

Tanzania Ministry of Water

Dara Estrada
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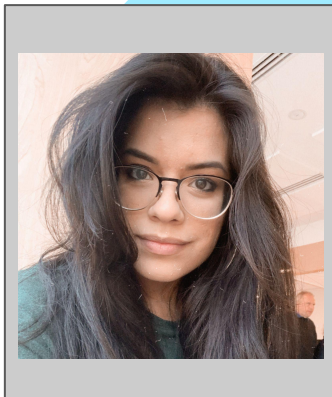
MEET THE TEAM



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OUR PROCESS



**BUSINESS
UNDERSTANDING**



**DATA
UNDERSTANDING**



MODELING



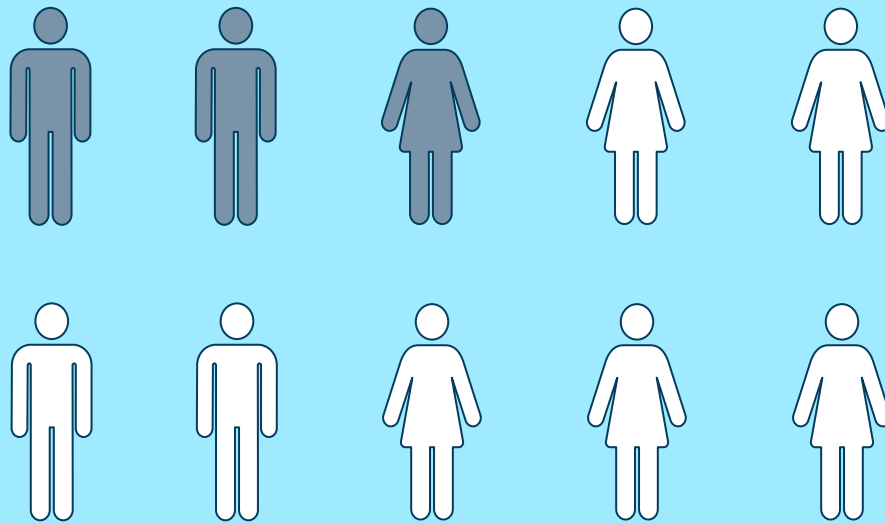
RECOMMENDATIONS



FUTURE



3 Out of 10 Do Not Have Access to Basic Drinking Water



According to the source, basic drinking water is that from an "improved source, provided collection time is not more than 30 minutes for a round trip, including queuing".



4 Million lack access to an improved source of safe water



Data Understanding



DRIVENDATA



2011 - 2013

Modeling



Predictive &
Inferential Models

MODELS

...



False Positives
Change Lives

PRECISION

...



Precision Score of
82%

AGGREGATE RESULTS

...



