

Tanzanian Water Well Functionality Testing



Luca Francesco Caruccio

Summary



- Business problem
- The data process
- What did we learn?
- What is left to learn?

Business Problem



- Equal access to clean drinking water
- Attempt to identify future breaks before they happen



Data Process



Data provided by TAARIFA, and the Tanzanian Ministry of Water

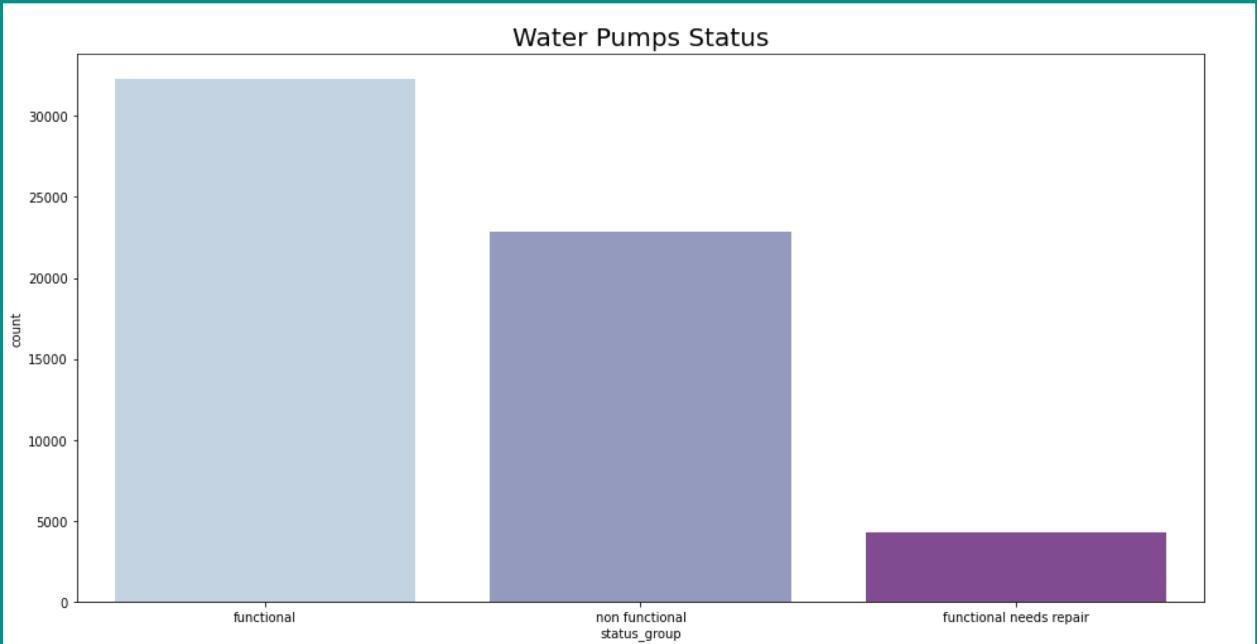
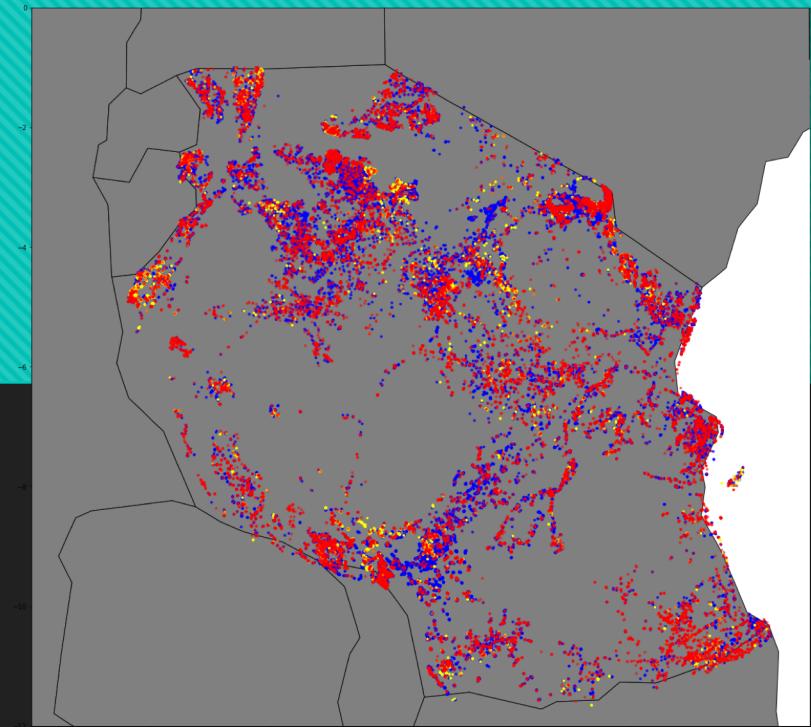
1. Examined
2. Restructured
3. Modeled
4. Interpreted



Findings

Functionality and location

Slightly over half of the wells are fully operational



Findings (continued)

Our model was inconclusive

The rate of success in determining which pumps would be functional was too low



Recommendations and Future Work

- Increased well maintenance
- Targeted outreach to critically endangered areas
- Alternative methods to access clean water
- Cross-examine different well failures, and their solutions
- Well success/failures by year, and donation
- Ideal well/population ratio by region

Thank You!

Email: lfcaruccio@gmail.com

Github-Luca-Caruccio

Linkedin: Luca Caruccio

