Connected refugees: Opportunities and barriers for refugees using mobile devices and the internet in East Africa





KAKUMA REFUGEE CAMP

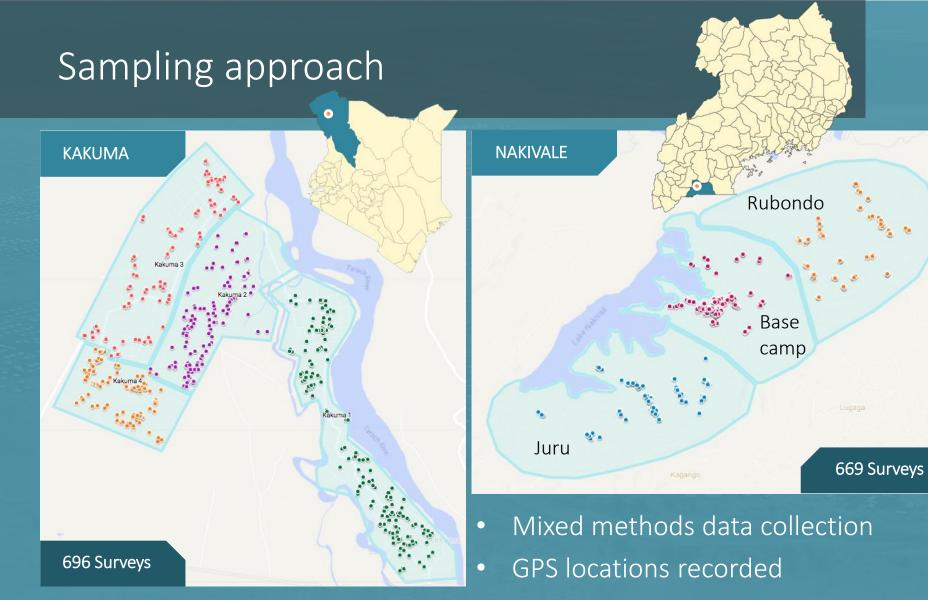
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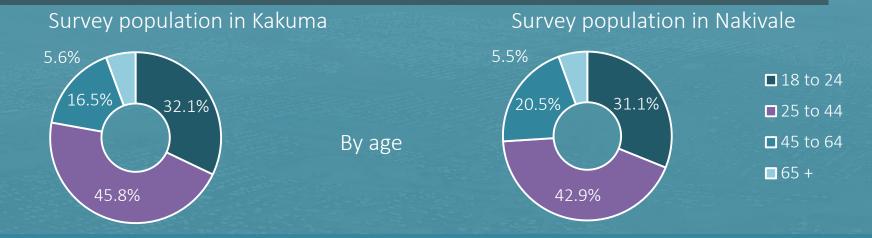
NAKIVALE REFUGEE SETTLEMENT

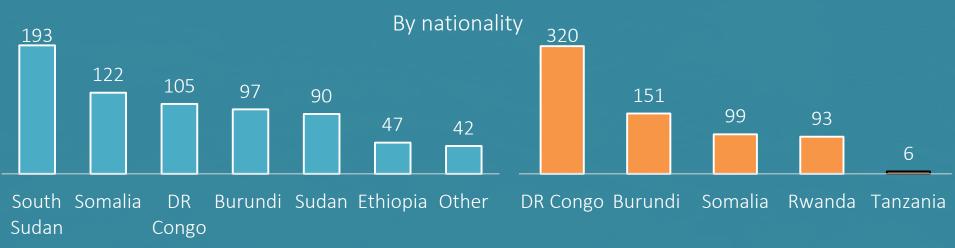
Key questions

- What are the mobile phone penetration rates in Kakuma and Nakivale?
- What are the main barriers to using mobile technology for refugees in transit and those that are settled?
- What are some of the solutions used by refugees to overcome these barriers?

