

8.94, 7.02 - Kaida Tsoho, Gwagwalada, Abuja State

Legend

- Schools
- Health Facilities
- Markets
- Factories & Industrial Sites
- Mosques
- Churches
- Road Network
- LV Lines
- MV Lines
- HV Lines
- Existing Minigrid
- REA Capital Project Minigrid Sites
- NGN Admin Boundary



Climate Data

	Average Temperature (Celcius)	27.55
	Relative Humidity (%)	76
	Worst Average Daily Sunshine (Hrs)	4.2
	Longest Duration of sunset (Hrs)	7.9

Settlement Statistics

Name	Kaida Tsoho
State	Abuja
LGA	Gwagwalada
Settlement area [km2]	611.74
Built-up area coverage [%]	9
Buildings within settlement	243
Large buildings	5
Medium buildings	20
Small buildings	218
Building Density	0.09
Very small structure	106



Electricity Access

	Distance to grid [km]	2.414
	Has Nightlight	false
	Distance to Night Light	2.173
	Main Road Access	false
	Lenth of the Road	0.74

Settlement Mini-Grid Viability

	Potential PV production [kWh/kWp]	1481.43
	Estimated energy demand [kWh/day]	0.27
	Average demand per connection [kWh/day]	37.51
	Estimated number of connections	138.51

Socio-Economic Characteristics



Presence of Education facilities	true
Number of School	1
Presence of Healthcare facilities	true
Number of PHCs	1
Nearest Hub	Abuja
Distance to the Hub	53.78
Relative wealth index (mean)	-0.35
Multidimensional poverty index (MPI)	0.119
Population in poverty (MPI - state) [%]	27.17
Population in severe poverty (MPI - state) [%]	10.06
MPI deprivation intensity (%)	43.82
MPI poverty vulnerability (%)	19.05

Data Sources

Climate Data: FAO - <https://fao.org/land-water/databases-and-software/climwat-for-cropwat/en/>
 Distribution Lines: Distribution Company (DISCOs) through the Se4All Platform - <https://nigerias4all.gov.ng/>
 Transmission Lines and Stations: Transmission Company of Nigeria (TCN) through DRID3 - <https://grid3.gov.ng/datasets>
 Existing Mini Grid: Rural Electrification Agency (REA) - <https://rea.gov.ng/>
 Building Footprint: Facebook & Microsoft
 Social Amenities (Schools, Factories and Health Facilities): VIDA through GRID3 - <https://grid3.gov.ng/datasets>
 Roads and Water Lines: Humanitarian Data Exchange - <https://data.humdata.org/dataset/>

Armed Conflicts (2020-2022)



Security Risk	high
Fatalities within 25 km (battles:riots:violence against civilians:explosions)	20:1:15:0
Fatalities within 50 km (battles:riots:violence against civilians:explosions)	78:15:39:70

Agriculture



Agricultural productivity	high
Top five dominant crops	rice, cowpea, maize, sorghum, groundnut
Total agricultural area [ha]	6223.895833333335
Total crop value [\$/year]	4252559.0375
Total crop yield [kg/ha]	37511.69375

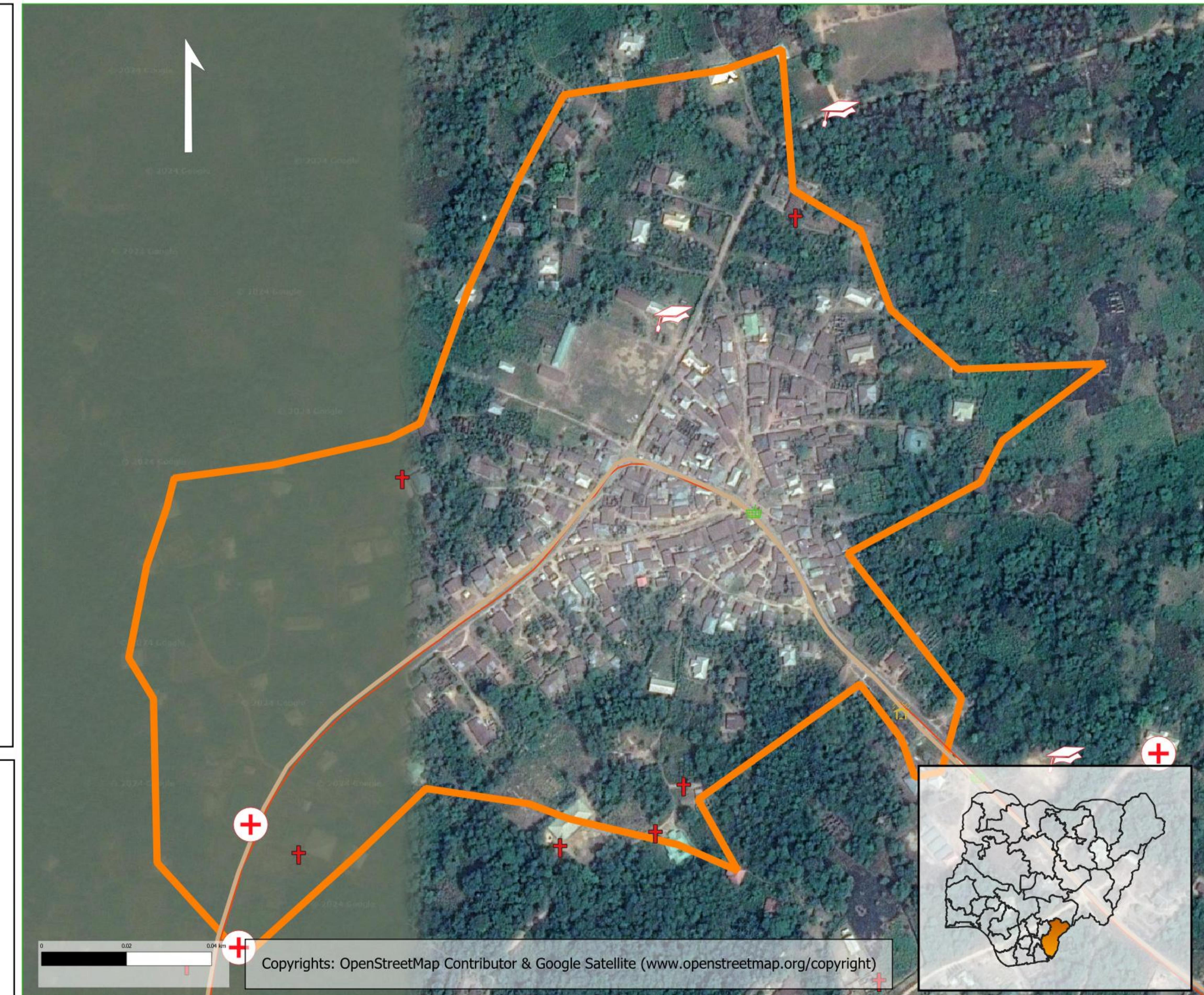
5.94, 8.17 - Assiga, Obubra, Cross River State

Legend

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- REA Capital Project Minigrid Sites
- NGN Admin Boundary

Climate Data

Average Temperature (Celcius)	26.7
Relative Humidity (%)	82
Worst Average Daily Sunshine (Hrs)	2.7
Longest Duration of sunset (Hrs)	6



Settlement Statistics

Name	Assiga
State	Cross River
LGA	Obubra
Settlement area [km2]	1161.32
Built-up area coverage [%]	12
Buildings within settlement	270
Large buildings	85
Medium buildings	79
Small buildings	106
Building Density	0.12
Very small structure	9

