

CE3: An ecosystem approach to SDG promotion

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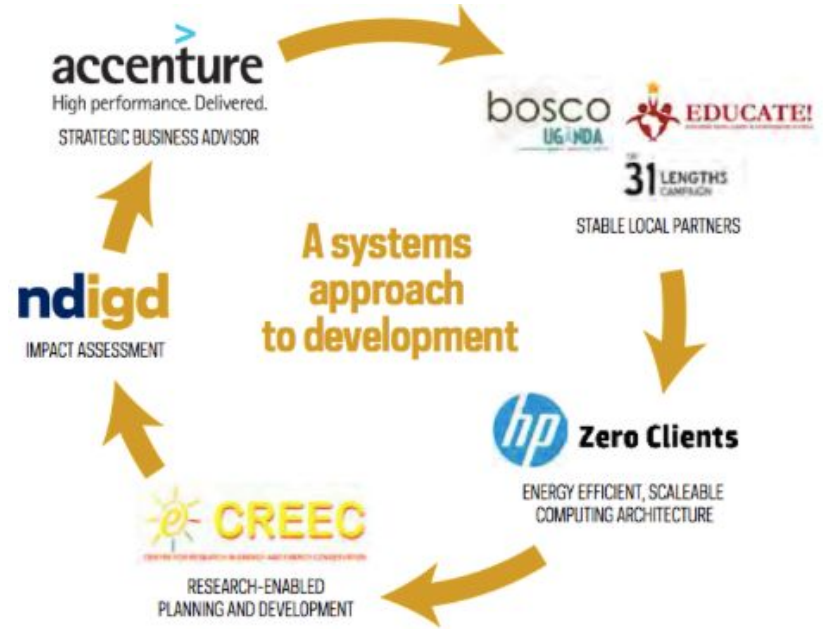
bosco background

- a community-based approach in post-conflict Northern Uganda
- goal: dignified globalization
- means: becoming a pluripotent connector
- social business model: offering participatory impact



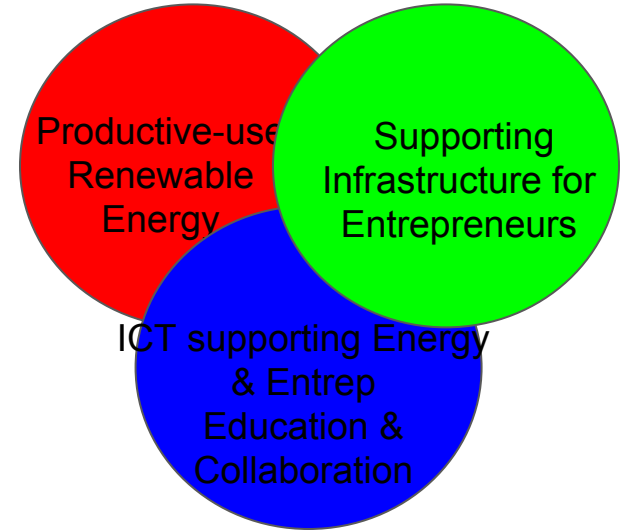
partnership development

- Inveneo, Horizont 3000, War Child Holland, UNICEF
- University of Notre Dame
- Accenture, HP Lenovo, Fetzer Institute, Loyola Foundation, SunEdison: CE3

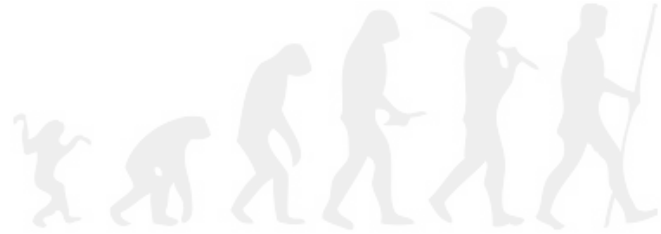


CE3: an ecosystem approach to sustainable development

- foundation: leveraging of Energy and ICT for livelihoods
- CE3: leveraging ICT, adding surplus Energy and livelihoods training
- adding global collaboration: energy planning/monitoring; business mentorship, micro-financial participation

