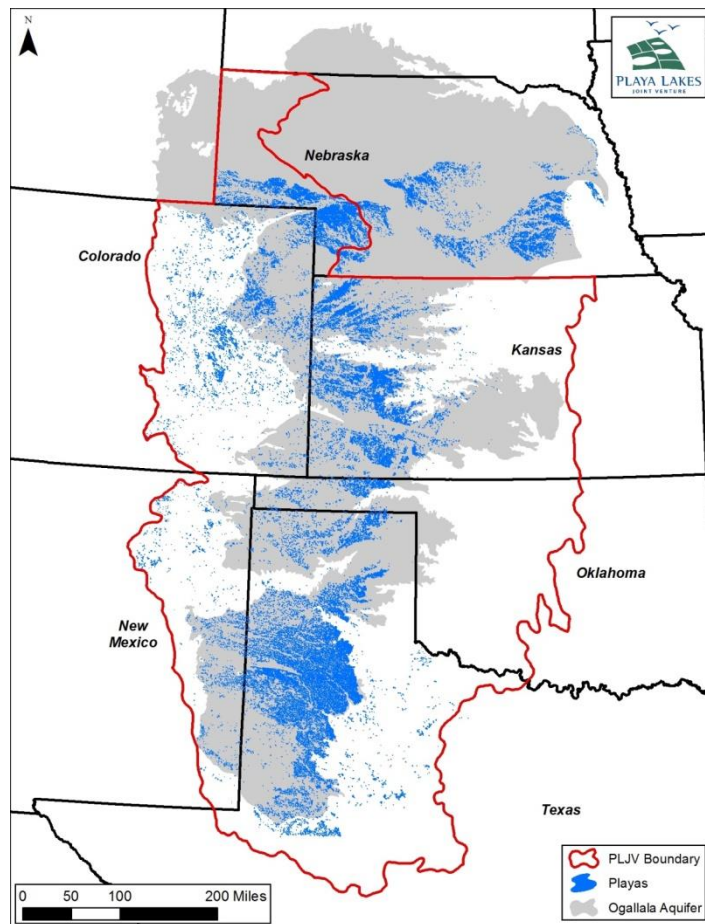


Using a Landscape Design Conservation Planning Process to Assess and Plan for Wind Energy Development in the Western Great Plains, USA.



Anne Bartuszevige, Alex Daniels, Kyle Taylor, Mike Carter

Playa Lakes Joint Venture



Playas

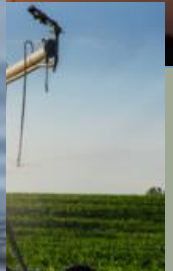
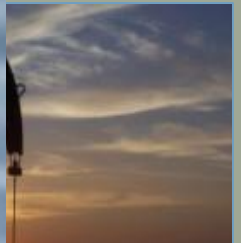


“Bread Basket of America”



We grow

- Wheat
- Corn
- Cotton
- Cattle



rest

What Is Landscape Design?

