



KISIMA: A study of Tanzanian Water Wells

By Luluva Lakdawala, Johnhoy Stephens, Karim Oliver

Objectives

- ❖ No longer functioning?
- ❖ Discover Trends
- ❖ Proper Fund Allocation



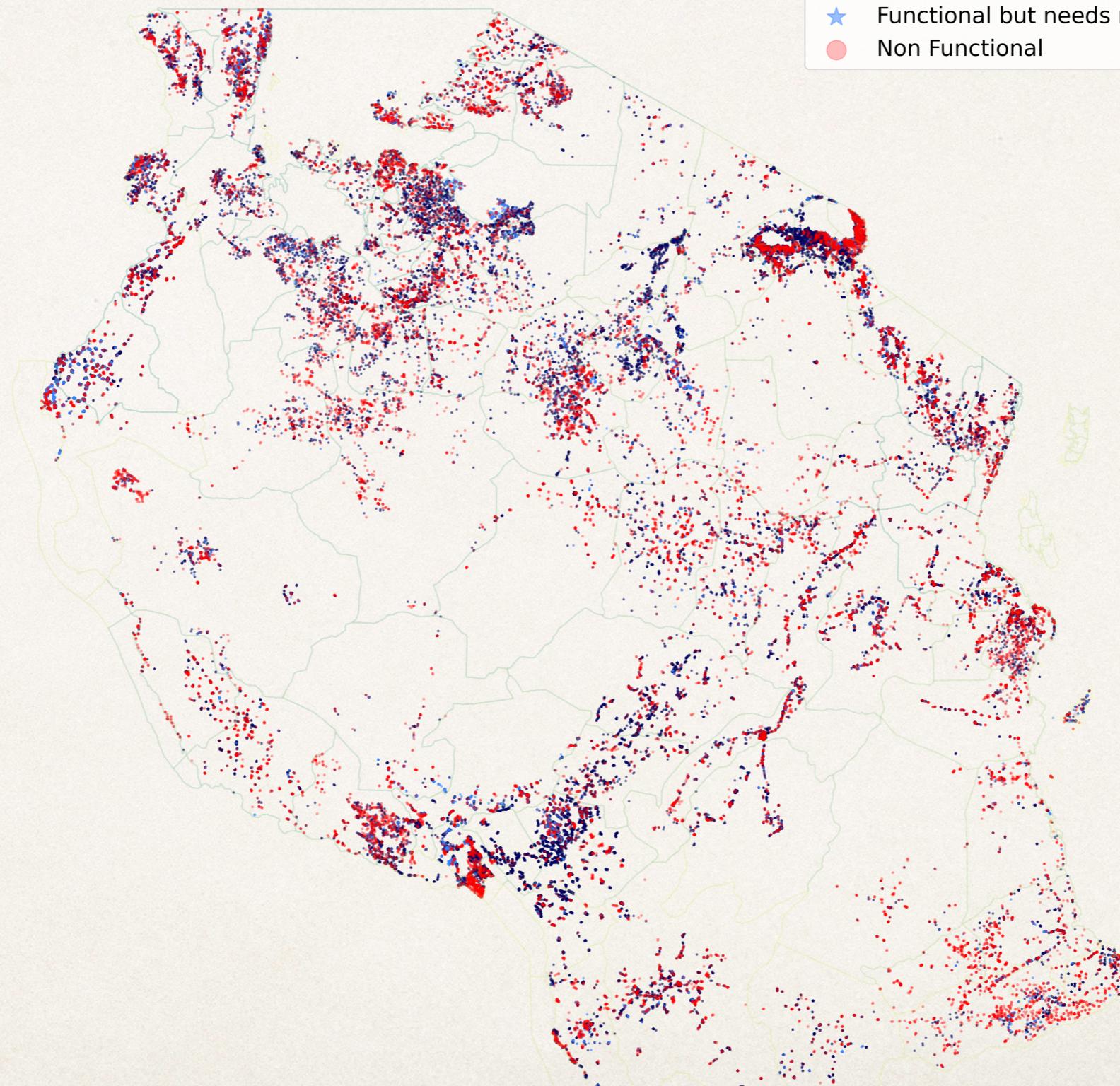
Process



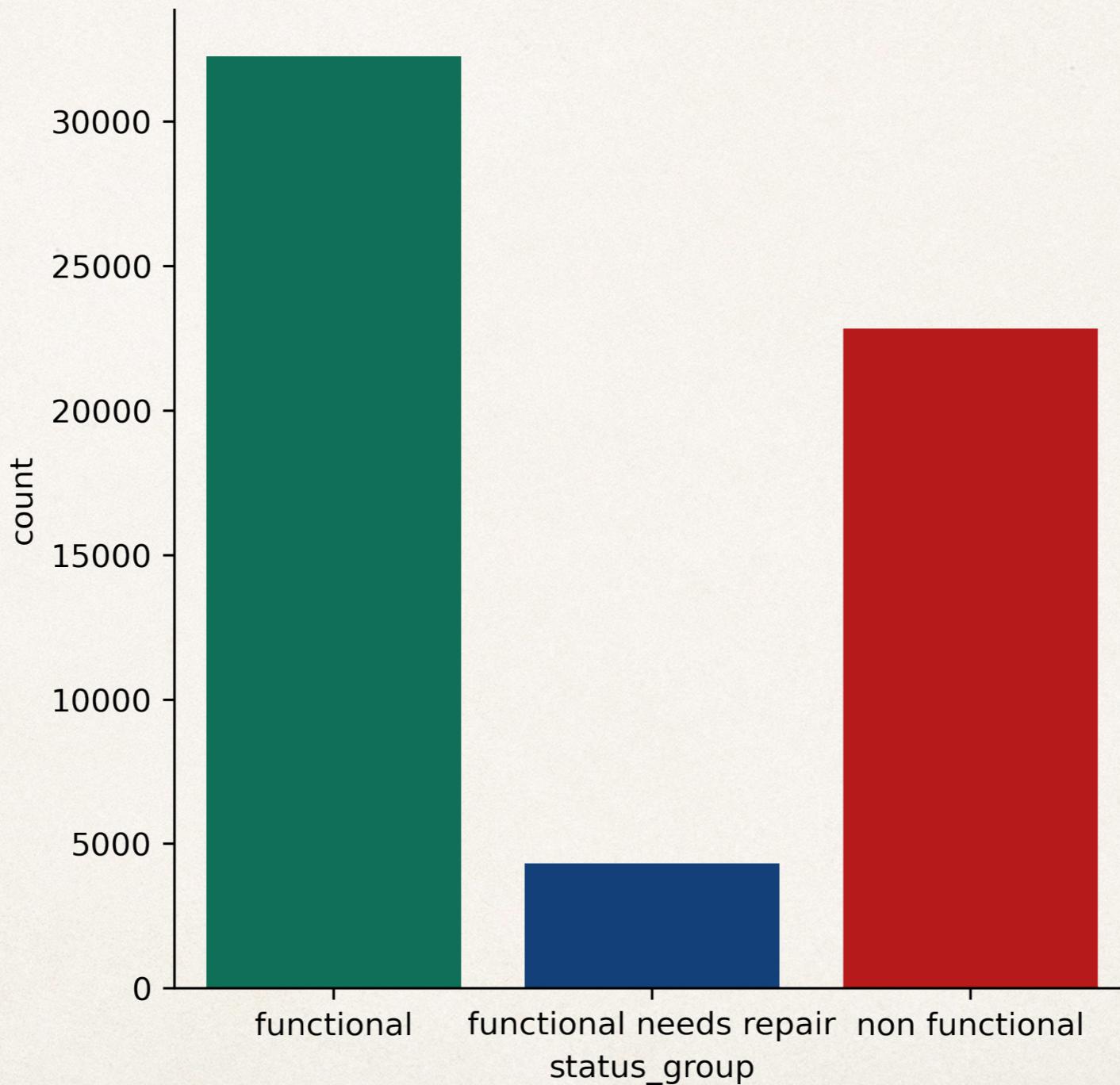
- ✿ Datasets from Tanzanian Water Ministry
- ✿ Information from Taarifa
- ✿ EDA——>Modeling



