



UNHCR

United Nations High Commissioner for Refugees
Haut Commissariat des Nations Unies pour les réfugiés

i4SD

INFRASTRUCTURE FOR
SUSTAINABLE DEVELOPMENT

 SUSTAINABLE
DEVELOPMENT GOALS

Sustainable Energy, Education, and Connectivity for Nakivale Refugee Settlement



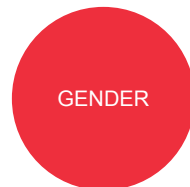
OUR PROPOSED SOLUTION

SCOPE OF THE GRANT

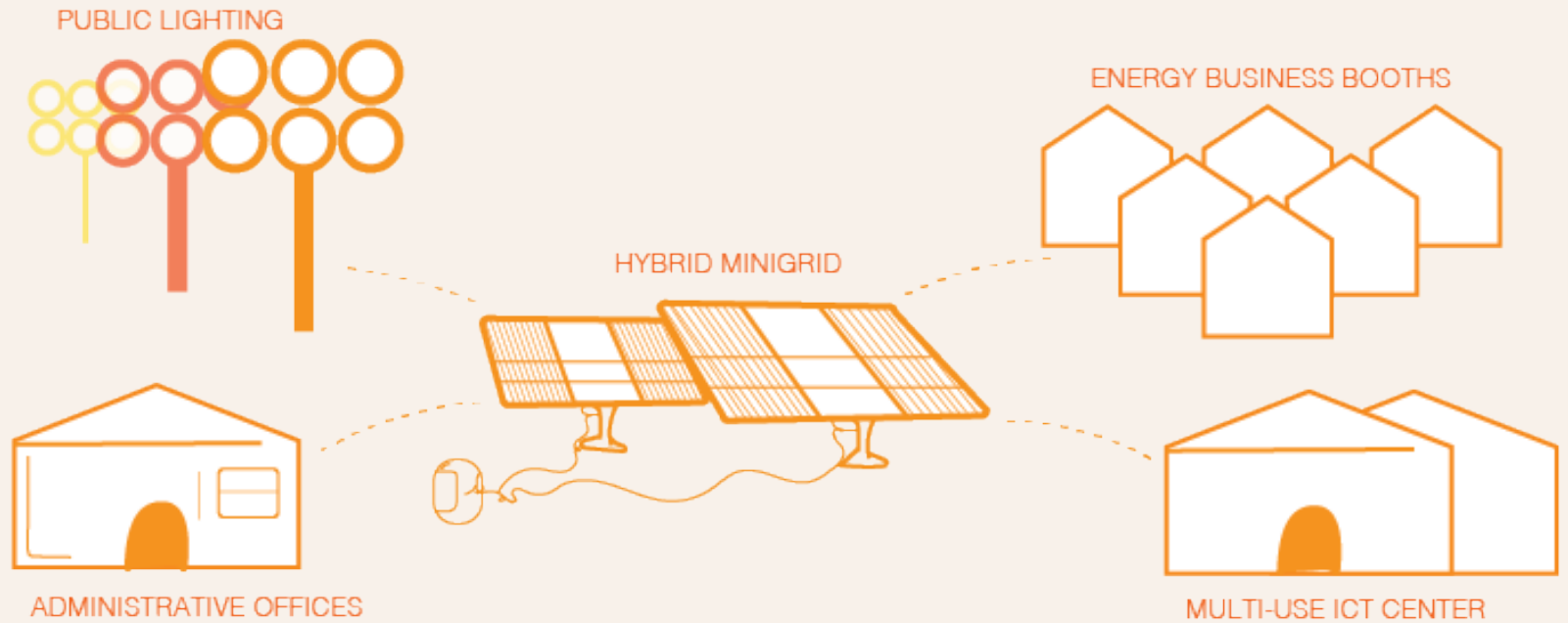
HYBRID MINI-GRID GENERATION (5-10 Kw SOLAR WITH STORAGE)
ENERGY FOR COMMUNITY NEEDS (ICT CENTER/CYBER CAFE/COMMUNITY CENTER)
ENERGY FOR HOUSEHOLD NEEDS (IMPROVED ENERGY SERVICES AND HH APPLIANCES THROUGH METERED CHARGING CENTERS)

