

Mapping Refugee Camp Economies in Rwanda

Brian Tomaszewski, Ph.D.

Associate Professor

Center for Geographic Information Science and Technology
Rochester Institute of Technology, USA

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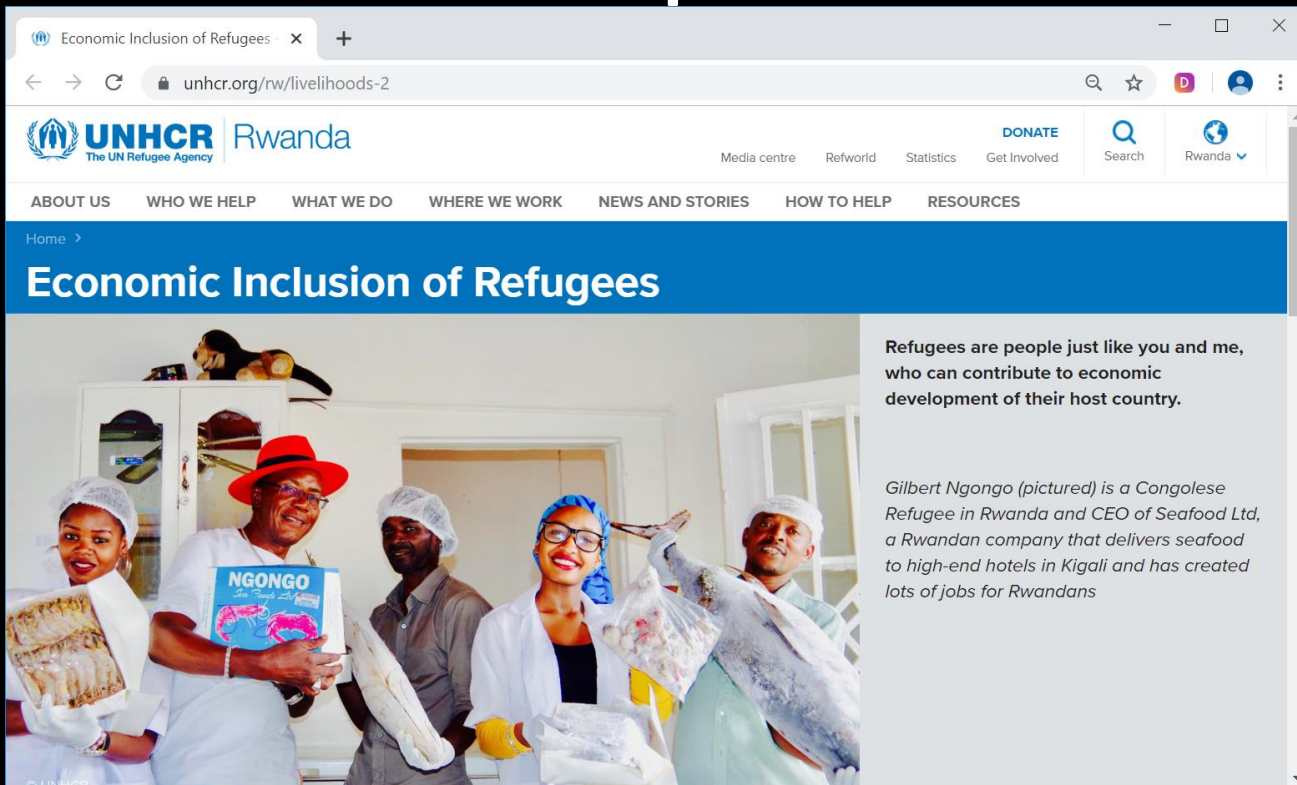
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Outline

- Economic Benefits of Refugees
- Research Context
- Field Data Collection
- Select Results
- Conclusions

Refugees Benefits

- Improved infrastructure (security)
- Economic development



Economic Inclusion of Refugees

Refugees are people just like you and me, who can contribute to economic development of their host country.