Electricity Access

Distance to grid [km]	0
Has Nightlight	true
Distance to Night Light	0
Main Road Access	true
Lenth of the Road	1.93

Settlement Mini-Grid Viability

Potential PV production [kWh/kWp]	1374.19
Estimated energy demand [kWh/day]	0.62
Average demand per connection [kWh/day]	95.68
Estimated number of connections	153.9

Socio-Economic Characteristics

Presence of Education facilities	true
Number of School	8
Presence of Healthcare facilities	true
Number of PHCs	5
Nearest Hub	Abakaliki
Distance to the Hub	42.2
Relative wealth index (mean)	-0.47
Multidimensional poverty index (MPI)	0.12
Population in poverty (MPI - state) [%]	29.03
Population in severe poverty (MPI - state) [%]	6.58
MPI deprivation intensity (%)	41.42
MPI poverty vulnerability (%)	25.01

Data Sources

Climate Data: FAO - <https://fao.org/land-water/databases-and-software/climwat-for-cropwat/en/>
 Distribution Lines: Distribution Company (DISCOs) through the Se4All Platform - <https://nigeriase4all.gov.ng/>
 Transmission Lines and Stations: Transmission Company of Nigeria (TCN) through DRID3 - <https://grid3.gov.ng/datasets>
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 Roads and Water Lines: Humanitarian Data Exchange - <https://data.humdata.org/dataset/>

Armed Conflicts (2020-2022)

Security Risk	high
Fatalities within 25 km (battles:riots:violence against civilians:explosions)	15:5:33:0
Fatalities within 50 km (battles:riots:violence against civilians:explosions)	86:10:133:0

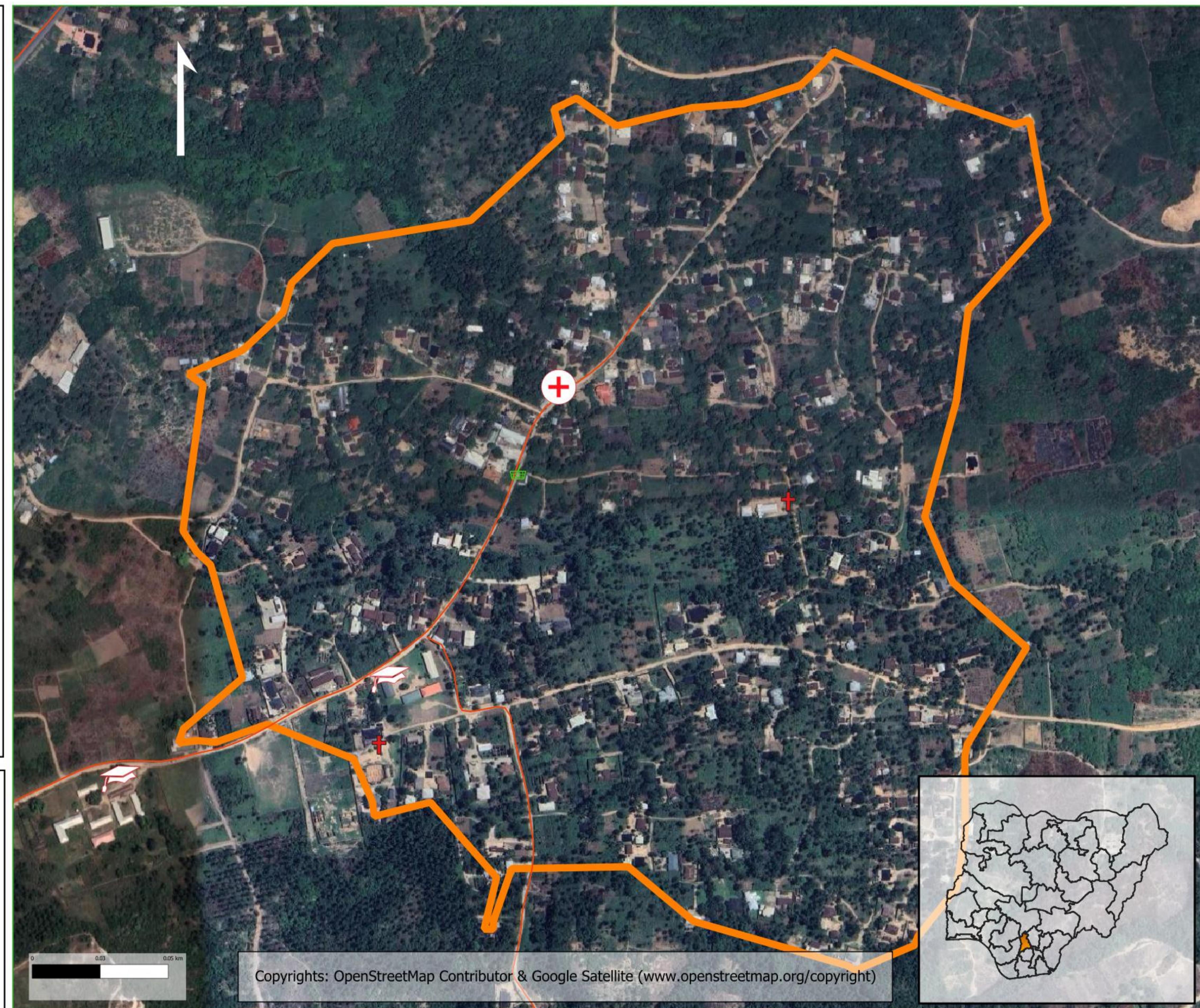
Agriculture

Agricultural productivity	very high
Top five dominant crops	yams, cassava, oilpalm, vegetables, rice
Total agricultural area [ha]	6432.502334630347
Total crop value [\$/year]	10005598.552380953
Total crop yield [kg/ha]	43170.96190476191

5.95, 6.9 - Umudim, Nnewi South, Anambra State

Legend

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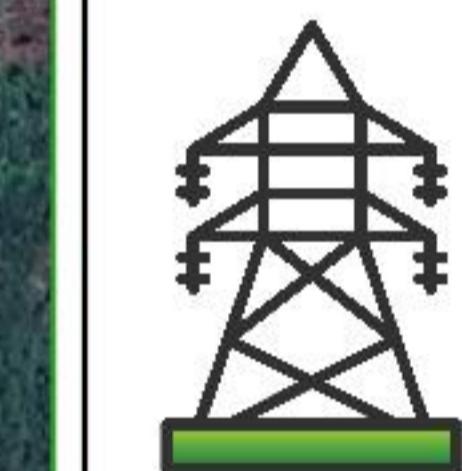
Settlement Statistics

Name	Umudim
State	Anambra
LGA	Nnewi South
Settlement area [km2]	1056.59
Built-up area coverage [%]	8
Buildings within settlement	601
Large buildings	162
Medium buildings	147
Small buildings	292
Building Density	0.08
Very small structure	93



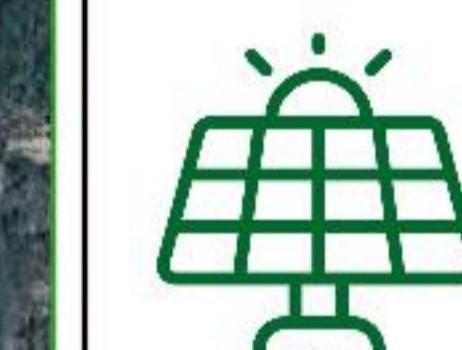
Electricity Access

Distance to grid [km]	0
Has Nightlight	false
Distance to Night Light	0.087
Main Road Access	false
Lenth of the Road	5.99



Settlement Mini-Grid Viability

Potential PV production [kWh/kWp]	1344.3
Estimated energy demand [kWh/day]	0.56
Average demand per connection [kWh/day]	192.15
Estimated number of connections	342.57



