

**Tanzanian Water
Well**

**PREDICTING FUNCTIONAL WATER WELLS
IN TANZANIA**

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Outline

1.

DATA & METHODS

2.

MODEL ANALYSIS

3.

RECOMMENDATIONS

4.

NEXT STEPS

Business Problem

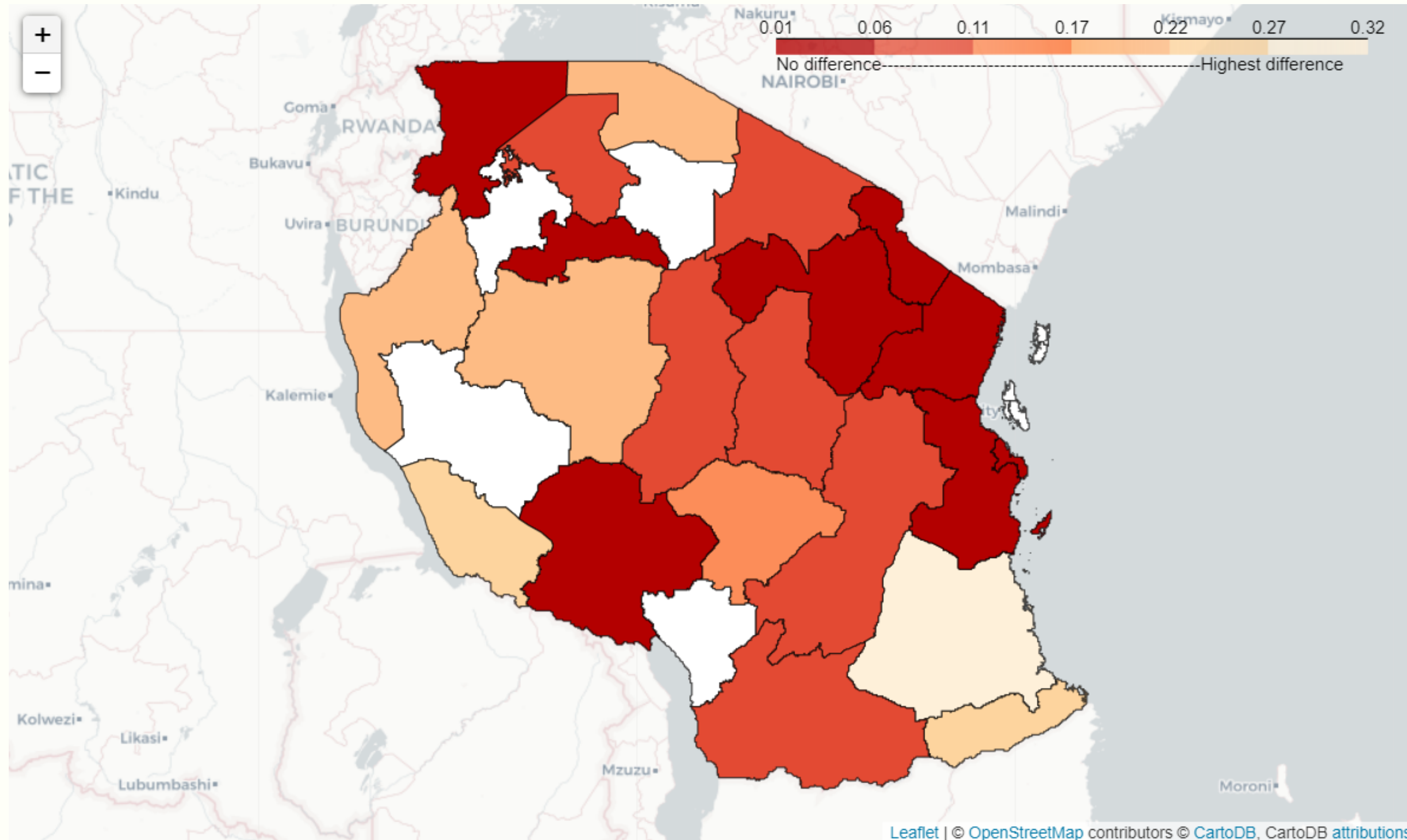
**Prepare for maintenance
before a well needs repair**

