Nature-based solutions:

Opportunities to benefit biodiversity, climate mitigation, and human communities across the Midwest

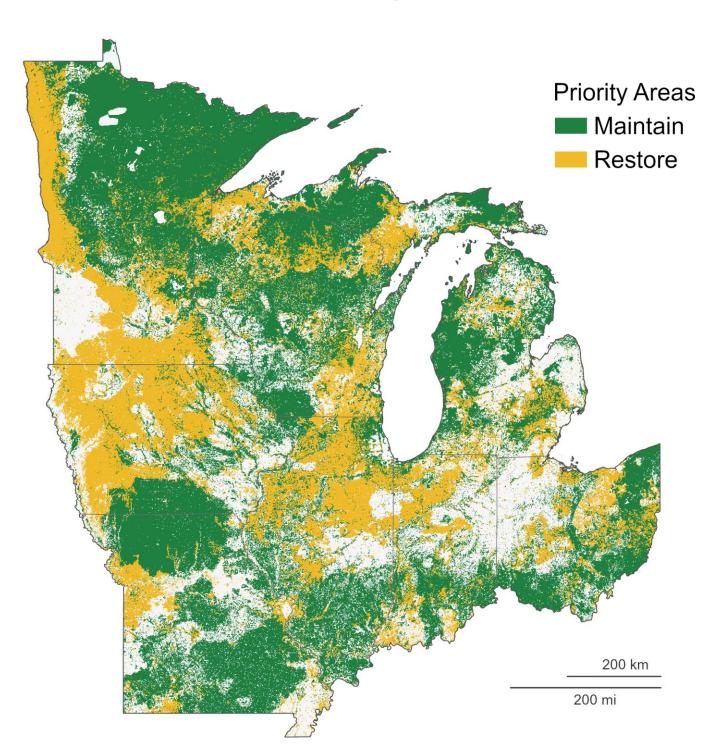
Audubon

Amanda Long, Brooke Bateman, Mei-Ling Feng, Joanna Grand, Shannon Reault, Sarah Saunders, Lotem Taylor, Joanna Wu, Chad Wilsey

Where, who, and what counts under area-based conservation targets?

Understanding 'the where' - of areas important for both biodiversity and climate change mitigation are needed for conservation planning

Mapping 'the where' for biodiversity and climate change prioritization across forests, grasslands, wetlands, and urban areas



Maintain

Climate Strongholds for birds that align with high carbon stores or active carbon sinks

Restore

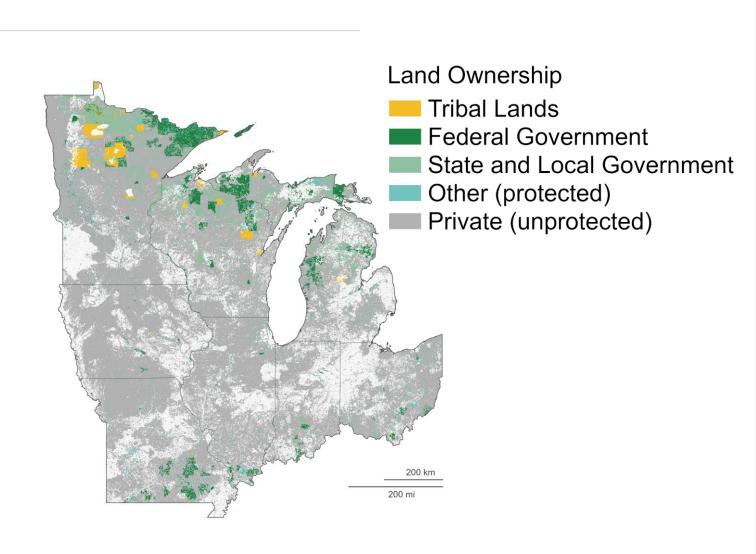
Vulnerable Climate Strongholds that have potential to increase their value to birds if restored and align with potential carbon sinks

Bird and Carbon priorities to maintain or restore are areas where Climate Strongholds overlap areas important for carbon storage and sequestration

Climate Strongholds: Areas important for birds today and under future climate change scenarios