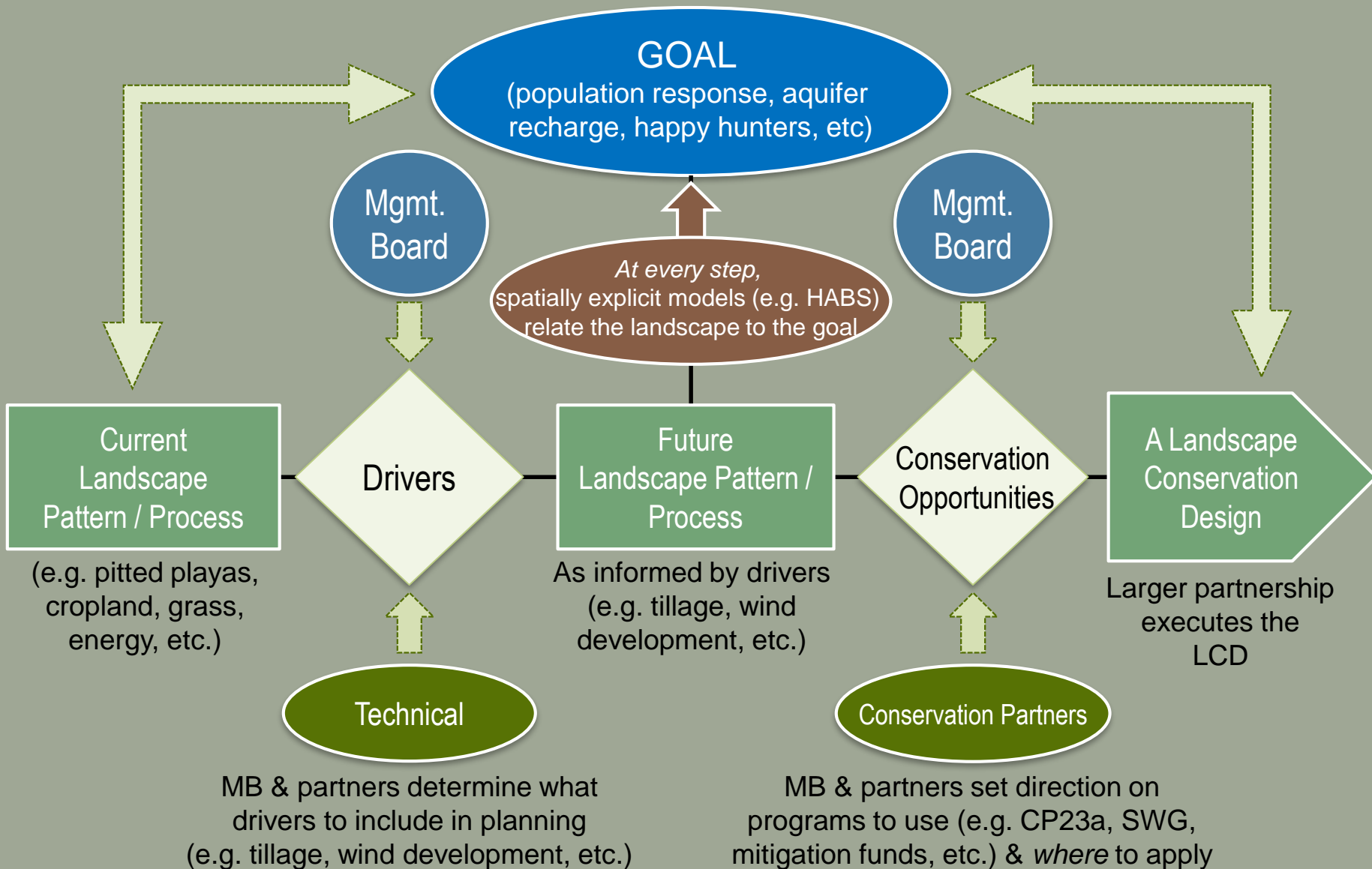


Landscape design integrates societal goals and values with established biological conservation goals using science grounded in landscape ecology to describe future scenarios where specific and measurable biological goals can be attained.

Bartuszevige et al. 2016. Landscape Design: Integrating Ecological, Social and Economic Considerations into Conservation Planning.. Wildlife Society Bulletin 40:411-422 DOI: 10.1002/wsb.683

(References: Lindemayer and Hobbs 2007; Lovell and Johnston 2009; Mussachio 2009; Nassuaer and Opdam 2008; Termorshuizen et al. 2007)

