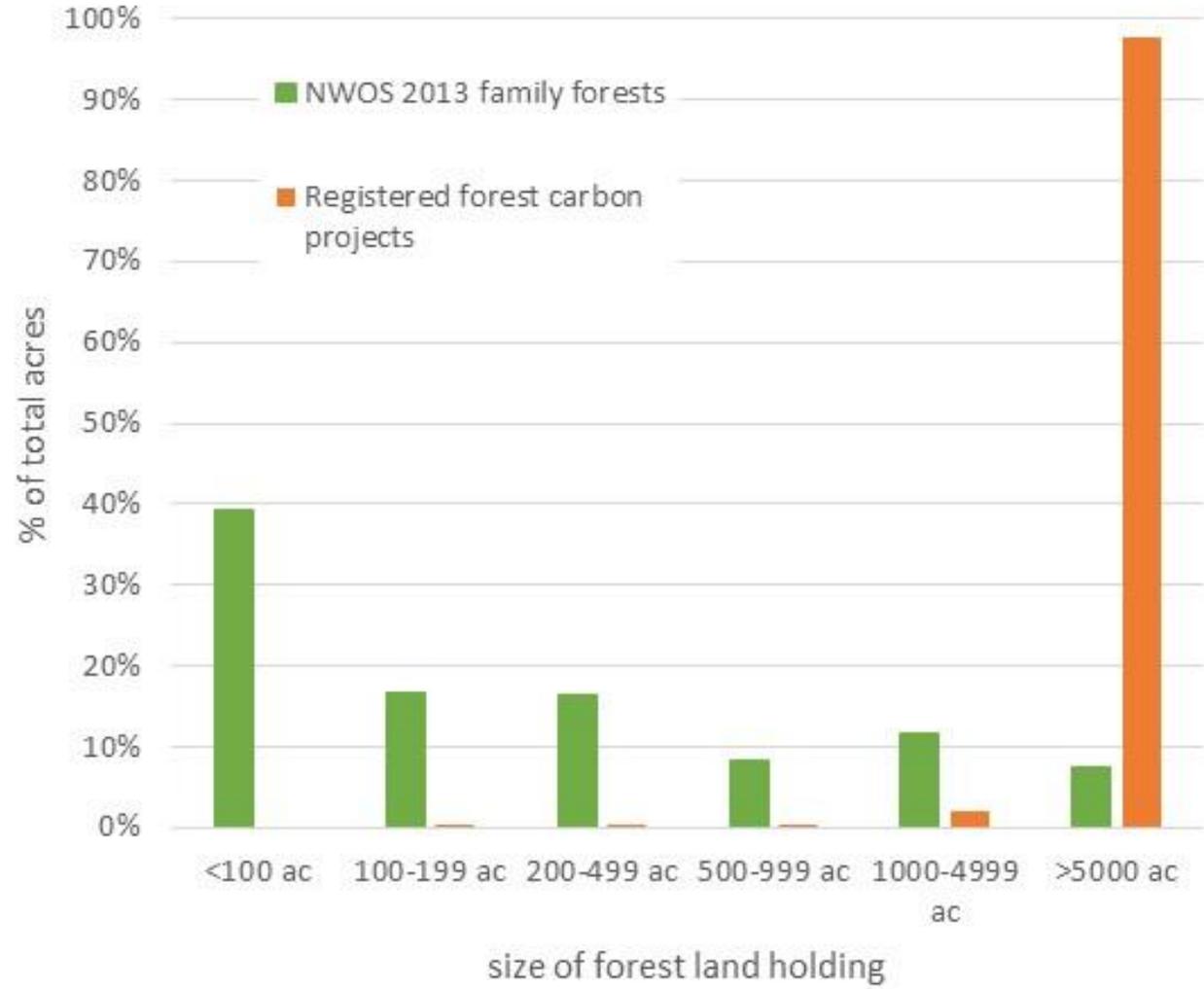
Natural Climate Solutions in the USA suggest...

...forests are the answer.