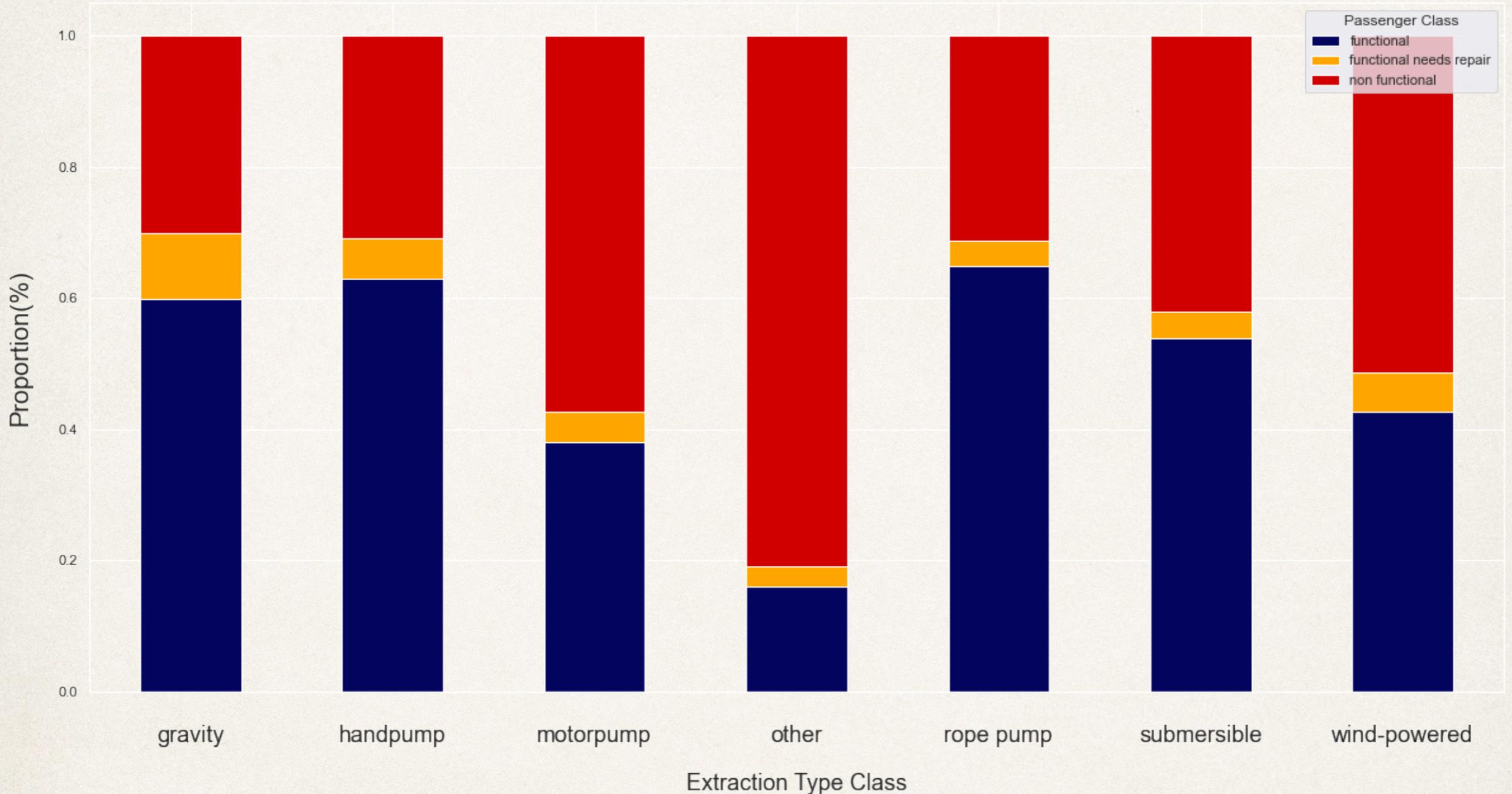
- ★ Functional
- ☆ Functional but needs repair
- Non Functional



