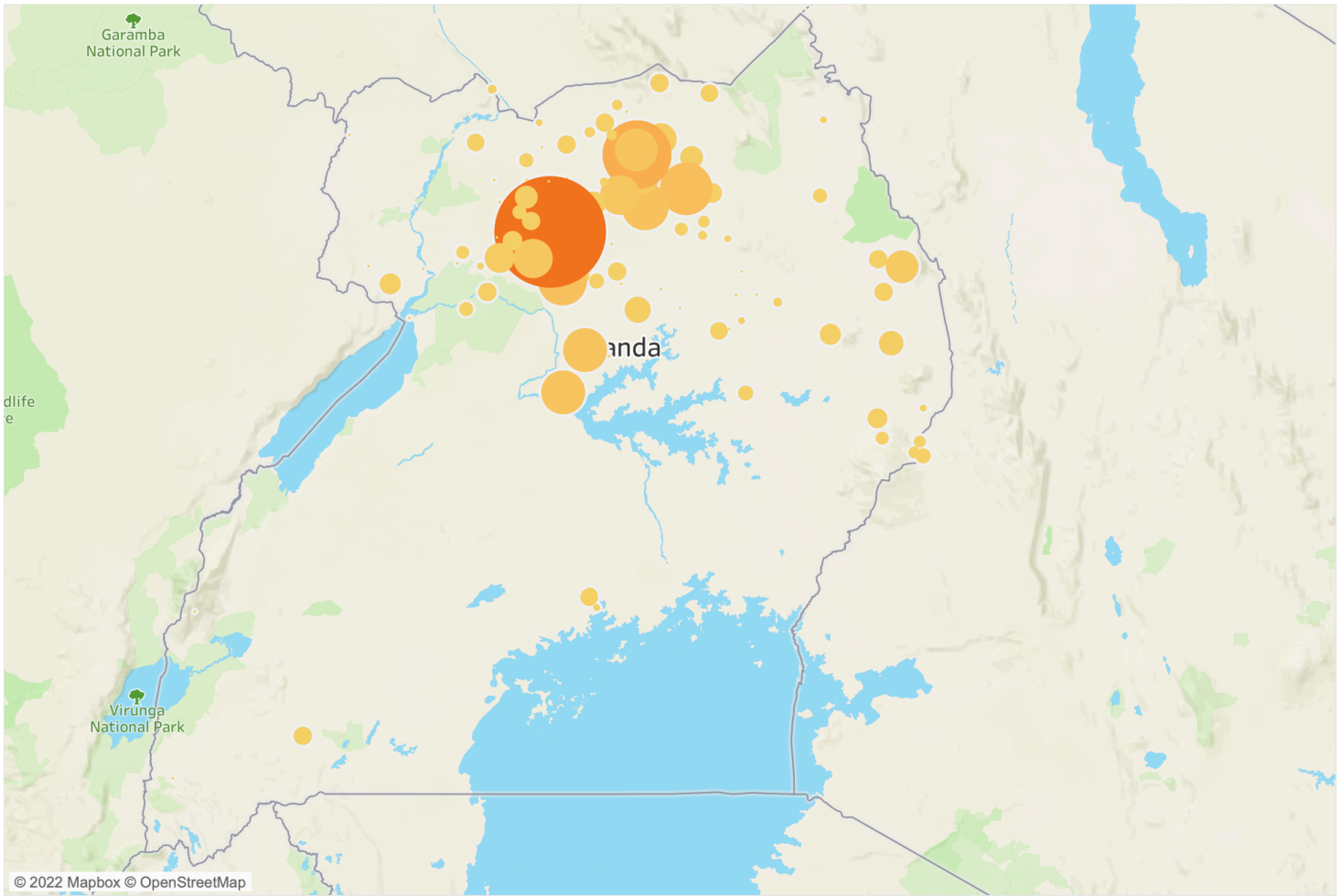


Reducing conflict by improving water access in Uganda