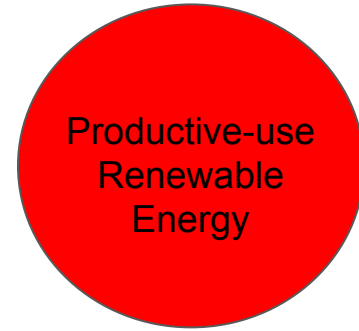


program evolution

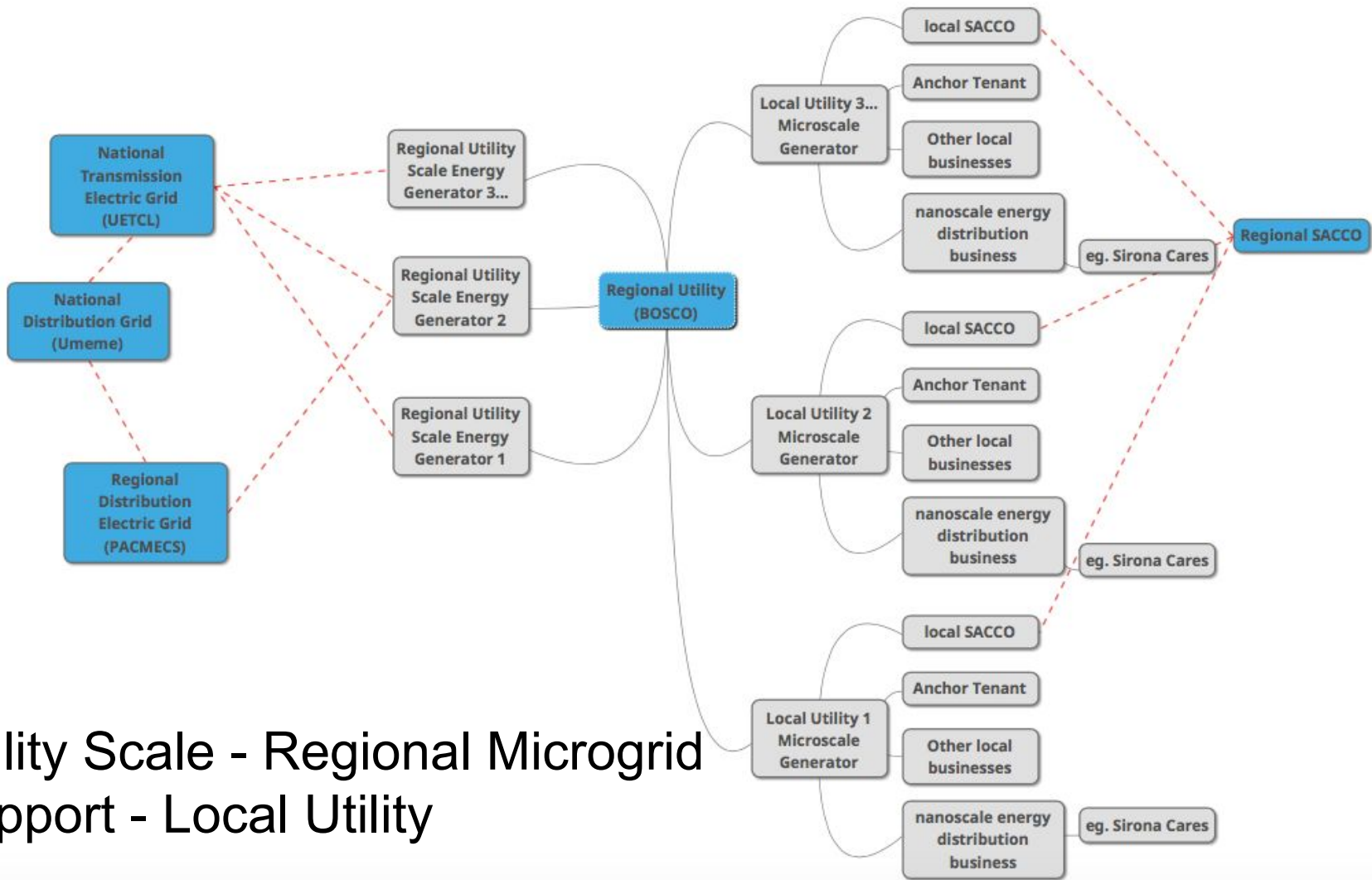


- phase I: harmonizing the parts around three 1 kW sites
- phase 2: two sites each sustainable at 30 kW, with business infrastructure and ICT-based training and networking maturing in separate locations
- looking ahead: community-owned regional electrification strategy for universal energy, capital, communications access

