ALX Smart Drainage Solution



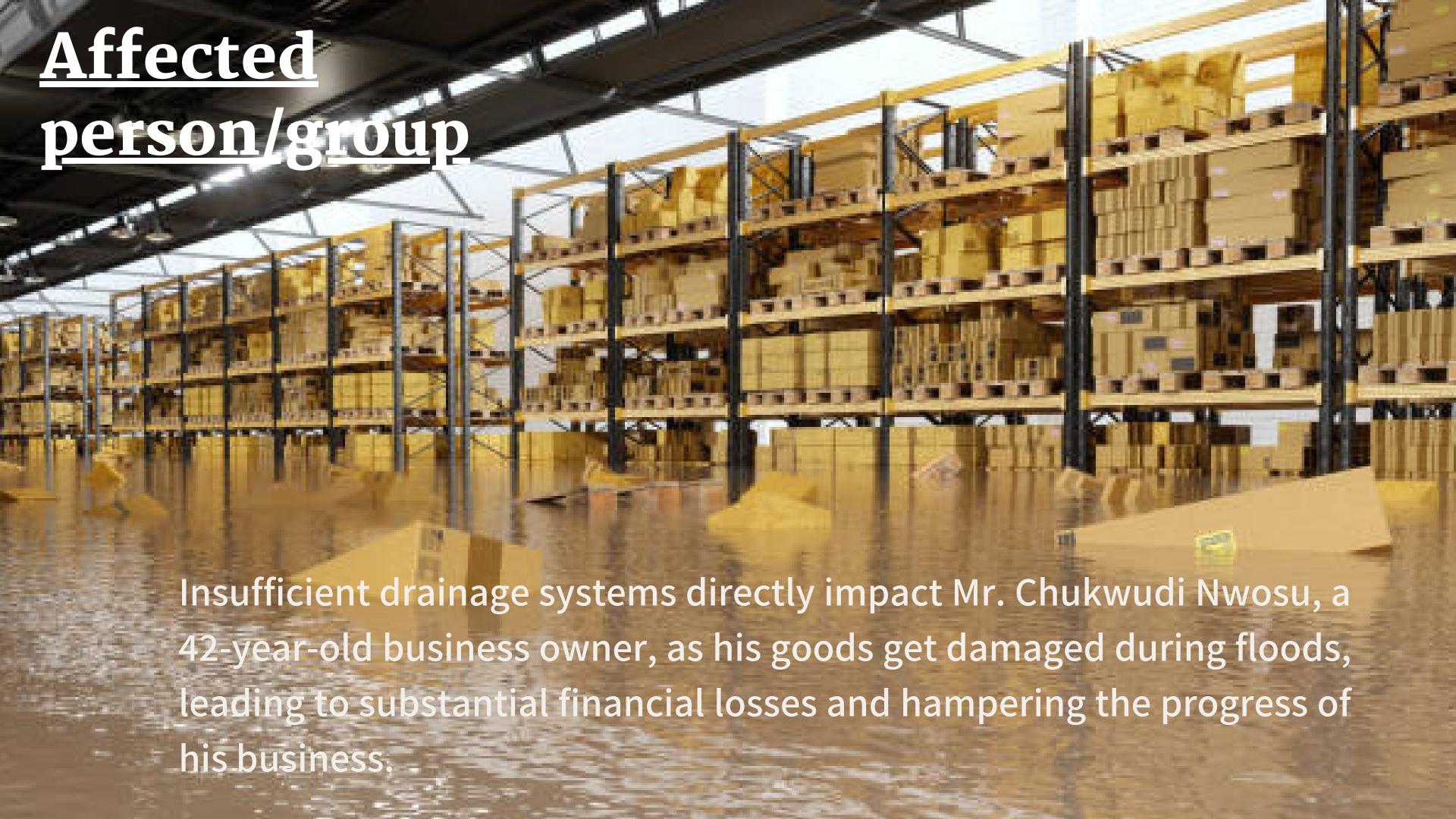


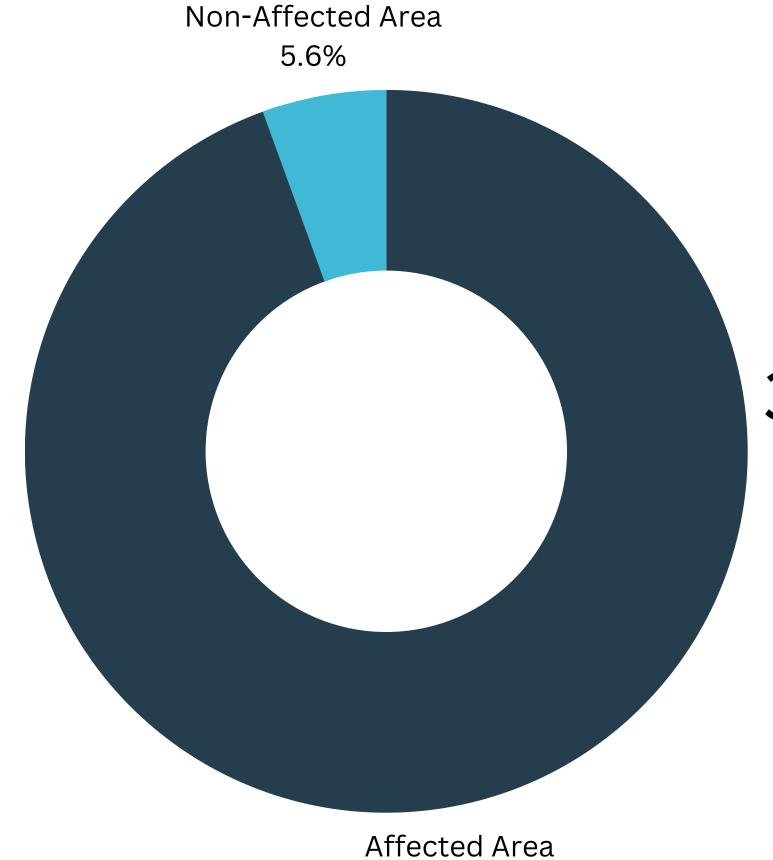
PROBLEM: Insufficient drainage systems result in severe flooding during heavy rainfall or storms, causing extensive damage to roads, buildings, and infrastructure.

GCGO: Infrastructure.

WHY

Insufficient drainage systems are significant because they result in substantial economic loss, damage to critical infrastructure and pose a risk to human lives.