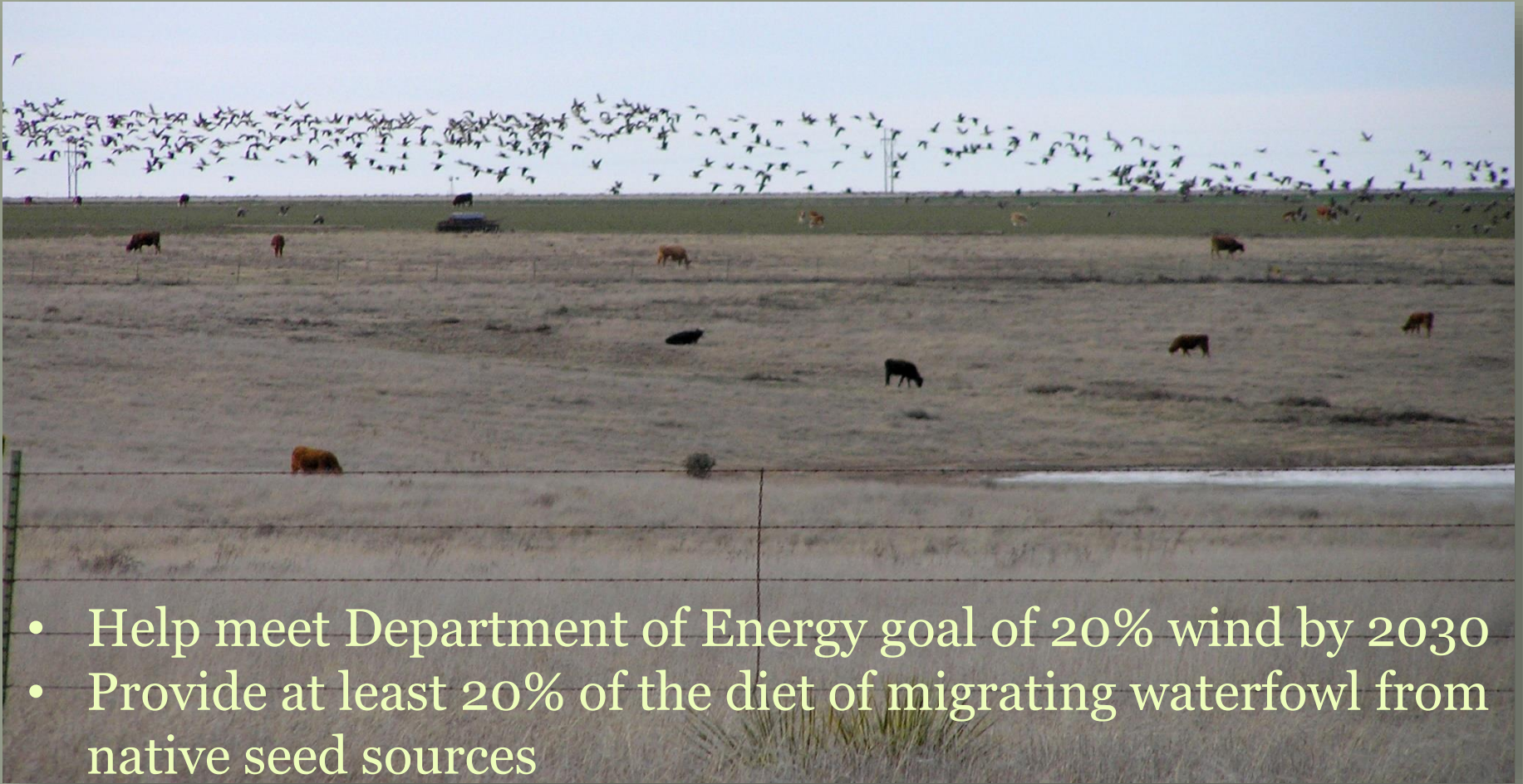
Landscape Design Flowchart



Landscape Design to avoid this...