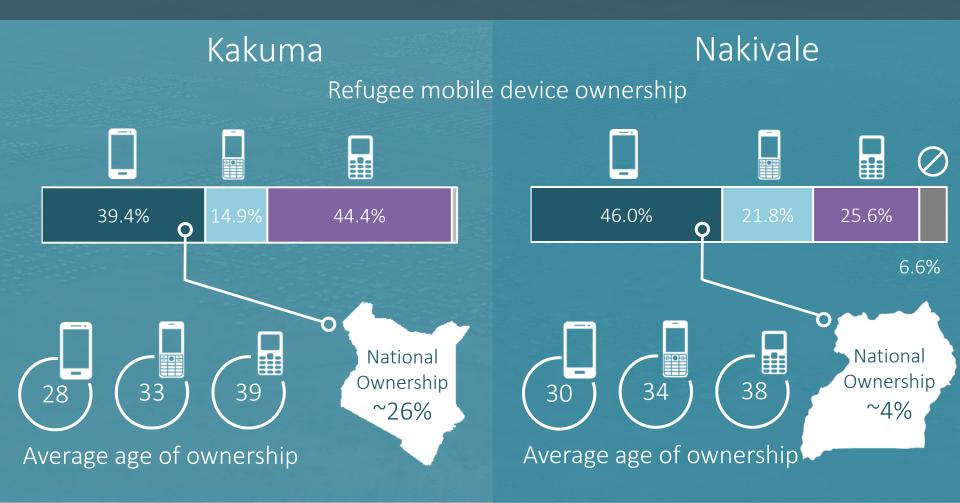


Survey sample



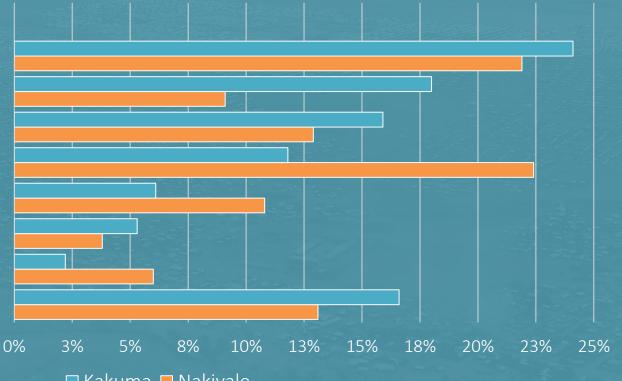


Refugee access to mobile technology



Barriers to using mobile technology

Credit (Data) cost Network Signal Strength Difficulty charging mobile phones Device Affordability Poor literacy No content in local language SIM cost Other

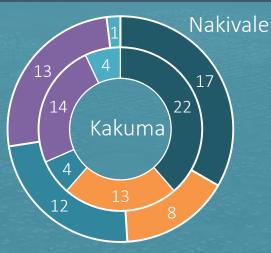


🗆 Kakuma 🔳 Nakivale

Poor network signal strength is a significant factor

Mobile phone connectivity and use in transit

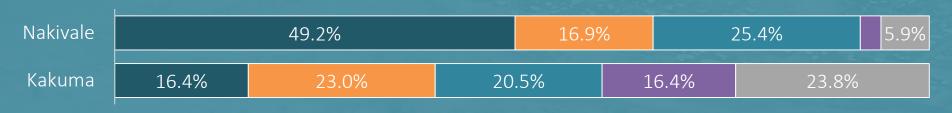
Decisions made by refugees during transit based on information obtained through mobile



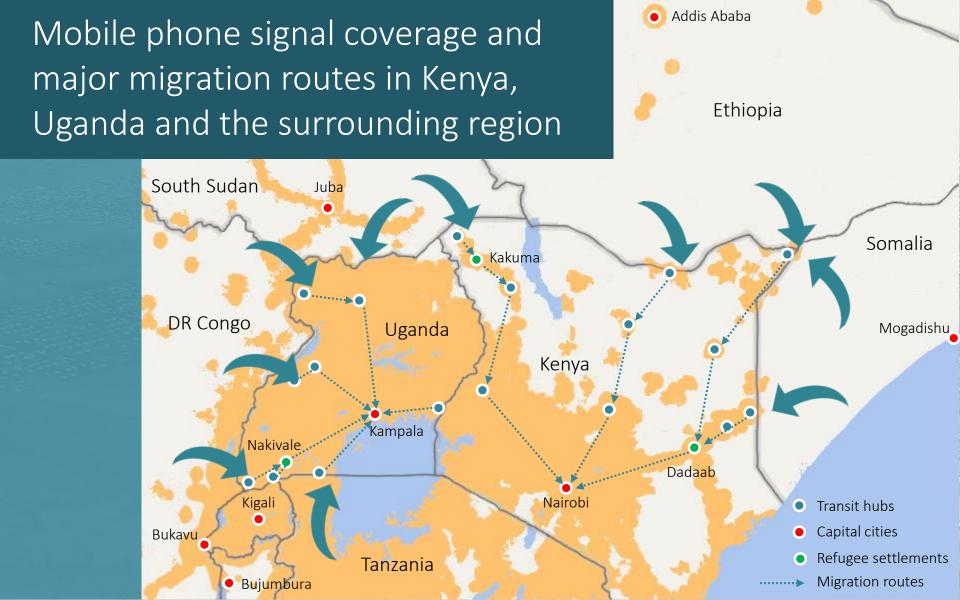
Safety information
Cell phone connectivity
Weather information
Border control/policing information
Other