Climate Data

Average Temperature (Celcius)	27.2
Relative Humidity (%)	73
Worst Average Daily Sunshine (Hrs)	3.7
Longest Duration of sunset (Hrs)	7.1



Socio-Economic Characteristics

Presence of Education facilities	true
Number of School	3
Presence of Healthcare facilities	true
Number of PHCs	2
Nearest Hub	Nkpor
Distance to the Hub	23.02
Relative wealth index (mean)	0.25
Multidimensional poverty index (MPI)	0.035
Population in poverty (MPI - state) [%]	8.6
Population in severe poverty (MPI - state) [%]	1.06
MPI deprivation intensity (%)	40.3
MPI poverty vulnerability (%)	19.75



Data Sources

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Armed Conflicts (2020-2022)

Security Risk	high
Fatalities within 25 km (battles:riots:violence against civilians:explosions)	204:19:170:3
Fatalities within 50 km (battles:riots:violence against civilians:explosions)	391:36:305:3



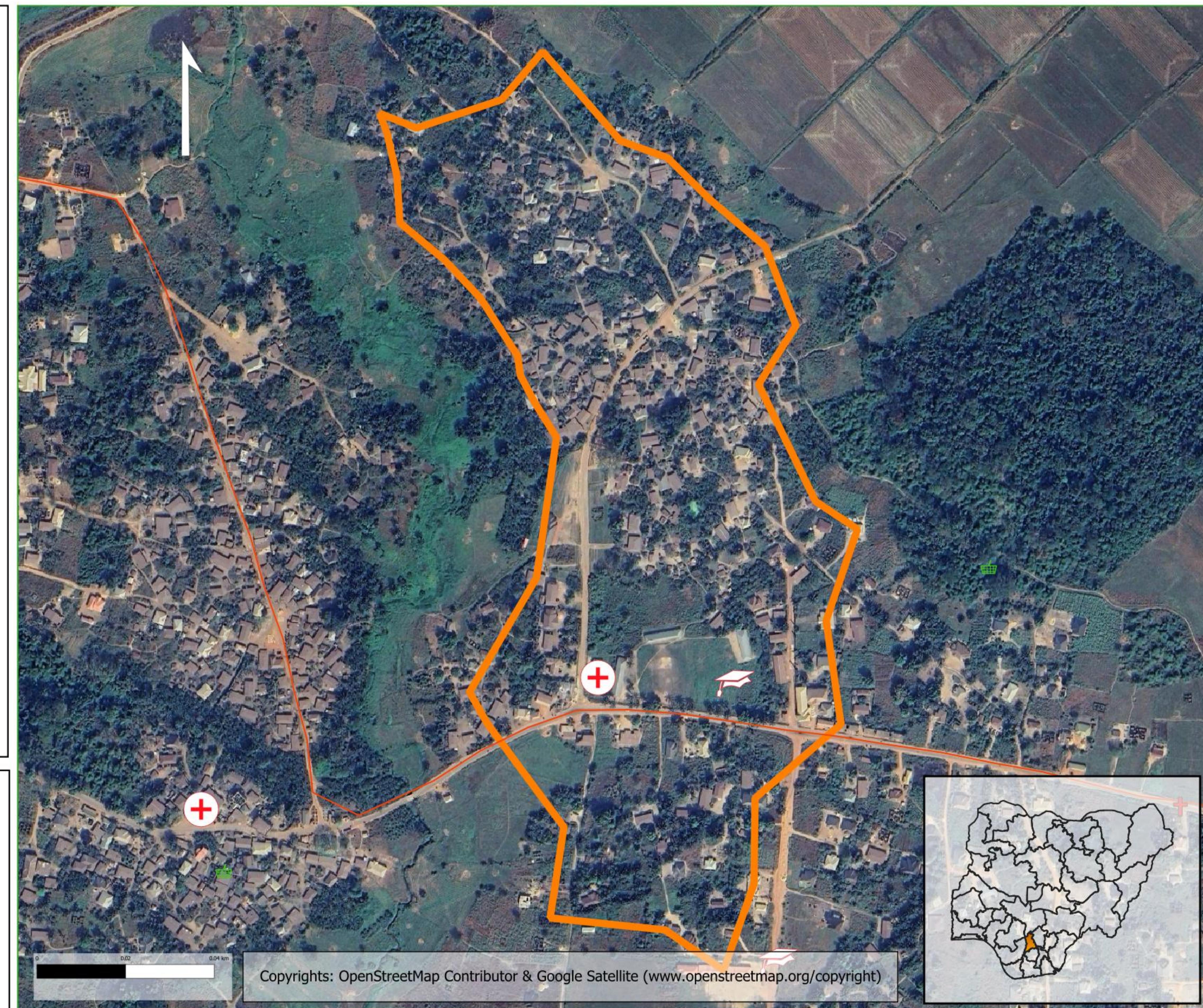
Agriculture

Agricultural productivity	high
Top five dominant crops	cassava, yams, oilpalm, cowpea, maize
Total agricultural area [ha]	11225.73582089552
Total crop value [\$/year]	12251981.316666668
Total crop yield [kg/ha]	34174.383333333324

6.51, 6.98 - Umumbo, Ayamelum, Anambra State

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Climate Data

	Average Temperature (Celcius)	27.2
	Relative Humidity (%)	73
	Worst Average Daily Sunshine (Hrs)	3.7
	Longest Duration of sunset (Hrs)	7.1

Socio-Economic Characteristics

	Presence of Education facilities	true
	Number of School	2
	Presence of Healthcare facilities	true
	Number of PHCs	2
	Nearest Hub	Awka
	Distance to the Hub	34.34
	Relative wealth index (mean)	-0.21
	Multidimensional poverty index (MPI)	0.035
	Population in poverty (MPI - state) [%]	8.6
	Population in severe poverty (MPI - state) [%]	1.06
	MPI deprivation intensity (%)	40.3
	MPI poverty vulnerability (%)	19.75

Data Sources

Climate Data: FAO - <https://fao.org/land-water/databases-and-software/climwat-for-cropwat/en/>
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Armed Conflicts (2020-2022)

	Security Risk	high
	Fatalities within 25 km (battles:riots:violence against civilians:explosions)	24:0:12:0
	Fatalities within 50 km (battles:riots:violence against civilians:explosions)	130:20:119:0

Agriculture

	Agricultural productivity	high
	Top five dominant crops	cassava, oilpalm, yams, cowpea, rice
	Total agricultural area [ha]	11225.73582089552
	Total crop value [\$/year]	9875482.958333334
	Total crop yield [kg/ha]	36775.33333333336

6.38, 9.37 - Obudu Cattle Ranch, Obanliku, Cross River State

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Settlement Statistics

Name	Obudu Cattle Ranch
State	Cross River
LGA	Obanliku
Settlement area [km2]	1161.32
Built-up area coverage [%]	9
Buildings within settlement	249
Large buildings	29
Medium buildings	58
Small buildings	162
Building Density	0.09
Very small structure	83

Electricity Access

Distance to grid [km]	0
Has Nightlight	false
Distance to Night Light	6.37
Main Road Access	false
Lenth of the Road	1.92

Settlement Mini-Grid Viability

Potential PV production [kWh/kWp]	1446.46
Estimated energy demand [kWh/day]	0.42
Average demand per connection [kWh/day]	59.71
Estimated number of connections	141.93

Climate Data

Average Temperature (Celcius)	26.7
Relative Humidity (%)	82
Worst Average Daily Sunshine (Hrs)	2.7
Longest Duration of sunset (Hrs)	6