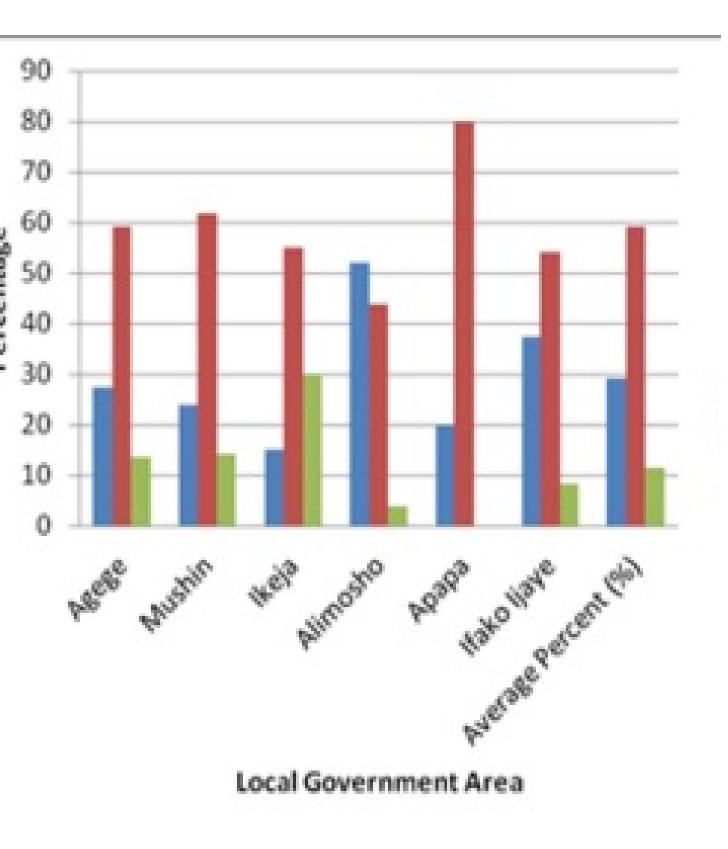




94.4%

34 out of 36 states in Nigeria experiences flooding

UNICEF



Poorly constructed Drainage Abuse of drainage systems

are the leading causes of flooding

International Journal of Emerging technology and Advanced engineering



1.4m displaced603 Deaths2,400 + injured



82,035 houses damaged, and 332,327 hectares of land affected

Solution

THE PROPOSED DRAINAGE SOLUTION UTILIZES AI, CLOUD COMPUTING, AND IOT TO PRIORITIZE AREAS FOR INFRASTRUCTURE INTERVENTION, MANAGE DRAINAGE SYSTEMS, ALLOCATE RESOURCES, AND OBTAIN REAL-TIME DATA THROUGH MAPPING TICKETS.

Reason for Choosing the Solution:

- ENGAGES END USERS,
- PROVIDE TIMELY DATA-DRIVEN INSIGHTS,
- FACILITATE PROACTIVE MAINTENANCE,
- MANAGE FINANCES AND ALLOCATION

& Likely Effectiveness of the Solution:

- Cost effective
- mid-level of tech know how
- ability to save lives and properties









SMART DRAINAGE SOLUTIONS

No. of Drainage issue Solved No.of Drainage issue working on No.of issues pending

CLICK HERE TO SEE ISSUE STATUS

ADMINISTRATIVE



CLICK HERE TO ACCESS ADMIN VIEW

REPORT FLOODING AND FAULTY DRAINAGE

CLICK HERE TO SUBMIT A REPORT

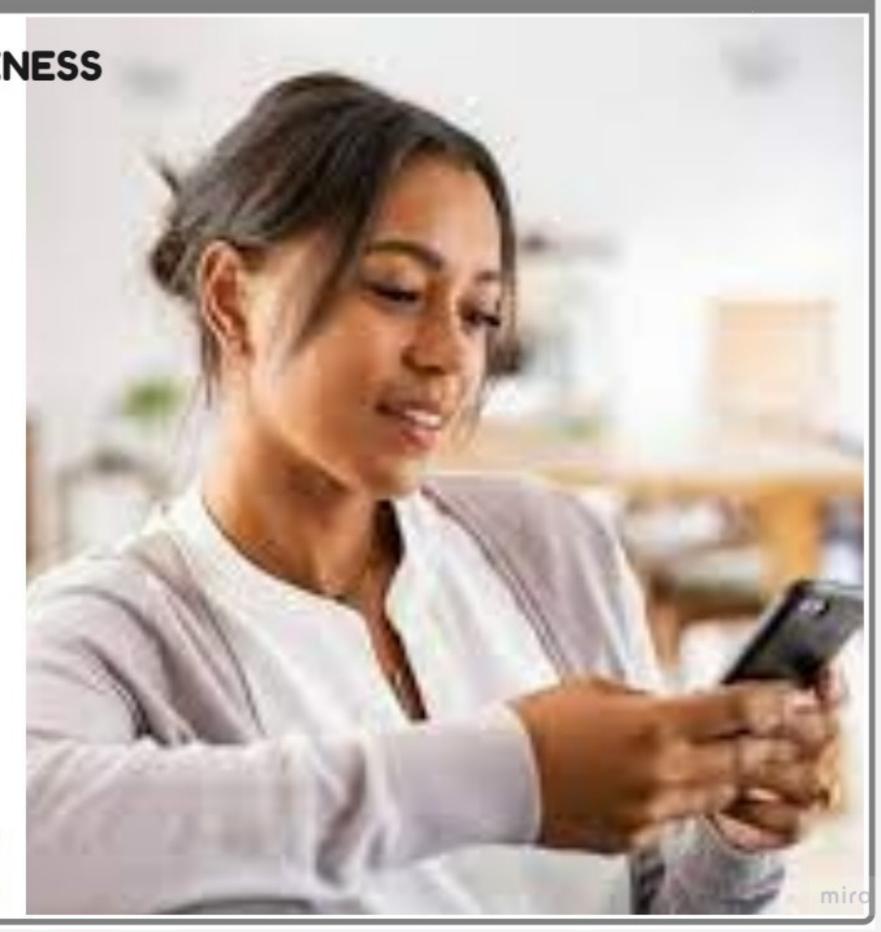








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SIGN IN TO ACCESS ADMIN VIEW

