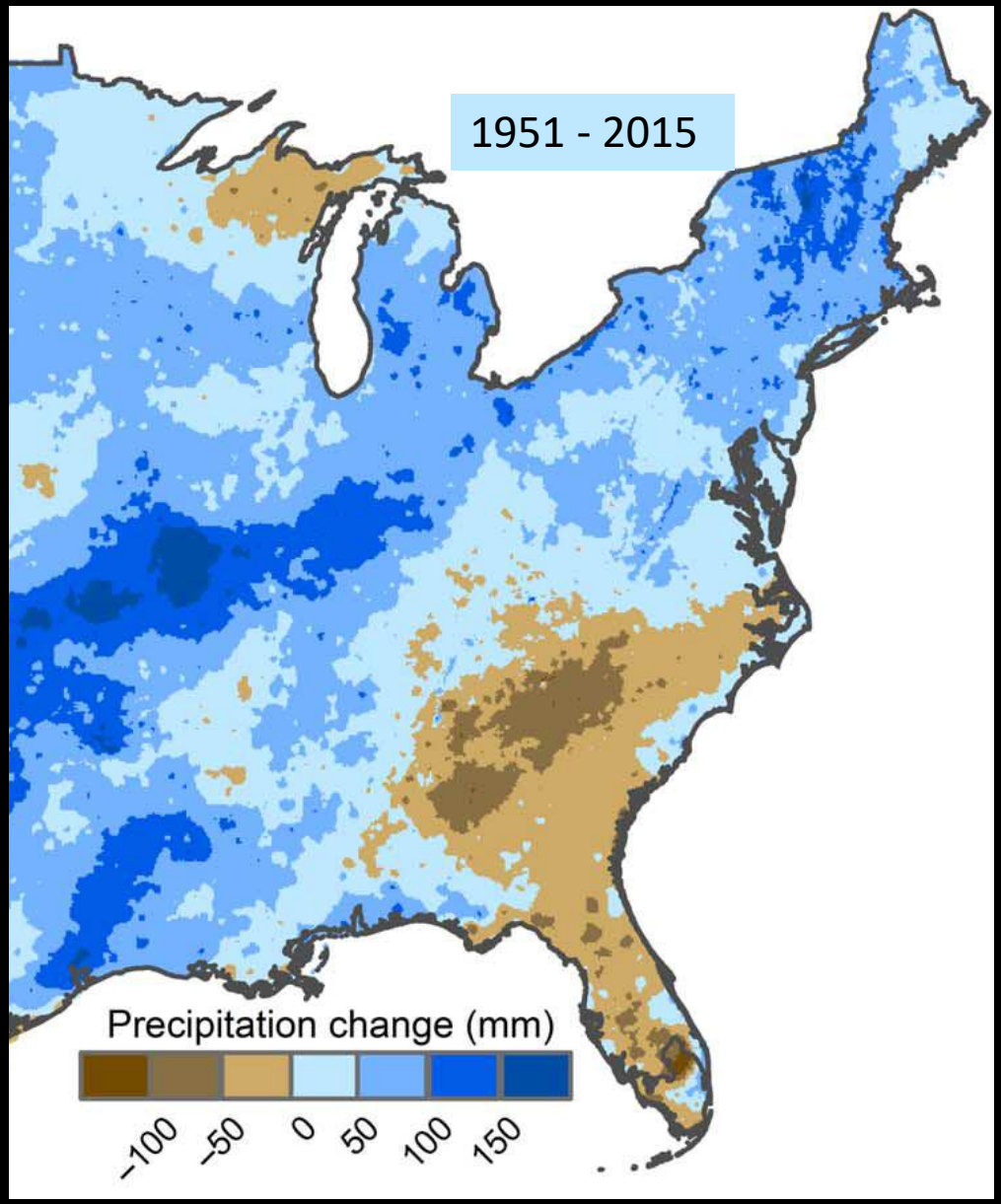
# Resilient and Connected Landscapes

# Moisture change

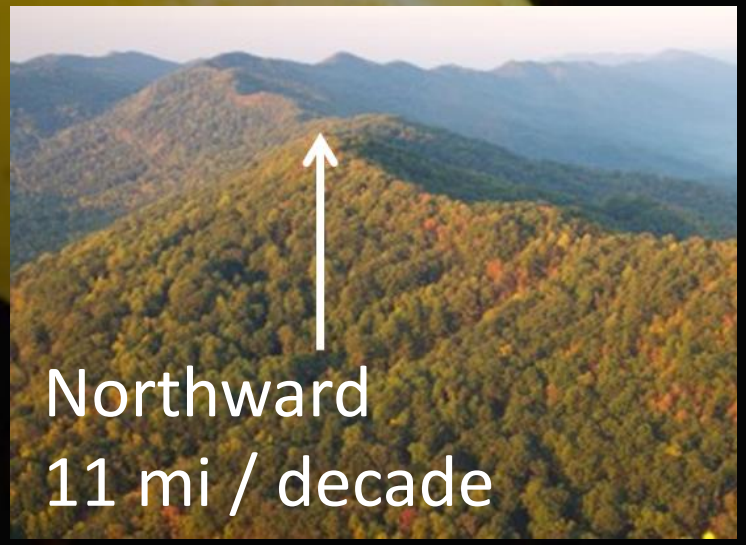


# How nature responds

Population goes extinct

