Operation Come-to-School, Kenya: Digital Attendance

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Project overview and context

• **Title:** Operation Come-to-School Kenya
• **Target:** Bringing 300,000 out-of-school children to school
• **Period:** July 2015 – December 2018
• **Result:** 233,627 children enrolled till date (111,241 girls and 122,386 boys)
7- Strategies

Strategies to bring 300,000 OOSC in school by 2018

1. Demand: Scale Enrollment and Attendance Drives
2. Supply: Improve school infrastructure
3. Quality: Strengthen in-school teaching and learning processes through CFS
4. Access: Provide mobile schools and ABE for pastoralist and nomadic communities
5. Gender: Support Girls' education
6. Modeling: County education system building for replication and scaling nationwide.
7. Monitoring: SMS/Web-Based Real-Time Monitoring EMISLight System
Strategy 7: Monitoring

Flow of data and information collected
Previously data collected using paper based tool

At School level - Daily - Head teacher

At School level - Monthly - M&E officer
IP - entry in excel sheet

At County level - Quarterly - M&E Officer
IP compiles and shares with UNICEF the data

At National Level - Semi-annually - Project Officer UNICEF compiles and shares with EAC

At National level - Annually - Chief of Education, UNICEF shares in Country Annual Report and with MoE
Now data collected with Digital Attendance App

At School level - Daily - Head teacher through Digital Attendance Application (DAA)

At School level - Monthly - M&E officer verifies a sample of data available in the DAA

At County level - Quarterly - M&E Officer IP compiles and shares with UNICEF the data from DAA

At National Level - Semi-annually - Project Officer UNICEF compiles and crosscheck the data available in DAA and shares with EAC

At National level - Annually - Chief of Education, UNICEF shares in Country Annual Report and with MoE
Digital Attendance: Application

Teacher using online application at Wiyoni Primary School, Lamu Island
Digital Attendance: School level

Mark Attendance (STD 3)

Student Details

- **AUG 29, 2017**
  - 1. **BILOW ALI**
  - 2. **DAHIR ABDI**
  - 3. **ABSHIR RROBLE**
  - 4. **ABDI OMAR**
  - 5. **SIYAT MOHAMED**

Attendance Report (All Classes)

- All Classes: Aug 25, 2017

- **Students Present**: 21
- **Males Present**: 19
- **Females Present**: 2
- **Students Absent**: 60
- **Males Absent**: 42

Immediate Report generated

- **Sync attendance data to Database**
- Internet Status: **Connected**
- Last Sync On: Thu, 24 August 2017, 3:21 PM
- Items To Sync: 0
- Items Failed To Sync: 0

Update Attendance

Off and Online Syncing
Digital Attendance: Features

• Application running on Android (+80% coverage in Kenya, small size app – less than 2 MB)

• Dashboard accessible for UNICEF, Implementing Partners, MoE and head teachers

• Overview of total enrolment
  – Disaggregated by gender, IP, schools & grades

• Trends of Attendance
  – Aggregated by OOSC and regular students
  – Data available on daily, monthly and annual basis

• Developed in partnership with the Computing for Development (C4D) Lab at University of Nairobi
Data Verification

Joint monitoring visits to project counties and target schools

UNICEF Kenya

Partner

School

MoE

EAC

UNICEF HQ

Verification and sample check of school data

Partner verifies school level data

Reports monthly to partner.

UNICEF verifies partner data

Reports quarterly to UNICEF KCO

Verification and spot checks of school data

Joint monitoring visits to project counties and target schools

Reports semi-annually to EAC
Challenges

• Electricity and Internet connectivity in remote areas (Offline version available)
• Limited digital literacy of teachers
• Limited number of (Android) phones available in school
• Unique Identifier numbers of children missing (Government working on it)
• Daily use of DAA by teachers without incentives (success when tied to cash transfer)
• Timely provision of student data by implementing partners
Way Forward

- Advocate for inclusion of the Digital Attendance Application (DAA) to be part of the Ministry of Education digital Nation EMIS for real-time provision of individual children attendance
- Working towards provision of connectivity with the government and private partners to remote schools to increase digital literacy
- Continue technical support for DAA and potentially expand the app to monitor teacher attendance and provide linkage to learning outcomes
DAA: Test Log-in

**Step 1:** Download the application from Google Play Store (Android only), search: Digital Attendance, C4DLab

**Step 2:** Login to the app using dummy user account
  - username – XXXX
  - passcode – admin

**Step 3:** Navigate the application, mark the dummy attendance register and submit to check the statistics.

  [attendance.co.ke/manual.pdf](http://attendance.co.ke/manual.pdf)
- Access to the Dashboard via: attendance.co.ke