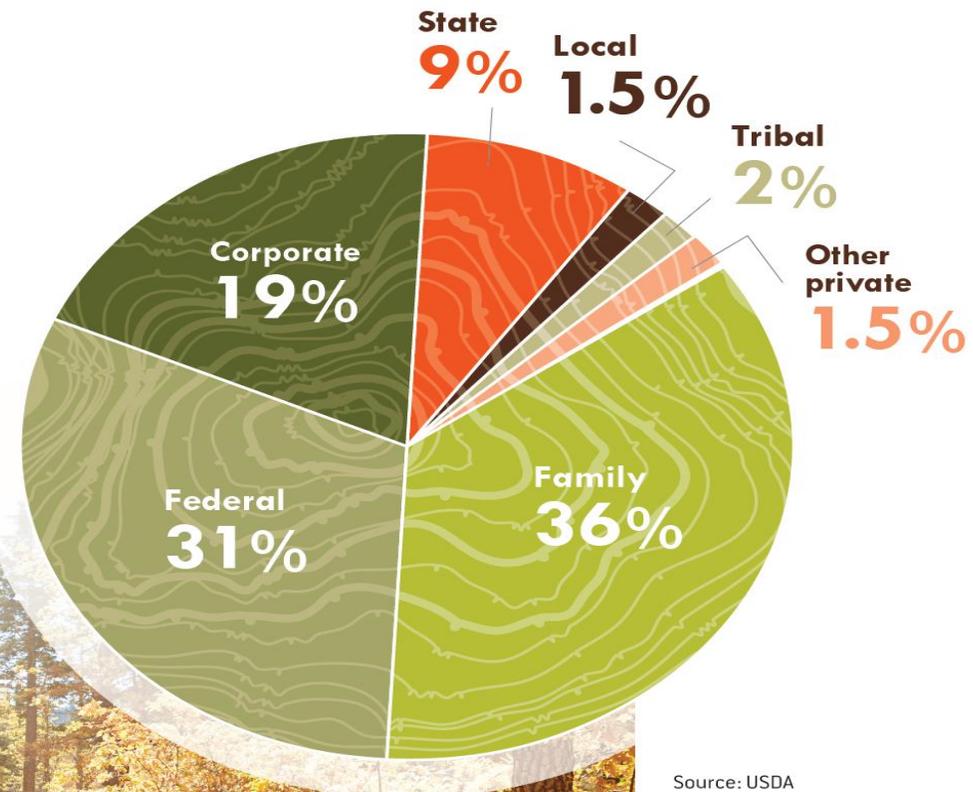


Source: Fargione et al., Science Advances

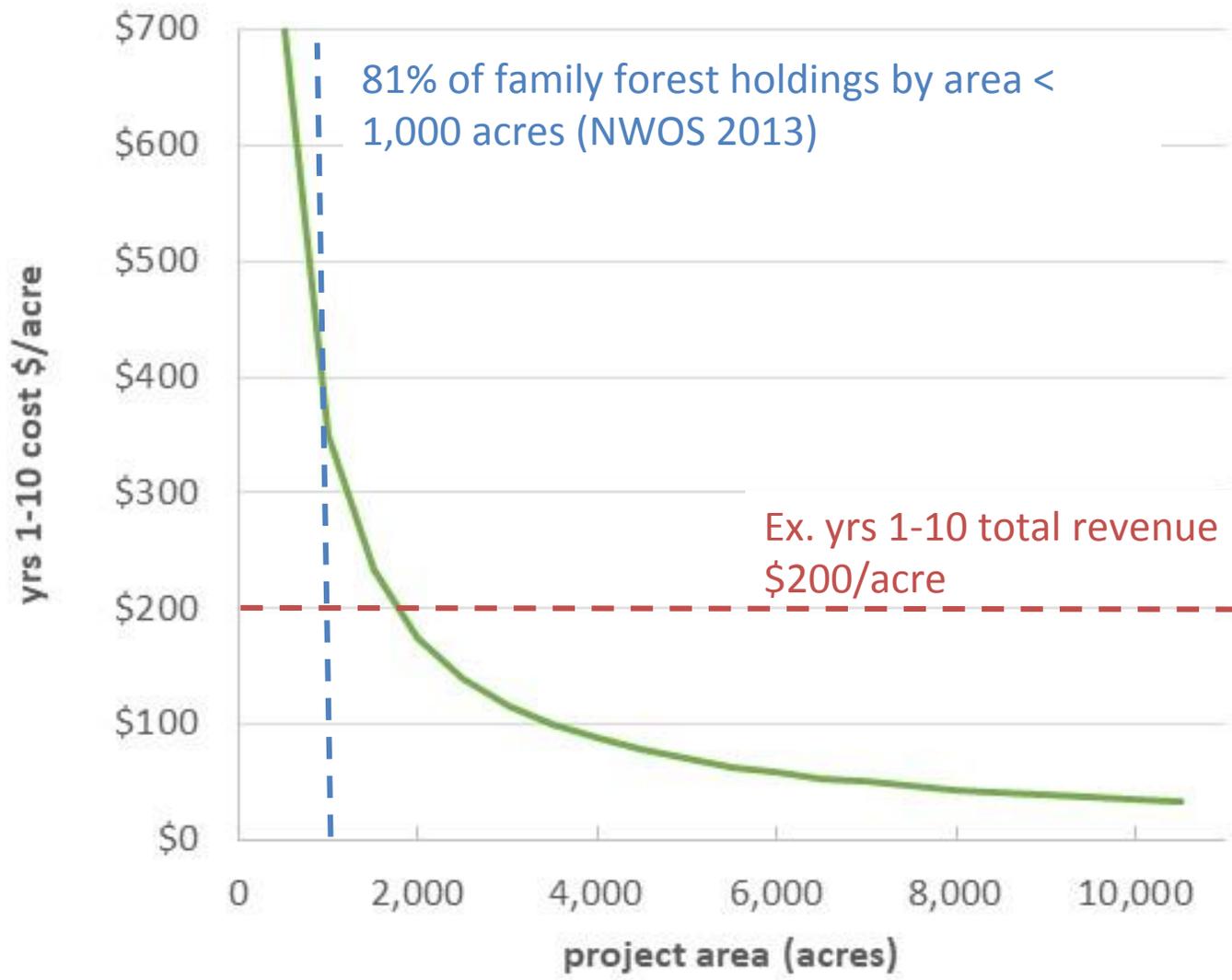




WHO OWNS AMERICA'S FORESTS



Source: USDA



What's our impact?

If 20% of family forest acres (54 million) were managed using carbon-friendly practices by 2030, we could meaningfully contribute to our original Paris Accord goals.

How will the Family Forest Carbon Program work?

Practice-Based Approach

Requires looking at problem from a different perspective



Scientific Validation, Monitoring, Calibration
(random sample of properties)