energy

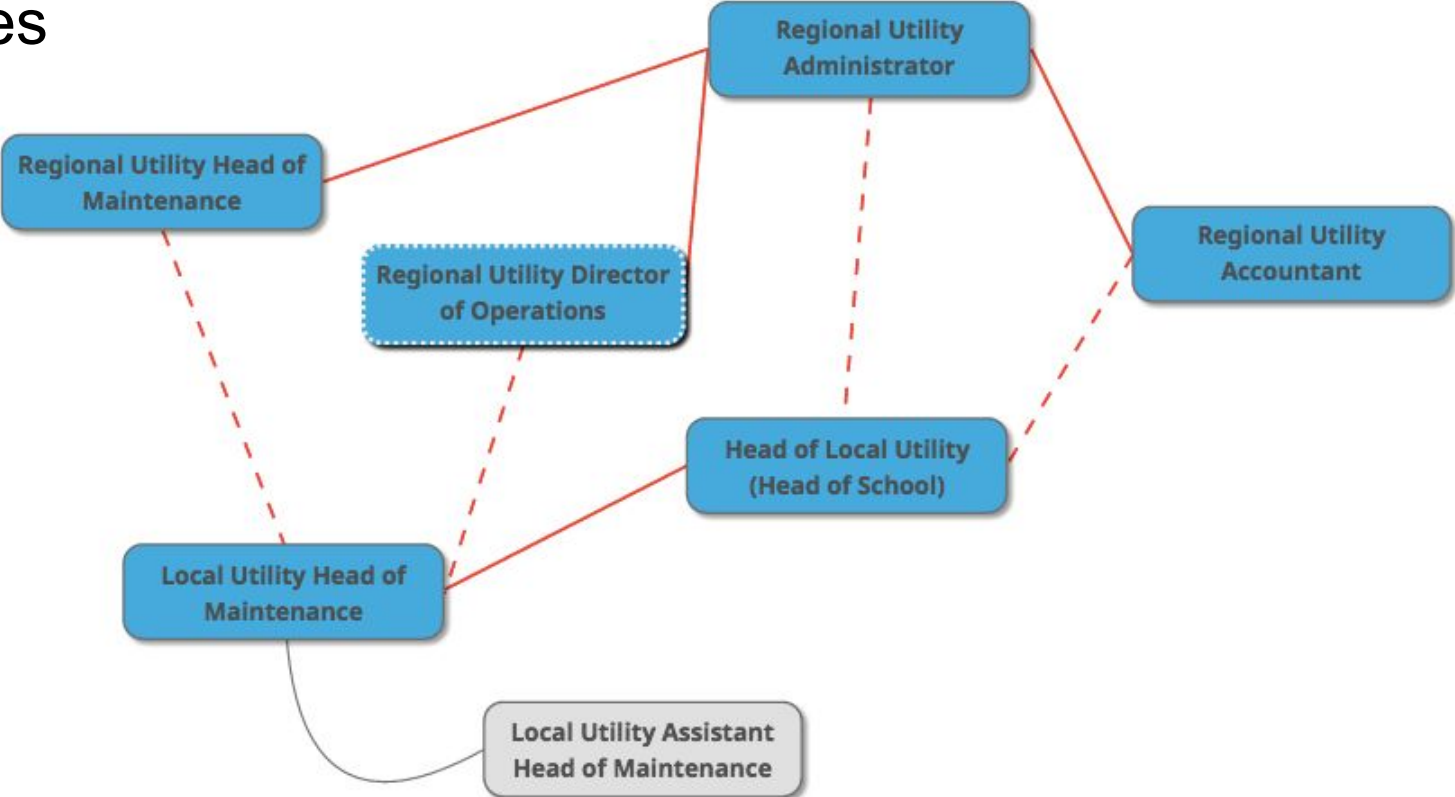


- *local utilities*
 - mortgage financing
 - co-managed sustainability fund
 - (looking ahead) centers of household-scale energy distribution
- *regional utility*
 - maintenance, financial, business development support
- (looking ahead): *grid-tied utility-scale solar*
 - boosts economics for scaling
 - guides site selection
 - promotes economies of scale and influx of expertise



Utility Scale - Regional Microgrid support - Local Utility

Regional and Local Energy Utilities



ICT - networking

off-grid ICT network and training
undergirds everything else:

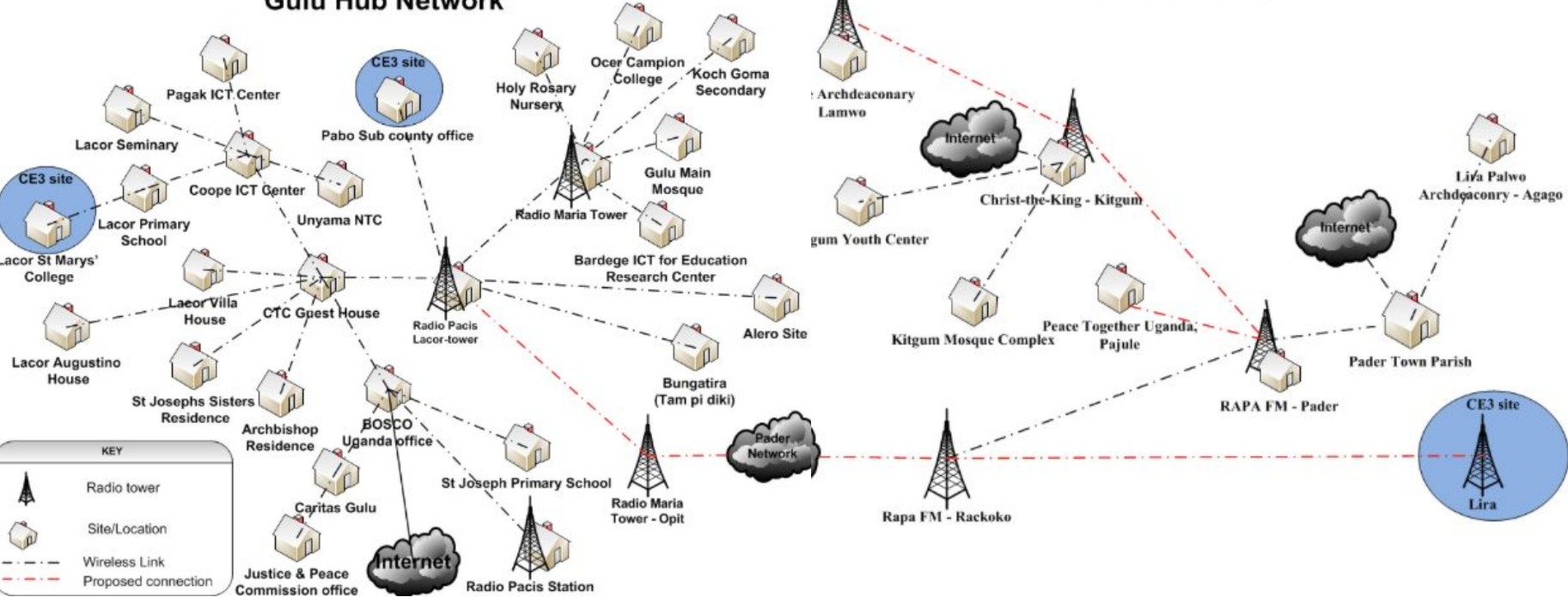
- community sites selected
- local leaders elected
- global partners connected