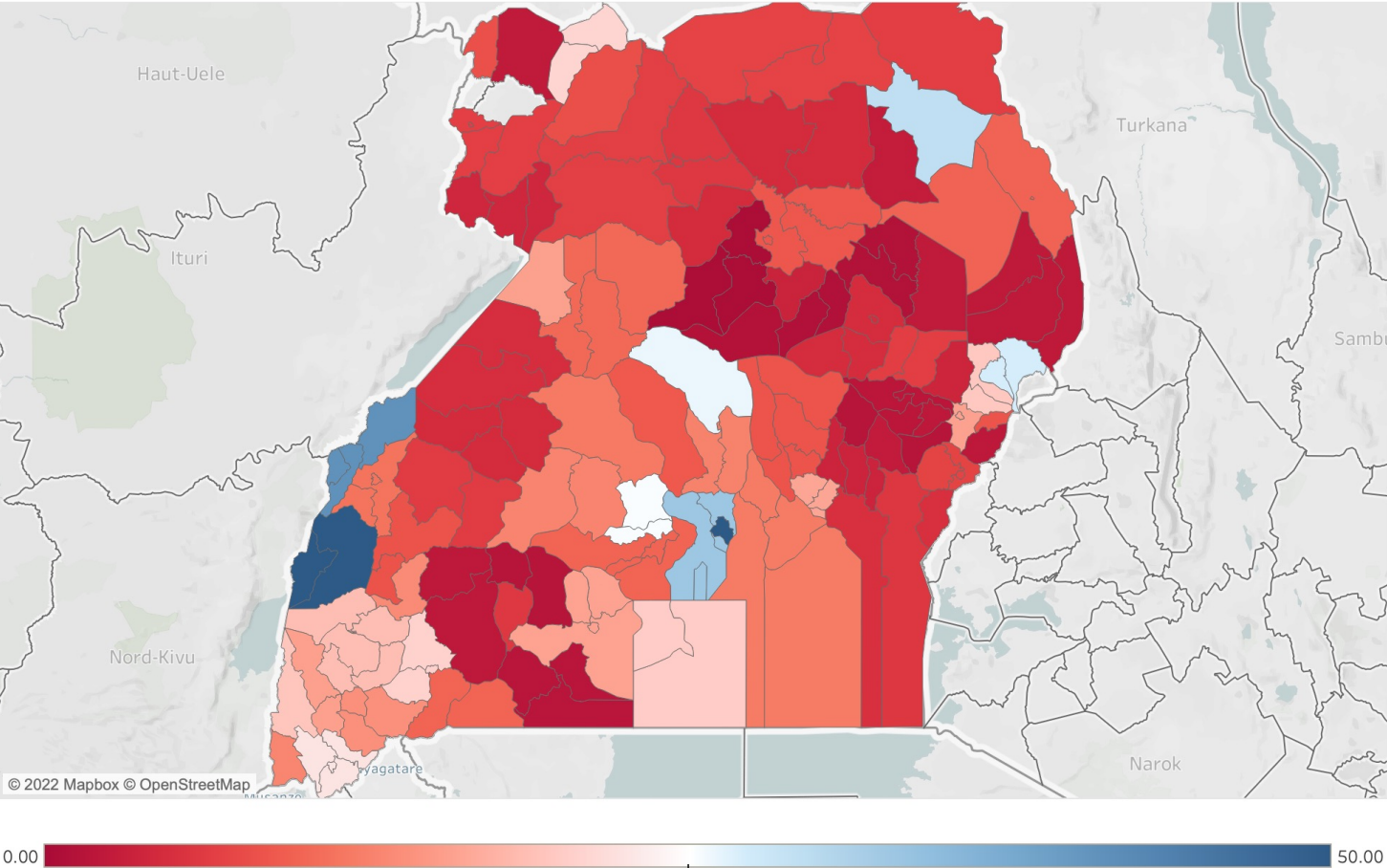
Data Science – Thomas Adler – August 2022