Stay, adapt, evolve

Move – locally or shift range



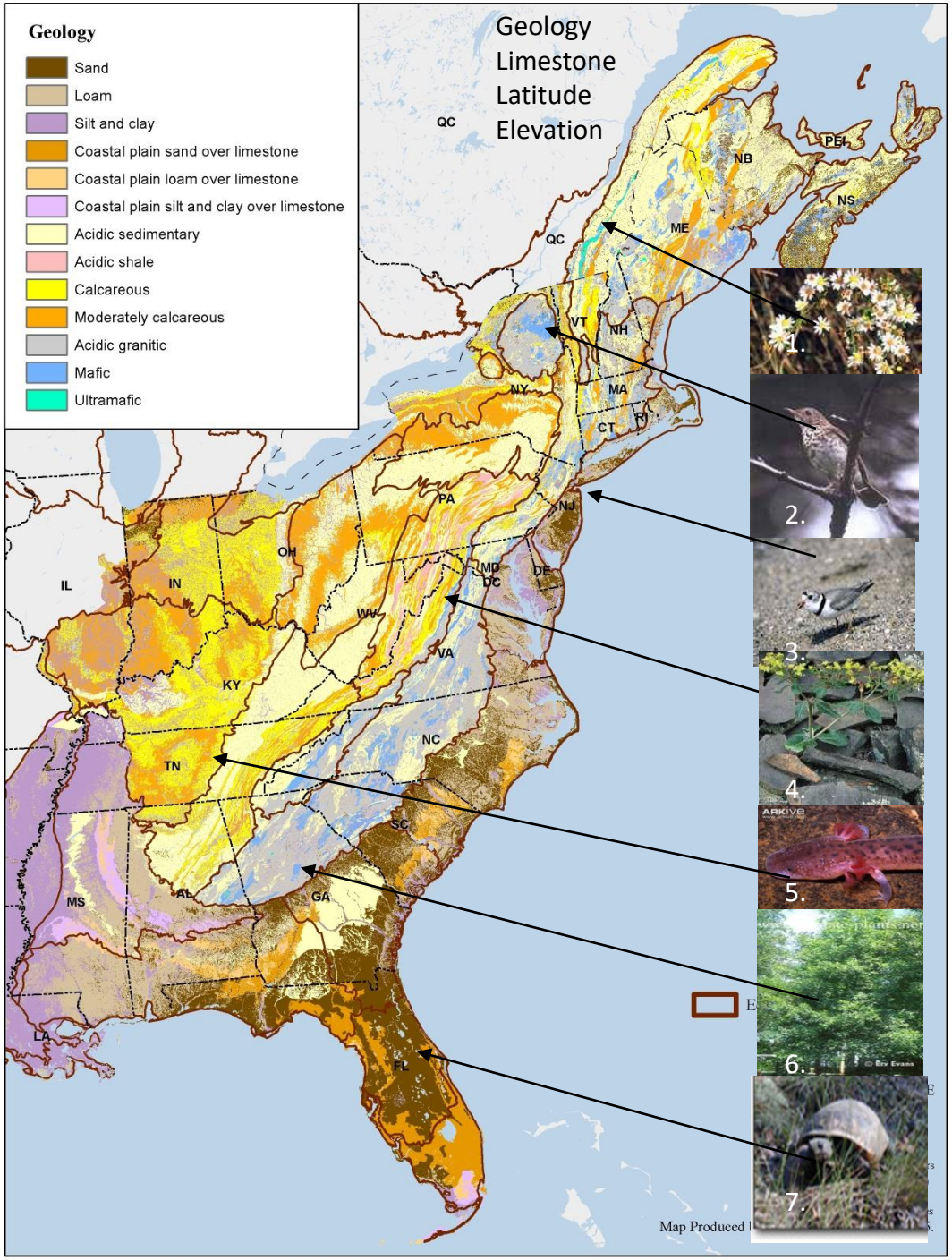

Chen et al. 2015, Science

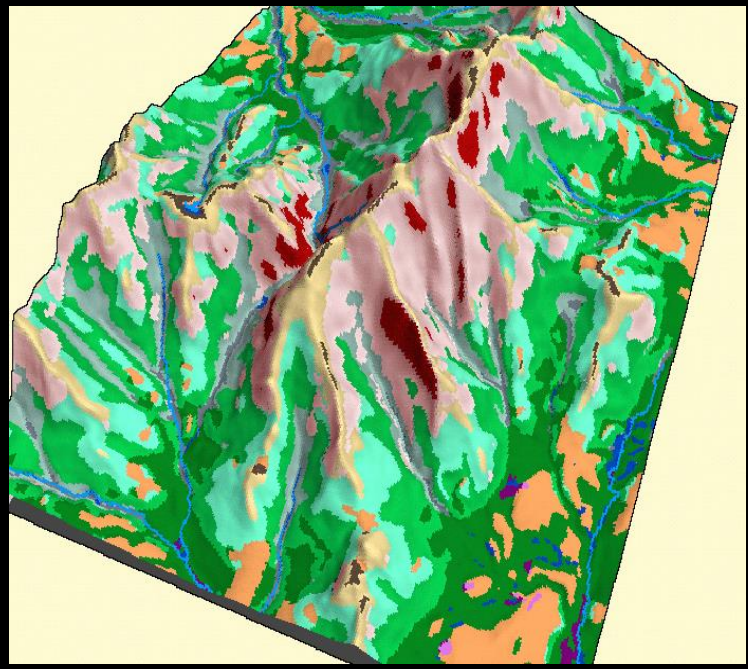