Socio-Economic Characteristics

Presence of Education facilities	true
Number of School	3
Presence of Healthcare facilities	true
Number of PHCs	1
Nearest Hub	Abakaliki
Distance to the Hub	139.91
Relative wealth index (mean)	-0.04
Multidimensional poverty index (MPI)	0.12
Population in poverty (MPI - state) [%]	29.03
Population in severe poverty (MPI - state) [%]	6.58
MPI deprivation intensity (%)	41.42
MPI poverty vulnerability (%)	25.01

Data Sources

Climate Data: FAO - <https://fao.org/land-water/databases-and-software/climwat-for-cropwat/en/>
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Armed Conflicts (2020-2022)

Security Risk	medium
Fatalities within 25 km (battles:riots:violence against civilians:explosions)	0:0:0:0
Fatalities within 50 km (battles:riots:violence against civilians:explosions)	7:1:23:0

Agriculture

Agricultural productivity	very high
Top five dominant crops	yams, vegetables, cassava, maize, rice
Total agricultural area [ha]	6432.502334630347
Total crop value [\$/year]	6227718.7125
Total crop yield [kg/ha]	48102.80625

5.97, 6.82 - Ozobulu, Ekwusigo, Anambra State

Legend

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Climate Data

	Average Temperature (Celcius)	27.2
	Relative Humidity (%)	73
	Worst Average Daily Sunshine (Hrs)	3.7
	Longest Duration of sunset (Hrs)	7.1

Socio-Economic Characteristics

	Presence of Education facilities	true
	Number of School	2
	Presence of Healthcare facilities	true
	Number of PHCs	2
	Nearest Hub	Onitsha
	Distance to the Hub	18.43
	Relative wealth index (mean)	0.33
	Multidimensional poverty index (MPI)	0.035
	Population in poverty (MPI - state) [%]	8.6
	Population in severe poverty (MPI - state) [%]	1.06
	MPI deprivation intensity (%)	40.3
	MPI poverty vulnerability (%)	19.75

Data Sources

Climate Data: FAO - <https://fao.org/land-water/databases-and-software/climwat-for-cropwat/en/>
 Distribution Lines: Distribution Company (DISCOs) through the Se4All Platform - <https://nigeriase4all.gov.ng/>
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 Roads and Water Lines: Humanitarian Data Exchange - <https://data.humdata.org/dataset/>

Armed Conflicts (2020-2022)

	Security Risk	high
	Fatalities within 25 km (battles:riots:violence against civilians:explosions)	119:19:93:0
	Fatalities within 50 km (battles:riots:violence against civilians:explosions)	373:34:273:3

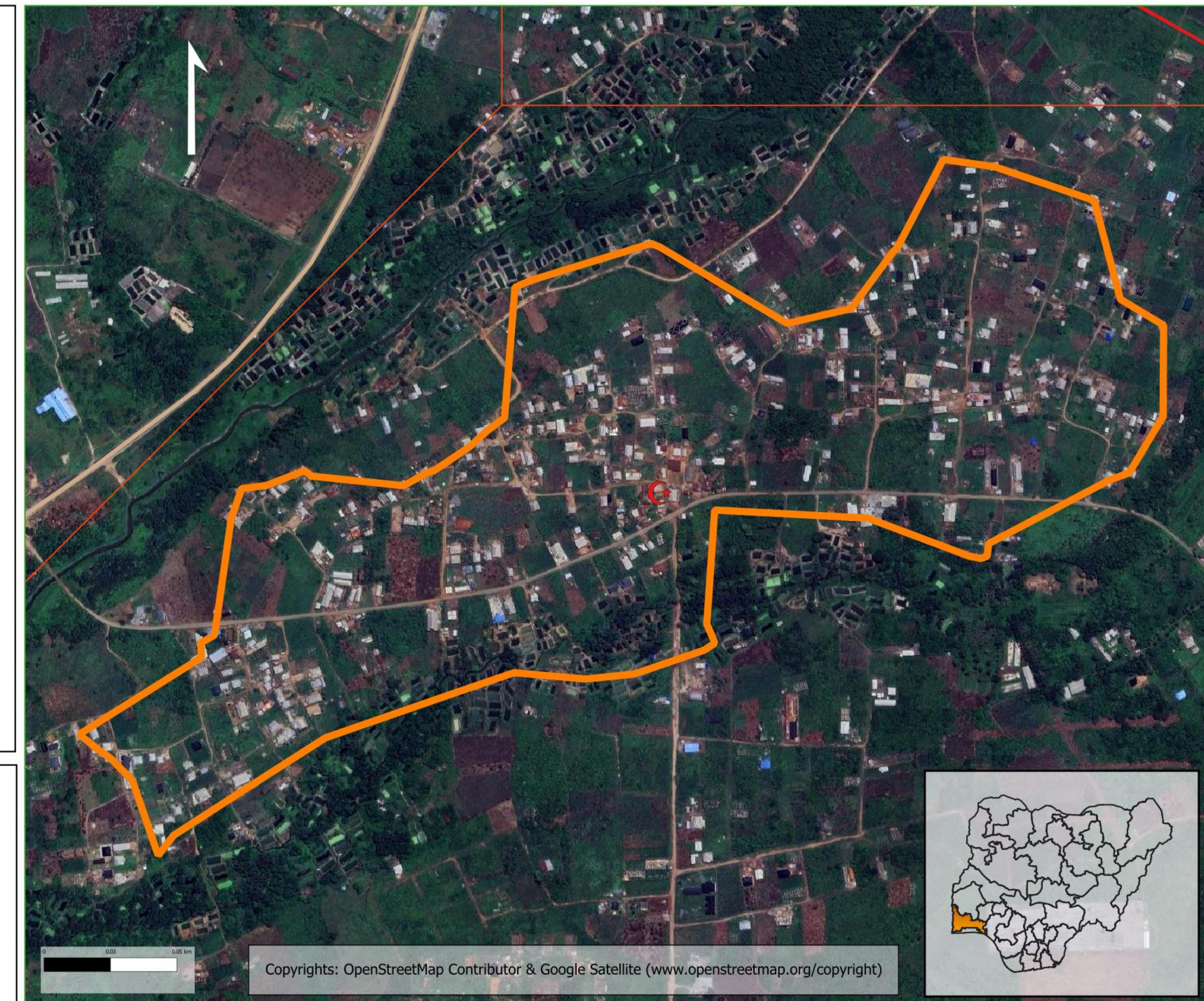
Agriculture

	Agricultural productivity	high
	Top five dominant crops	cassava, yams, cowpea, oilpalm, tropical fruit
	Total agricultural area [ha]	11225.73582089552
	Total crop value [\$/year]	12445211.84
	Total crop yield [kg/ha]	34175.76

6.78, 3.89 - Eriwe, Odogbolu, Ogun State

Legend

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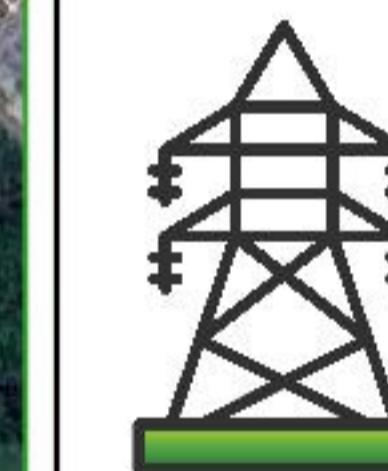
Settlement Statistics

Name	Eriwe
State	Ogun
LGA	Odogbolu
Settlement area [km2]	881.29
Built-up area coverage [%]	6
Buildings within settlement	368
Large buildings	38
Medium buildings	96
Small buildings	234
Building Density	0.06
Very small structure	79