BOSCO ICT Network Map

BOSCO-UGANDA Gulu Hub Network

BOSCO-UGANDA Pader Hub Network

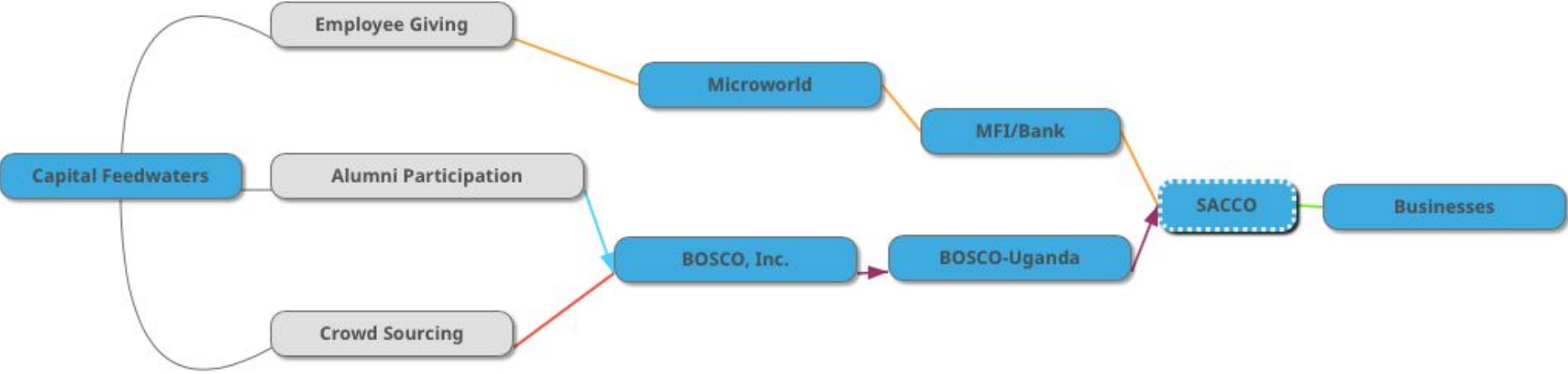


from livelihoods to business development infrastructure

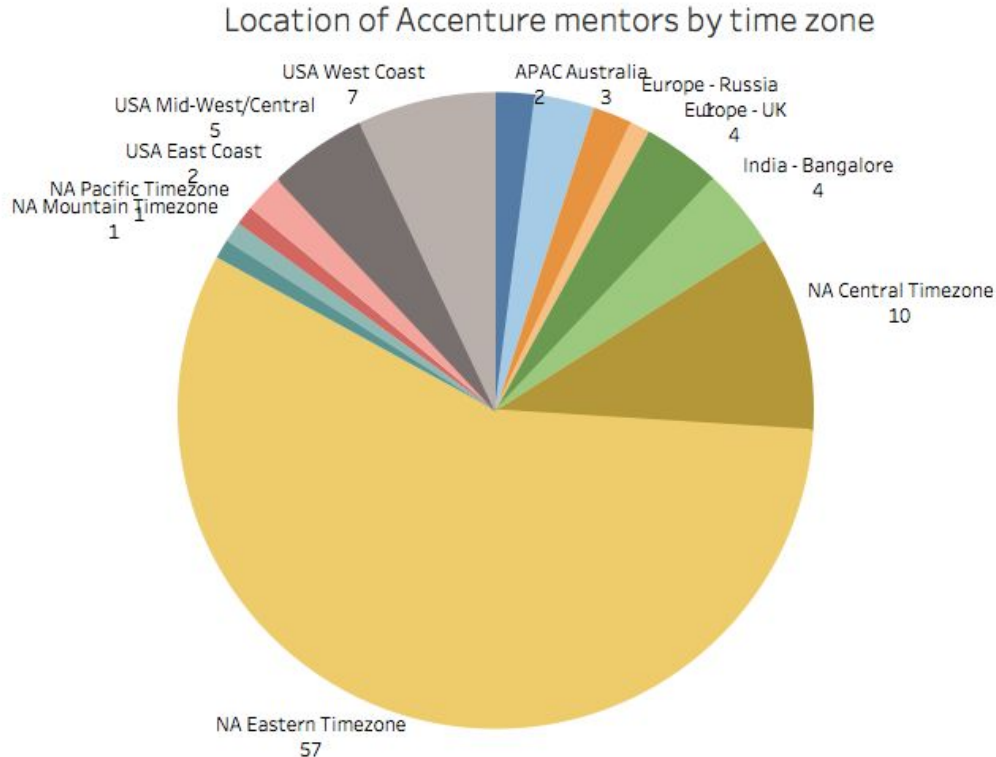
- Accenture-sponsored Entrepreneurship Essentials or Educate! training to establish a common language of business
 - 12 sites, 1400 trained
- Entrepreneurship Club of Uganda
 - community support
 - just-in-time education
- global pipeline for capitalization
- Local and international mentorship program