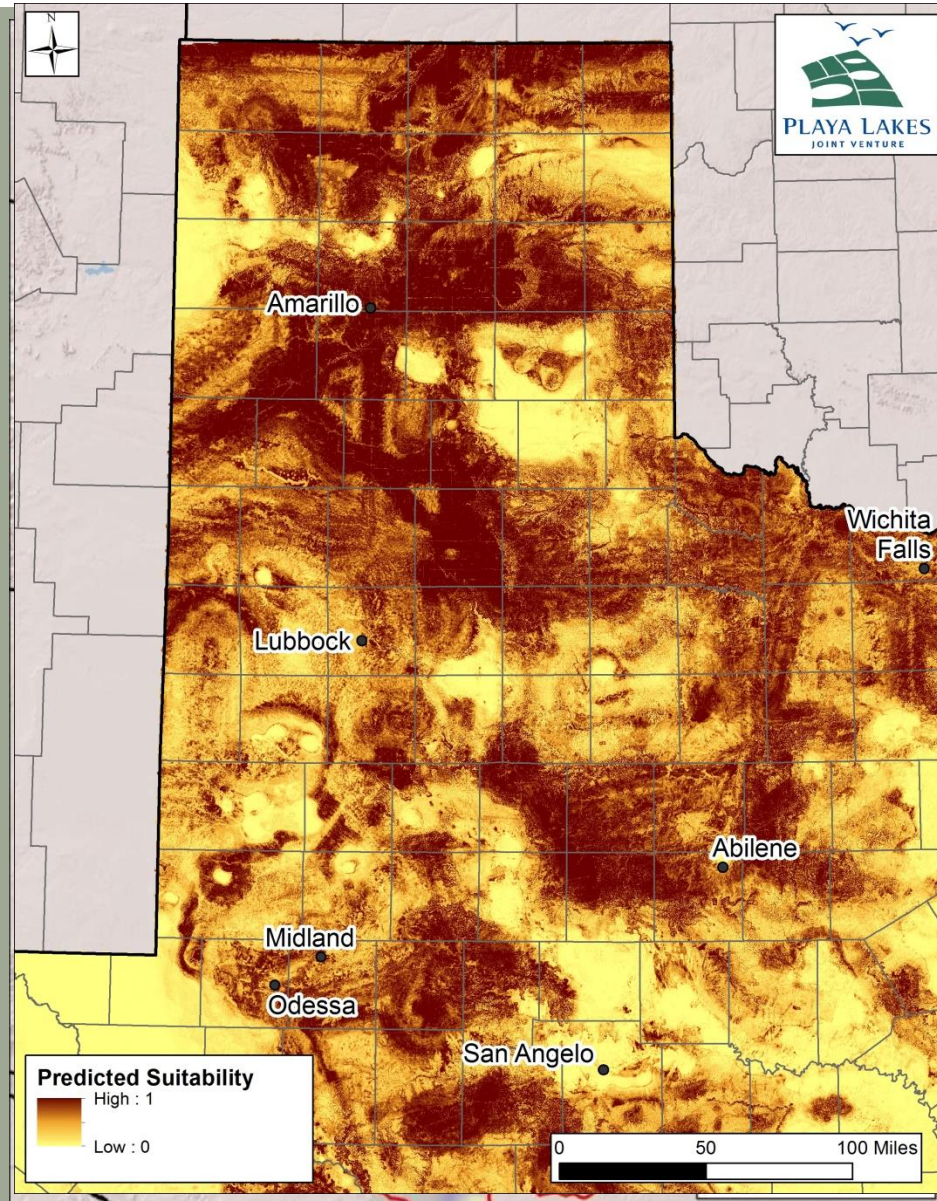


But to achieve this...