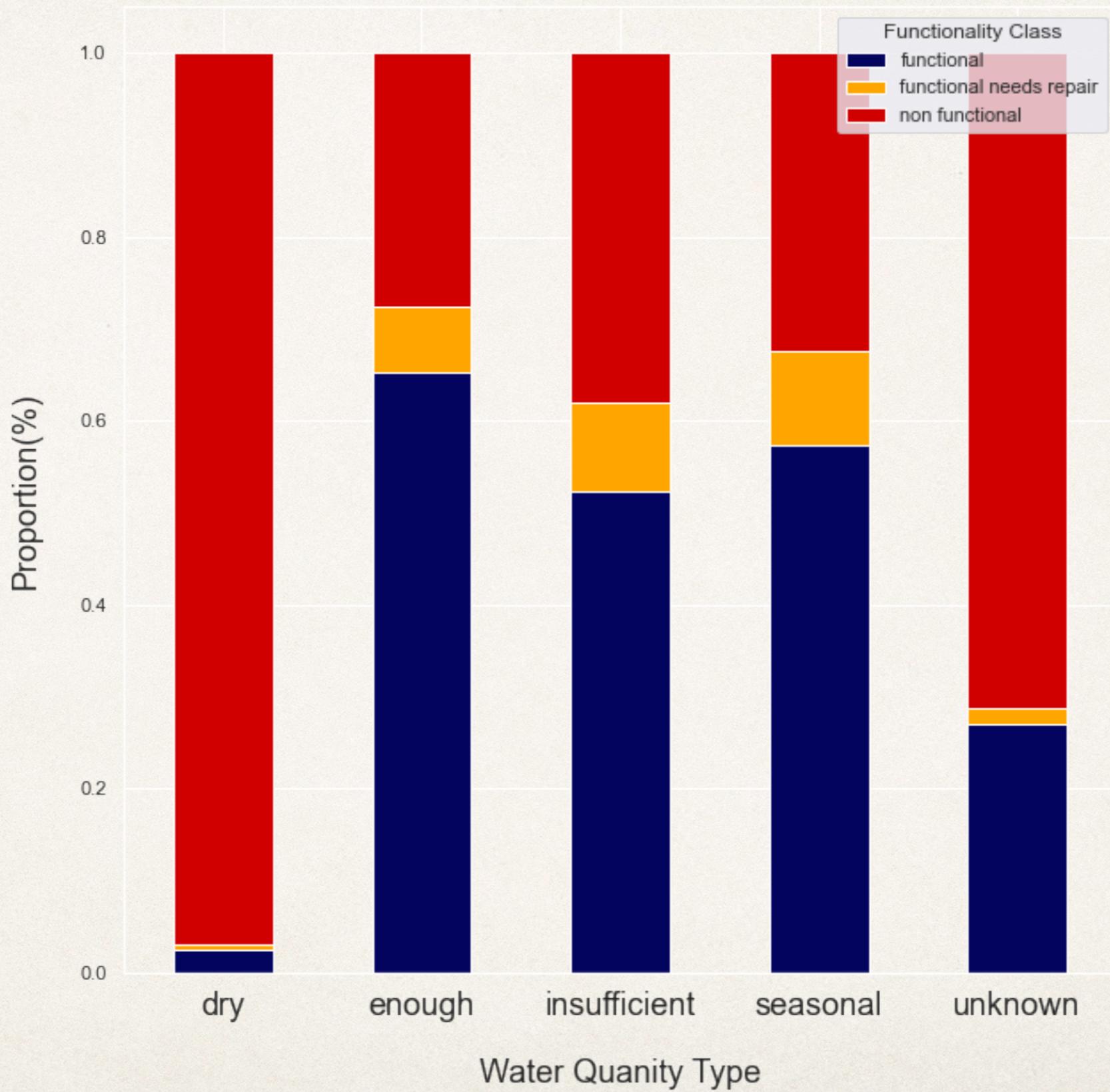
Number of Wells per Functionality Class



Functionality of well vs. Extraction Type

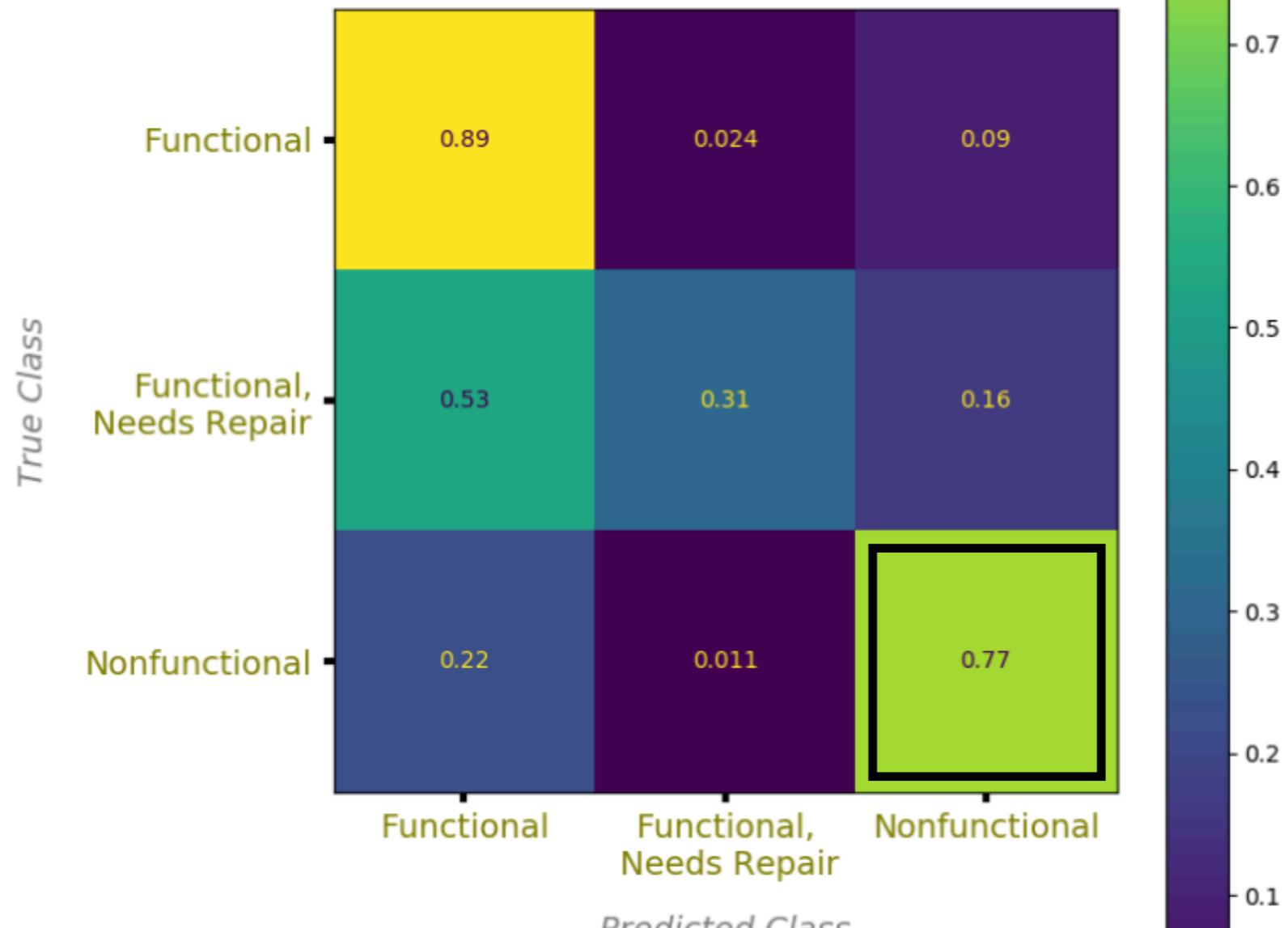


Functionality of well vs. Water Quantity



Random Forest Classifier

Balanced Class Weights & 200 Estimators



Moving Forward

- ❖ Impact of Salinity
- ❖ Sustainability
- ❖ Geography and Topography



Contact US

- ✿ Luluva Lakdawala-luluayusuf@gmail.com
- ✿ Karim Oliver -karim.oliver0@gmail.com
- ✿ Johnhoy Stephens-Jsteph1196@gmail.com