

TYLER WOOD - DATA SCIENTIST

PREDICTING TANZANIAN WELL STATUS



Overview

- Tanzania's water situation
- Our proposed solution
- Further Implementations

Dirty water kills approx. 5000 children a day

Lack of water significantly hurts



Health of
citizens



Access to food



Local economy
growth

Source: <https://www.theguardian.com/business/2006/nov/10/water.environment>

We could serve Tanzania:

4 Million

without access to safe drinking water

29 Million

without access to adequate supply of water

Source: <https://water.org/our-impact/where-we-work/tanzania/>

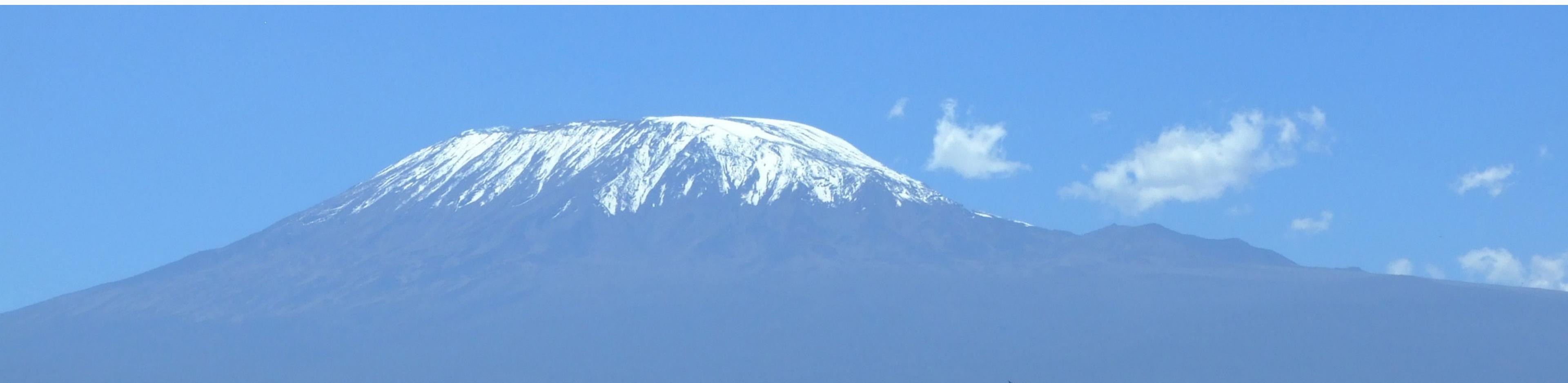
Tanzania's Situation:

- Responsive to water innovations
- Growing digital finance sector
- Access to microloans

Source:<https://water.org/our-impact/where-we-work/tanzania/>

Data Source:

- Taarifa
- Tanzanian Ministry of Water

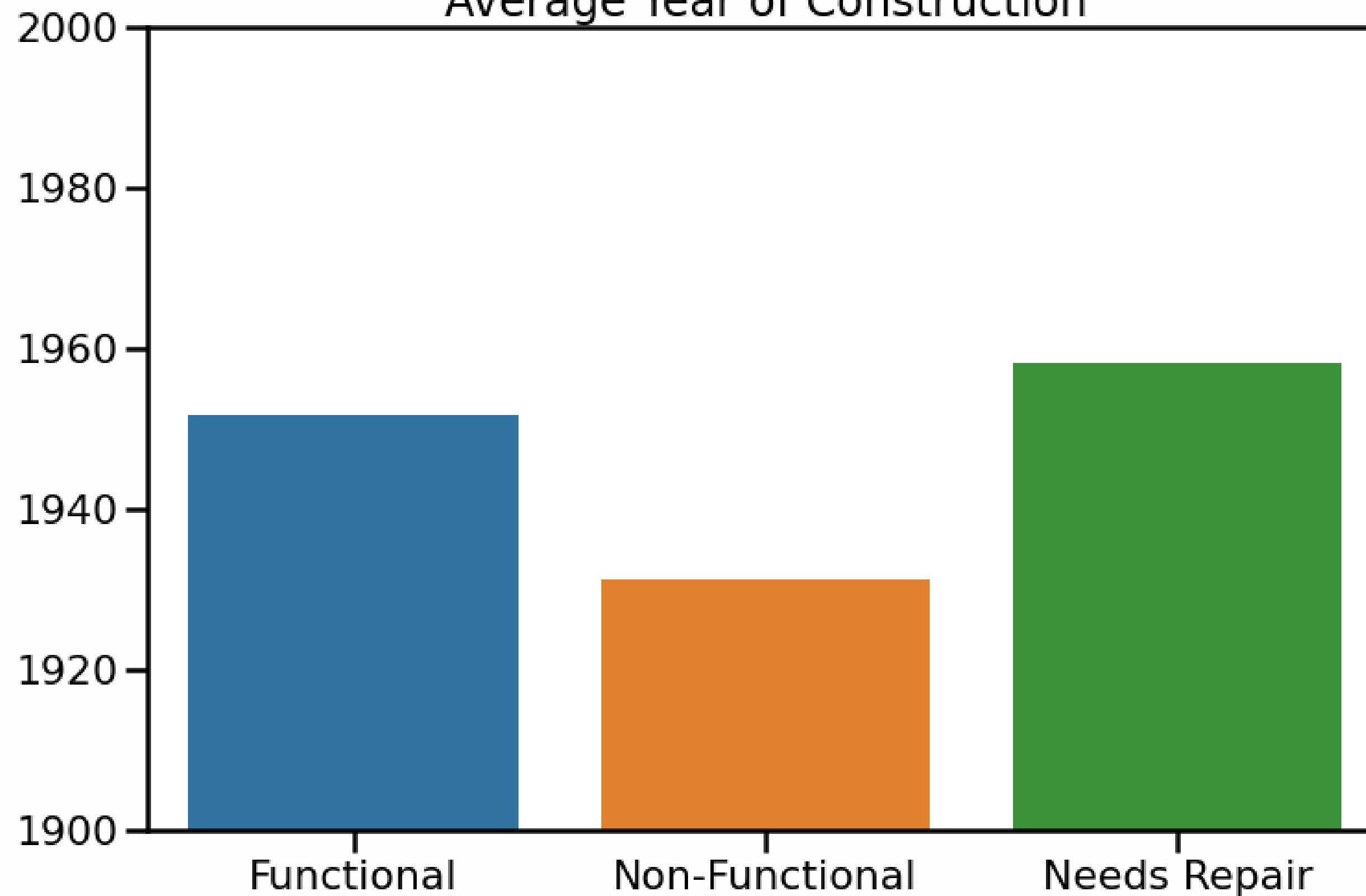


Predictive Model:

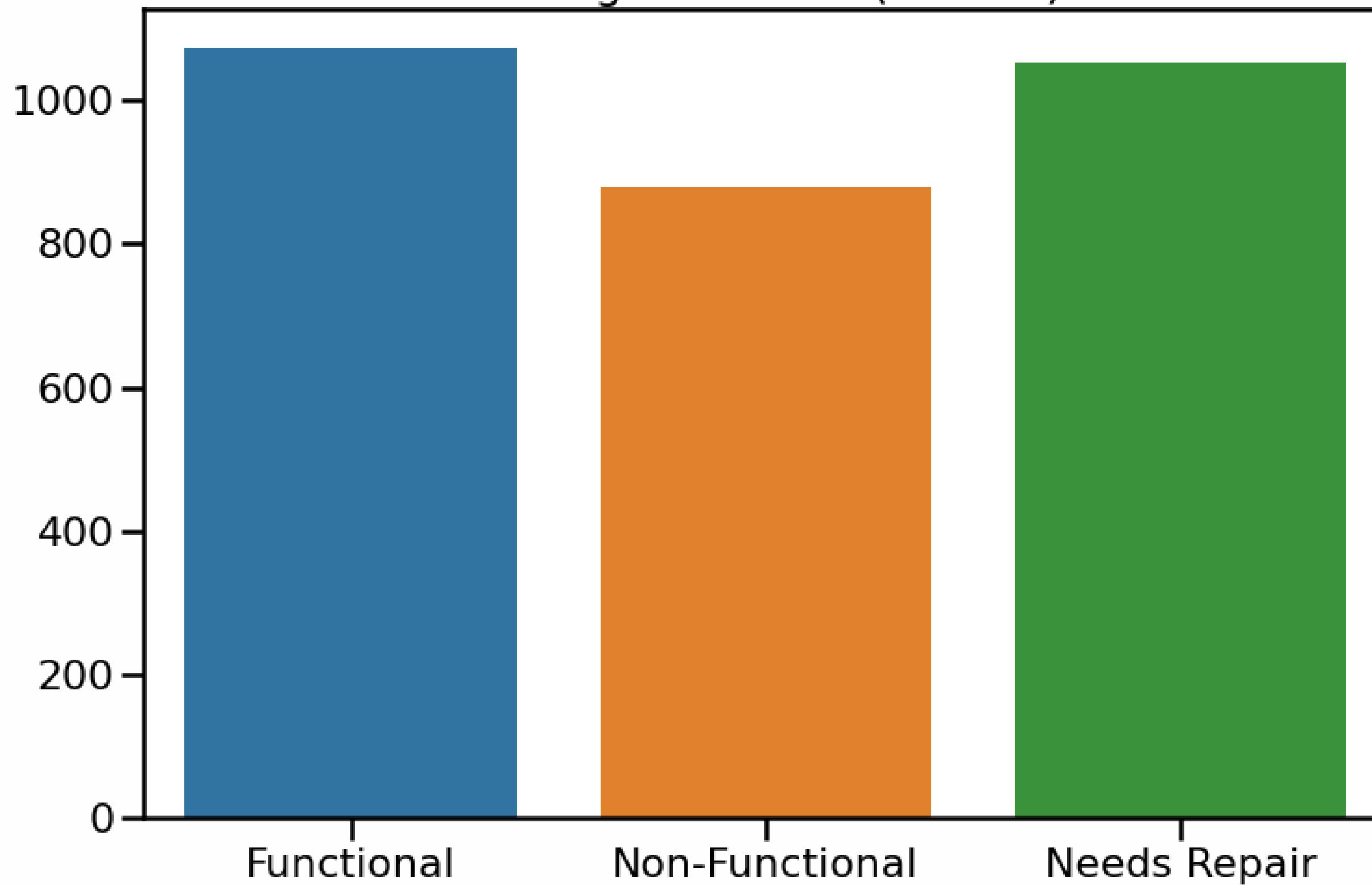
- Accuracy of 81%
- 45% of waterpoints need repair



Average Year of Construction



Average Elevation(meters)



Recommendations:

- Find wells with high-risk conditions
- Build wells in low-risk environments
- Collaborate with Tanzanian Government

Next Steps:

- Create more generalizable models
- Invest in technologies
- Improve data collection methods

Thank You

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