AQ MOBI

A fully mobile disease screening solution made to fit the needs of developing economies.

What is AQ MOBI?

AQ Mobi is **a mobile platform** for screening and disease management that consist of
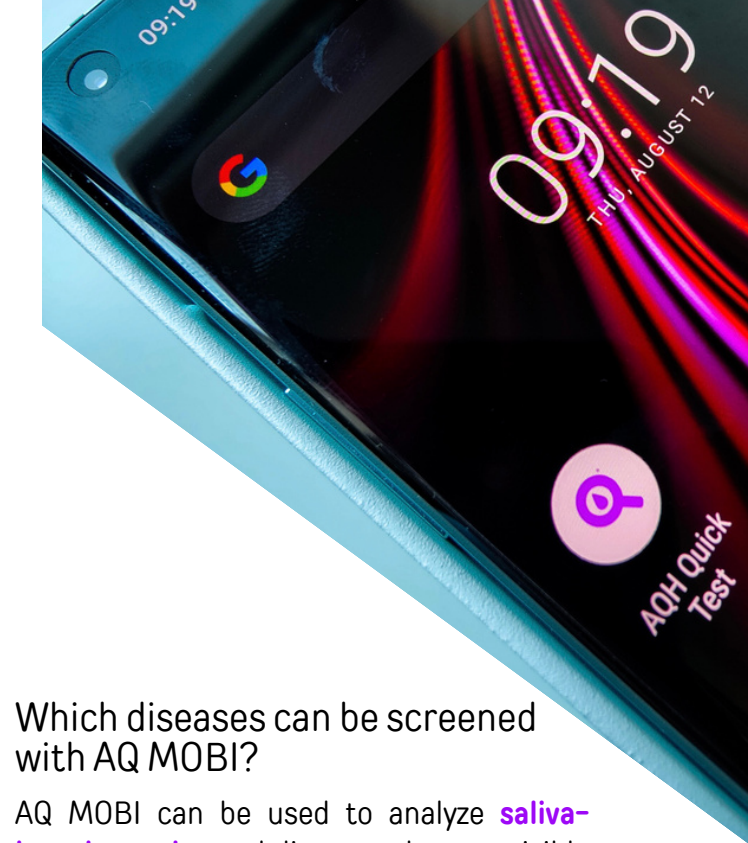
- **smartphone**
- **a mobile stand**
- **smartphone application**
- **disease-spesific test kit.**

How does it work?

The screening ability of the platform is based on

- Aqsens Health's biosensor's ability to recognize disease biomarkers in the saliva sample, and
- the app's ability to measure color intensity in the samples and classify them according to their color.
- Smartphone's capability to embed contextuality (time and place)

Aqsens Health's phage-based **biosensors** are disease specifically trained to recognize disease biomarkers and a color dye. The interactions between these three components change the color intensity and hue of the sample liquid.

Which diseases can be screened with AQ MOBI?

AQ MOBI can be used to analyze **saliva-based samples** and diseases that are visible in saliva. These diseases include for example **malaria** and **oral cancer, test for which are currently under clinical validation.**

Currently, Aqsens Health is developing a low cost consumable test kit and backend software for the screening and management of malaria. In the future the platform can be used to screen for oral cancer, tuberculosis, cholera and possibly other severe diseases.

How can AQ MOBI help in disease management?

When the platform is used to screen for diseases, the data is sent to a cloud-based storage and back-end analysis and management software (AQ EPIC).

The analysis of the screening data enables:

- measuring disease prevalence and incidence in map based geographic interface
- allocating resources according to disease incidence
- predicting future disease trends

N.B. The AQ MOBI platform is still in development, and the product introduced in this document is a prototype.