It’s time to revisit the function and purpose of refugee camps.
Refugee camps in Kenya and Uganda – and those like it in South Sudan, Jordan, and Bangladesh – could benefit from an integrated approach to camp management, service delivery, and host community engagement.
The Smart Communities Coalition (SCC) is a public-private effort seeking to transform the operating model in refugee camps and settlements.

Co-chaired by Mastercard and Power Africa, SCC will organize and mobilize stakeholders according to their core strengths to address three fundamental pillars: Connectivity, Digital Tools, Energy Access.
SMART COMMUNITIES COALITION

Foundation and progress

Objectives
• Increase efficiencies in camp management and service delivery
• Empower refugees to provide for themselves and their families
• Equitably address the needs of host community members in and around targeted settlements

Principles
• Employ an “ecosystem” approach to technology deployment
• Build public-private models
• Integrate existing efforts and refugee response frameworks

Milestones and timeline

- Conception and coalition building: July 2017
- Official launch: January 2018
- Design workshop and commencement of pilots: April 2018
- First pilots operational: January 2019
SMART COMMUNITIES COALITION

Members and Collaborators

<table>
<thead>
<tr>
<th>Members</th>
<th>Collaborators</th>
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<tbody>
<tr>
<td>• Accenture</td>
<td>• GSMA</td>
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<td>• Acumen</td>
<td>• Tent Partnership for Refugees</td>
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<td>• BioLite</td>
<td>• U.S. Department of State’s Bureau of Population, Refugees, and Migration</td>
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<td>• BRCK</td>
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<td>• Chatham House/ Moving Energy Initiative</td>
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<td>• Cisco</td>
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<td>• Danish Refugee Council</td>
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<td>• Lutheran World Federation</td>
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<td>• Mastercard (co-chair)</td>
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<td>• Mercy Corps</td>
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<td>• Microsoft</td>
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<td>• Moonshot Global</td>
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<td>• Total – Access to Energy</td>
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<td>• The Innovation Village</td>
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<td>• USAID Global Development Lab</td>
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<td>• World Vision International</td>
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Targeted settlements and communities

**Uganda:** Bidi Bidi, Kiryandongo, Rwamwanja

- 1.25 million refugees, up 68% from previous year
- Bidi Bidi is the largest refugee camp in the world (285,000+)
- Government maintains an open-door policy that allows: right to work; ownership of business and property; access to health and education

**Kenya:** Kakuma, Kalobeyei

- 514,000 refugees, down 16% from previous year
- Government of Kenya implementing measures, some controversial, aimed at addressing refugee & host community affairs
- Kalobeyei integrated settlement as critical for perceived success
- Kakuma camp facing severe budget cuts
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Three core technology pillars

**Connectivity**
A recent study found that mobile phone and internet access is as critical to refugees’ safety and security as food, shelter and water.

**Digital tools**
Implementing agencies increasingly rely upon digital technology to reach refugees and locals. Digital tools open up new education, training, livelihood and information opportunities.

**Energy access**
Power is not provided in settlements as a service, so refugees rely upon poor quality, expensive diesel generators; solar home systems and micro-grids using pay-as-you-go (PAYG) offer opportunities to enable livelihoods.
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Ecosystem approach to eliminate silos

**Identify opportunities:** engage on-the ground stakeholders; perform needs assessments; incorporate ongoing programs

**Establish working groups:** cross-sectoral, cross-pillar teams focused on pilot projects and thematic issues

**Enable exchange of expertise and ideas across the working groups:** steering committee; collaboration tools; member enthusiasm

**Implement pilot projects:** working groups lead the development, funding and operation of pilots

**Monitoring, evaluation and learning:** track KPIs; document and share lessons learned; look to scale and replicate where appropriate
SMART COMMUNITIES COALITION

Outcomes should inform future interventions in the refugee context

- Identify solutions and document “playbooks” to enable replication and deployment at scale
- Assess the ability of resilient connectivity platforms to deliver vital information to refugees and host communities and enable efficient management of settlement operations
- Test digital tools across service delivery, such as: identity, digital vouchers, payment cards, mobile applications, and mobile wallets
- Pilot sustainable private sector solutions for providing energy access to refugees and host communities through off-grid energy services
SMART COMMUNITIES COALITION

Pilots and activities

<table>
<thead>
<tr>
<th>Pilot/Program</th>
<th>Description</th>
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<tr>
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<td>Ensuring better delivery of care</td>
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<td>Integrated energy access planning</td>
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<td>Improving production for smallholder farmers</td>
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<td>Replacing diesel for institutions and communities</td>
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<td>SCC for CE3</td>
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<td>✔️</td>
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<td>Financial Assistance to Refugees</td>
<td>Integrated financial inclusion</td>
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<td>Sustainable Energy for Institutions</td>
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<td>Sustainable Cooking Energy Provision</td>
<td>Biomass cooking solutions</td>
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<td>Improved Connectivity Access</td>
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Digital Health Ecosystem

**Problem**
- Current efforts to integrate technology in healthcare have been piecemeal, and, as such, have not unlocked all the benefits of digital health infrastructure.

**Solution**
- Roll out of electronic medical records system.
- Incorporate patient/beneficiary feedback tool to understand quality of care.
- Digitize prescriptions to allow for better pharmacy inventory management.