Gilbert Ngongo (pictured) is a Congolese Refugee in Rwanda and CEO of Seafood Ltd, a Rwandan company that delivers seafood to high-end hotels in Kigali and has created lots of jobs for Rwandans

<https://www.unhcr.org/rw/livelihoods-2>

Research Context

- Policy change: in-kind food supply to cash
- Potential to create camp-based business - surplus cash to create businesses



FS	IBIGORI	IBISHYIMBO	AMAVUTA	UMUNYU
1	12.3	3.6	0.9	0.15
2	24.6	7.2	1.8	0.3
3	36.9	10.8	2.7	0.45
4	49.2	14.4	3.6	0.6
5	61.5	18	4.5	0.75
6	73.8	21.6	5.4	0.9
7	86.1	25.2	6.3	1.05
8	98.4	28.8	7.2	1.2
9	110.7	32.4	8.1	1.35
10	123.0	36	9	1.5
11	135.3	39.6	9.9	1.65
12	147.6	43.2	10.8	1.8



From this.....

.....to this

Field Research Activity

1. Baseline: economic and spatial business conditions last in-kind system (Kigeme)
2. Investigate: business conditions camp on a cash-for-food (Mugombwa)

RWANDA



Kigali

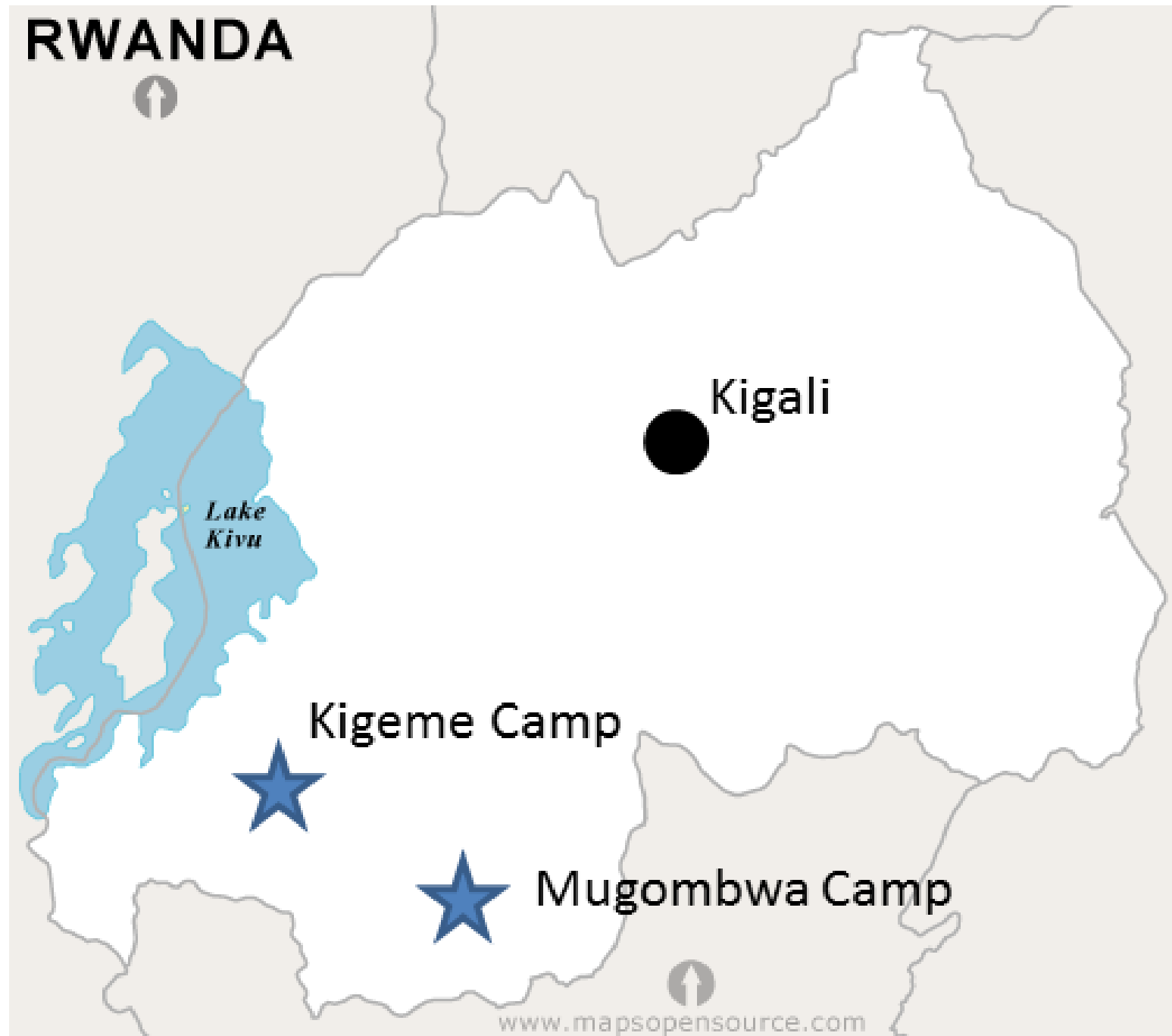
Lake Kivu

Kigeme Camp

Mugombwa Camp



www.mapsofopen.com





Kigeme

Mugombwa



