An Urban Index of Riparian Integrity

PRESENTER:

Mateo Scoggins,
Abel Porras,
Yazmin Avila
Ana Gonzales, and
Aaron Richter

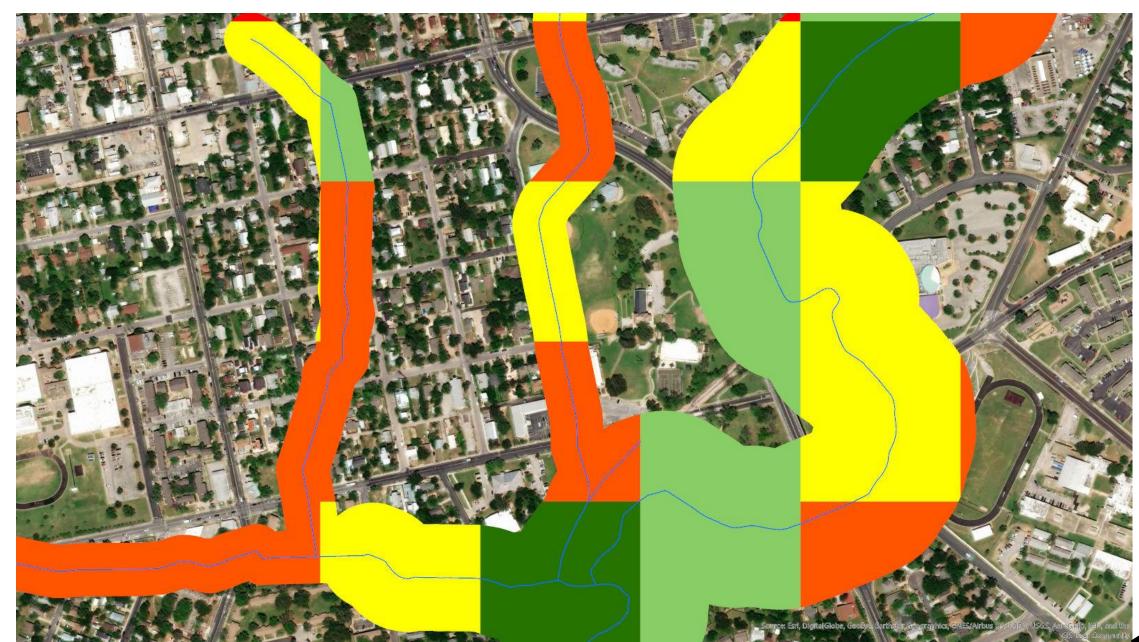
BACKGROUND: Cities need city-scaled tools to assess riparian function that are easily reproducible and practical. Austin has settled on a very simplistic model that provides detailed grid based results that can quickly and objectively rank priorities and provide for spatial comparisons.

METHODS

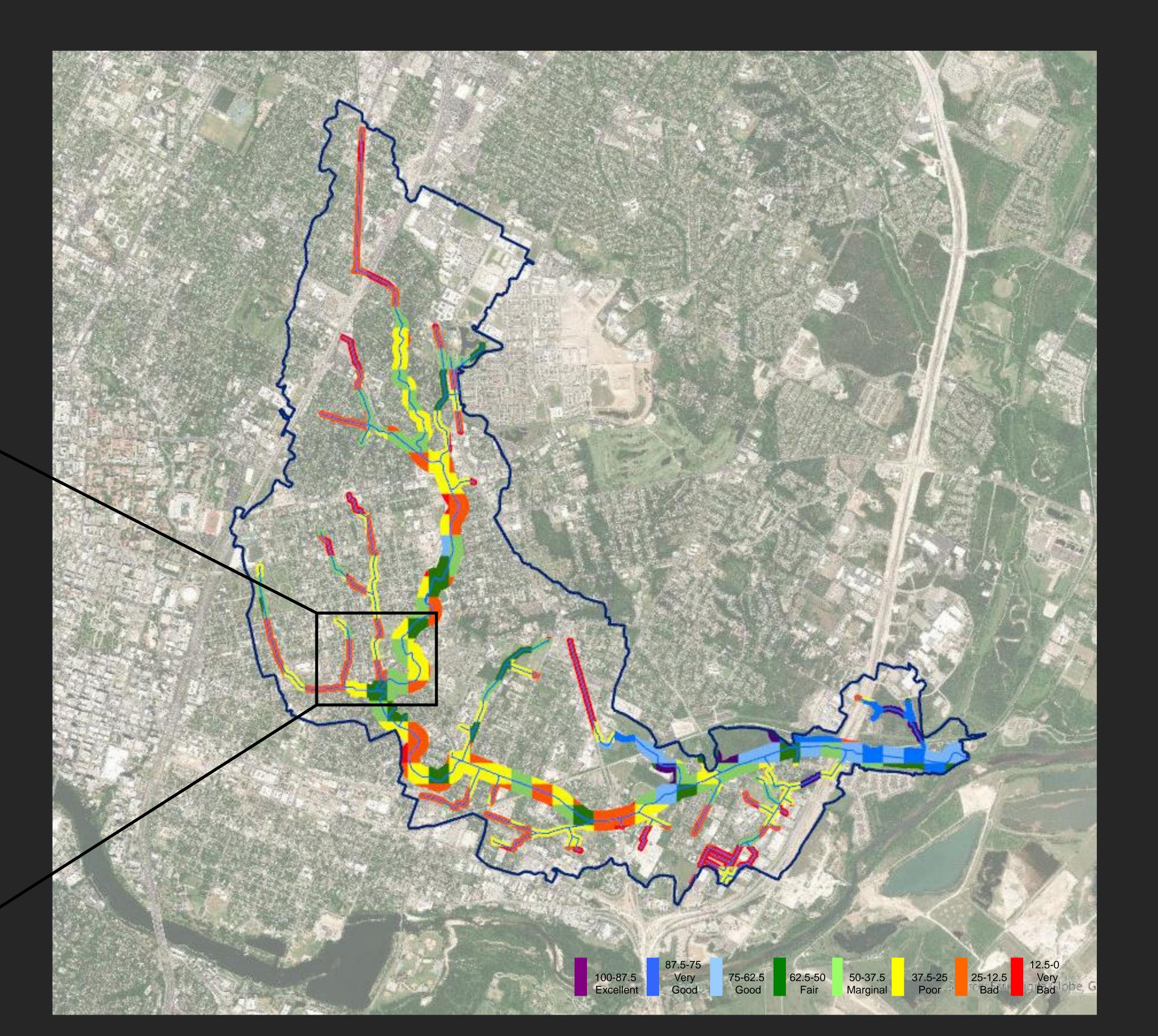
- Gather your GIS/Land Cover: Canopy, impervious, and pervious cover (no canopy). (canopy over IC doesn't count)
- 2. Define your buffer widths (???)
- 3. Define your buffer units: we used a 600 ft grid.
- 4. Calculate % land cover for each unit
- 5. Apply your scoring criteria

