Central Arizona-Phoenix (CAP)

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Theme: Social-ecological systems

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CAP III conceptual framework (2010)
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CAP IV#1 conceptual framework (2016)
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CAP IV#2 conceptual framework (2018)
Social-Ecological Question:

How are bird community dynamics changing in residential neighborhoods, and do people’s perceptions about bird variety in their neighborhoods track these changes?

Approach:

1. Phoenix Area Social Survey (PASS) every 5 years; 40 neighborhoods in 2006 and 2011 survey, 12 neighborhoods in 2016-17 survey.

2. Bird community census data collected twice/year in all neighborhoods.

3. Ground-dwelling arthropod community sampled quarterly in a subset of the neighborhoods.

4. Ecological Survey of Central Arizona (ESCA) every 5 years; minimum of 1 point per neighborhood.
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Results:
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Results:

Bird communities and the people who live with them

Renters/Minority Neighborhoods

Owner-occupied/Predominantly white & higher Income

Exotic and Generalist Birds

Desert Birds

Lerman & Warner, 2011; Andrade 2019; Warren et al. 2019
Results:

Bird communities and the people who live with them

- **2006-07**: Declines in richness & satisfaction
- **2011-12**: Increases in richness & satisfaction
- **2016-17**: Decreases in richness & satisfaction