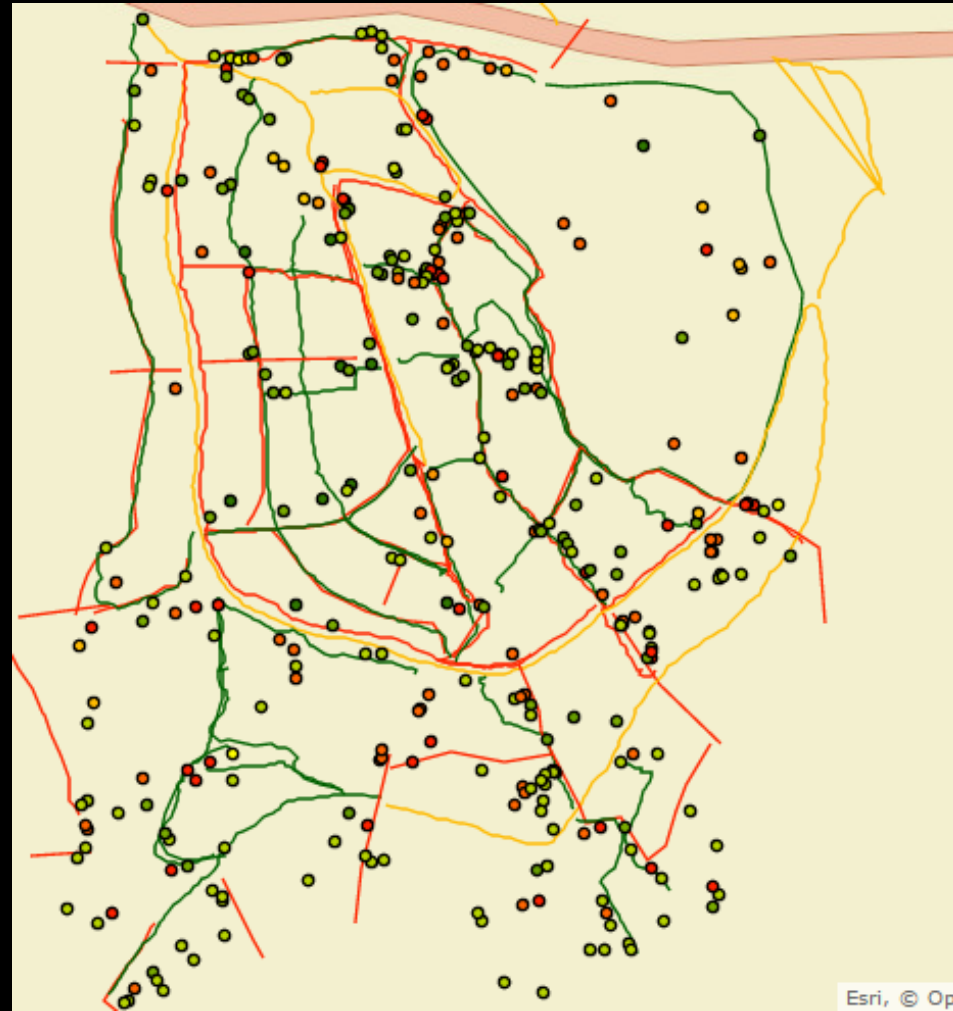
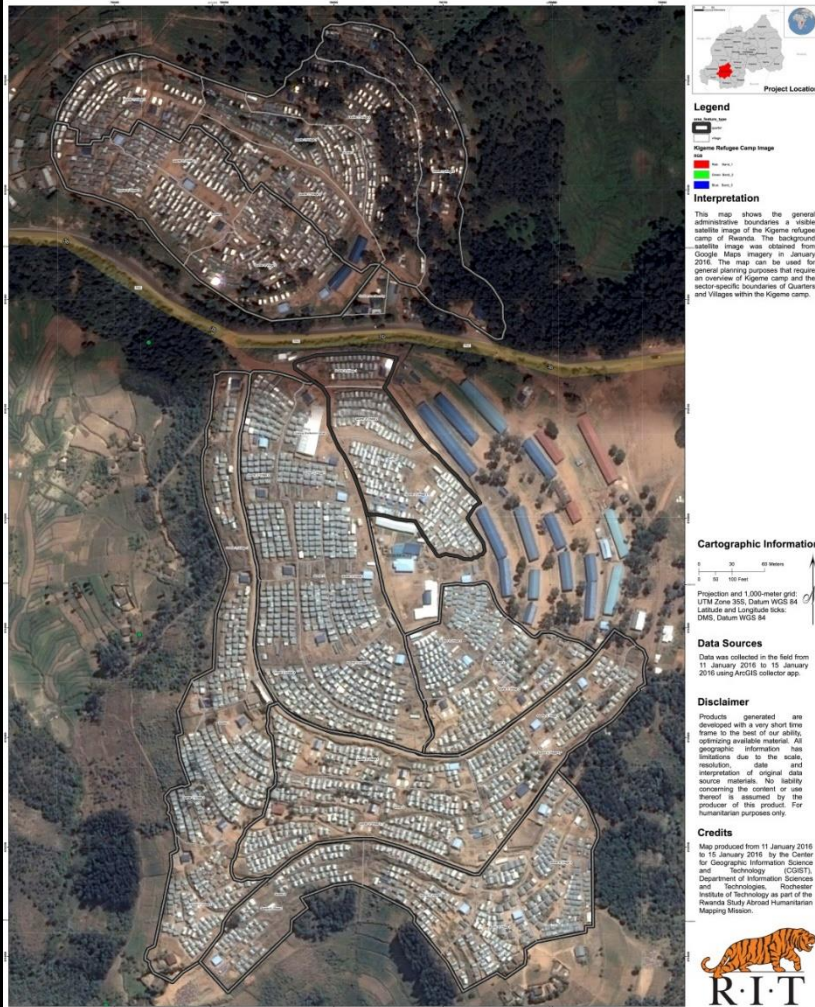
Prior - Rwanda

Humanitarian Mapping



Prior - Rwanda Humanitarian Mapping

Kigeme Refugee Camp General Administrative Boundaries Map- DRAFT (15 March 2016)



Field Data Collection

12:42

Rwanda 2017

Do you have a lot of competition from businesses outside the camp? (0-5; 0- none- 5 high competition) *

☐ 0

☐ 1

☐ 2

☐ 3

☐ 4

☐ 5

When you compare last month to the same month last year, has your income decreased, increased, or remained the same? *