PHASE II

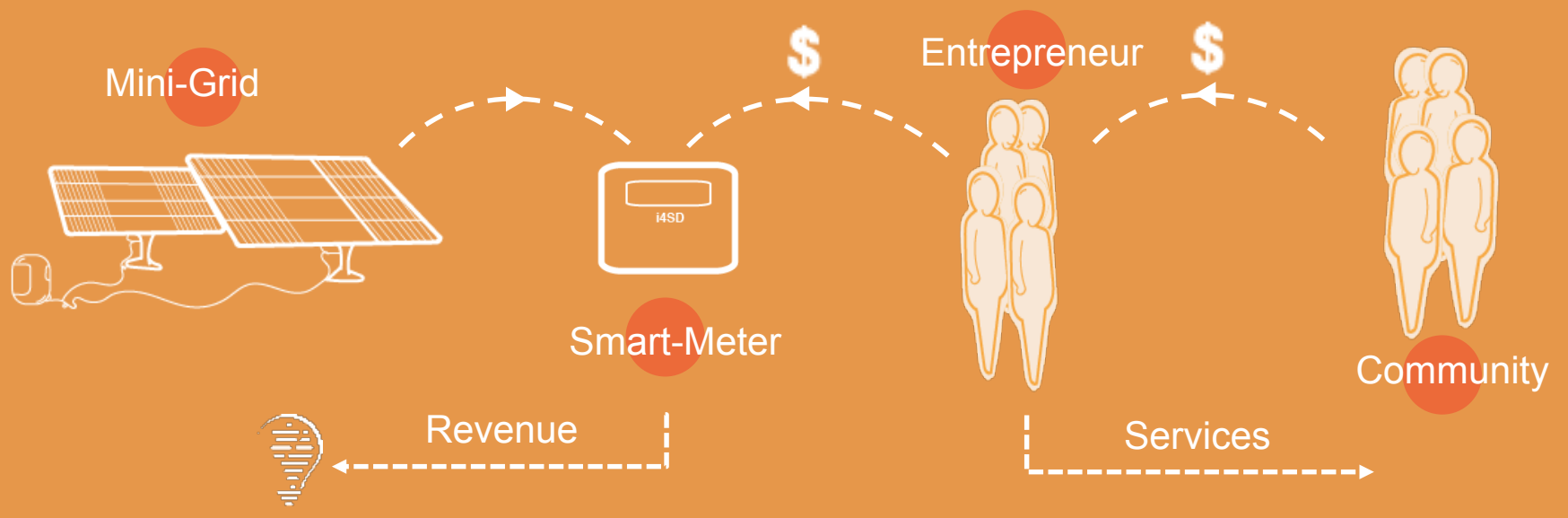
ENERGY FOR INSTITUTIONAL NEEDS (ELECTRICITY FOR OFFICES) IMPROVED
ENERGY FOR COMMUNITY NEEDS (PUBLIC LIGHTING, SPORTS FIELD)
HOUSEHOLD AND INSTITUTIONAL COOKING (LPG PAYG/IMPROVED COOKSTOVES)
REPLACEMENT OF DIESEL GENERATORS BY EXPANDED HIBRID MINI-GRID
EXPAND ENERGY SERVICES TO NEARBY COMMUNITIES



OVERVIEW OF PROJECT SCOPE



ENERGY BUSINESS BOOTH: MARKET MODEL





EDUCATION



EMPLOYMENT



GENDER



HEALTH



ENVIRONMENT



SUSTAINABLE DEVELOPMENT GOALS

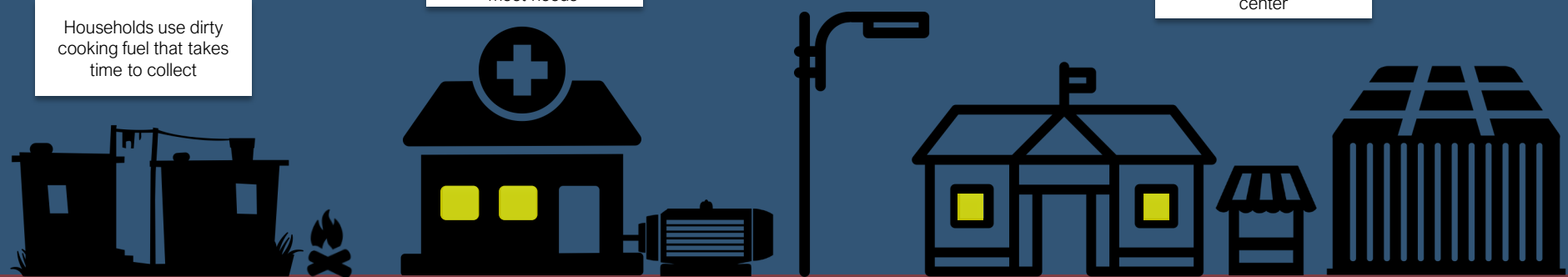
SITUATION

Households use dirty cooking fuel that takes time to collect

Institutions at settlements spend \$15k monthly on diesel to meet needs

30% of institutional streetlights remain without power

We will install 10kw minigrid, which will power ICT training center



GSMA AWARD

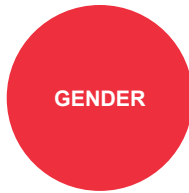
Jan 19"
Begin installation of **10kw minigrid** and start ICT training programs, drone mapping for energy & mobile connectivity