# Resilient Landscapes

Sustain North America's natural diversity

3 Ingredients

# 1. Landscape Complexity



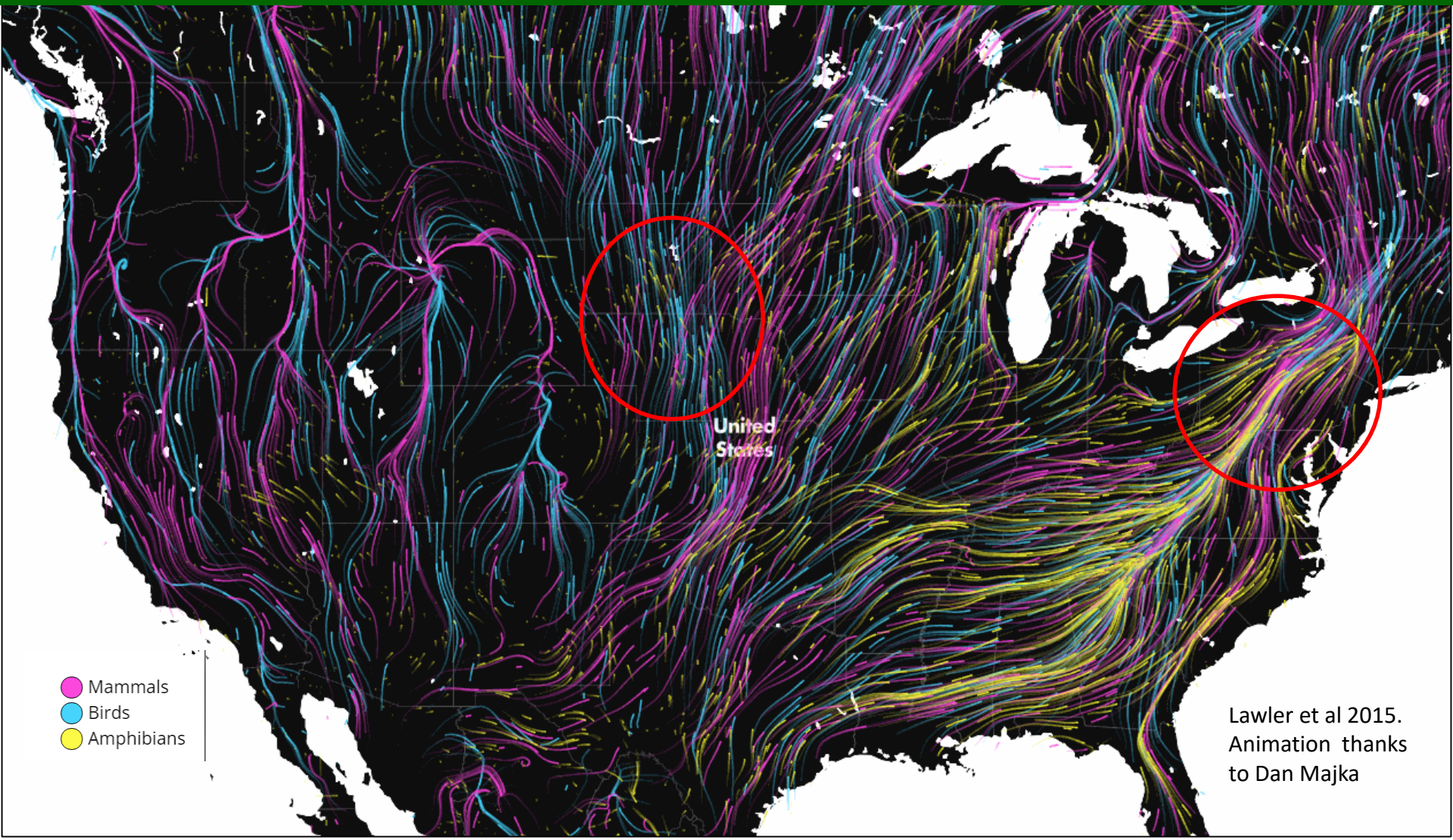


# 2. Connectivity

# Climate Flow: Model

**Current Rates