2.5%

Level of mobile phone connectivity experienced by refugees in transit



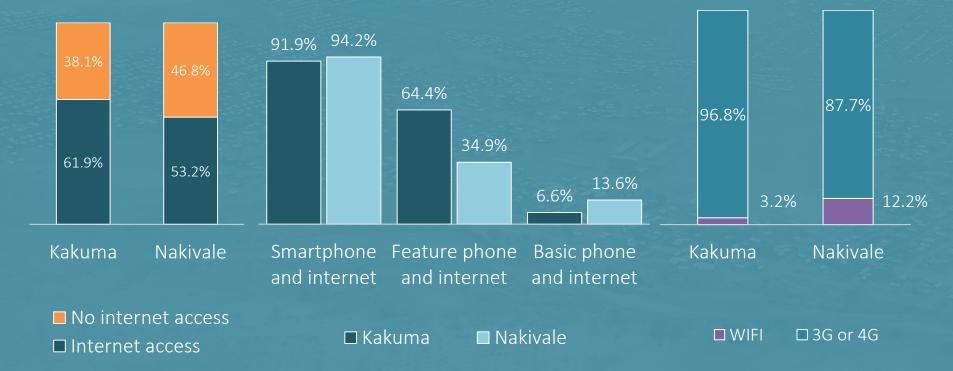
🗖 All 🗧 More than half 🗖 Less than half 🔳 None 🔲 Don't know



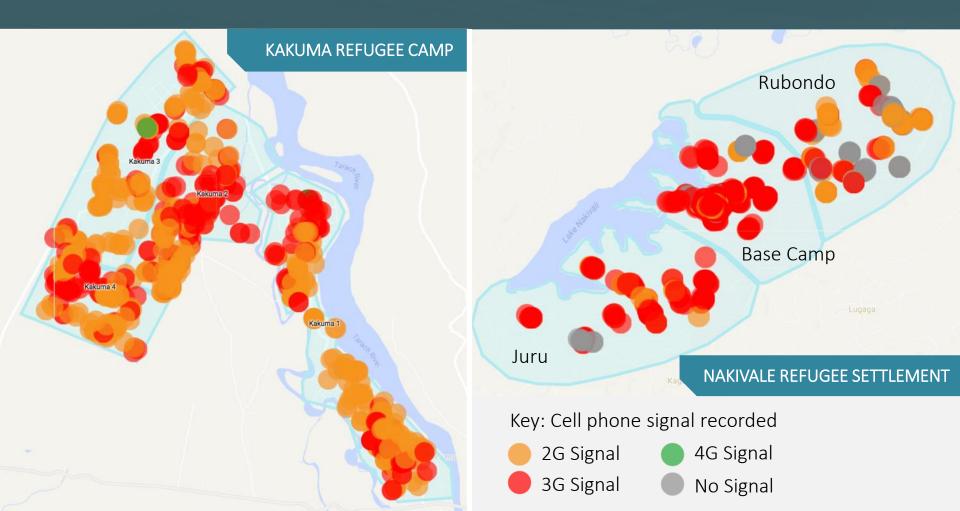
Characteristics of mobile data access in settlements

Refugee access to the internet

Internet access amongst mobile device owners surveyed Method of accessing the internet



Connectivity barriers in refugee settlements



Overcoming barriers to accessing mobile data

Email address ownershipNakivale22.6%77.4%Kakuma29.0%71.0%

■ Has an email address ■ No email address

- Users without email can download apps without accessing app stores
- Airtime costs are zero as Bluetooth does not use 3G/4G.
- Apps, photos and other files can be shared even in areas with poor mobile connectivity, or no 3G access

FILE SHARE APP

Transfer APP & GAME without any downloads



Conclusion

- Internet access for most refugees in Kakuma, Nakivale and across the region means using a smartphone
- However, smartphone ownership is notably above national averages
- Mobile connectivity influences how many refugees migrate in the region:
 - Often to get information about the route ahead
 - 'Islands of connectivity' follow major migration routes
- Once settled, there are many similarities in the barriers faced by refugees in Kakuma and Nakivale to access mobile services
 - Poor, or intermittent connectivity including unreliable 3G access
 - Innovative solutions, such as peer-to-peer file sharing, overcome issues in accessing apps and sharing data