Data & Methods

Tanzanian Ministry of Water

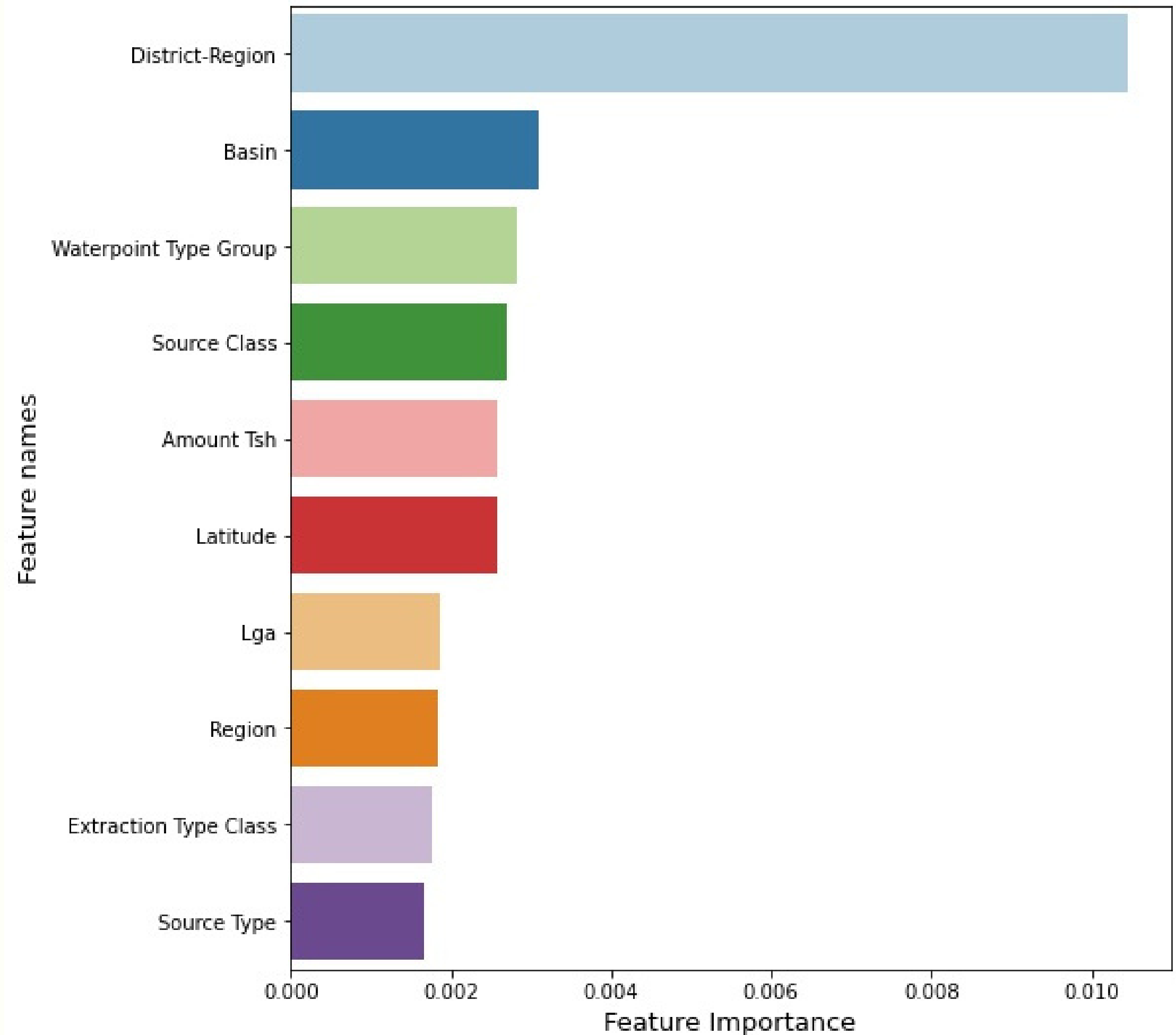
- **Spatial
Analysis**
- **Iterative
Modelling**