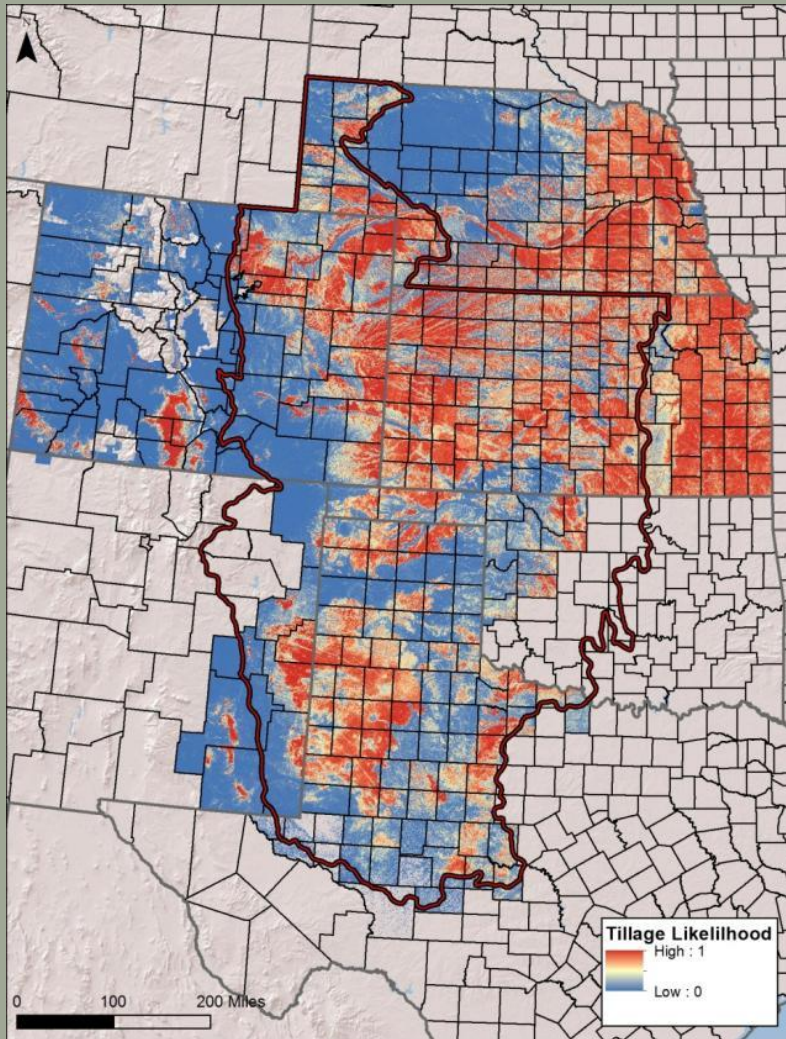


- Help meet Department of Energy goal of 20% wind by 2030
- Provide at least 20% of the diet of migrating waterfowl from native seed sources