Electricity Access

Distance to grid [km]	0.082
Has Nightlight	false
Distance to Night Light	0.019
Main Road Access	false
Lenth of the Road	4.65



Climate Data

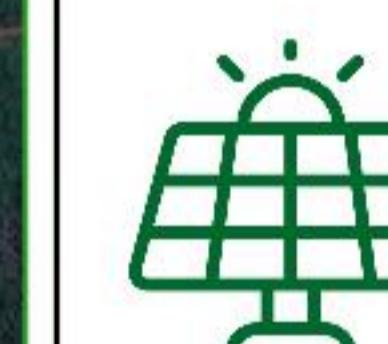
Average Temperature (Celcius)	26.7
Relative Humidity (%)	82
Worst Average Daily Sunshine (Hrs)	2.7
Longest Duration of sunset (Hrs)	6

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Settlement Mini-Grid Viability

Potential PV production [kWh/kWp]	1306.8
Estimated energy demand [kWh/day]	0.42
Average demand per connection [kWh/day]	88.34
Estimated number of connections	209.76



Socio-Economic Characteristics

Presence of Education facilities	false
Number of School	0
Presence of Healthcare facilities	false
Number of PHCs	0
Nearest Hub	Ijebu-Ode
Distance to the Hub	4.29
Relative wealth index (mean)	0.33
Multidimensional poverty index (MPI)	0.049
Population in poverty (MPI - state) [%]	11.33
Population in severe poverty (MPI - state) [%]	3.19
MPI deprivation intensity (%)	43.24
MPI poverty vulnerability (%)	25.86



Data Sources

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 Distribution Lines: Distribution Company (DISCOs) through the Se4All Platform - <https://nigerias4all.gov.ng/>
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 Roads and Water Lines: Humanitarian Data Exchange - <https://data.humdata.org/dataset/>



Armed Conflicts (2020-2022)

Security Risk	high
Fatalities within 25 km (battles:riots:violence against civilians:explosions)	4:0:6:0
Fatalities within 50 km (battles:riots:violence against civilians:explosions)	32:12:17:0



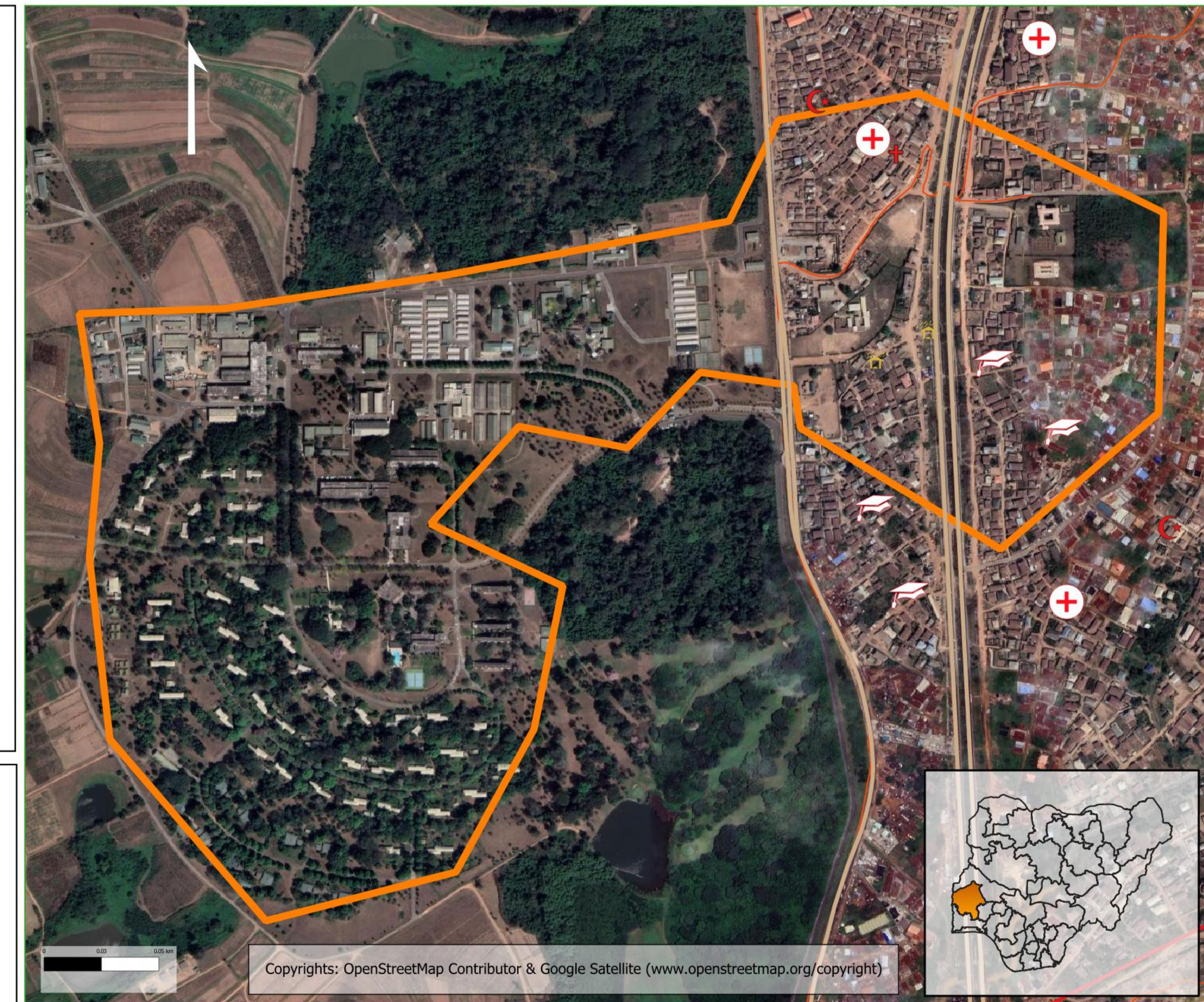
Agriculture

Agricultural productivity	very high
Top five dominant crops	cassava, oilpalm, maize, yams, cocoa
Total agricultural area [ha]	7644.421363636365
Total crop value [\$/year]	5699505.8
Total crop yield [kg/ha]	42803.13

7.5, 3.91 - Idi Ose, Ibadan North, Oyo State

Legend

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Settlement Statistics

Name	Idi Ose
State	Oyo
LGA	Ibadan North
Settlement area [km ²]	967
Built-up area coverage [%]	70
Buildings within settlement	3590
Large buildings	129
Medium buildings	1850
Small buildings	1240
Building Density	
Very small structure	639



Electricity Access

Distance to grid [km]	0
Has Nightlight	true
Distance to Night Light	0
Main Road Access	true
Lenth of the Road	9



Climate Data

Average Temperature (Celcius)	26.7
Relative Humidity (%)	82
Worst Average Daily Sunshine (Hrs)	2.7
Longest Duration of sunset (Hrs)	6

Socio-Economic Characteristics

Presence of Education facilities	
Number of School	6
Presence of Healthcare facilities	
Number of PHCs	3
Nearest Hub	Ibadan
Distance to the Hub	1
Relative wealth index (mean)	13
Multidimensional poverty index (MPI)	
Population in poverty (MPI - state) [%]	4
Population in severe poverty (MPI - state) [%]	1.3
MPI deprivation intensity (%)	
MPI poverty vulnerability (%)	

Data Sources

Climate Data: FAO - <https://fao.org/land-water/databases-and-software/climwat-for-cropwat/en/>
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Armed Conflicts (2020-2022)

