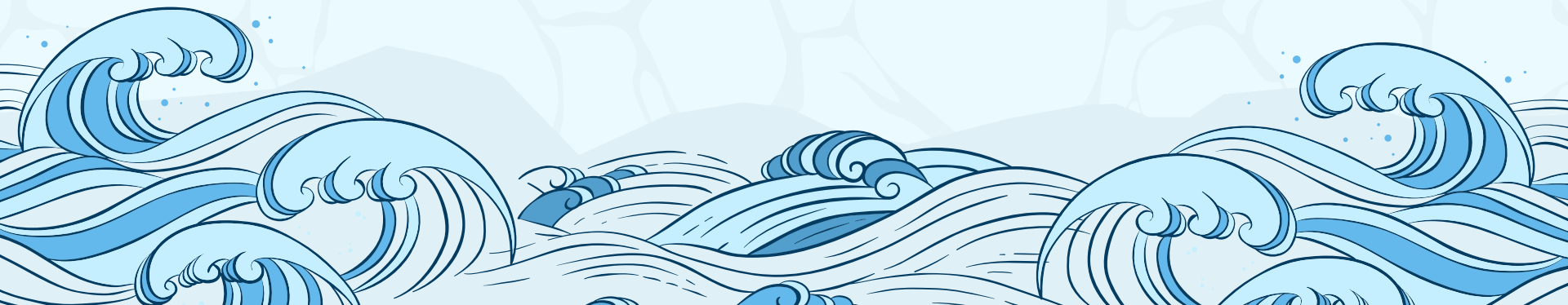


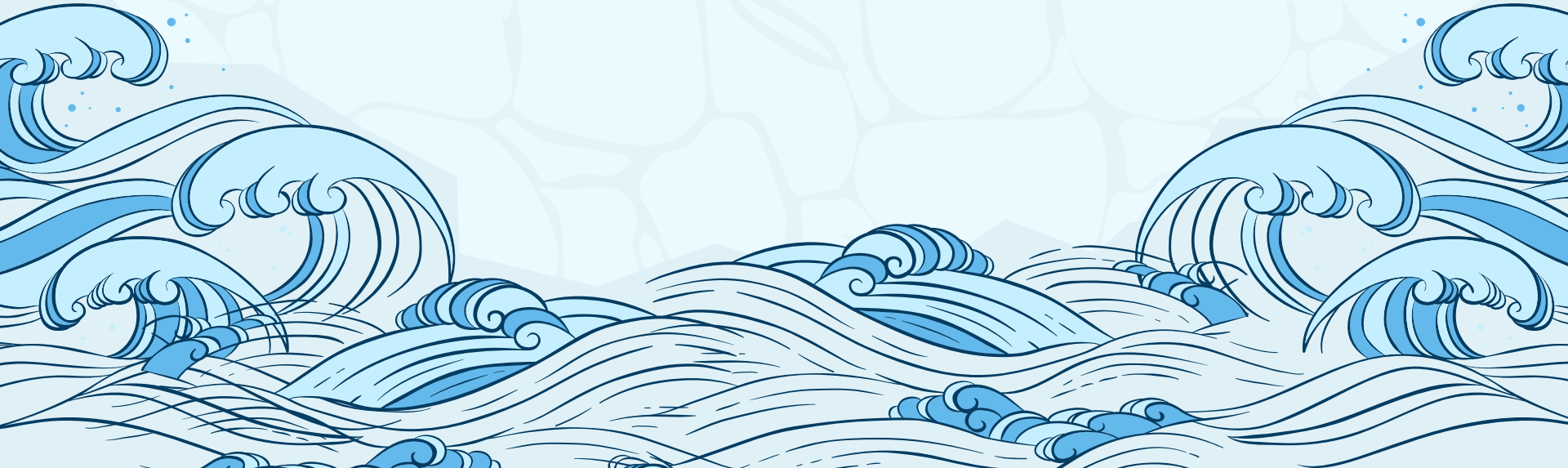
Tanzanian Water Well Functionality

**For the head of the Tanzanian
Ministry of Water**



Presented By:

Alex Karadjov



What Are We Trying To Accomplish?

Predict the **functionality** of
water wells

Which **features affect** the **status**
of water wells



Why Is This Important?