per decade:** 11 miles north, 36 feet upslope

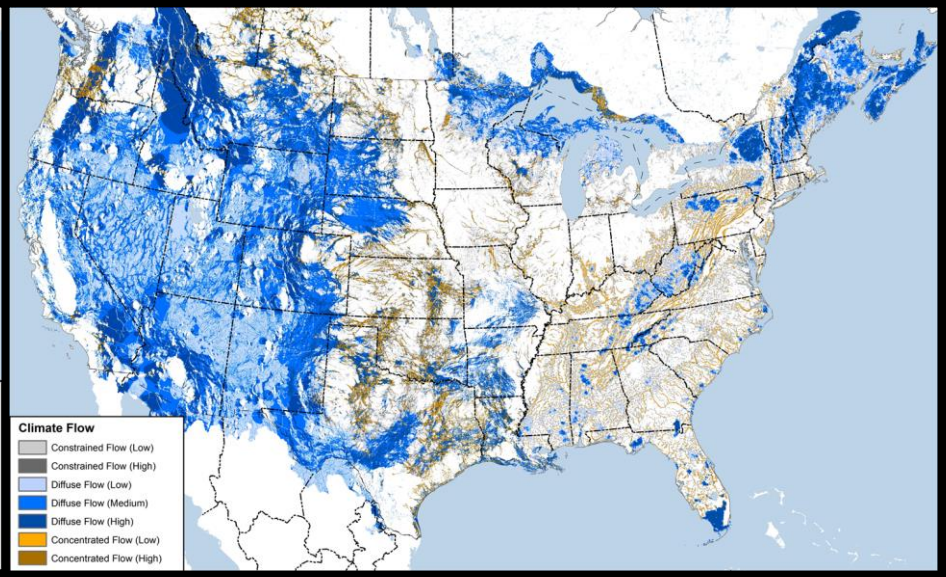
# Climate Flow: Model

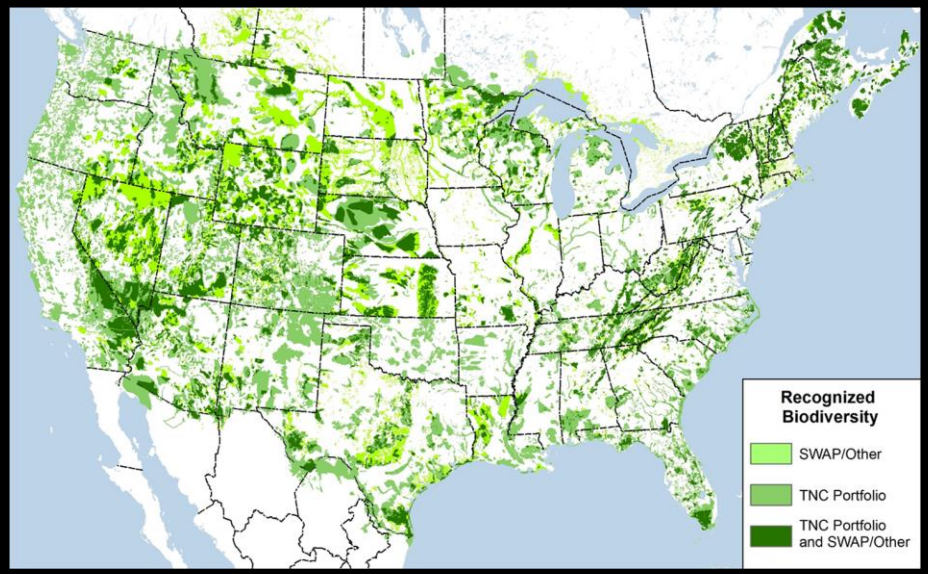



**Current Rates per decade:** 