☐ Decreased

☐ Remain the same

☐ Increased

☐ Don't Know/Not Sure

☒ Not Applicable

Relationship of refugee business within camp economy

When did you start your business? (day, month, year if possible) *

✓



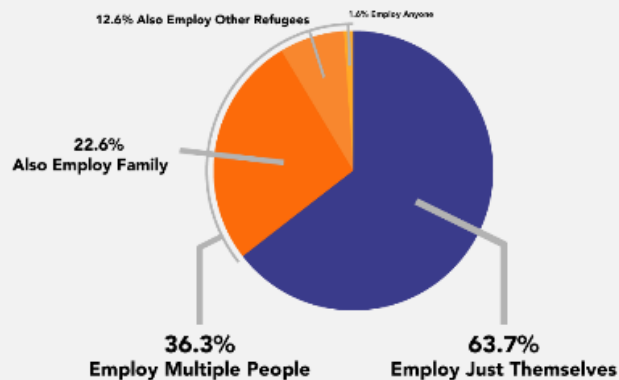


Select Results

Economy of a Refugee Camp

124 small business run by Congolese refugees were found and surveyed in Kigeme & Mugombwa Camp, Rwanda.

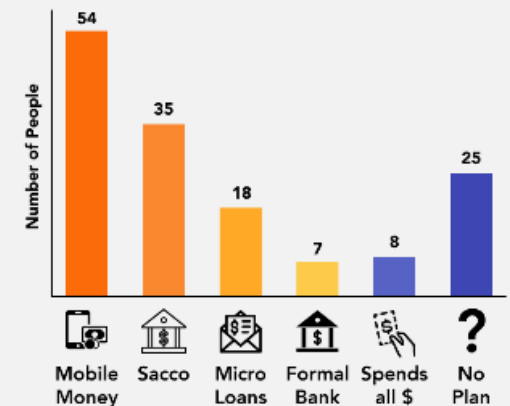
Employment
who's being employed



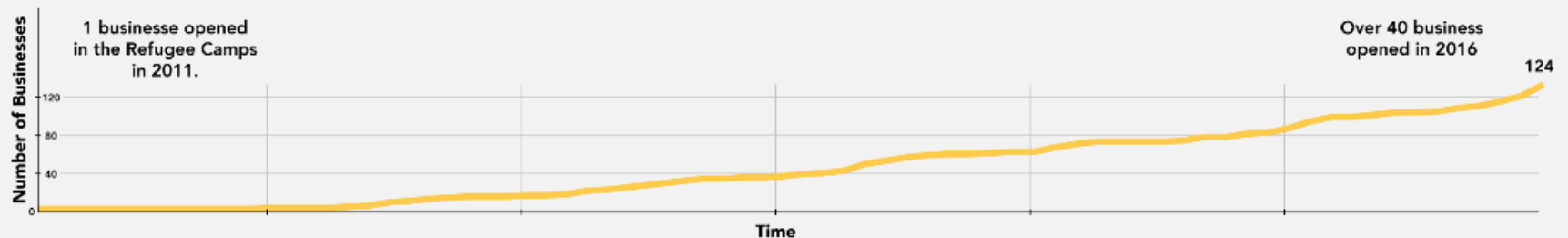
Income
in the last year



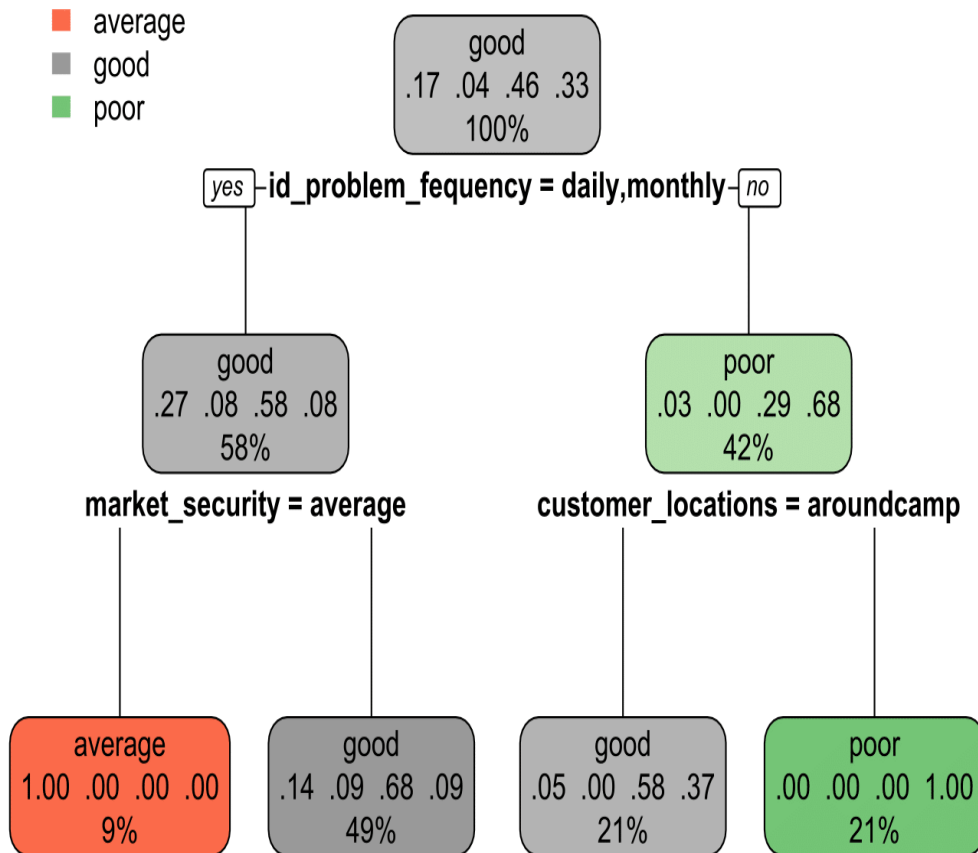
Savings
where people save



When Business Opened



Market Conditions in Kigeme



Correlation
between:

- Refugee ID problem
- Customer locations
- Market security

Market conditions of Kigeme
viewed as a decision tree

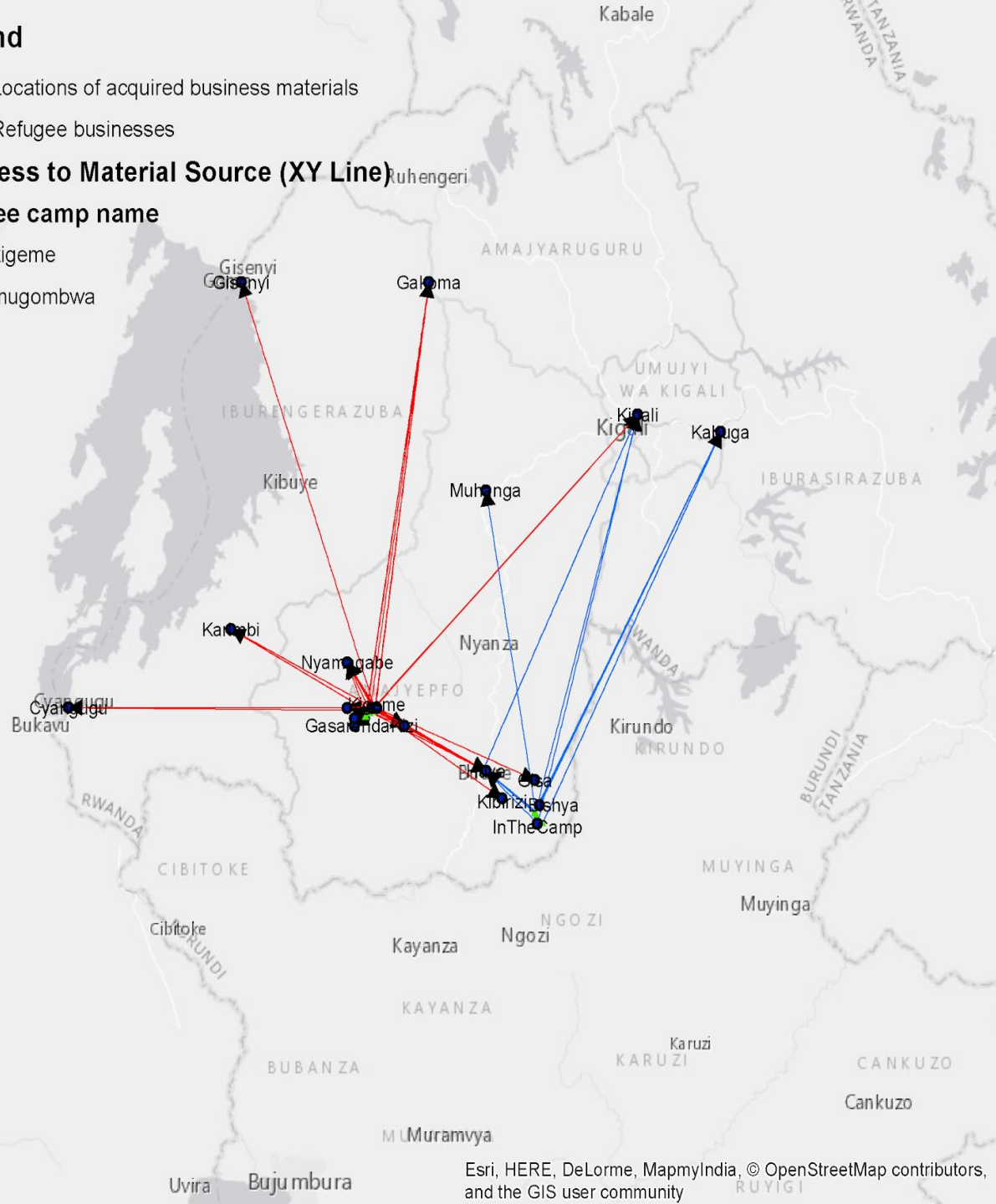
Legend

- Locations of acquired business materials
- ▲ Refugee businesses

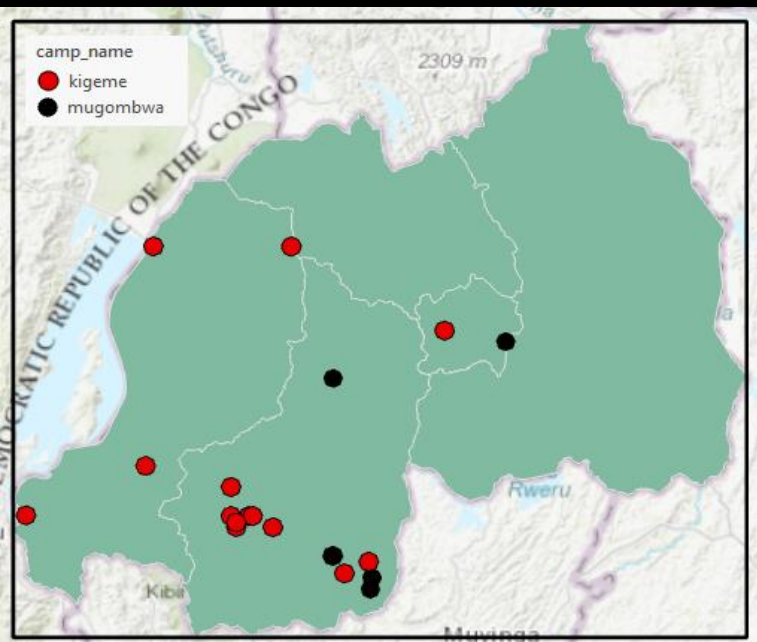
Business to Material Source (XY Line)