Best Carbon Practices Verified by Foresters

Landowner x



Landowner y



Landowner z



Payments to Landowners for Best Carbon Practices



Piloting the Program in California and Central Appalachians

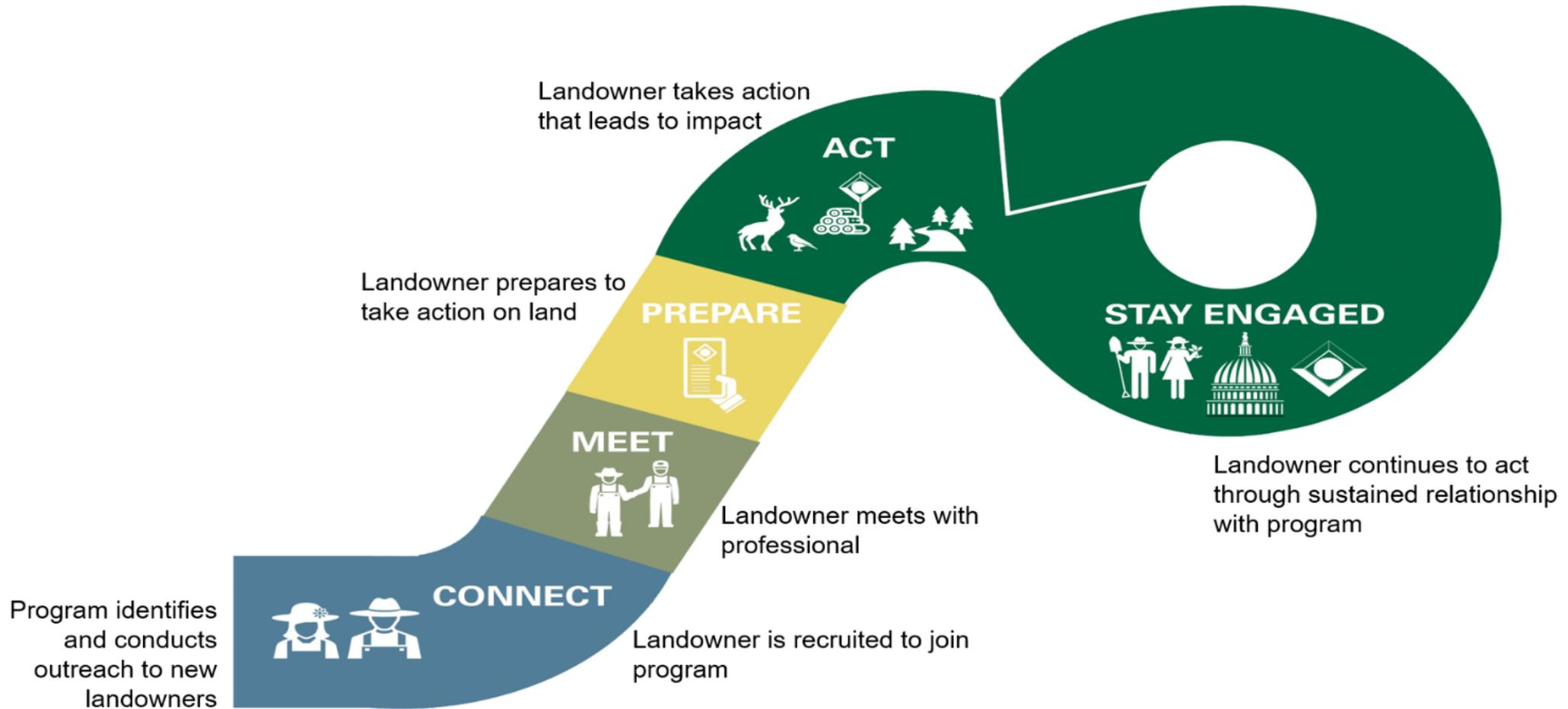
Growing Mature Forest

- 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



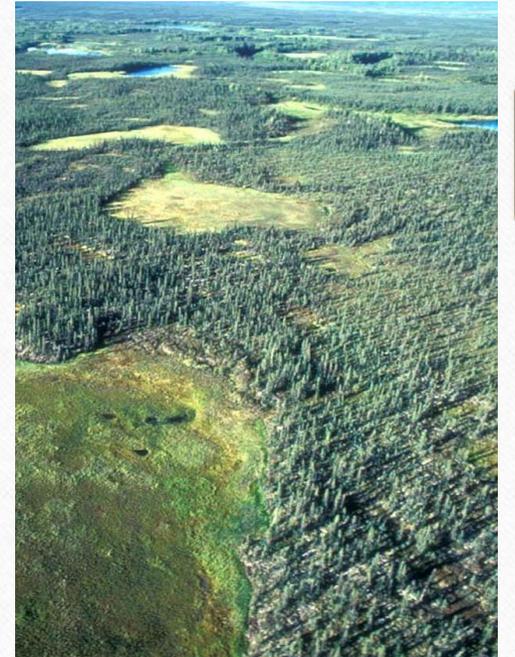
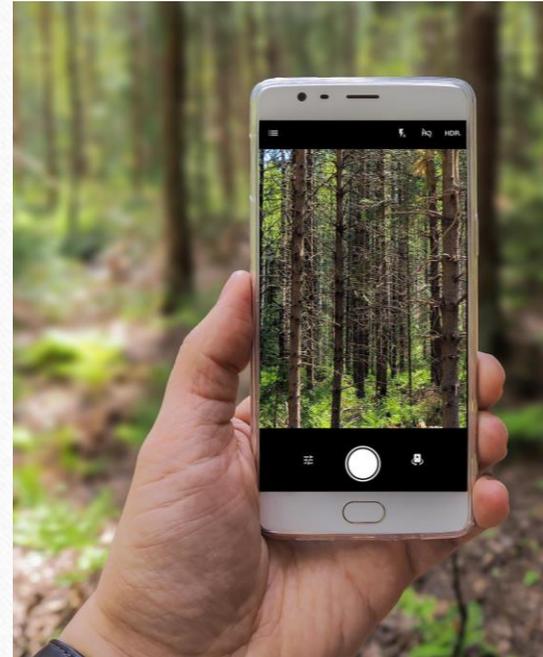
Scientific Analysis Completed by AFF and T

Landowner Enrollment



What does monitoring look like?

- Forester visit
- Landowner Pictures
- Aerial monitoring
- Updated data modeling
- Random sample paired test



Investors Receive Conservation Benefits



Includes
quantifiable
carbon credits
(VCS Standard)

co-benefits, habitat,
water, etc

Can credibly report
to internal &
external
stakeholder

Take home messages

- Science-based
- Efficient
- Scalable
- Rigorous
- Relevant to small parcel forests
- Provides multitude of positive benefits to people and nature