pipeline for capitalization



international mentorship program



- Focused on business plan development
- Mediated by translators
- 168 pairings
- 100+ completions
- early post-implementation survey:
 - training boosts “business language” habits
 - more employees hired
 - not yet increase in revenue

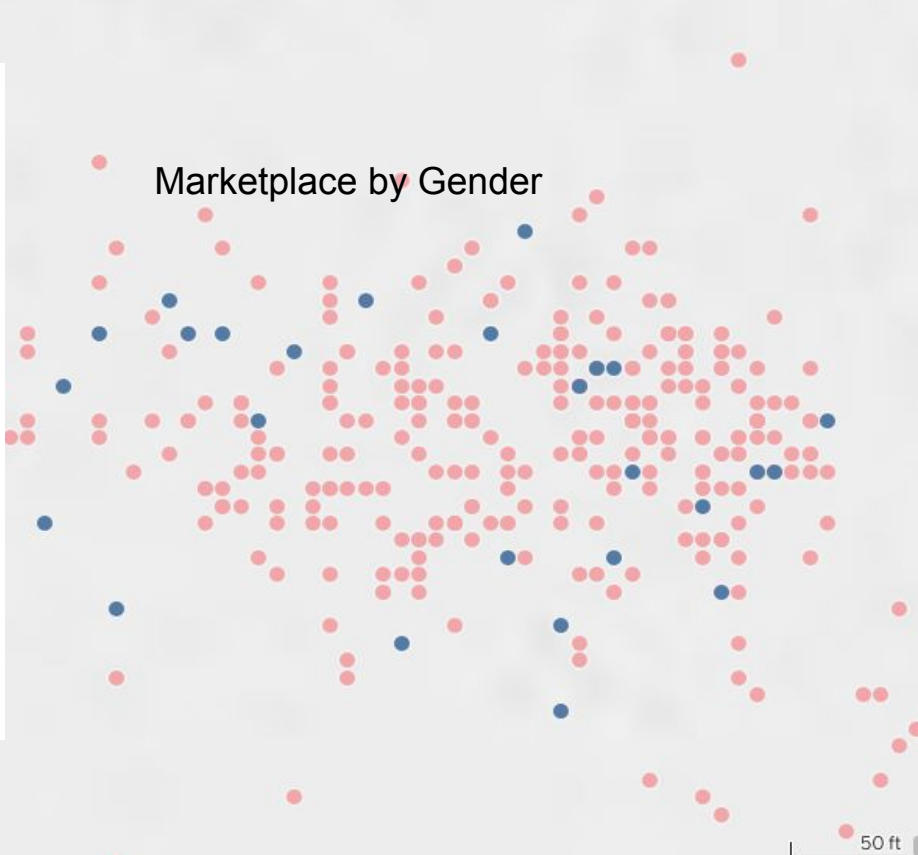
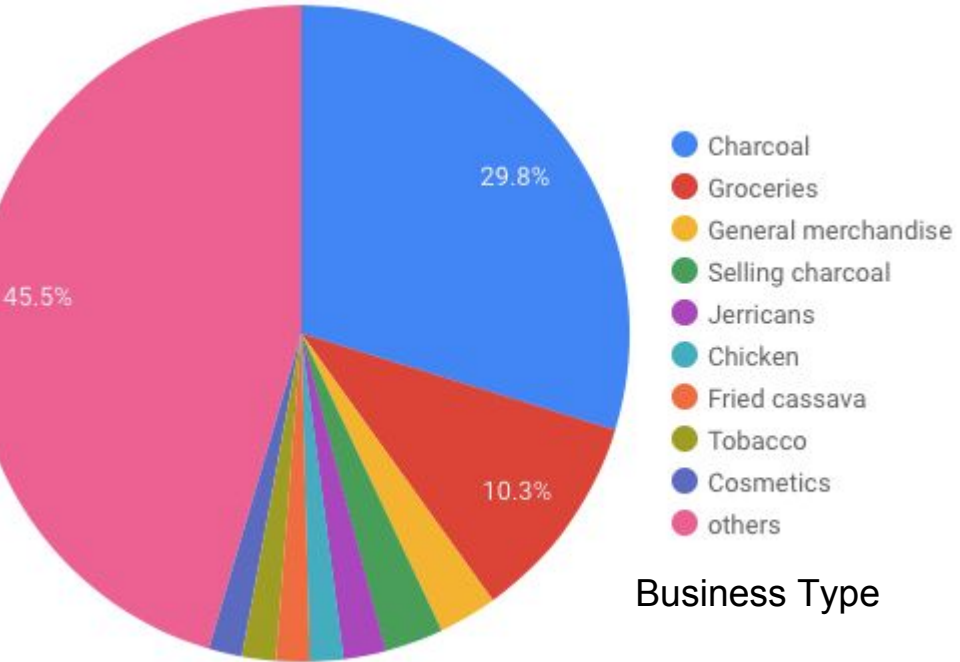
baseline survey of 5000 Gulu businesses