62% of bird and carbon priority areas are on private lands

Landowners and community engagement are vital in land management stewardship



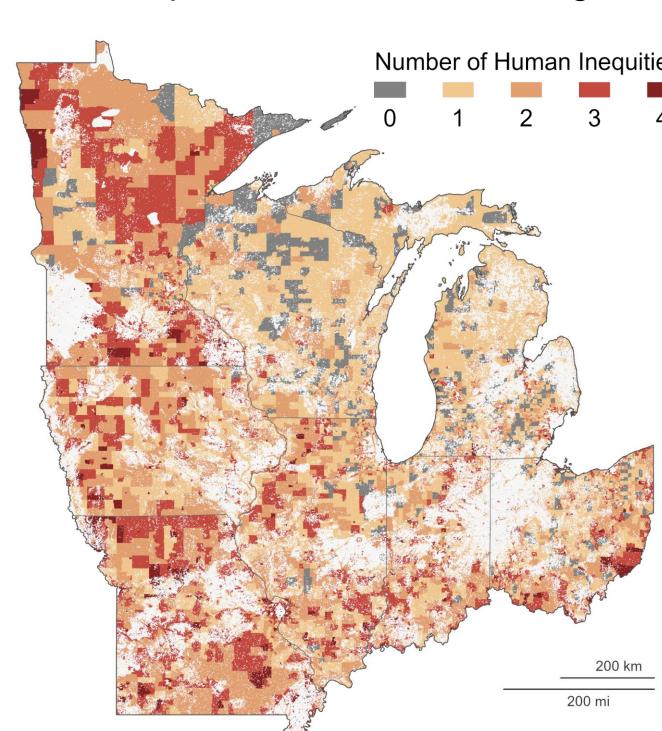
More Information

Bateman BL, Feng E, Grand J, Taylor L, Wu JX, Saunders SP, Wilsey CB (2023) Where, who, and what counts under area-based conservation targets: A framework for identifying opportunities that benefit biodiversity, climate mitigation, and human communities.

Bateman BL, Grand J, Wu JX, Saunders SP, Koseff C, Wilsey CB (2021) Natural Climate Solutions Report: Maintaining and Restoring Natural Habitats to Help Mitigate Climate Change. National Audubon Society: New York.

Considering 'the who' - given unprotected/private lands are key to protecting biodiversity, addressing climate change, and improving human well-being

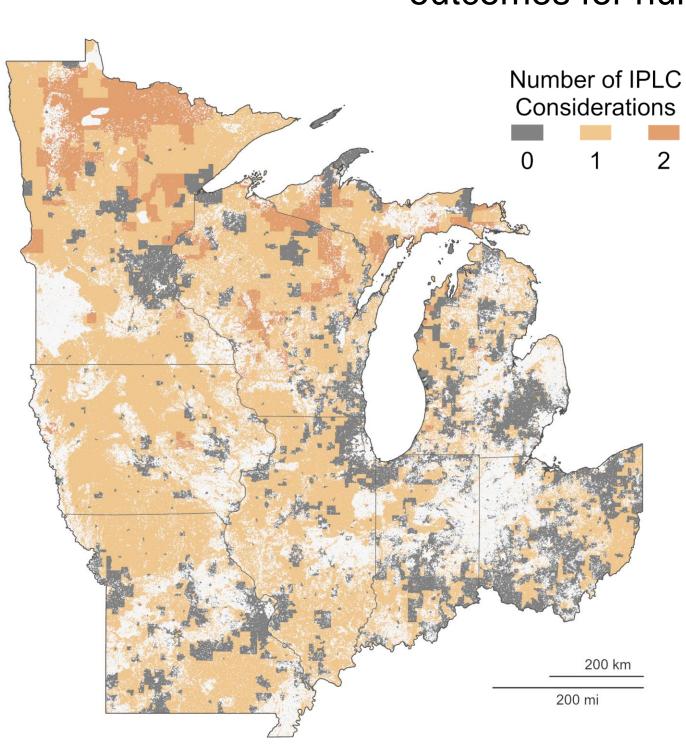
Identifying 'the who' may be impacted by conservation actions in these areas with equitable human well-being and social implications of land protection



Inequity Indicators

Socially vulnerable communities and climate change risk, pollution exposure, chronic health conditions, or access to nature

Human Well-Being are areas of opportunity for establishing just and equitable outcomes for human communities



