



CASE STUDY: KENYATTA NATIONAL HOSPITAL PILOT

Client

Kenyatta National Hospital (KNH) is the largest referral, teaching and research hospital in Kenya with a bed capacity of over 2,000 beds. It caters for 80,000 inpatients and 500,000 outpatients annually. It not only serves the four counties in and around Nairobi as a primary hospital, but also acts as a referral for the regional hospitals in Kenya. It also offers healthcare services to patients from the Great lakes region, Southern and Central Africa.

Challenge

The Covid19 pandemic has been one of the greatest healthcare problems of the 21st century that has brought carnage to global economic and social stability. Frontline workers such as healthcare workers have been risking their lives to respond and contain the virus at healthcare facilities.





Africa was already facing significant challenges with the healthcare system and its skills shortage. It has become more important for Africa than any other global region to protect its frontline workers and civilians. We have seen cases in South Africa, where frontline healthcare workers are being infected and worse, losing their lives fighting the pandemic.

Kenyatta National Hospital that was declared as one of the national healthcare facilities in Kenya for Covid19 with 20 Covid19 patients faces the same potential risk as their counterparts in South Africa.

Solution

Liquid Telecom, in collaboration with Raphta, is deploying the Shuri 19 AI solution - a full turnkey software and hardware solution for contactless biometrics, Covid19 screening, and public health and safety protocol monitoring. The solution is for healthcare, educational and company facilities. Kenyatta National Hospital has decided to be innovative and proactive by partnering with Liquid Telecom during these times to pilot the solution and ensure that its workers and patients are safe.

The Shuri 19, built on Raphta's proprietary low cost and low latency facial recognition and computer vision platform, is the industry first solution that introduces **AI enabled automatic Covid19 compliance and risk scoring** - using its advanced computer vision and analytics technology.

These are some of the core problems currently faced:

- ⚙ Employees and contractors in the frontline in high risk of infection
- ⚙ Keeping healthcare facilities safe and secure for workers and patients that don't have adequate contactless access control
- ⚙ Increasing cases of workers getting infected in facilities
- ⚙ Asymptomatic individuals not being detected by thermal reading/screening only systems
- ⚙ Manually monitoring and enforcing adherence of public health and safety protocols for Covid19 by facilities

Key Benefits of Shuri 19 solution:

- ✔ Automated monitoring and reporting of all Covid19 health public health and safety protocols - mask detection, social distancing, crowd gathering and tracking
- ✔ Group continuous screening with wearable IoT sensor
- ✔ Effective containment of infected workers especially missed by standard thermal screening during incubation period
- ✔ Contactless facial biometrics for access control and tracing
- ✔ Extremely low sensitive for real-time analytics and reduced required bandwidth
- ✔ Highly Compliant with POPI and GDPR - Data never leaves the edge and on-device training
- ✔ Leverages already existing infrastructure be it technology architecture or CCTV hardware network
- ✔ Automated proprietary Covid19 compliance and risk scorecard for compliance officers

Raphta leverages Shuri wearable IoT Sensor for continuous screening



About Liquid Telecom

Liquid Telecom is a leading communications solutions provider across 13 countries primarily in Eastern, Central and Southern Africa that serves mobile operators, carriers, enterprises, media and content companies and retail customers with high speed, reliable connectivity, hosting and co-location and digital services.

It has built Africa's largest independent fibre network, approaching 70,000km, and operates state of the art data centres in Johannesburg, Cape Town and Nairobi, with a combined potential 19,000 square meters of rack space and 80 MW of power.

This is in addition to offering leading cloud-based services, such as Microsoft Office365, Microsoft Azure and innovative digital content provision across our fibre footprint. Through this combined offering Liquid Telecom is enhancing customers experience on their digital journey.

About Raphta

Raphta provides developers a low cost and low latency AI facial recognition and computer vision platform that removes AI bias and data privacy concerns, and overcomes infrastructure constraints. The Shuri developer platform is offered as cloud APIs and edge intelligence platform with its own proprietary AI edge processing device, Shuri Connect. Developers and technology companies can build unique and AI enabled mobile applications, SaaS and enterprise software using the Shuri platform. Raphta has evolved and become a leading pan-African AI company in South Africa, Kenya and Zimbabwe. The company was selected as The Top 10 Most Disruptive Face and Image Recognition Solutions Provider for 2020 internationally by Analytics Insight.

Visit www.raphta.co.za for more information.



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