June 19"
Begin **expansion of capacity to 30kw**, launch Productive Use Entrepreneur training program

Dec 19"
Launch **Mobile Payments** integration enabling **PayGO** clean power for household, productive and institutional

June 20"
Blueprint model and scale to **other settlements**. **share learnings** to GSMA & UN network





GSMA GRANT IMPACT

Households apply for LPG service & pay with our mobile app

We expand institutional power with smart metered payments

We provide clean power for institutional streetlights

Productive Use Entrepreneur program launches, with Smart Meter Kiosks



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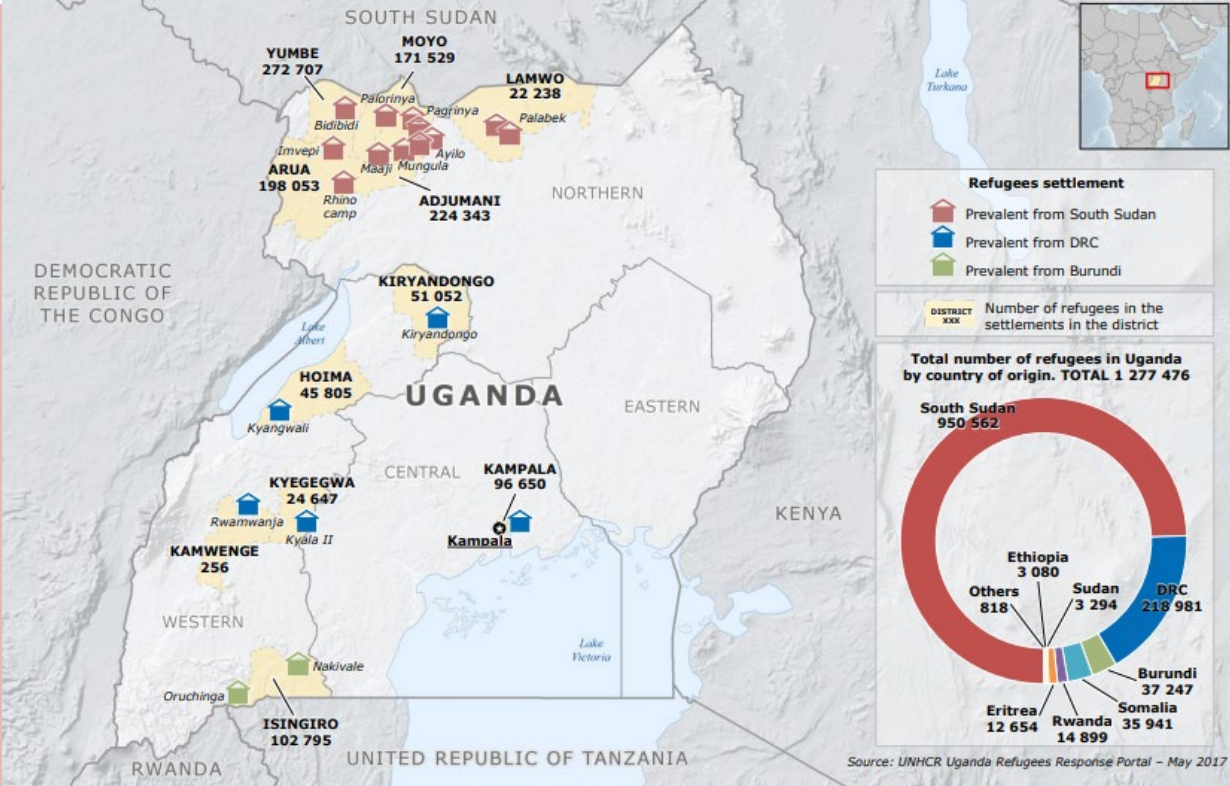




SCALE

We will partner with UNHCR to scale mobile-enabled aggregate demand models for clean energy throughout Uganda

Through our network at the UN and the GSMA platform we will share learnings so others can scale this approach in global markets



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