Security Risk	High
Fatalities within 25 km (battles:riots:violence against civilians:explosions)	13
Fatalities within 50 km (battles:riots:violence against civilians:explosions)	23

Agriculture

Agricultural productivity	High
Top five dominant crops	Cassava, Yam, Cocoa, Plantain, Banana
Total agricultural area [ha]	
Total crop value [\$/year]	8059876
Total crop yield [kg/ha]	48757



5.95, 8.62 - Okangha Nkpansi, Ikom, Cross River State

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Climate Data

Average Temperature (Celcius)	26.7
Relative Humidity (%)	82
Worst Average Daily Sunshine (Hrs)	2.7
Longest Duration of sunset (Hrs)	6

Settlement Statistics

Name	Okangha Nkpansi
State	Cross River
LGA	Ikom
Settlement area [km2]	1161.32
Built-up area coverage [%]	13
Buildings within settlement	389
Large buildings	83
Medium buildings	111
Small buildings	195
Building Density	0.13
Very small structure	94

Electricity Access

Distance to grid [km]	0
Has Nightlight	true
Distance to Night Light	0
Main Road Access	true
Lenth of the Road	2.24

Settlement Mini-Grid Viability

Potential PV production [kWh/kWp]	1358.34
Estimated energy demand [kWh/day]	0.53
Average demand per connection [kWh/day]	117.29
Estimated number of connections	221.73

Socio-Economic Characteristics

Presence of Education facilities	true
Number of School	4
Presence of Healthcare facilities	true
Number of PHCs	6
Nearest Hub	Abakaliki
Distance to the Hub	70.07
Relative wealth index (mean)	0.33
Multidimensional poverty index (MPI)	0.12
Population in poverty (MPI - state) [%]	29.03
Population in severe poverty (MPI - state) [%]	6.58
MPI deprivation intensity (%)	41.42
MPI poverty vulnerability (%)	25.01

Data Sources

Climate Data: FAO - <https://fao.org/land-water/databases-and-software/climwat-for-cropwat/en/>
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 Transmission Lines and Stations: Transmission Company of Nigeria (TCN) through DRID3 - <https://grid3.gov.ng/datasets>
 Existing Mini Grid: Rural Electrification Agency (REA) - <https://rea.gov.ng/>
 Building Footprint: Facebook & Microsoft Social Amenities (Schools, Factories and Health Facilities): VIDA through GRID3 - <https://grid3.gov.ng/datasets>
 Roads and Water Lines: Humanitarian Data Exchange - <https://data.humdata.org/dataset/>

Armed Conflicts (2020-2022)

Security Risk	high
Fatalities within 25 km (battles:riots:violence against civilians:explosions)	12:0:0:0
Fatalities within 50 km (battles:riots:violence against civilians:explosions)	27:2:13:0

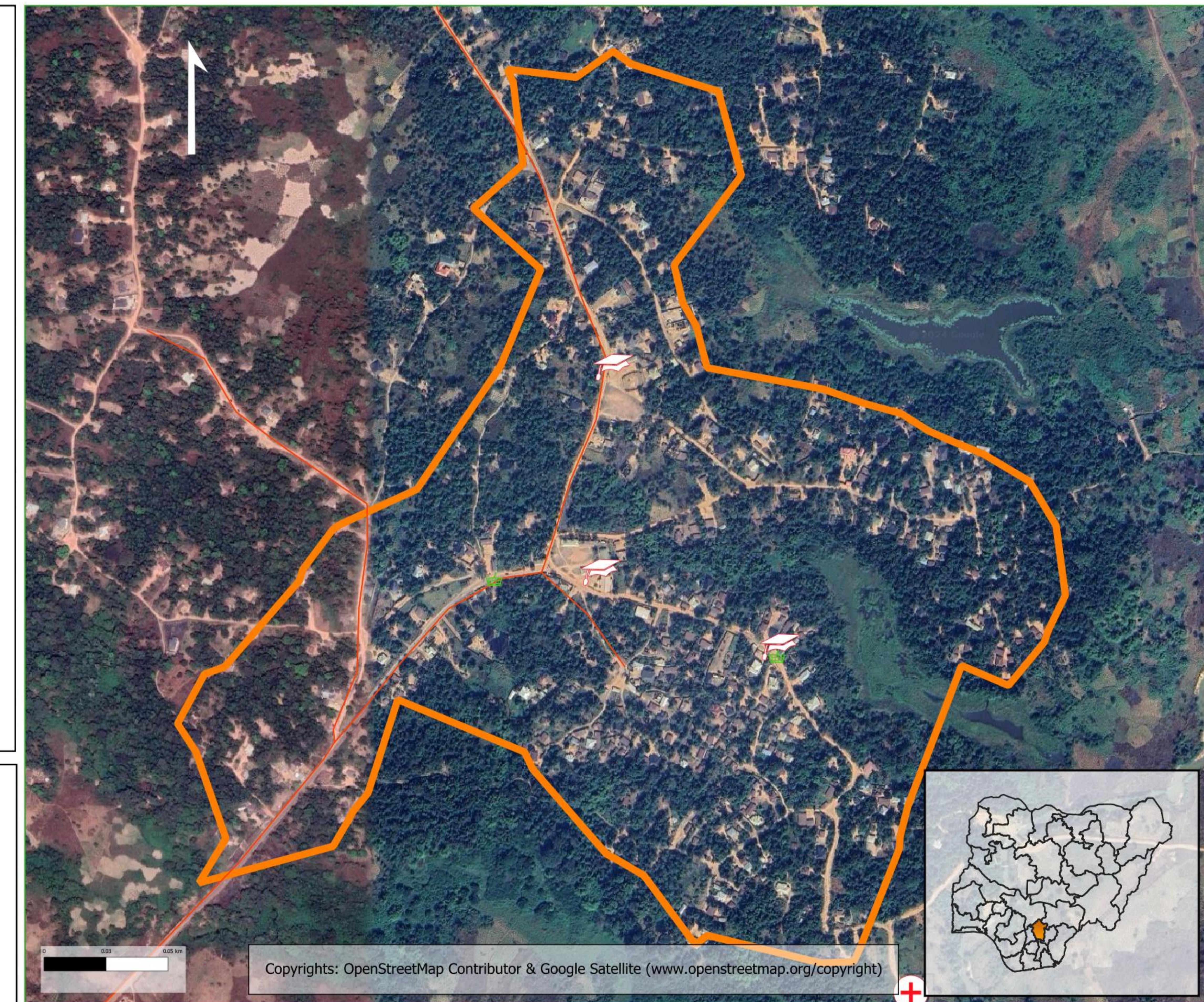
Agriculture

Agricultural productivity	very high
Top five dominant crops	yams, cassava, oilpalm, vegetables, maize
Total agricultural area [ha]	6432.502334630347
Total crop value [\$/year]	8256707.203125001
Total crop yield [kg/ha]	48441.03437499999

6.35, 7.71 - Egu-Oduma, Nkanu East, Enugu State

Legend

- Schools
- Health Facilities
- Markets
- Factories & Industrial Sites
- Mosques
- Churches
- Road Network
- LV Lines
- MV Lines
- HV Lines
- Existing Minigrid
- REA Capital Project Minigrid Sites
- NGN Admin Boundary



Climate Data

Average Temperature (Celcius)	27.2
Relative Humidity (%)	73
Worst Average Daily Sunshine (Hrs)	3.7
Longest Duration of sunset (Hrs)	7.1

Settlement Statistics

Name	Egu-Oduma
State	Enugu
LGA	Nkanu East
Settlement area [km2]	1412.26
Built-up area coverage [%]	5
Buildings within settlement	492
Large buildings	56
Medium buildings	106
Small buildings	330
Building Density	0.05
Very small structure	99