Conflict and violence has led to 31,000 deaths since 1997



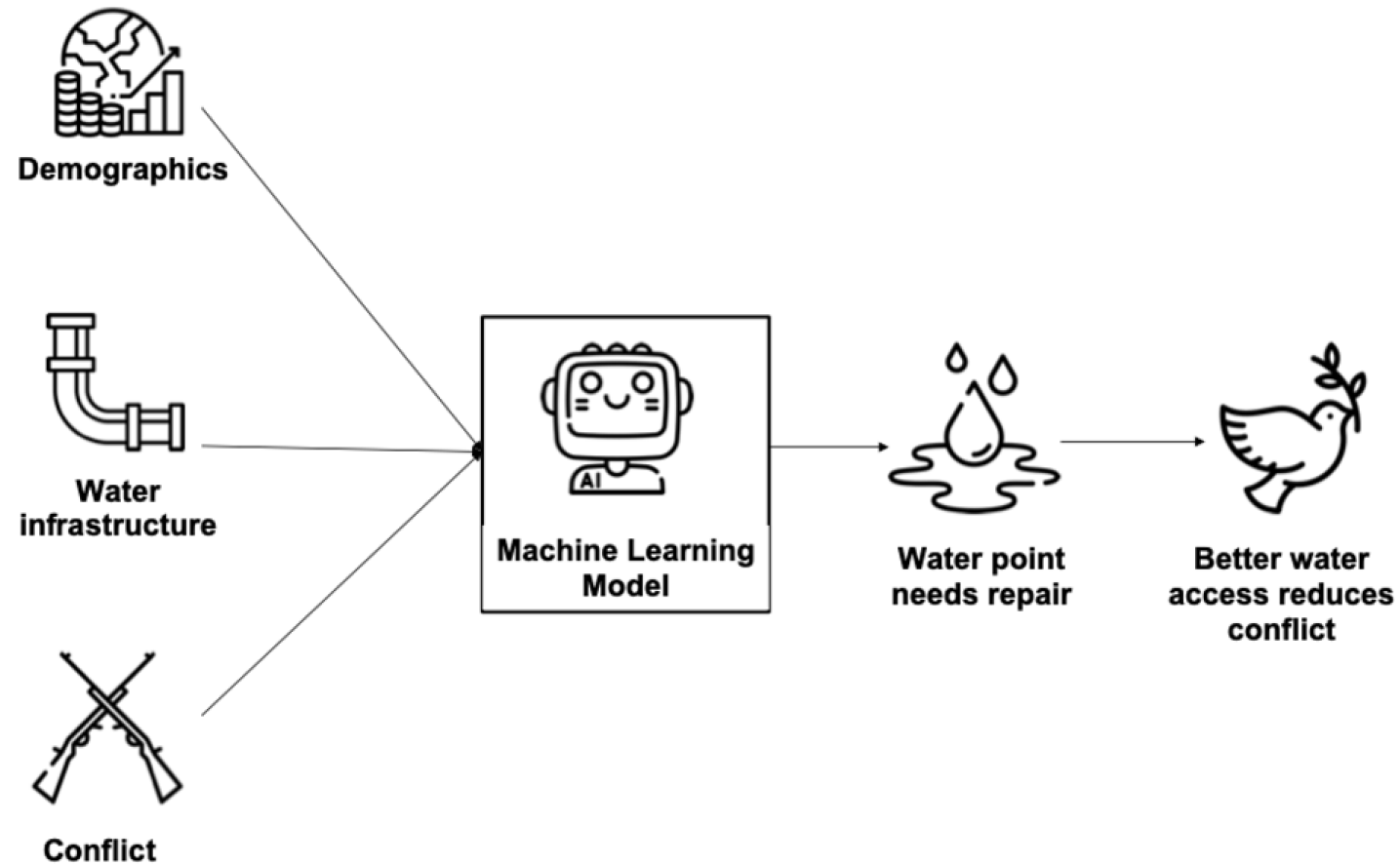
Poor water access contributes to this violence