Location of 5000
Businesses surveyed
around Gulu

https://us-east-1.online.tableau.com/t/loughranshareddata/view/s/GuluBaselineBusinessSurveyMap/BaselineMap?:embed=y&:showShareOptions=true&:display_count=no&:showVizHome=no

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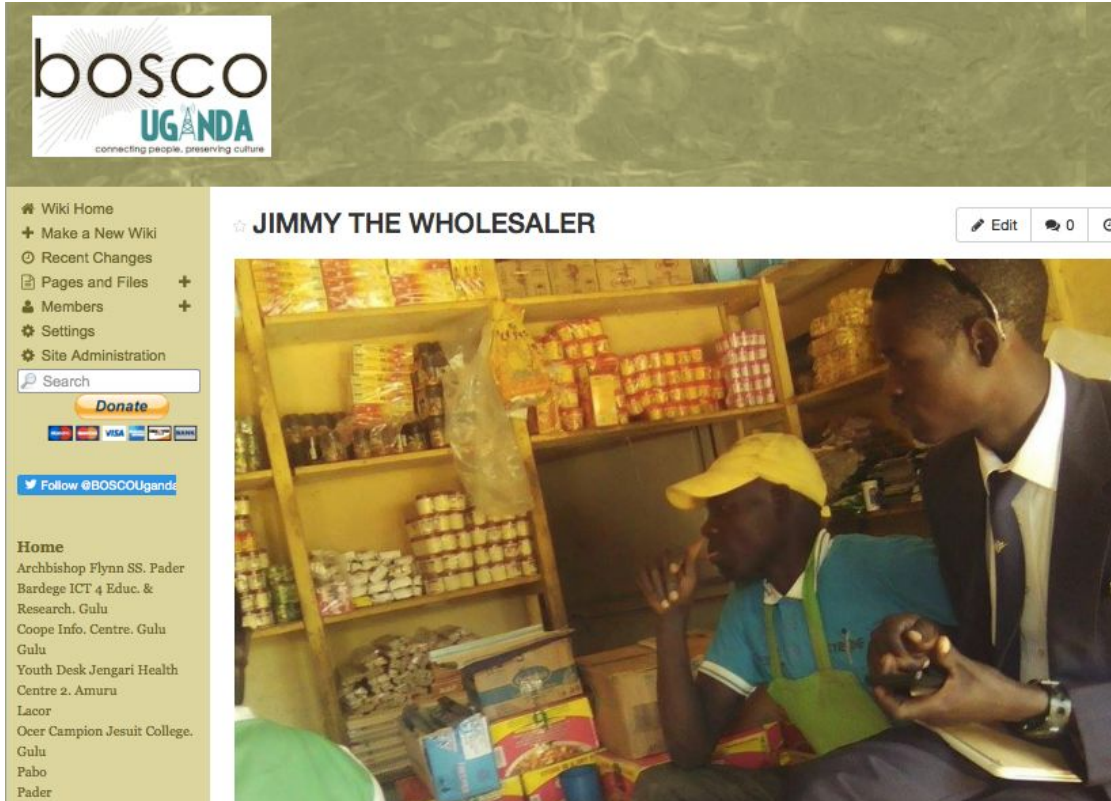
transparency through data