4 million people do **not** have
access to **safe water**

30 million people **lack** access to
improved **sanitation**

Help **ensure** that **safe, clean** water becomes **more accessible**
across Tanzania



About our Data

- **DrivenData.org**
- **Taarifa and Tanzanian Ministry of Water**
- **Over 59, 000 Data Points**

Final Model

Final Model

Accuracy : 72%

(overall correctness of predictions)

Precision : 61 %

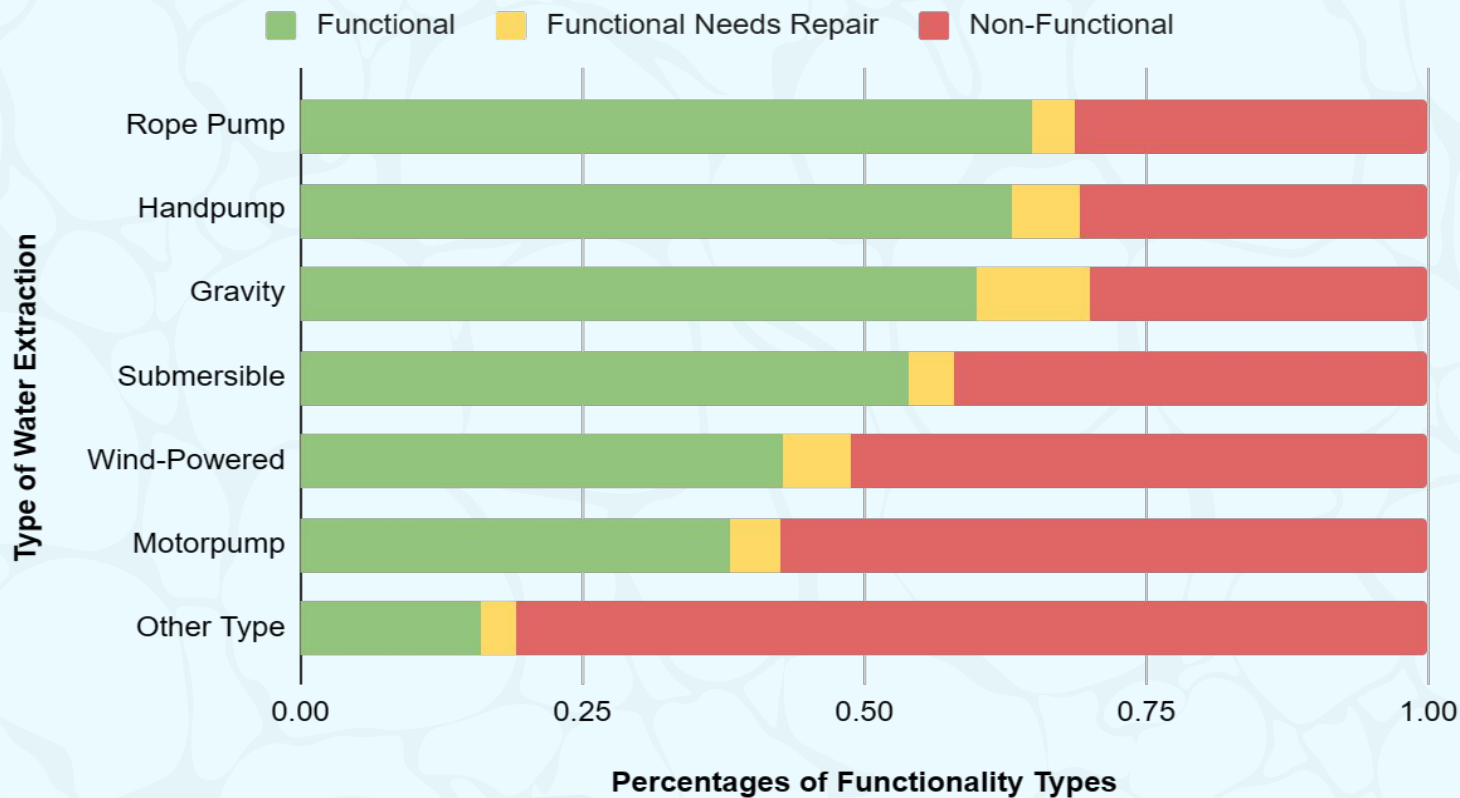
(the accuracy of positive predictions)