ADMIN LOGIN

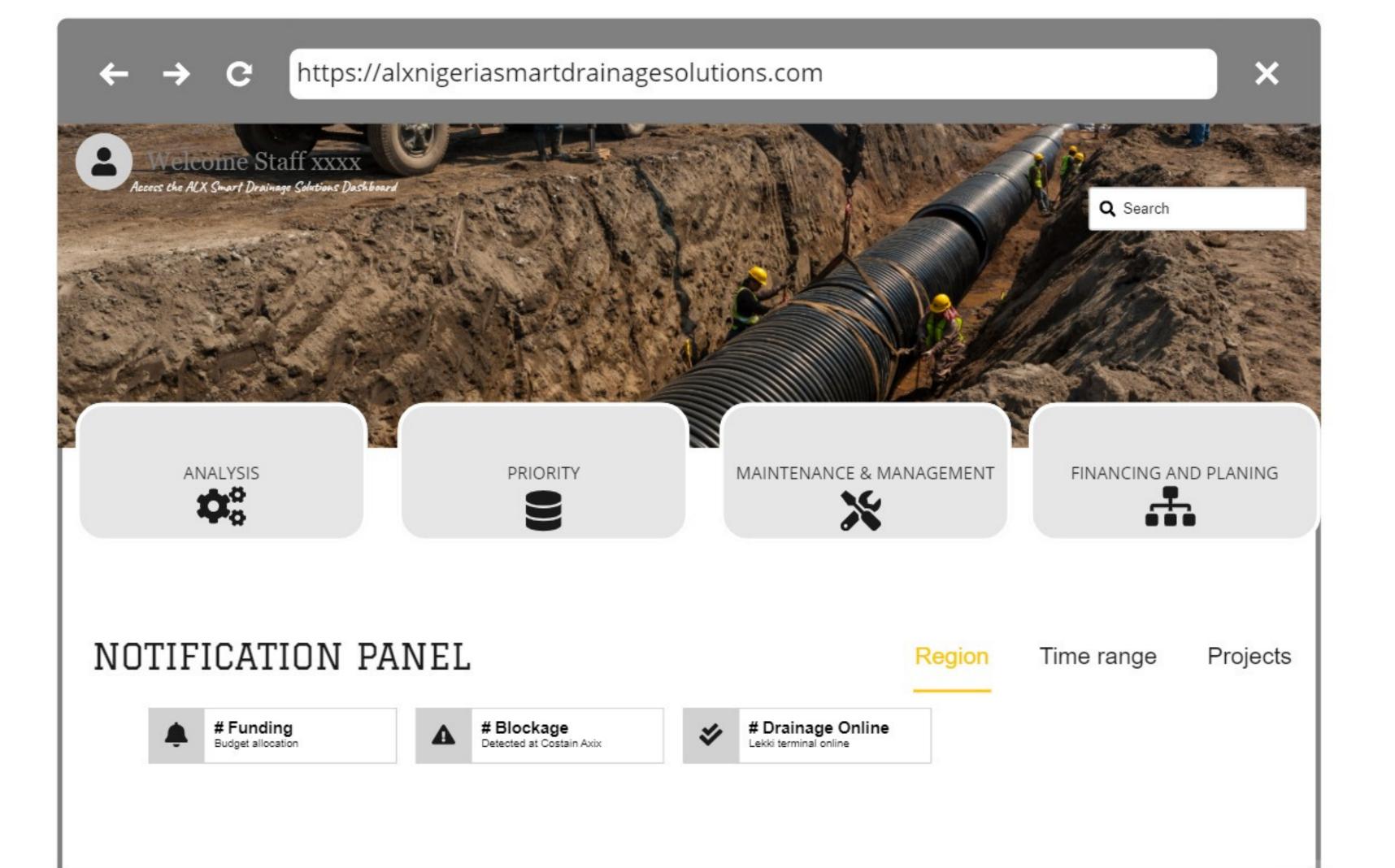
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SIGN IN