transparency through story

	A	B	C	D	E	F	G	H	I	J	K	L
1		(Date)	Business name	Business Type	Business Owner	Business owner gender m=male f=female n=prefer not to say, not known, other	Date of interview	Date of first posting	URL of posted story	Reviewed and accepted by:	Image check: JO's own?	Date of Review
84		02/27/2017	N/A	shoes	BRENDA AGENO		02/20/2017		http://www.bosco-uganda.wikispaces.net/BRENDA%27S+FOOTWEAR+SHOP		JO	3/7/17
85		03/02/2017	N/A	general merchadize	OKWERA PATRICK	m	02/20/2017		http://www.bosco-uganda.wikispaces.net/OKWERA%27S+RETAIL+SHOP		JO	3/7/17
86		03/02/2017	NIGHTY'S KITCHENWARE	dining and kitchen utensils	NIGHTY ADONG	f	02/20/2017		http://www.bosco-uganda.wikispaces.net/IGHTY+ADONG%27S+KITCHEN+WARE+SHOP		JO	3/7/17
87		03/20/2017	n/a	used clothes	LACAA MARY	f	02/21/2017		http://www.bosco-uganda.wikispaces.net/LACAA+DEALER+IN+USED+CLOTHES		JO	3/7/17
88		03/02/2017	N/A	building materials	BALINDA JAMES	m	02/20/2017		http://www.bosco-uganda.wikispaces.net/MABER		JO	3/7/17
89		03/02/2017	HOUSE OF PLASTICS	plastic products	OKELLO THOMSON	m	02/20/2017		http://www.bosco-uganda.wikispaces.net/OF%C2%A0PLASTICS		JO	3/7/17
90		03/02/2017	FRANCIS'S CHEAP STORE	clothes	OKOT FRANCIS	m	02/20/2017		http://www.bosco-uganda.wikispaces.net/FRANCIS%27S+CHEAP+STORE		JO	3/7/17
91		03/02/2017	JENNIFER'S TEXTILES	tailoring, selling materials	ODONG JENNIFER	f	03/02/2017		http://www.bosco-uganda.wikispaces.net/JENNIFER+ODONG		JO	3/7/17
92		03/02/2017	KILAMA'S GRAIN MILLER	milling grains	KILAMA GEOFFERY	m	02/28/2017		http://www.bosco-uganda.wikispaces.net/KILAMA%27S%C2%A0GRAIN+MILLER		JO	3/7/17

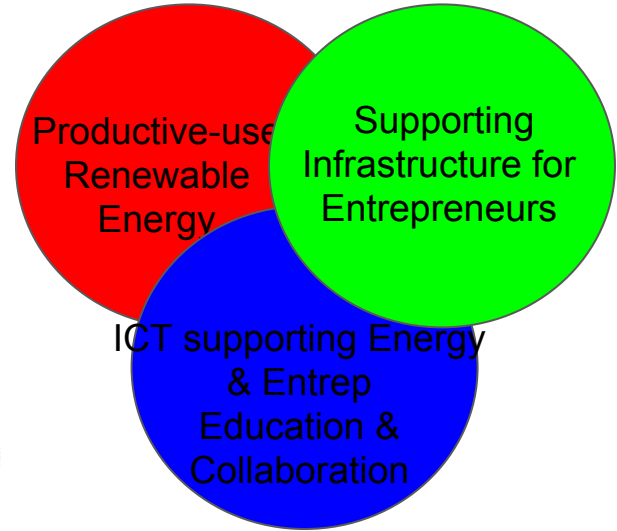
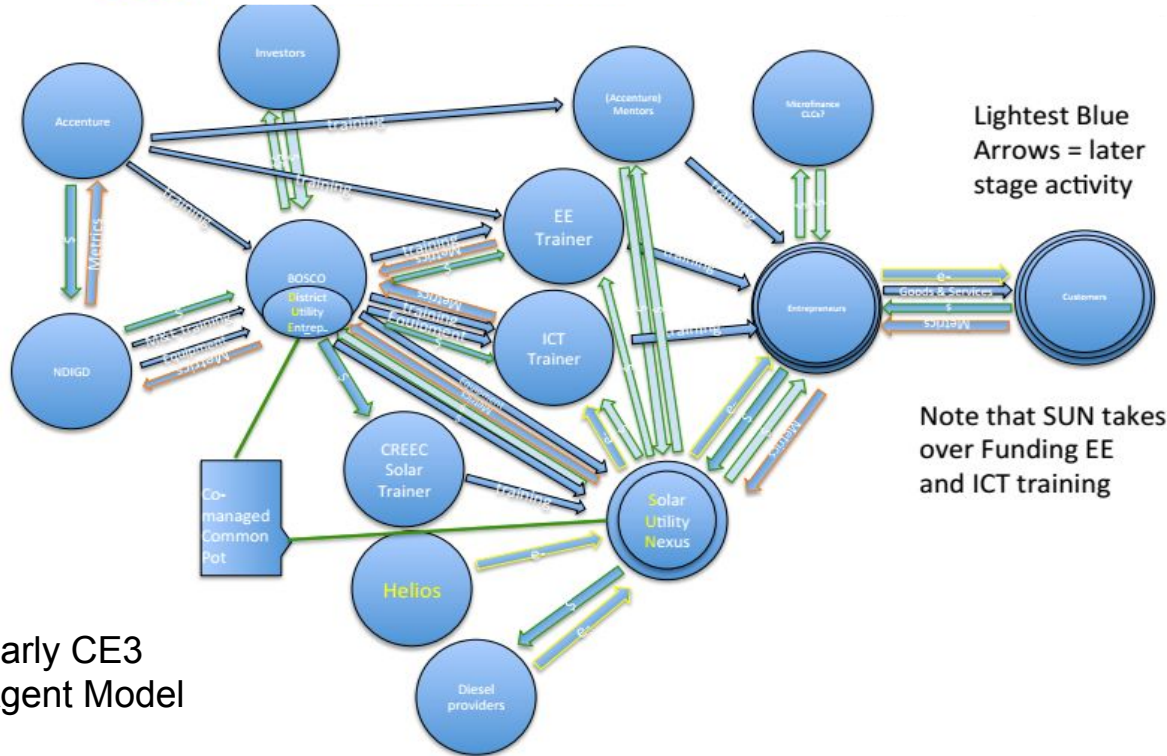
insight from interviews