11 miles north, 36 feet upslope

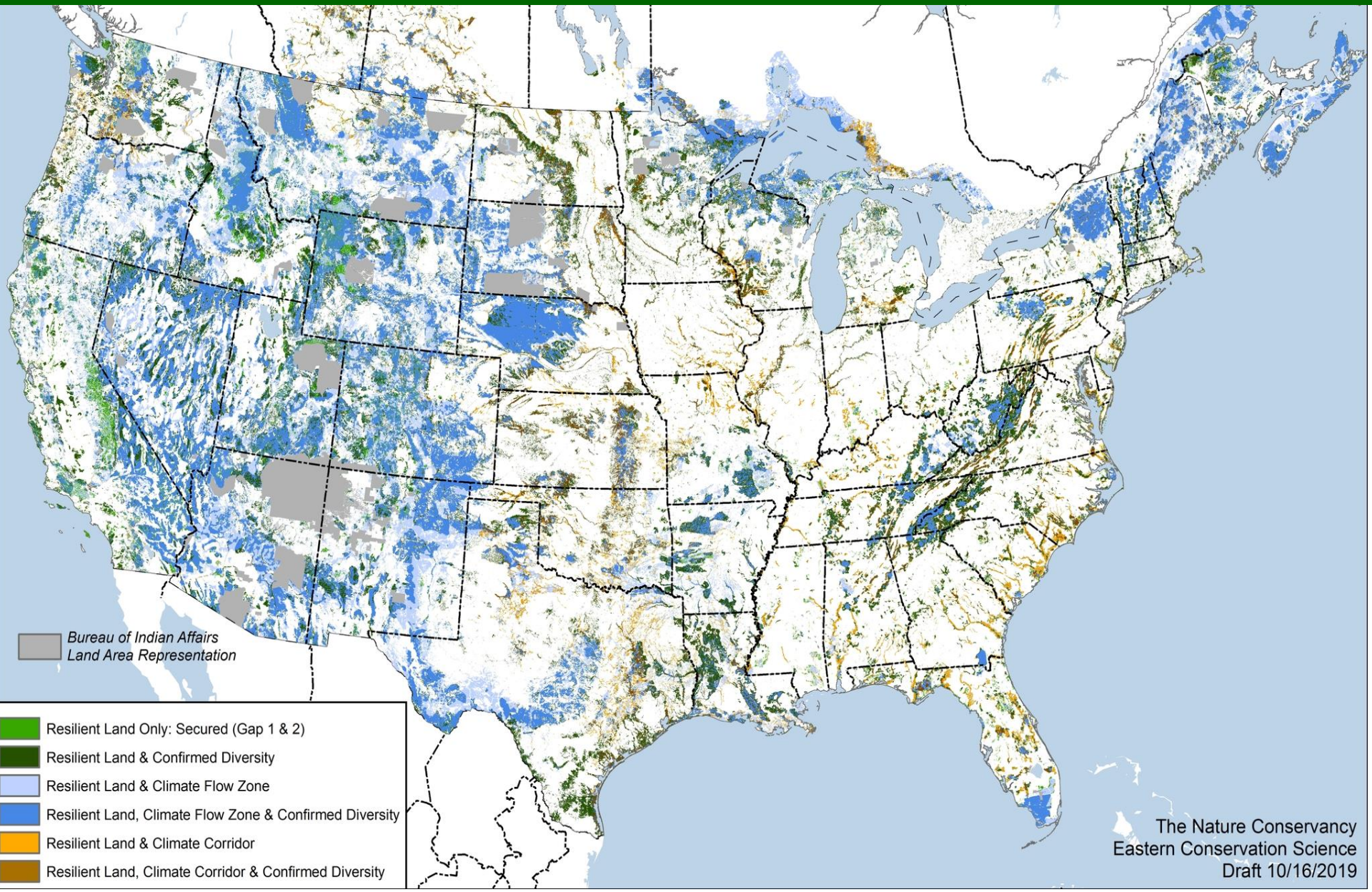
# 3. Biological Diversity

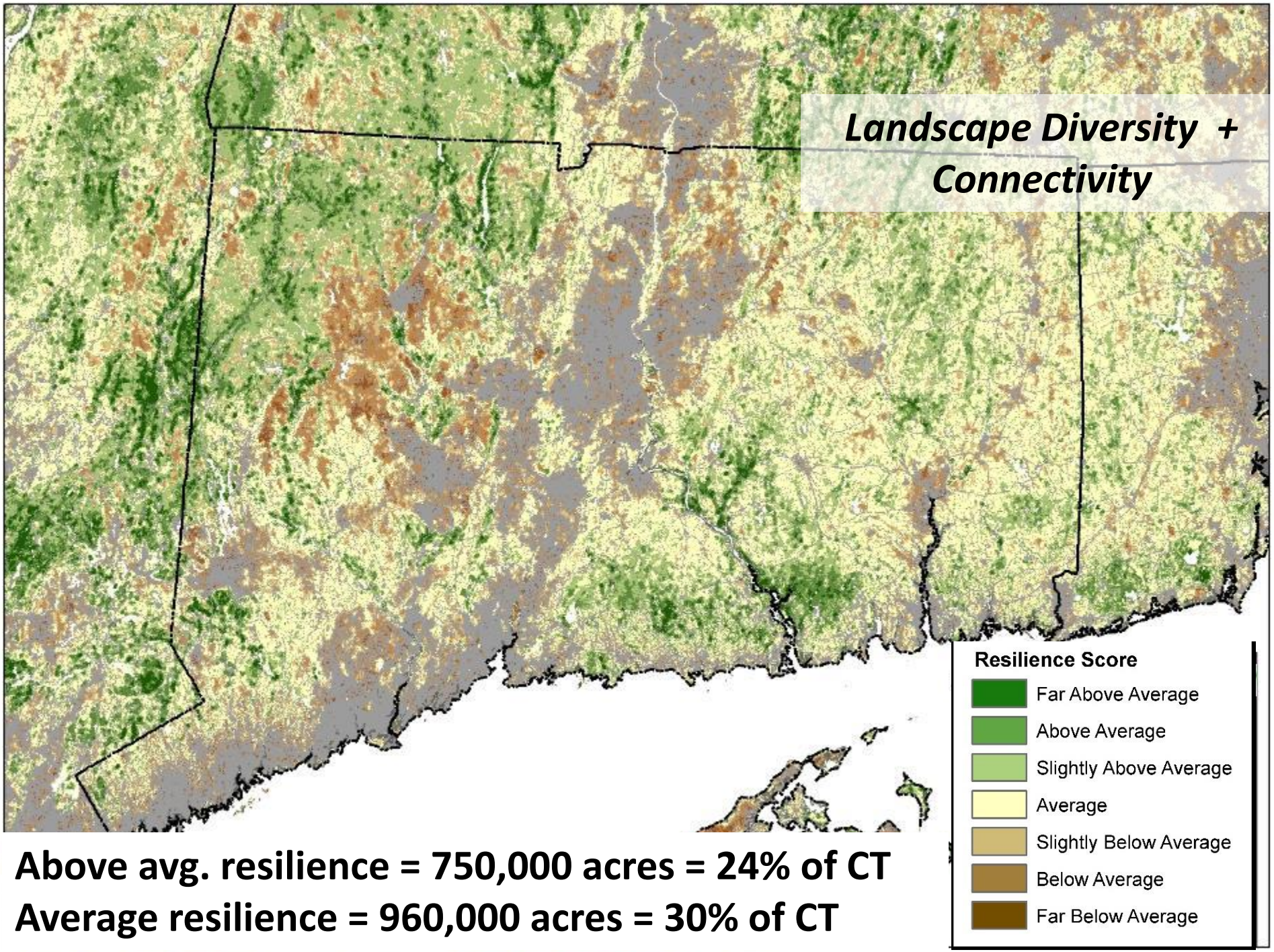
# Resilient Sites + Flow + Biodiversity =