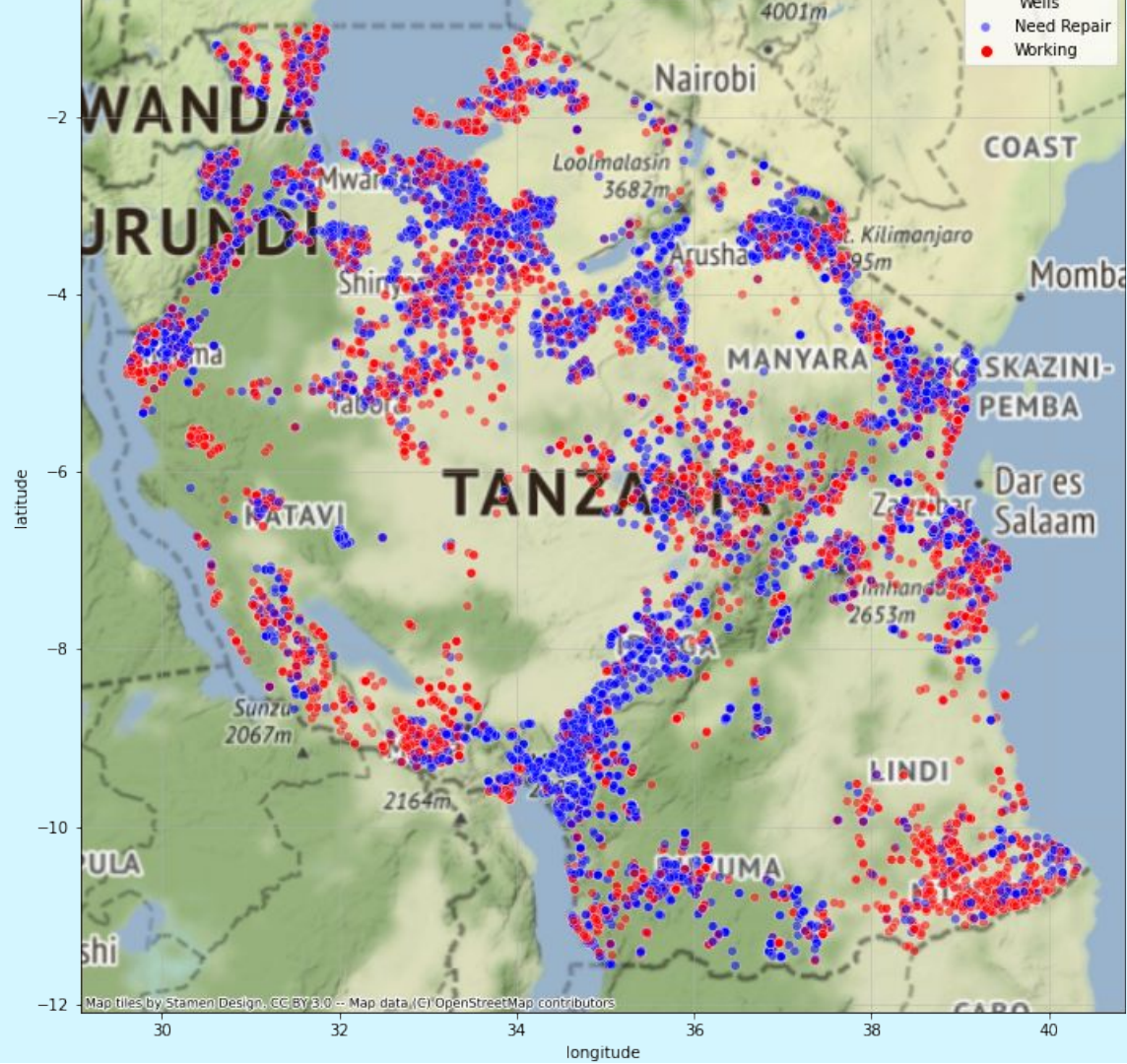
Permits



Wells with permits **2.1x**
to be functional

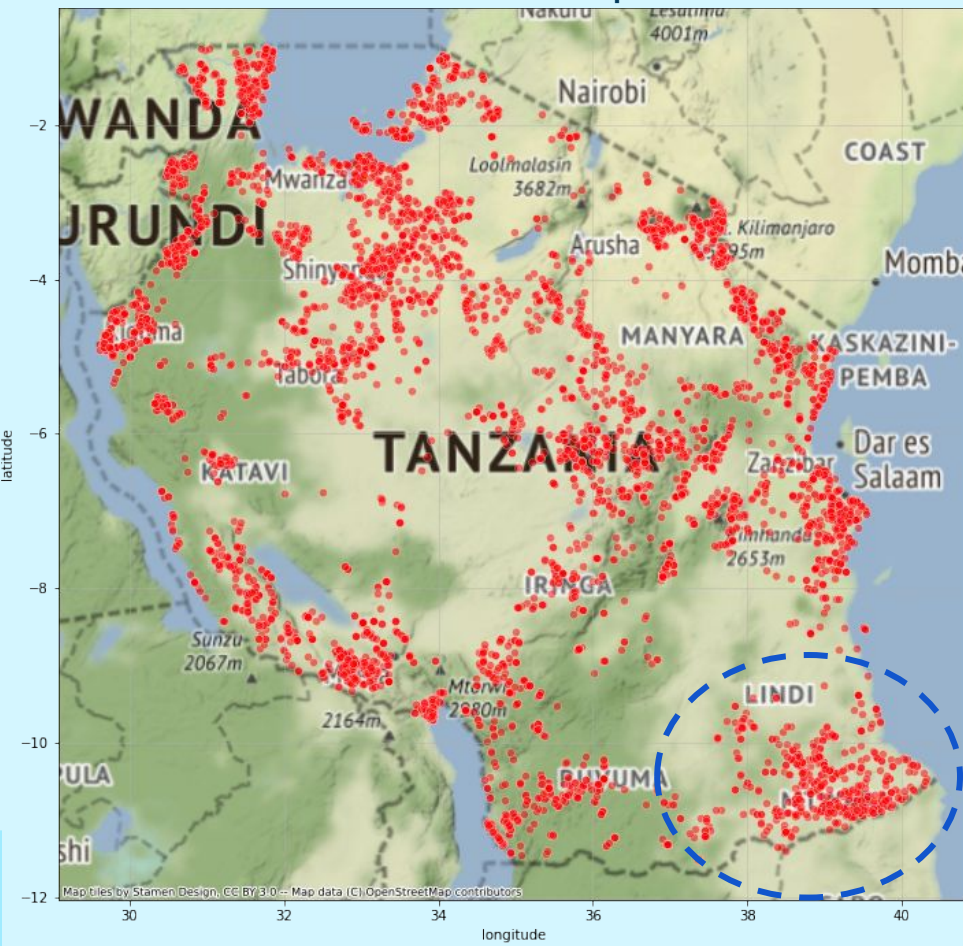


Wells without permits
2.8x to be in need of
repair

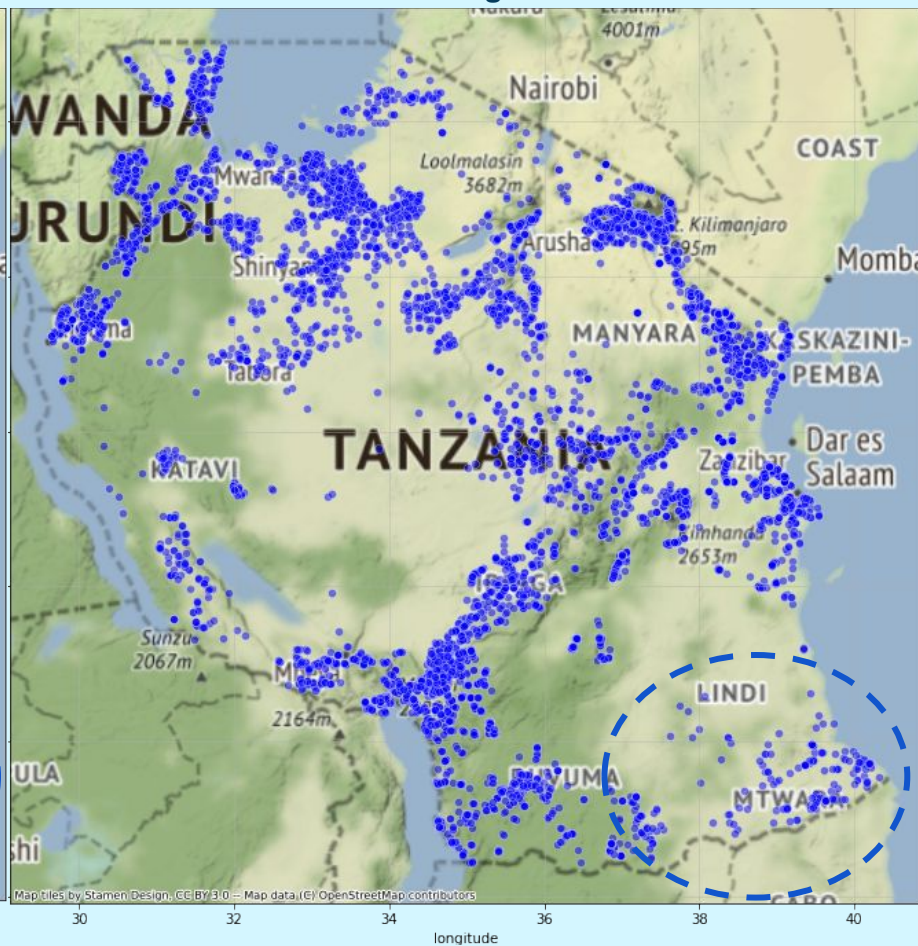


Analysis

Wells in Need of Repair



Functioning Wells



Recommendations



Location	Identify Wells	Permits
Higher Elevation is best!	Minimize resources spent	Save time and money



Future Research

- Implementation Cost
- Maintenance Cost
- Analysis for alternative solutions



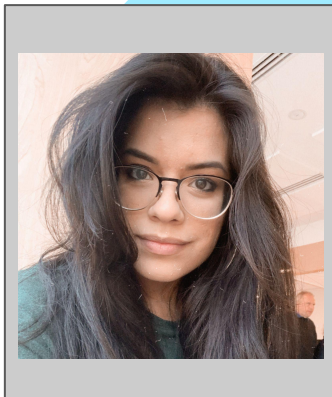
THANK YOU!



Andrew Choi

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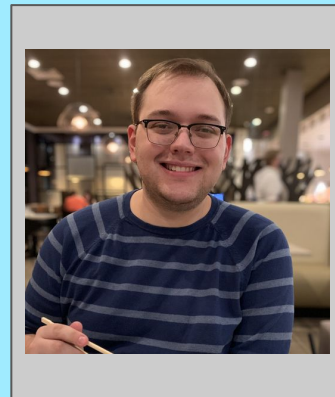
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Appendix

Slides.com

<https://data.worldbank.org/indicator/SP.RUR.TOTL.ZS?locations=TZ>

<https://www.statista.com/statistics/1266634/access-to-drinking-water-in-tanzania-by-residence/>



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