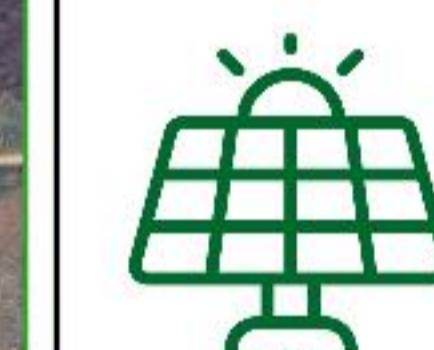
Electricity Access

Distance to grid [km]	0
Has Nightlight	false
Distance to Night Light	1.615
Main Road Access	false
Lenth of the Road	6.52



Settlement Mini-Grid Viability

Potential PV production [kWh/kWp]	1393.91
Estimated energy demand [kWh/day]	0.41
Average demand per connection [kWh/day]	115.2
Estimated number of connections	280.44



Socio-Economic Characteristics

Presence of Education facilities	true
Number of School	3
Presence of Healthcare facilities	true
Number of PHCs	1
Nearest Hub	Enugu
Distance to the Hub	25.2
Relative wealth index (mean)	0.1
Multidimensional poverty index (MPI)	0.087
Population in poverty (MPI - state) [%]	21.74
Population in severe poverty (MPI - state) [%]	3.36
MPI deprivation intensity (%)	40.09
MPI poverty vulnerability (%)	21.1

Data Sources

Climate Data: FAO - <https://fao.org/land-water/databases-and-software/climwat-for-cropwat/en/>
 Distribution Lines: Distribution Company (DISCOs) through the Se4All Platform - <https://nigerias4all.gov.ng/>
 Transmission Lines and Stations: Transmission Company of Nigeria (TCN) through DRID3 - <https://grid3.gov.ng/datasets>
 Existing Mini Grid: Rural Electrification Agency (REA) - <https://rea.gov.ng/>
 Building Footprint: Facebook & Microsoft
 Social Amenities (Schools, Factories and Health Facilities): VIDA through GRID3 - <https://grid3.gov.ng/datasets>
 Roads and Water Lines: Humanitarian Data Exchange - <https://data.humdata.org/dataset/>

Armed Conflicts (2020-2022)

Security Risk	high
Fatalities within 25 km (battles:riots:violence against civilians:explosions)	55:5:35:0
Fatalities within 50 km (battles:riots:violence against civilians:explosions)	120:16:194:0

Agriculture

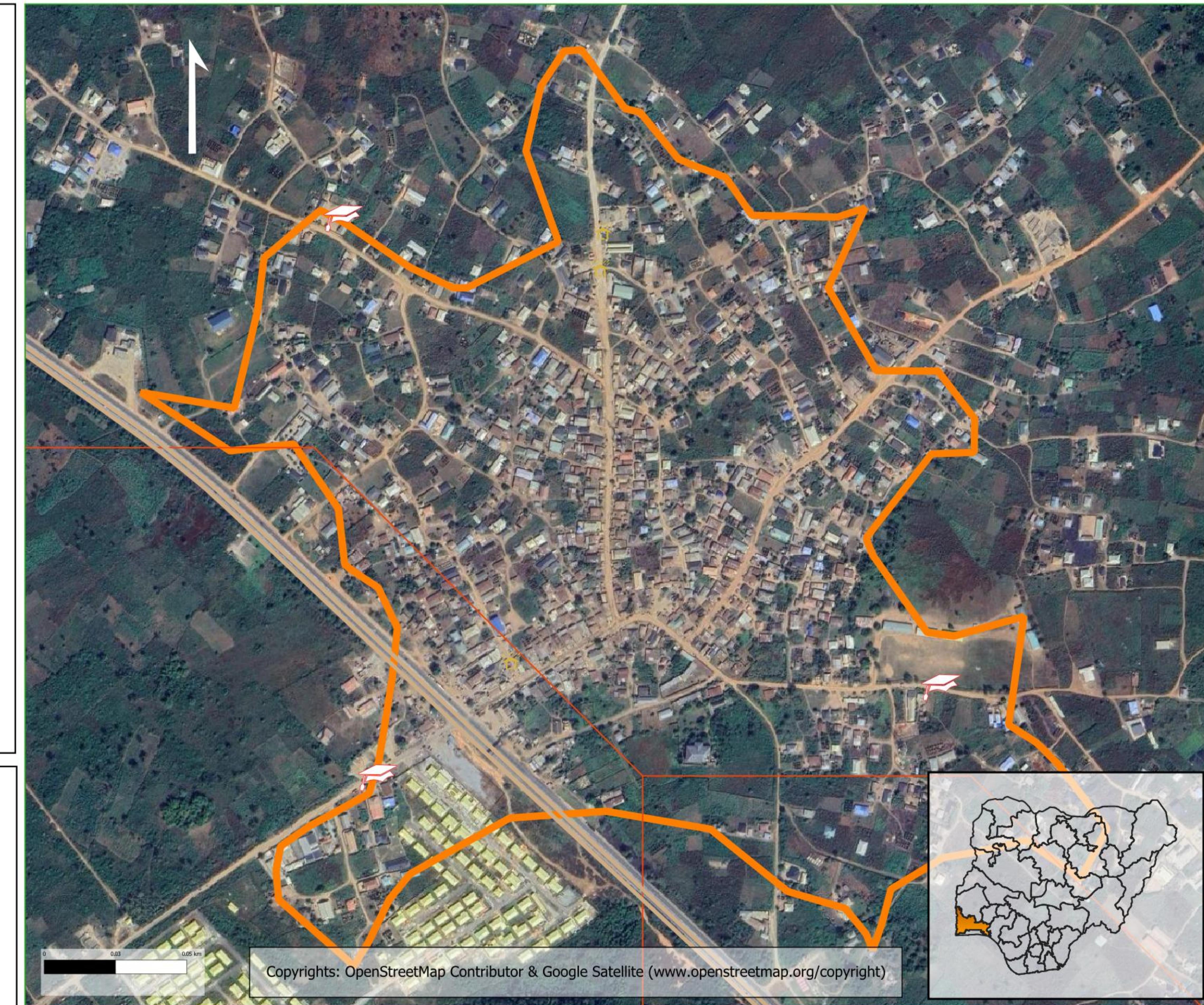
Agricultural productivity	very high
Top five dominant crops	yams, cassava, oilpalm, tropical fruit, maize
Total agricultural area [ha]	12058.59901960784
Total crop value [\$/year]	23281542.15
Total crop yield [kg/ha]	48486.625



7.04, 3.45 - Abule Oluwo, Obafemi-Owode, Ogun State

Legend

- Schools
- Health Facilities
- Markets
- Factories & Industrial Sites
- Mosques
- Churches
- Road Network
- LV Lines
- MV Lines
- HV Lines
- Existing Minigrid
- REA Capital Project Minigrid Sites
- NGN Admin Boundary



Settlement Statistics

Name	Abule Oluwo
State	Ogun
LGA	Obafemi-Owode
Settlement area [km2]	881.29
Built-up area coverage [%]	11
Buildings within settlement	716
Large buildings	130
Medium buildings	193
Small buildings	393
Building Density	0.11
Very small structure	203

Electricity Access

Distance to grid [km]	0
Has Nightlight	true
Distance to Night Light	0
Main Road Access	true
Lenth of the Road	8.58

Settlement Mini-Grid Viability

Potential PV production [kWh/kWp]	1330.24
Estimated energy demand [kWh/day]	0.49
Average demand per connection [kWh/day]	201.63
Estimated number of connections	408.12