**Outcomes**
- More efficient medical record and inventory management systems.
- Improved quality of care.

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**Pillars**
- Connectivity
- Digital Tools

**Category 1**
- Active, resourced
- Implementation begins 2018

**Next Milestone**
- Draft budget and business case for migration to digital

**Working Group**
- Accenture
- American Refugee Committee
- Mastercard
- Vecna Cares Charitable Trust
SMART COMMUNITIES COALITION
MAKE Change for Refugees

Problem
• Risk for duplication, lack of learning, and a haphazard approaches due to multiple ongoing electrification initiatives in Turkana County.

Solution
• A comprehensive strategy for private sector involvement in electrifying the county & improving connectivity, including the refugee camp/settlement.

Outcomes
• Spur development of off-grid energy access solutions in settlements and surrounding communities.
• Ensure learnings from other pilots are documented and shared.
• Demonstrate opportunities to link energy access, connectivity, and digital tools.

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Pillar
• Energy Access
• Connectivity
• Digital Tools

Category 1
• Active, resourced
• Implementation begins 2018

Next Milestone
• Completion of energy study mapping exercise: July 2018

Working Group
• Engie – PowerCorner
• GIZ
• MEI
• Power Africa
• PowerGen
SMART COMMUNITIES COALITION

Subsistence to Market

Problem
• Environmental degradation arises from wood fuel and charcoal production.
• Mismanagement of natural resources causes tension between host and refugee communities.
• Women and girls are exposed to danger when gathering wood fuel.

Solution
• Build a market for sustainable cooking fuel from biomass produced by smallholder farmers in refugee and host communities in Bidi Bidi.

Outcomes
• Reduced deforestation.
• New income source for smallholder farmers and briquetting entrepreneurs.
• Benefits to safety and nutrition for women and girls.

Pillars
• Energy Access
• Digital Tools

Category 2
• Active
• Implementation begins 2018/early 2019

Next Milestone
• Agricultural market assessment: August 2018

Working Group
• ITC
• MEI
• Mercy Corps
• Power Africa
Diesel 4 Solar

Problem
• Lack of power infrastructure in settlements means that virtually all community institutions and households are unelectrified, while humanitarian aid agencies rely on costly diesel generation for power.

Solution
• Deploy an innovative, pay-as-you-go (“PAYG”) energy-as-a-service (“EAAS”) private sector-led model utilizing solar and solar-battery-diesel (“SBD”) hybrid systems.

Outcomes
• Demonstrates a model for commercially sustainable power provision in settlements and host communities.
• Reduces operating costs for humanitarian agencies.
• Benefits derived from access to energy.

Pillars
• Energy Access
• Digital Tools
• Connectivity

Category 2
• Active
• Implementation begins 2018/early 2019

Next Milestone
• Map key anchor load sites within settlements: July 2018

Working Group
• Energy Peace Partners
• Mercy Corps
• MEI
• Power Africa
SMART COMMUNITIES COALITION

EME4R

Problem
• Power is not provided in settlements as a service, so refugees often rely upon donated solar lanterns for basic light, and poor quality, expensive diesel generators for small businesses.

Solution
• A market-based approach building on the entrepreneurship ecosystem to develop local value/distribution chains and create conditions for successful energy entrepreneurship in Kakuma and Kalobeyei.

Outcomes
• Increase energy access to refugees and host communities in a more efficient and low-cost way.
• Creates income generating opportunities for entrepreneurs and local businesses.

Pillars
• Energy Access
• Digital Tools
• Connectivity

Category 2
• Active
• Implementation begins 2018/early 2019

Next Milestone
• Completion of rapid baseline assessment: August 2018

Working Group
• BioLite
• ITC
• NRC
• MasterCard
• MEI
• Total
SMART COMMUNITIES COALITION

SCC 4 CE3

Problem
• While entrepreneurship programs in Bidi Bidi have grown capacity for economic activity, poor access to energy and finance remain barriers to success.

Solution
• A 3-rings approach to provide refugees and host communities access to energy, connectivity, and digital tools.
  • ICT Hub /E-Hubb / technician solar shop
  • Mini-grid powering schools, clinics, businesses
  • Operations and management, products

Outcomes
• Improve energy access for productive use through greater access to finance and entrepreneurial skills.
• Improve financial access and building skills through digital tools and connectivity.

Pillars
• Energy Access
• Digital Tools
• Connectivity

Category 2
• Active
• Implementation begins 2018/early 2019

Next Milestone
• Market and site assessment: August 2018

Working Group
• Accenture
• Fenix
• Mercy Corps
• NetHope
• SolarKiosk
SMART COMMUNITIES COALITION

Category 3 Pilots

Financial Assistance to Refugees
• Loan solutions coupled with business acumen training for women and village savings groups.

Sustainable Energy Solutions for Organizations and Schools in Refugee Settings
• Private-sector green energy solutions for humanitarian agencies, schools, clinics, and reception centers in Uganda.

Sustainable Cooking Energy Provision in Refugee Settings
• Develop market and supply chain for sustainable cooking gas in Uganda.

Improved Connectivity Access
• Connectivity infrastructure for communities and NGOs; ICT skills training; and demand stimulation for internet services.

Pillars
• Energy Access
• Digital Tools
• Connectivity

Category 3
• Actively scoping
• Implementation begins 2019

Next Milestone
• Activate working groups

Working Group Leads
• NetHope
• World Vision
SMART COMMUNITIES COALITION

For more information:
www.tent.org/partners/smart-coalition

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