IRI=(Pervious x 55 + Canopy x 100) x (1-IC)



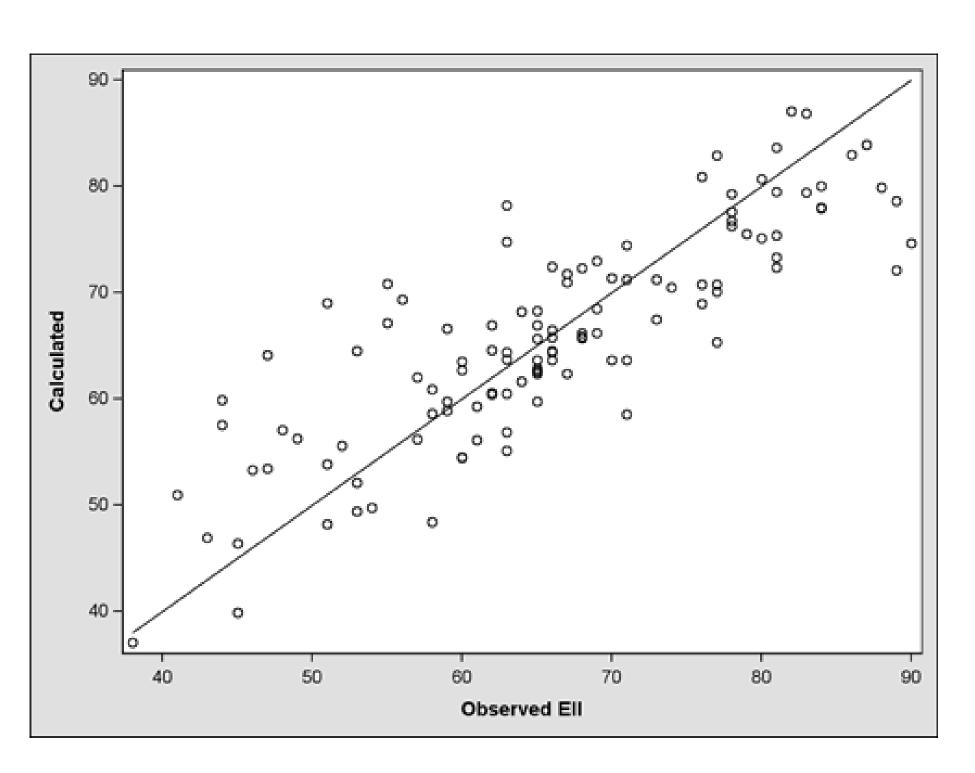


Basic GIS and some advanced math provide a **practical tool** for assessing urban **riparian buffer function** and prioritizing restoration.



Why?

- Calculate gap to goals (i.e. Good Score, 67.5).
- Report out riparian scores at any scale (sub-shed, watershed, council district, etc).
- Rank low scores or priorities at any scale.
- Identify funding needs (passive vs. active restoration).
- Visually present buffer quality at any scale, and why.
- Use as stream health predictor variable



(Scan for previous work on this topic)