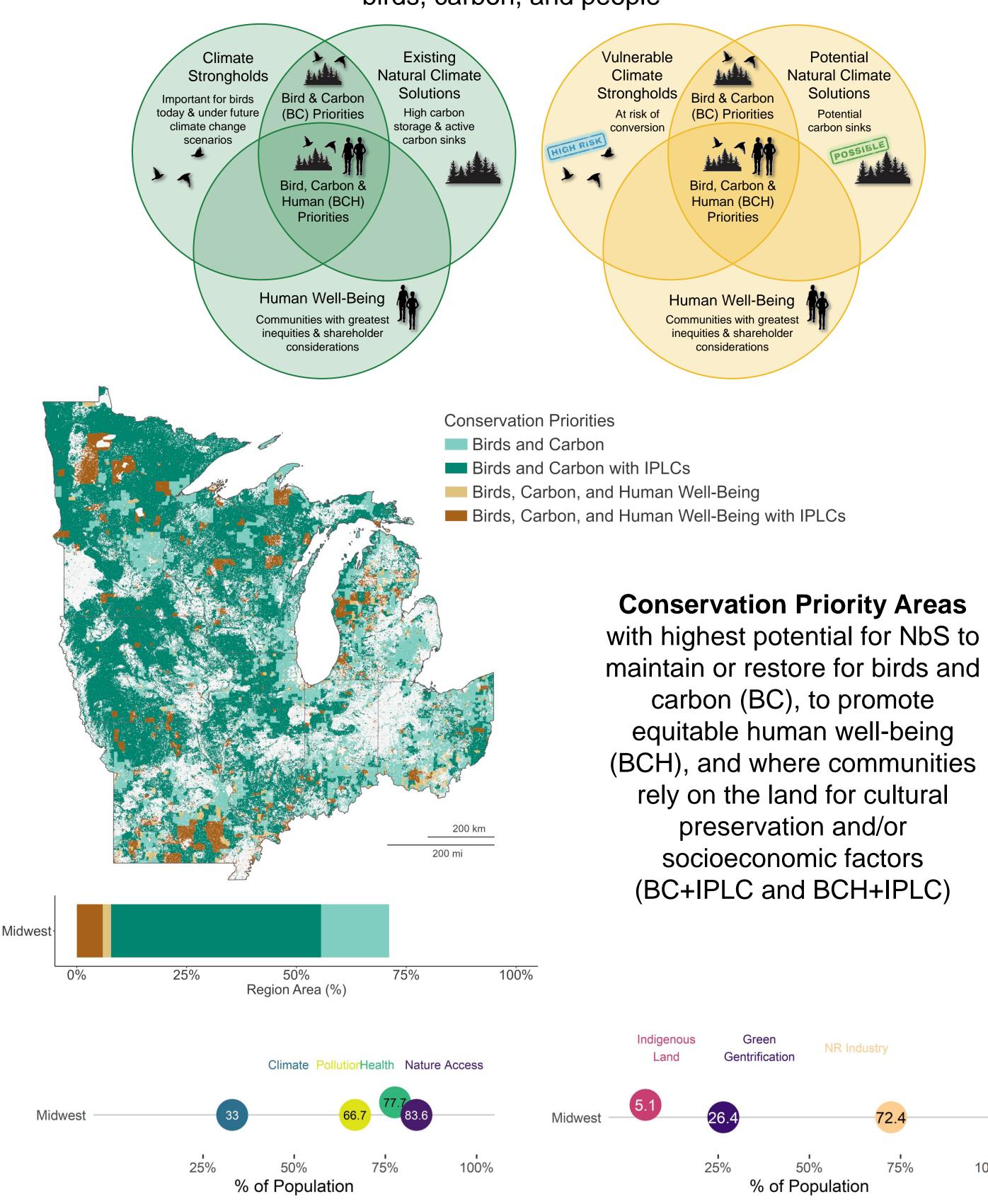
IPLC Indicators

Indigenous land, green gentrification, natural resource industry occupations

Indigenous Peoples and Local Communities (IPLC) Considerations are within communities with the potential to be negatively impacted by protected area designations and other conservation actions

Defining 'what counts' - we need collaborative conservation efforts with local communities to move beyond traditional land protection conservation models

Integrating 'the where' and 'the who' to define 'what counts' as priority areas for birds, carbon, and people



Human inequities and IPLC considerations within populations of socially vulnerable and land-dependent communities that overlap BC priorities