3/4 of the population do not have access to a proper water source

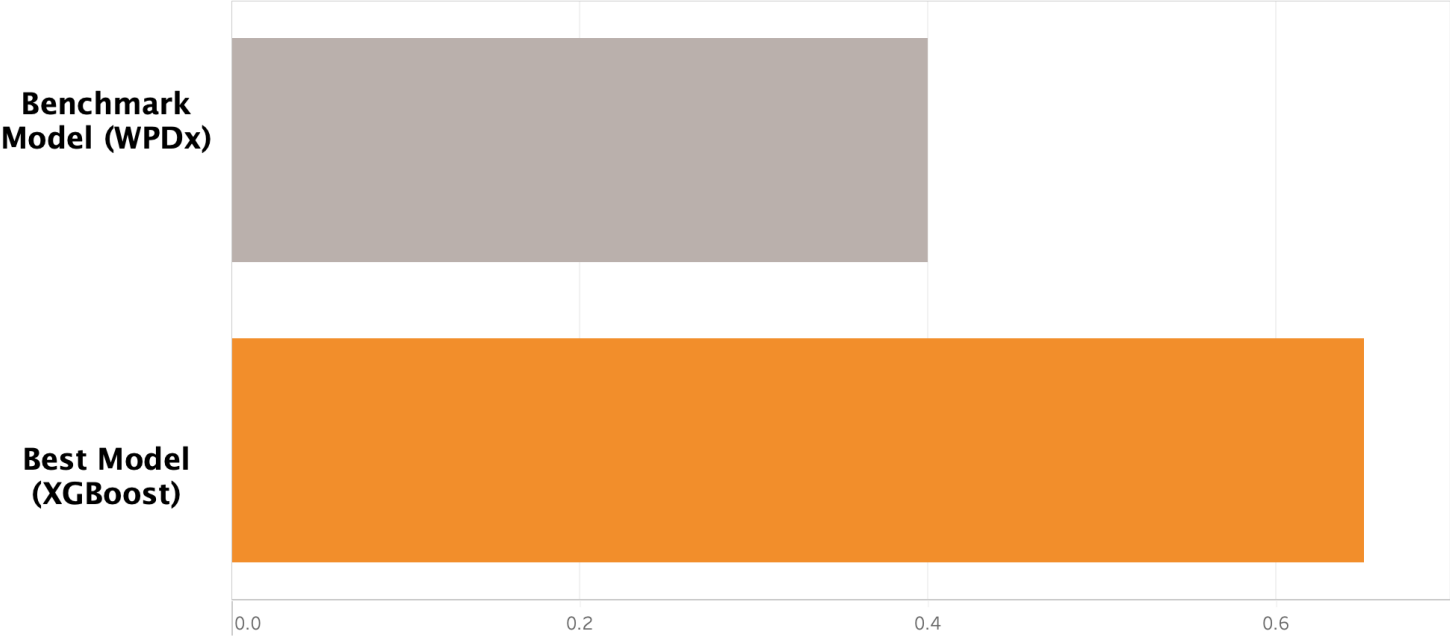


% households having access to piped water

How might we use Machine Learning to predict whether a water point has broken down to avoid future conflicts?



Our model identified 50% more non-functioning water points compared to the current benchmark



Water points are more likely to break down when they have...

1



**been installed
before 2006**

2



**experienced
heavy conflicts**

3



low technology

4



not publicly managed

5



**high importance
to local population**

Our improved model will help Ugandan citizens lead safer, healthier and more prosperous lives



Water contributes to development through health, education and political stability



\$USD 28M of economic benefits per year



13,000 prevented deaths

Get in touch!



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Thomas Adler

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