Refugee camp name

- kigeme
- mugombwa

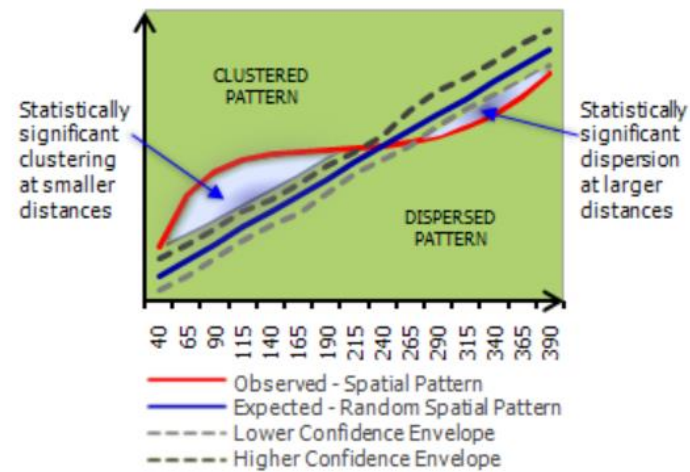


Spatial Economics

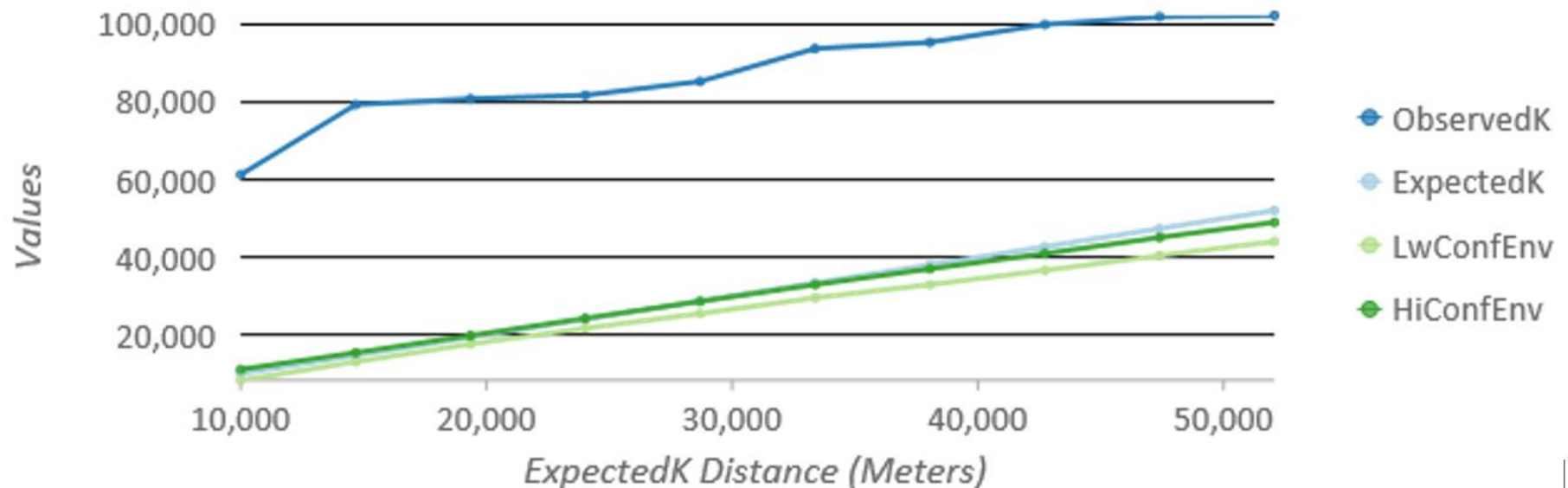


Multi-Distance Spatial Cluster Analysis (Ripley's K Function) (Spatial Statistics Tools) ✕

Determines whether features, or the values associated with features, exhibit statistically significant clustering or dispersion over a range of distances.



Business Materials Clustering



Conclusions

- Persistent challenges:
Identification
- Refugee camp economies >10 km radius
 - Spatial statistical significance
 - Refugees travel great distances

Murakoze!

Danke!

شكرا!

Brian Tomaszewski

bmtski@rit.edu

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