

# *Tanzania Water Project*

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# Business Problem

**What are the key features  
that predict the condition of a  
water well?**



# Agenda

- **Data**
- **Conditions of Water Well**
- **Key Features**
- **Our Model**

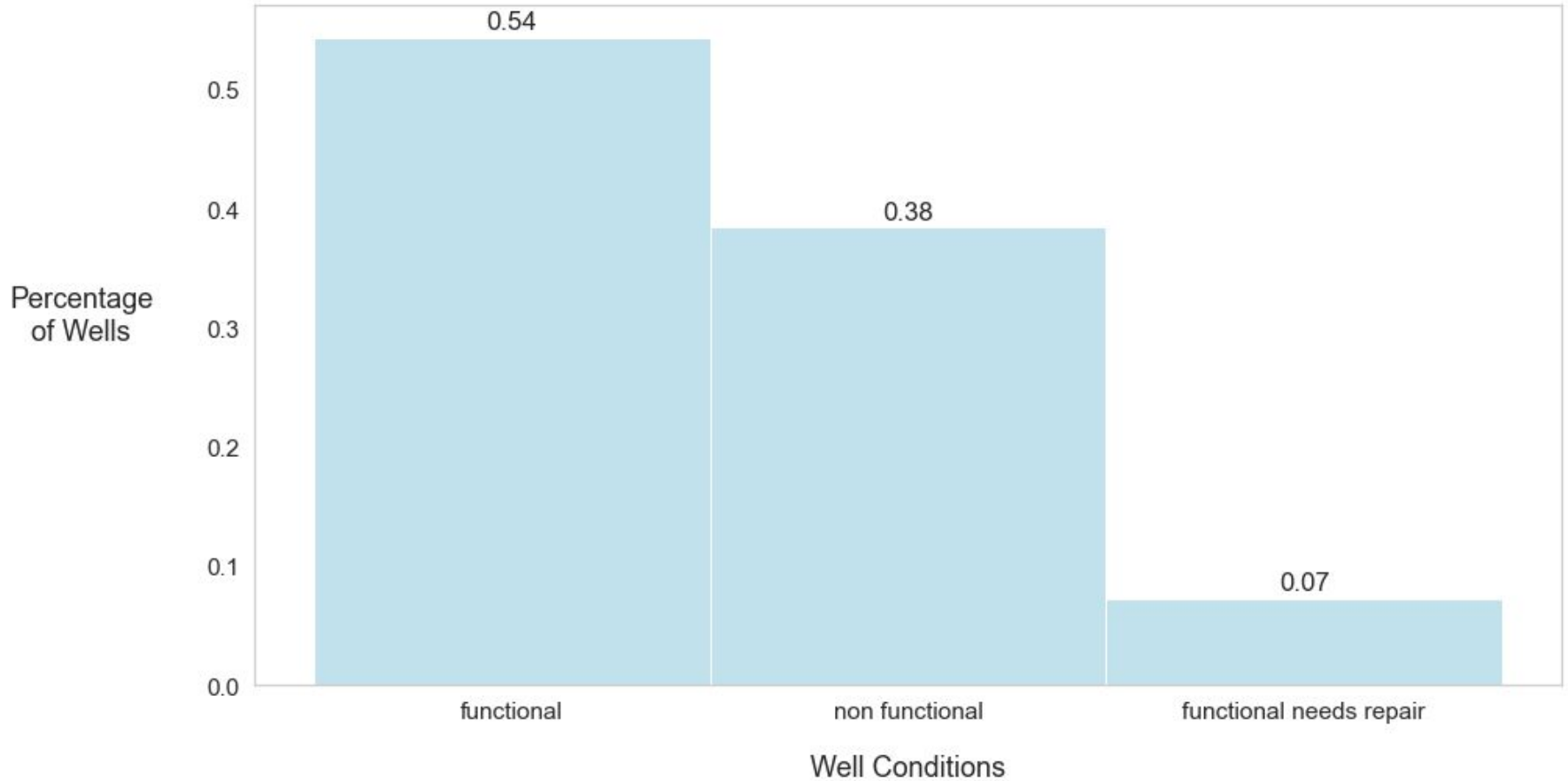




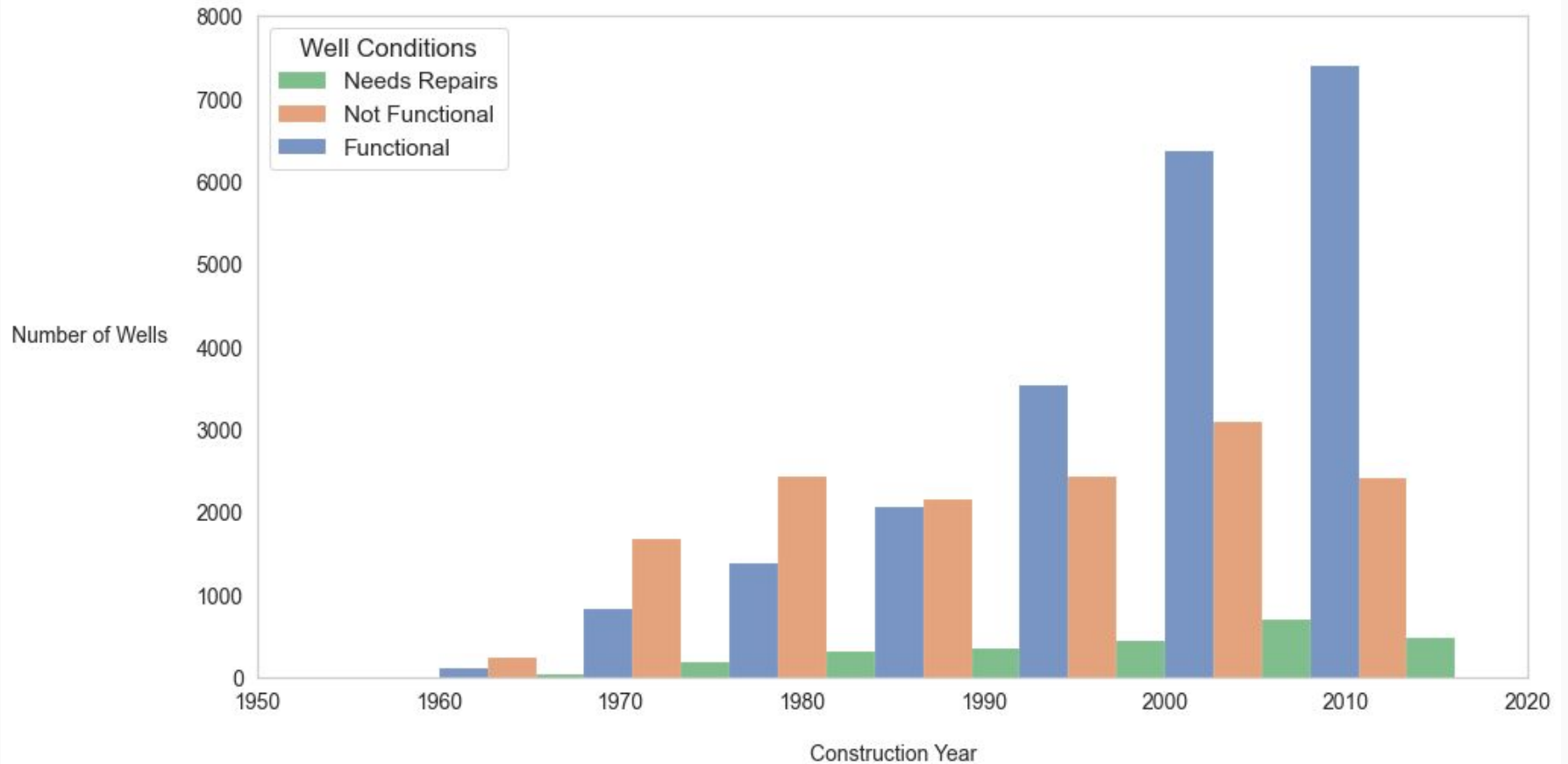
**DRIVEN**The word 'DATA' is part of the 'DRIVEN DATA' logo, with each letter containing a different colored horizontal stripe.