predict, compute and react using AI. Compute and Cloud computing



Al analysis Secondary text



Historical data Secondary text



Real-time data Secondary text



Climate change and se... Secondary text



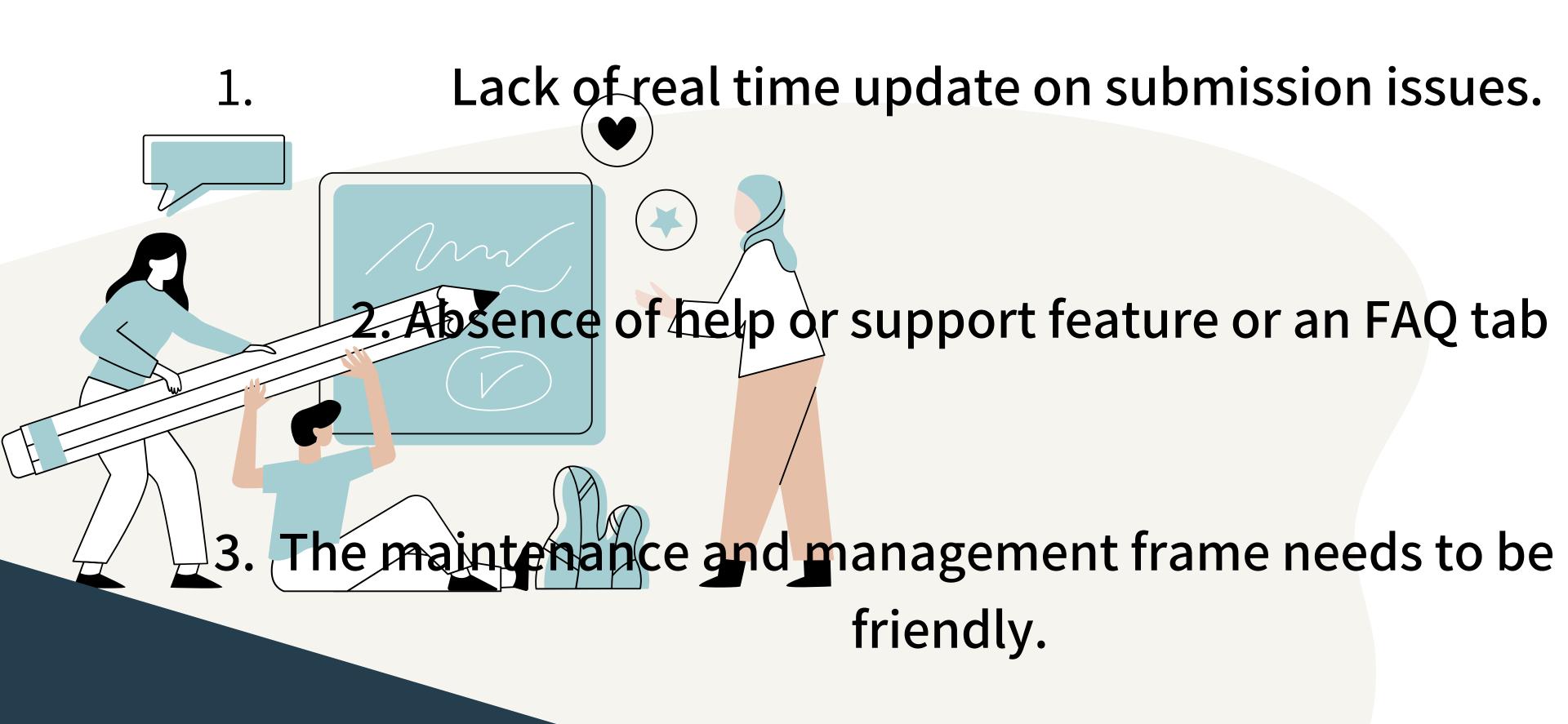
Floodplain mapping an... Secondary text

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Intellectual
property of
Drainage guys
2023. All rights

USERS NEEDS & PAINPOINTS



RECOMMENDATIONS

We plan to take action and implement a status update via email or SMS notification

we plan to take action and create such a provision of a chatbot or customer support

we plan to add more details on the maintenance and management tab.

FUNDING



- train our AI model accurately,
- conduct research and create databases where non-existent.
- Train staff on the use of the product and embark on campaigns to familiarise the public with the reporting feature of the app

RESTATING THE "WHY"

Insufficient drainage systems are significant because they result in substantial economic loss, damage to critical infrastructure and pose a risk to human lives.

Our Solution uses existing technologies, manages and allocates scarce resources, engages end users, analyses and prioritizes infrastructural creation in areas of need thus curbing the destruction of properties, loss of lives and resulting economic loss