Final Model

Top 3 Most Important Features:

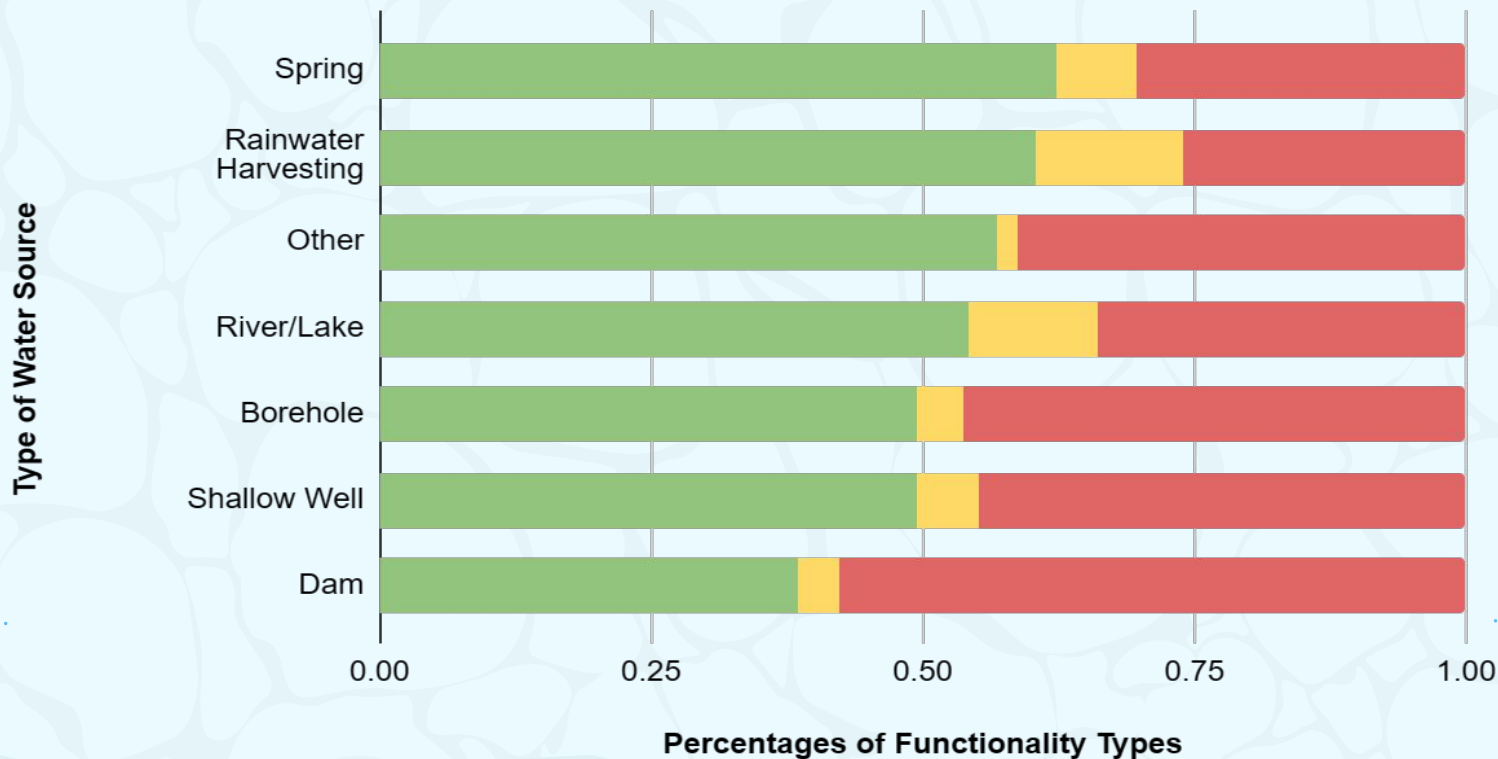
1. **Water Point**
2. **Source of Water**
3. **Type of Water Extraction**