BEST MODEL: 83% accuracy

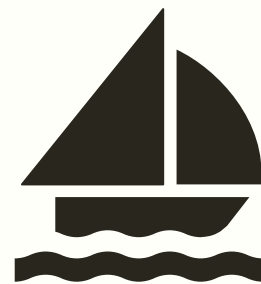


Feature Importance

- Location is the most important feature

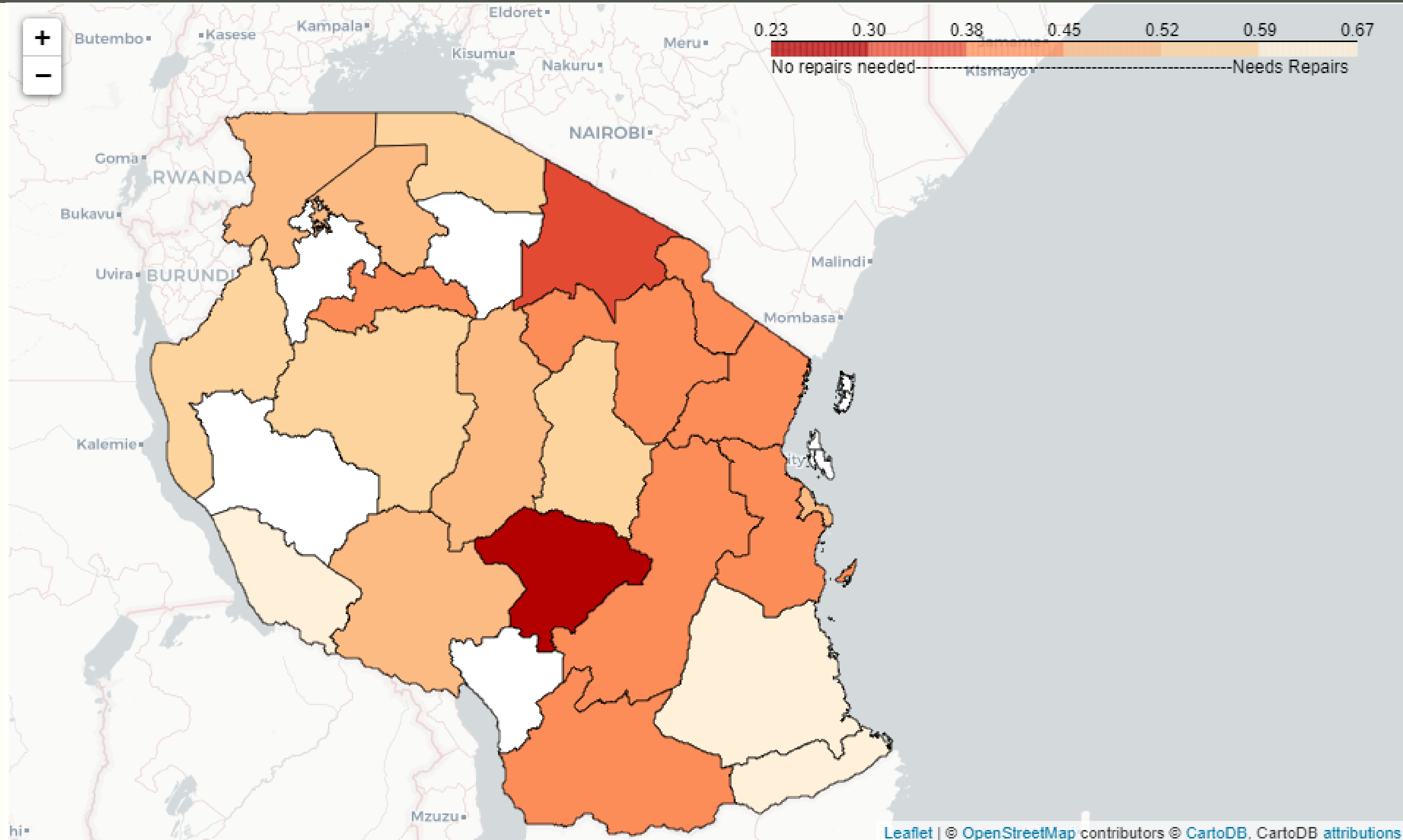


RECOMMENDATIONS

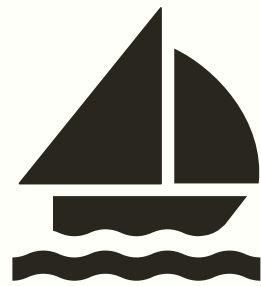


Use the model to prepare
for resources to maintain &
repair

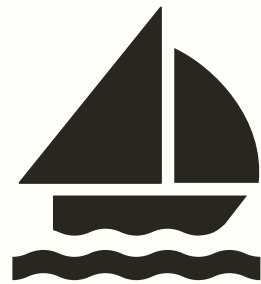
ACTUAL WELL STATUS



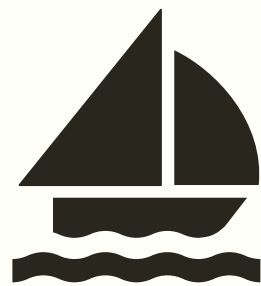
NEXT STEPS



A more comprehensive
spatial analysis



Include meteorological
data



Gather more data in regions
with unavailable data

Questions?



HANIS ZULMUTHI

Data Analyst

