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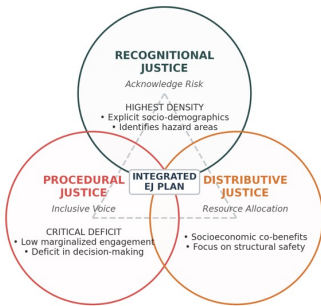
Background

- **Climate Impacts:** escalating hazards and disasters
- **Policy Framework:** Disaster Mitigation Act (2000) – multiple waves of local hazard mitigation
- **Policy Evaluation Gap:** integrating environmental justice (EJ) into local mitigation planning
- **Objectives:** large-scale and nationwide plan analysis

Research Questions

- To what extent are local public engagement processes grounded in procedural justice?
- To what extent do risk assessments demonstrate recognitional justice?
- To what extent do proposed mitigation actions reflect distributive justice?
- To what extent do the three policy areas differ in human-based content as compared to the place-based content?

Theoretical Framework

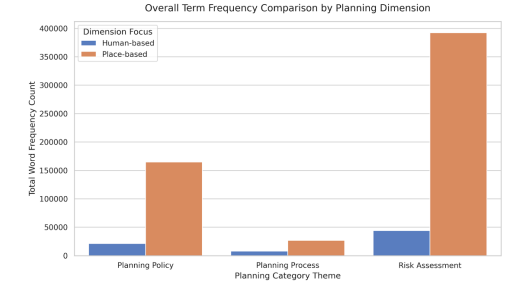
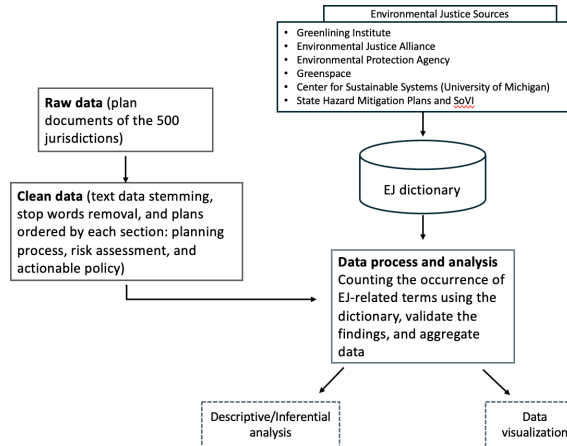


EJ Dictionaries

Human-Based (Examples, a total of 87 words):
low-income, frontline community, discriminatory, physical health, psychological health, equity, well-being, social connectedness, advocacy, special need, food access, hearing, rent burden

Place-Based (Examples, a total of 90 words):
pollution, toxin, toxic, emission, environmentally sensitive, harm, risk, environmentally friendly, clean air, clean water, air quality, cumulative impact, environmental emergency, environmental crisis, resilient environment, land ownership, unsafe, environmental concern, inequality, temperature, native land, extreme event

Research Design, Methods, and Results



- **Highest EJ Concentration:** **place-based risk assessment (recognitional)**
- **Acknowledgement vs. Action:** **recognition does not translate to planning process and planning policy**
- **Shortage in Planning Processes:** **lowest volume in the entire dataset, only 34,829 occurrences across 500 plans**
- **Engagement Deficit:** **significant difference than risk assessment**
- **Human and place-based comparison:** **significant difference, with place-based content being overwhelmingly more**

Policy Area Comparison

Category	Level	Comparison	H-stats	P-val
Human	Omnibus	All 3 Aspects	18.3	***
Human	Pairwise	Policy vs Planning	0.52	ns
Human	Pairwise	Policy vs Risk	9.96	**
Human	Pairwise	Planning vs Risk	16.9	***
Place	Omnibus	All 3 Aspects	29.9	***
Place	Pairwise	Policy vs Planning	9.53	***
Place	Pairwise	Policy vs Risk	5.67	*
Place	Pairwise	Planning vs Risk	29.6	***

Discussions

- **Highest EJ Concentration:** **place-based risk assessment (recognitional)**
- **Recognition but limited Action:** **planning processes has not been fully utilized – reason of why actions are limited**
- **Shortage in Planning Processes:** **lowest volume in the entire dataset, only 34,829 occurrences across 500 plans**
- **Engagement Deficit:** **human-based content is sidelined despite disaster risk is compounding and intertwined with socio-demographic realities like healthcare access and housing quality**
- **Separation of place and human experience:** **need meaningful engagement to integrate residents in planning processes, then integrate the policies**
- **Plan integration and Geographic Fragmentation:** **multi-faceted policy areas must interconnect to solve complex climate issues; spatial fragmentation is driven by localized resource constraints and uncertainty**