Water Extraction by Functionality

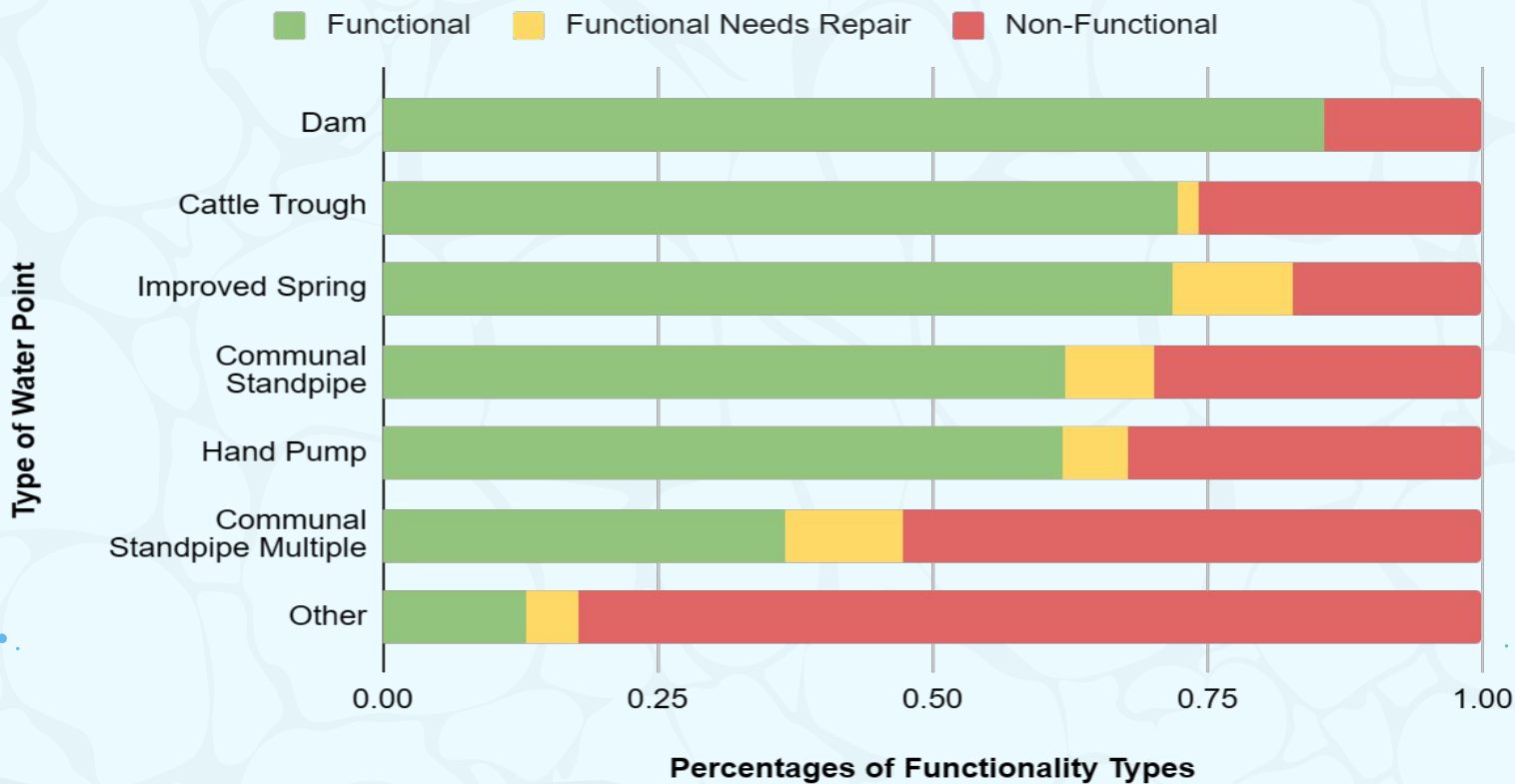


Water Source by Functionality

Functional Functional Needs Repair Non-Functional



Water Point by Functionality



Future Recommendations

Three

Avoid

Two

Maintenance

One

Building



Next Steps

- Focus on **regions** in Tanzania
- **Geographical** information about the **water sources**
- Types of **water pumps** and **water quality** in specific **regions**



Thank you Questions?

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