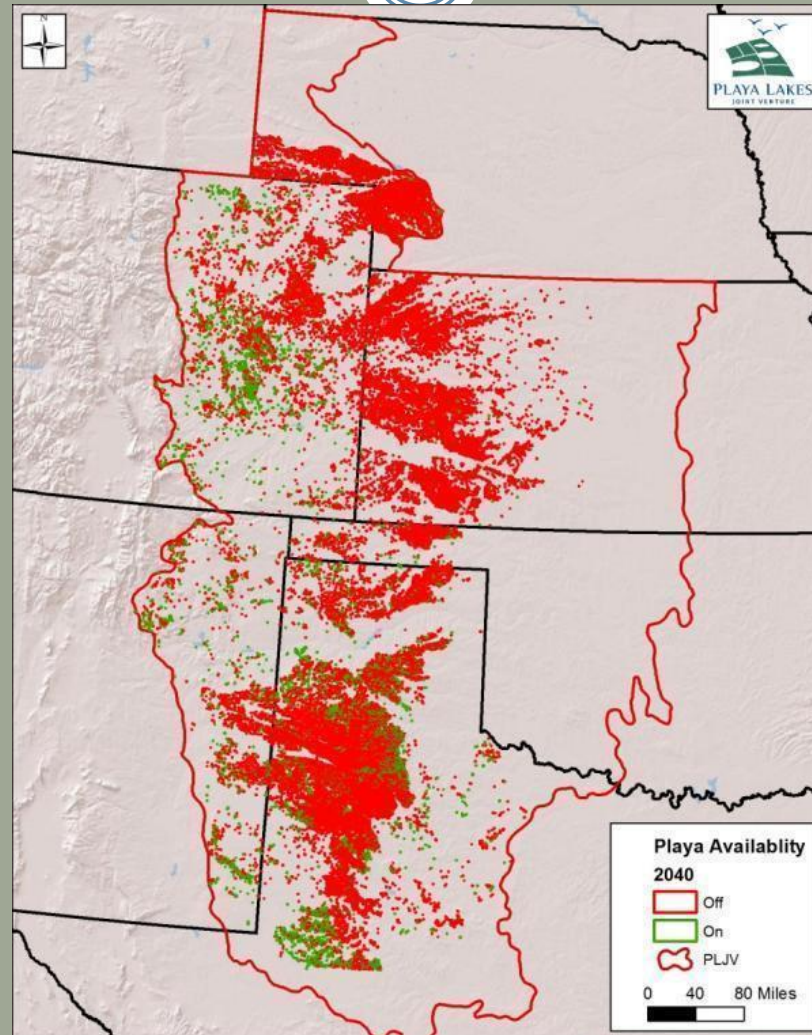
Driver: Wind Energy



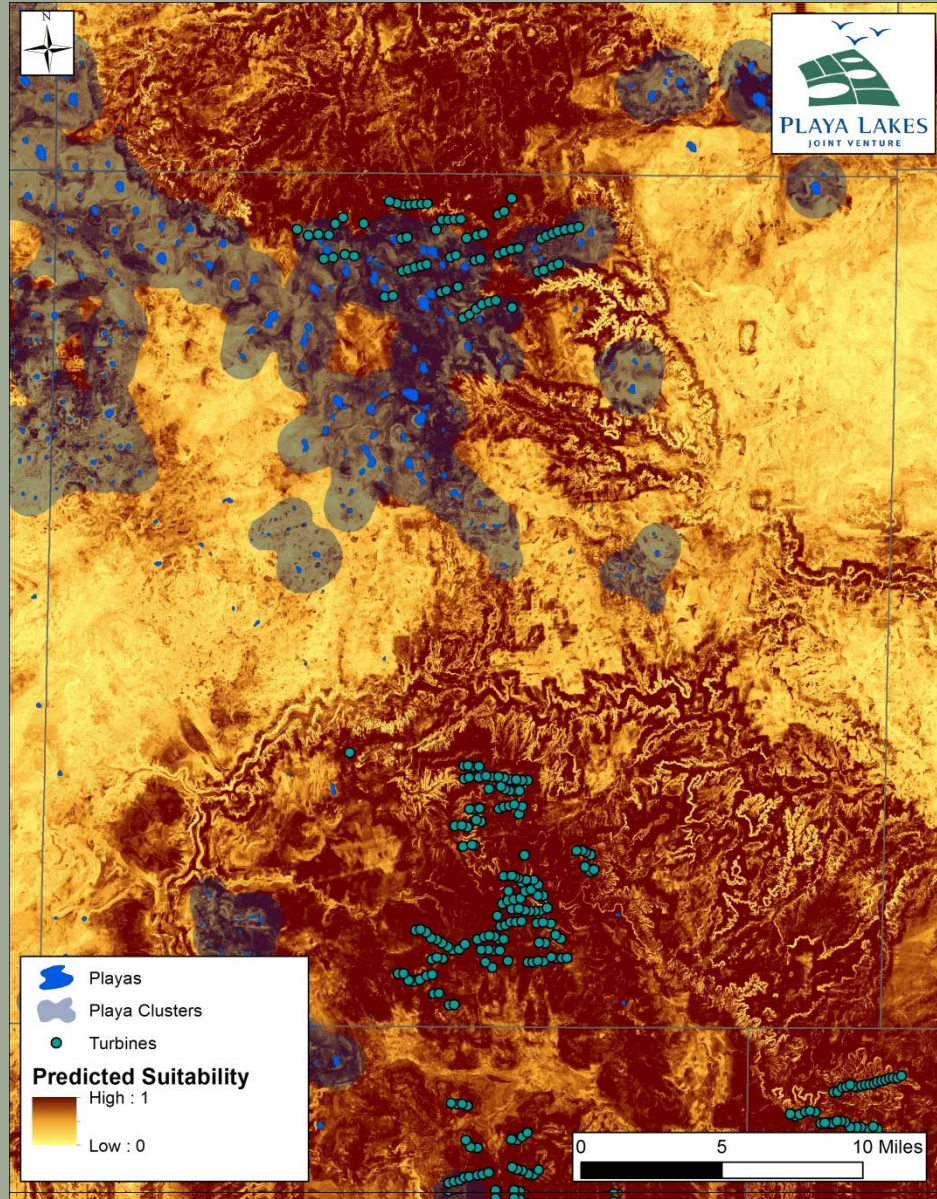
Driver: Tillage Likelihood



Playa Availability by 2040



Putting it all Together



Thank You



Funding:
Great Plains LCC
Nebraska Game and Parks
USFWS

Advice:
Jeff Evans at TNC
www.pljv.org