# Resilient and Connected Network

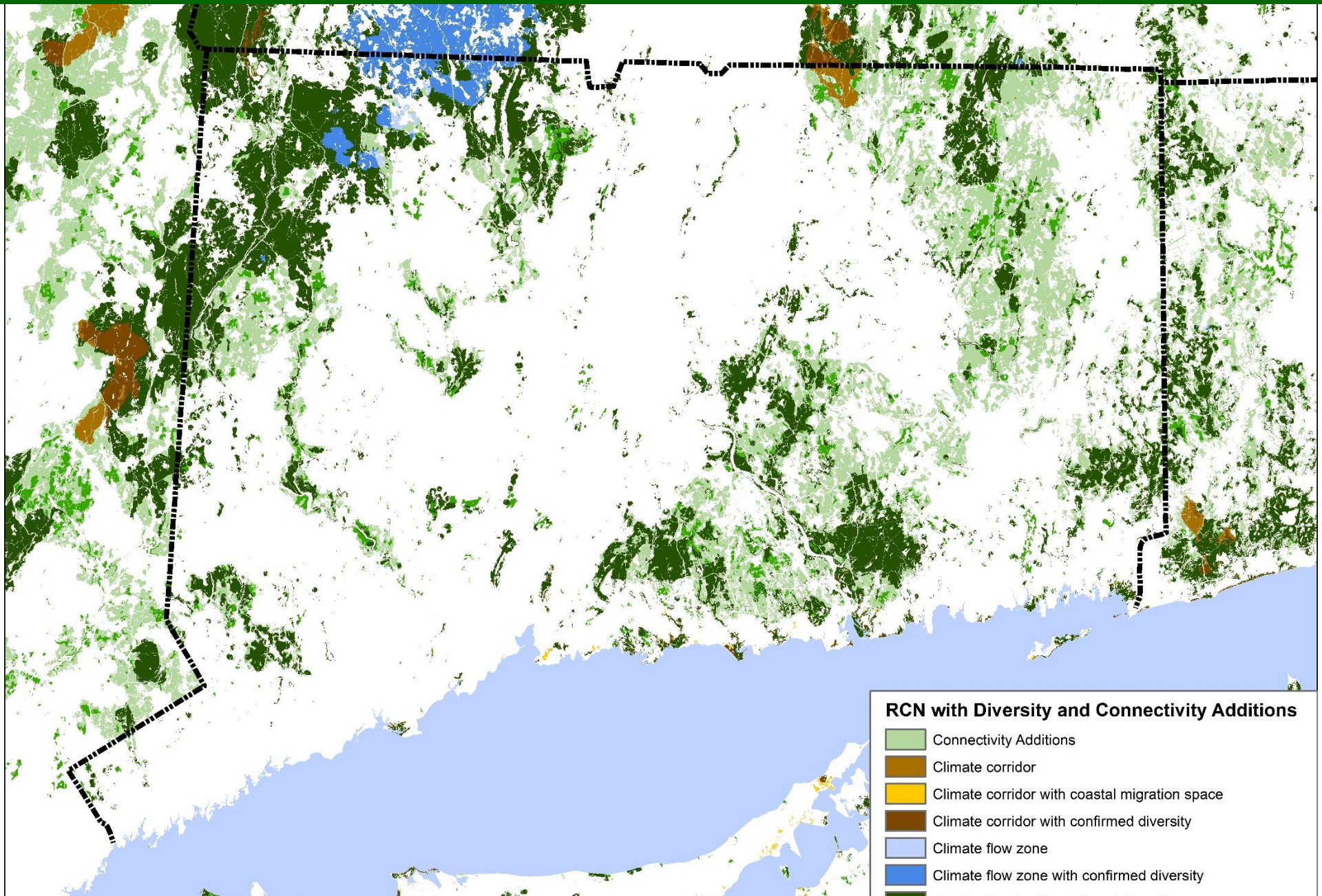




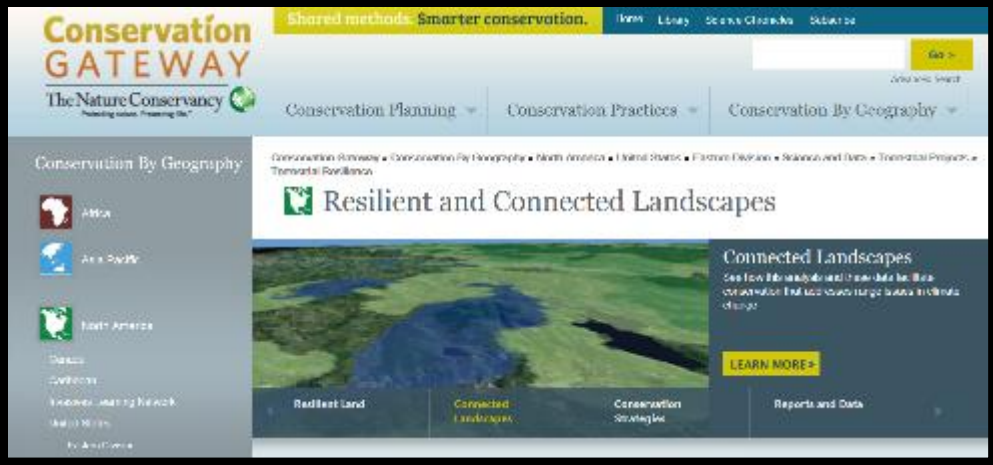

**Above avg. resilience = 750,000 acres = 24% of CT**

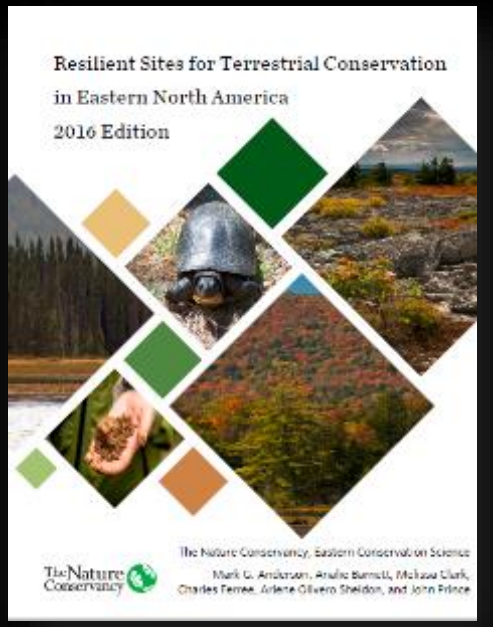
**Average resilience = 960,000 acres = 30% of CT**