The image shows a screenshot of a Wiki page for 'JIMMY THE WHOLESALER' on the BOSCO UGANDA website. The BOSCO UGANDA logo is at the top left, with the tagline 'connecting people, preserving culture'. The page title is 'JIMMY THE WHOLESALER'. Below the title is a photograph of two men in a shop. One man is wearing a yellow cap and a blue shirt with a green apron, and the other is wearing a dark suit and tie. They are looking at something together. The left sidebar contains navigation links: Wiki Home, Make a New Wiki, Recent Changes, Pages and Files, Members, Settings, and Site Administration. There is also a search bar, a 'Donate' button, and a 'Follow @BOSCOUganda' button. The 'Home' section lists various locations: Archbishop Flynn SS. Pader, Bardege ICT 4 Educ. & Research, Gulu, Coope Info. Centre, Gulu, Gulu, Youth Desk Jengari Health Centre 2, Amuru, Lacor, Ocer Campion Jesuit College, Gulu, Pabo, and Pader.

...He keeps records of all the business transactions he makes. Records every sale made, decides what goods to buy by consulting his records. He has a written budget of the costs he expects to pay for the business in future. He has competitors, and is aware of their strength and weaknesses. He does advertising; outside display, occasional advert on radio and also word of mouth. His location is where it is because of nearness to bus park. The place is very secure from natural hazards and human activities. He seeks advice from his suppliers and senior business friends. He banks most of his profits while he uses some to pay rent, taxes, transport and employees. He has a Business Plan and Mission Statement...

CE3: a complex ecosystem connecting people around sustainable development



Early CE3 Agent Model

SDGs: ways of connecting in a pluripotent environment

 <p>1 NO POVERTY</p>	<p>Increased incomes for smallholder business owners</p>
 <p>2 ZERO HUNGER</p>	<p>Prosperity for small agribusiness through training and loans</p>
 <p>3 GOOD HEALTH AND WELL-BEING</p>	<p>Health Clinic Electrification</p>
 <p>4 QUALITY EDUCATION</p>	<p>Entrepreneurship education in secondary schools as required by UG DoE</p>
 <p>5 GENDER EQUALITY</p>	<p>Loans and training to large percentage of women (much greater than 50%)</p>
 <p>6 CLEAN WATER AND SANITATION</p>	<p>Water source mapping project (educational with aspirations for WATSAN use); Trocaire well status app (in progress)</p>
 <p>7 AFFORDABLE AND CLEAN ENERGY</p>	<p>Provision of affordable clean energy to small off-grid communities</p>
 <p>8 DECENT WORK AND ECONOMIC GROWTH</p>	<p>Entrepreneurship Club of UG with common business language (EE), follow-up social support, ad hoc training, financial services</p>
 <p>9 INDUSTRY, INNOVATION AND INFRASTRUCTURE</p>	<p>networking infrastructure, looking toward transportation and energy networks</p>
 <p>10 REDUCED INEQUALITIES</p>	<p>participation, Energy, Business social</p>
 <p>11 SUSTAINABLE CITIES AND COMMUNITIES</p>	<p>accounts increase incomes for economically marginalized from energy poverty; dignified globalization through international</p>
 <p>12 RESPONSIBLE CONSUMPTION AND PRODUCTION</p>	<p>communities take charge of their own energy/economic ecosystems; productive-use power; sustainability savings</p>
 <p>13 CLIMATE ACTION</p>	<p>hand-glove tailoring of E demand to supply; sustaining battery life by optimal use consumers</p>
 <p>14 LIFE BELOW WATER</p>	<p>Replacing off-grid diesel with renewable solar energy; clean energy education for</p>
 <p>15 LIFE ON LAND</p>	<p>aquaculture enabled through small business training and loans</p>
 <p>16 PEACE, JUSTICE AND STRONG INSTITUTIONS</p>	<p>Shea nut tree planting project; communal land ownership efforts; collaborative farming proposals</p>
 <p>17 PARTNERSHIPS FOR THE GOALS</p>	<p>Promoting citizen journalism; providing local wide area network with platforms outside of for-profit social media</p>
	<p>enduring global partnerships undergird by ICT, data culture, local CSO strengthening</p>