- **Tanzania Ministry of Water**
- **59,400 water wells**
- **1960s - 2013**
- **39 features**
- **3 classes**

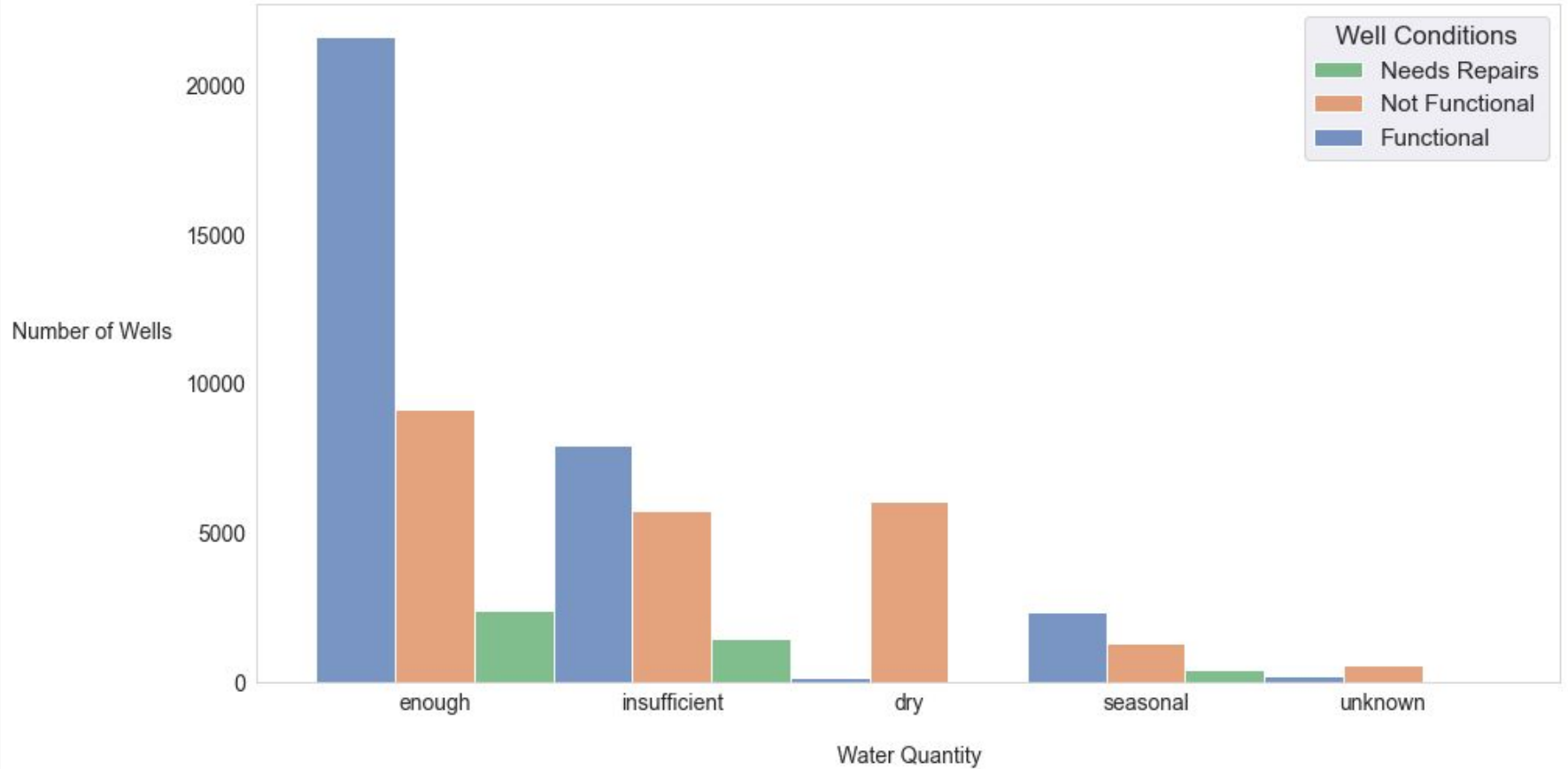
# Conditions of Water Wells



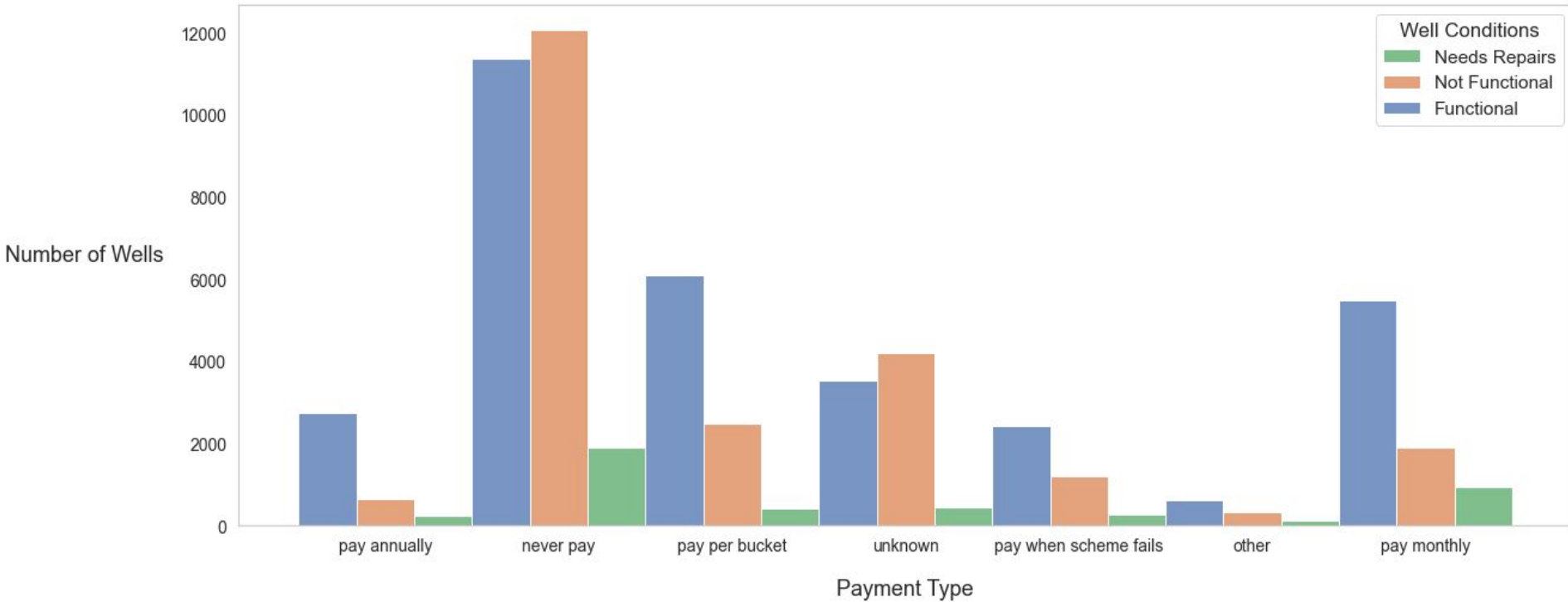
# Construction Year



# Water Quantity



# Payment Type





# Recommendations

- **Focus on areas with older wells (especially pre 1990s)**
- **Put efforts in “Dry” regions**
- **Subsidize areas that do not have a local payment system for wells**

# Our Model

- **Accuracy of 80%**
- **Gives a good prediction on which well is not working and which well needs repairs**
- **Can help improve maintenance operations and water accessibility**

*Thank You!*  
*Any Questions?*