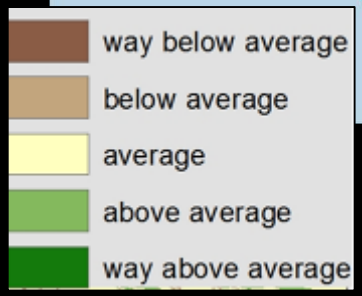
# Resilient and Connected Network



# Resilient Land Tool

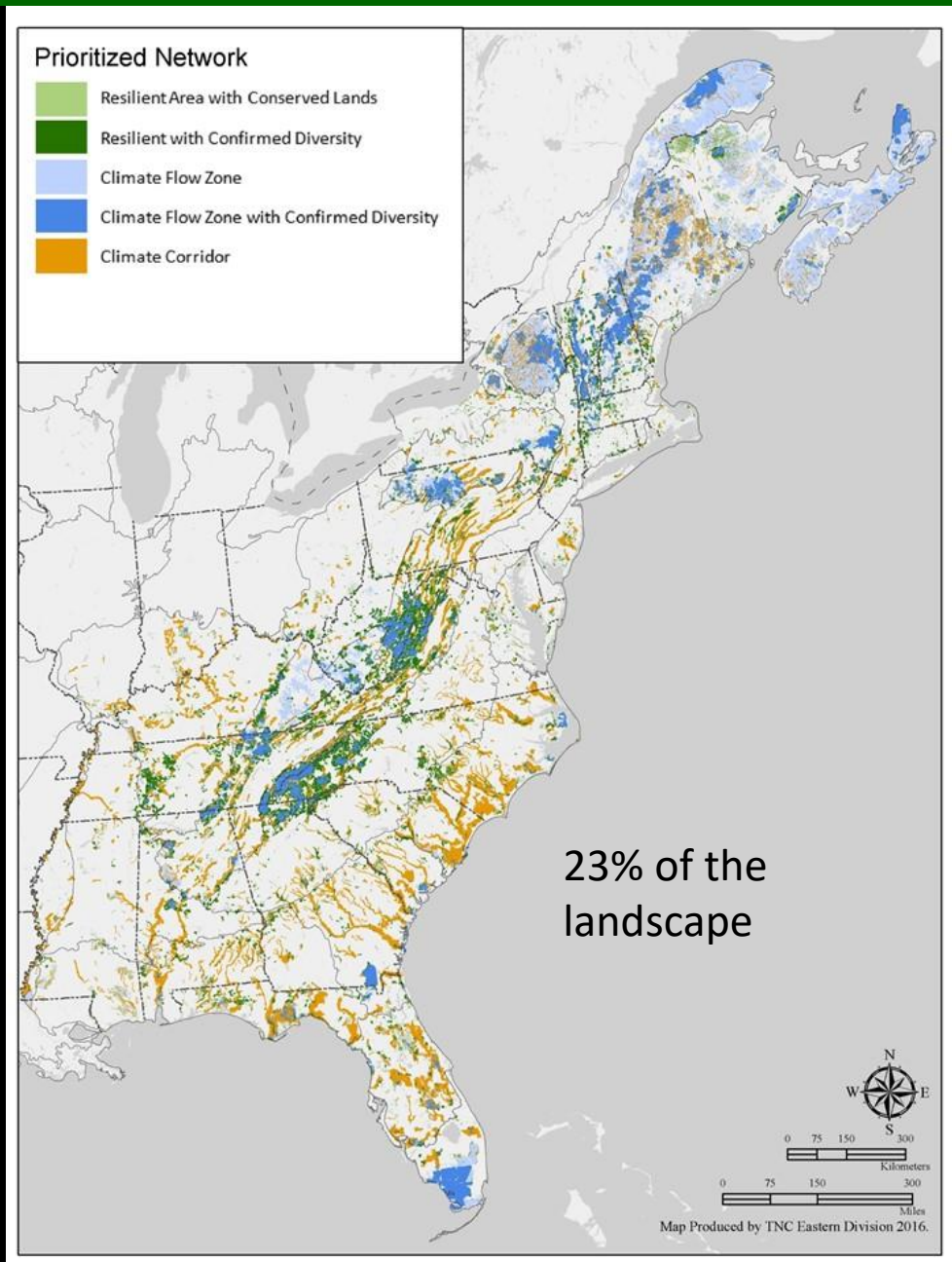





http://nature.ly/TNCResilience
http://maps.tnc.org/resilientland

# Multiple Benefits



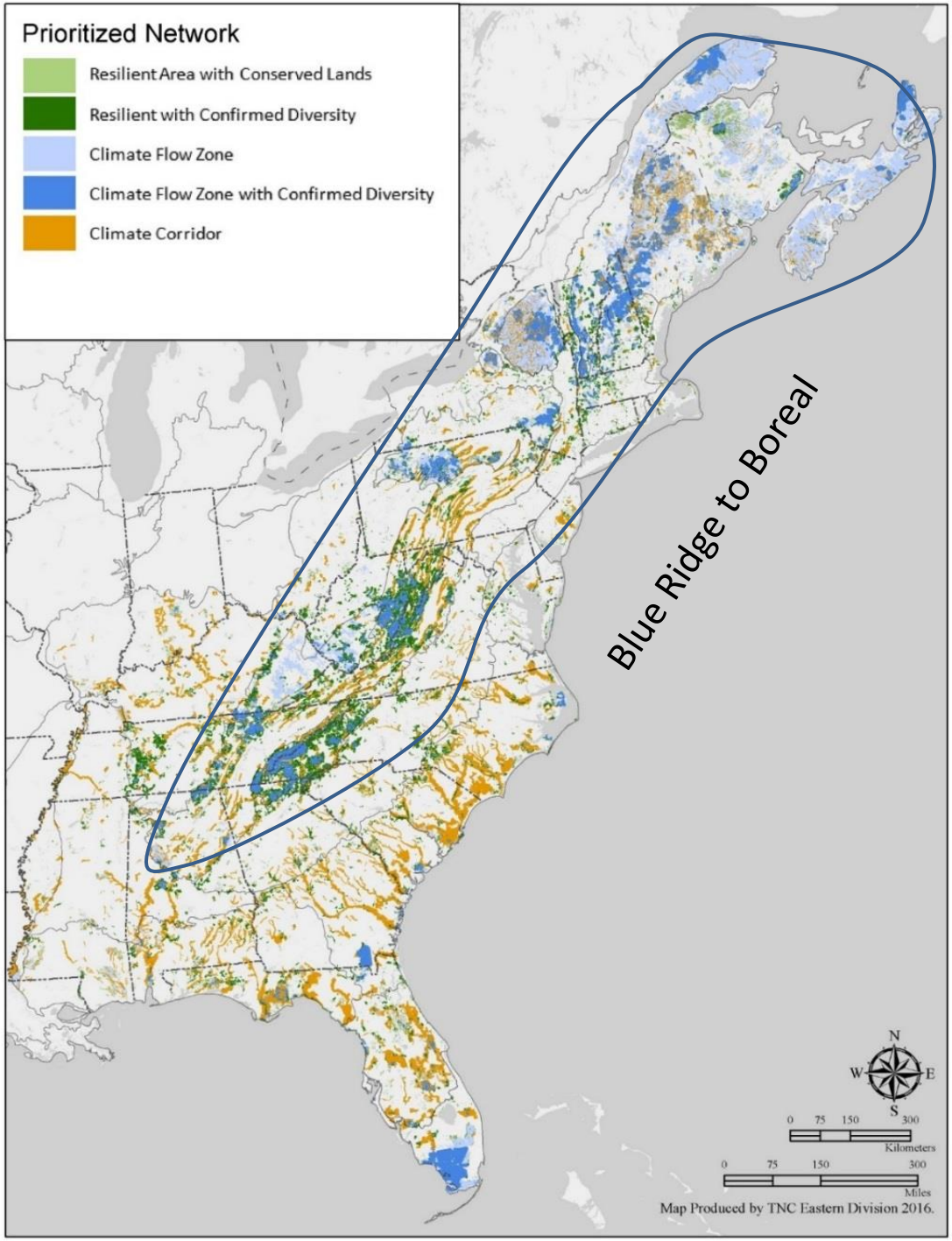
**Carbon storage**

**Water supply**

**Air quality**

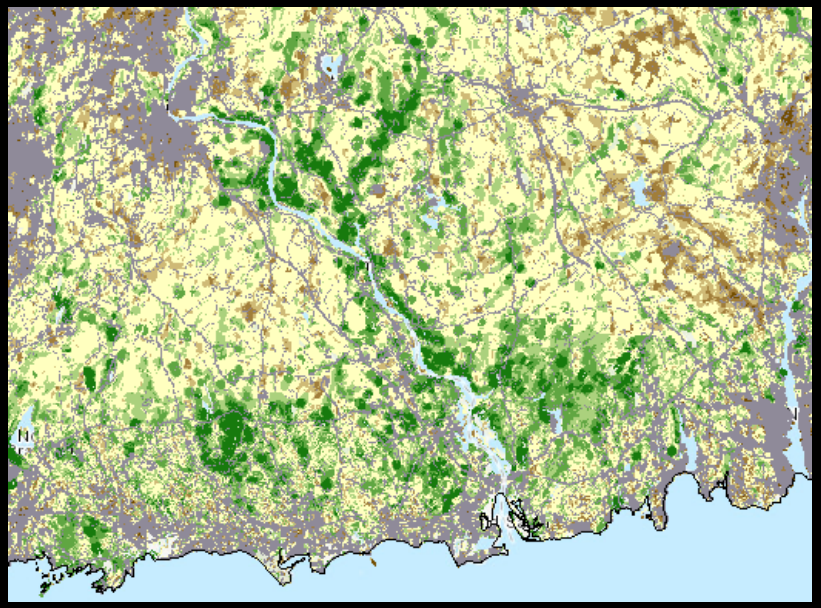
**Recreation**

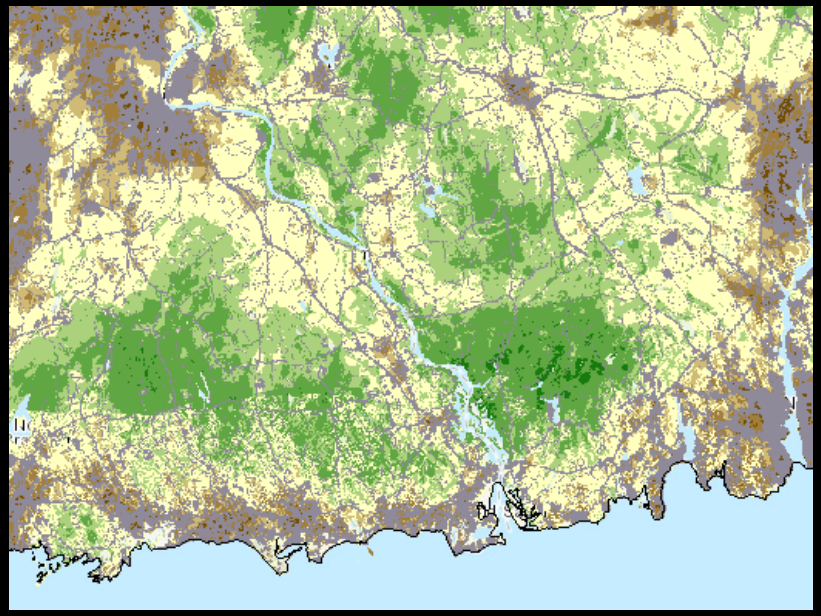
# Collaboration

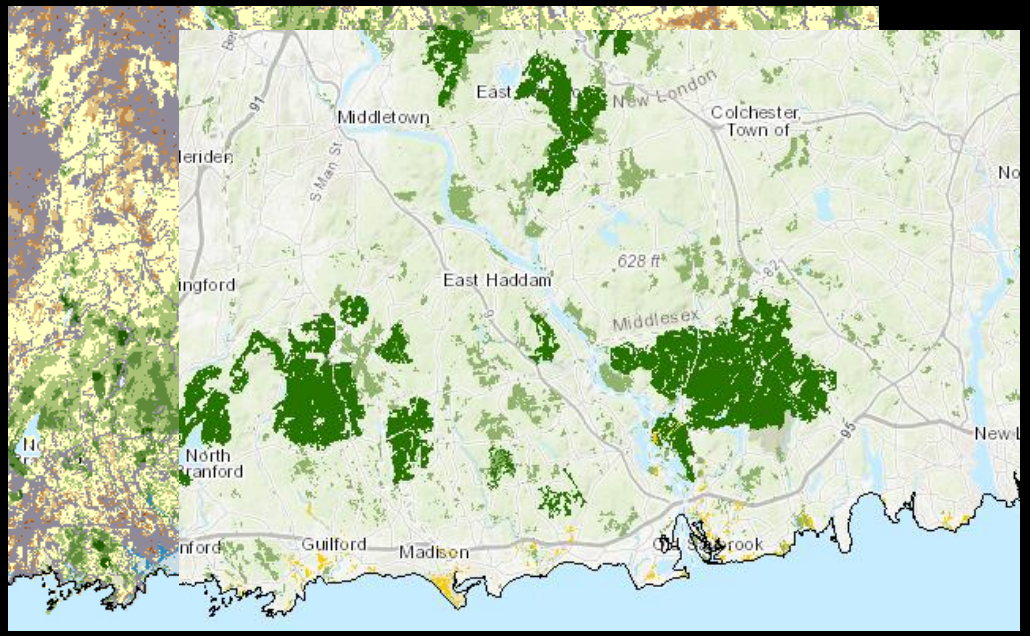


# Looking Ahead

# Snapshot: Lower Connecticut River








way below average
below average
average
above average
way above average