Climate Data

Average Temperature (Celcius)	26.7
Relative Humidity (%)	82
Worst Average Daily Sunshine (Hrs)	2.7
Longest Duration of sunset (Hrs)	6



Socio-Economic Characteristics

Presence of Education facilities	true
Number of School	3
Presence of Healthcare facilities	false
Number of PHCs	0
Nearest Hub	Abeokuta
Distance to the Hub	17.04
Relative wealth index (mean)	-0.28
Multidimensional poverty index (MPI)	0.049
Population in poverty (MPI - state) [%]	11.33
Population in severe poverty (MPI - state) [%]	3.19
MPI deprivation intensity (%)	43.24
MPI poverty vulnerability (%)	25.86



Data Sources

Climate Data: FAO - <https://fao.org/land-water/databases-and-software/climwat-for-cropwat/en/>
 Distribution Lines: Distribution Company (DISCOs) through the Se4All Platform - <https://nigerias4all.gov.ng/>
 Transmission Lines and Stations: Transmission Company of Nigeria (TCN) through DRID3 - <https://grid3.gov.ng/datasets>
 Existing Mini Grid: Rural Electrification Agency (REA) - <https://rea.gov.ng/>
 Building Footprint: Facebook & Microsoft
 Social Amenities (Schools, Factories and Health Facilities): VIDA through GRID3 - <https://grid3.gov.ng/datasets>
 Roads and Water Lines: Humanitarian Data Exchange - <https://data.humdata.org/dataset/>

Armed Conflicts (2020-2022)

Security Risk	high
Fatalities within 25 km (battles:riots:violence against civilians:explosions)	19:1:11:0
Fatalities within 50 km (battles:riots:violence against civilians:explosions)	69:16:35:0



Agriculture

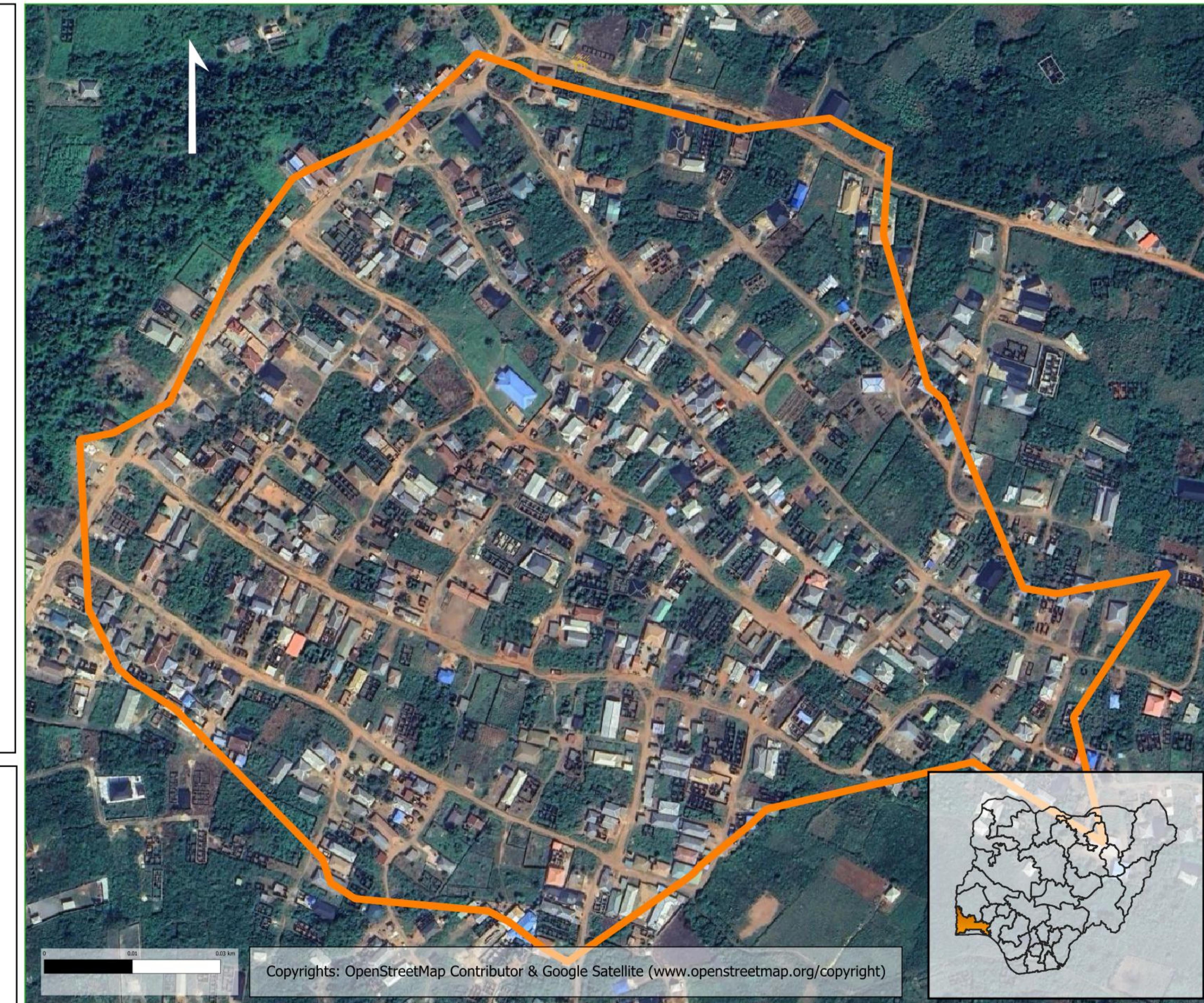
Agricultural productivity	very high
Top five dominant crops	oilpalm, cocoa, cassava, tropical fruit, maize
Total agricultural area [ha]	7644.421363636365
Total crop value [\$/year]	7506904.46
Total crop yield [kg/ha]	45545.312



6.9, 3.45 - Onidundu, Obafemi-Owode, Ogun State

Legend

- Schools
- Health Facilities
- Markets
- Factories & Industrial Sites
- Mosques
- Churches
- Road Network
- LV Lines
- MV Lines
- HV Lines
- Existing Minigrid
- REA Capital Project Minigrid Sites
- NGN Admin Boundary



Settlement Statistics

Name	Onidundu
State	Ogun
LGA	Obafemi-Owode
Settlement area [km2]	881.29
Built-up area coverage [%]	9
Buildings within settlement	265
Large buildings	16
Medium buildings	46
Small buildings	203
Building Density	0.09
Very small structure	69

Electricity Access

Distance to grid [km]	1.025
Has Nightlight	true
Distance to Night Light	0
Main Road Access	false
Lenth of the Road	3.73

Settlement Mini-Grid Viability

Potential PV production [kWh/kWp]	1318.17
Estimated energy demand [kWh/day]	0.35
Average demand per connection [kWh/day]	52.18
Estimated number of connections	151.05

Climate Data

Average Temperature (Celcius)	26.7
Relative Humidity (%)	82
Worst Average Daily Sunshine (Hrs)	2.7
Longest Duration of sunset (Hrs)	6

Socio-Economic Characteristics

Presence of Education facilities	false
Number of School	0
Presence of Healthcare facilities	false
Number of PHCs	0
Nearest Hub	Sagamu
Distance to the Hub	22.32
Relative wealth index (mean)	0.06
Multidimensional poverty index (MPI)	0.049
Population in poverty (MPI - state) [%]	11.33
Population in severe poverty (MPI - state) [%]	3.19
MPI deprivation intensity (%)	43.24
MPI poverty vulnerability (%)	25.86

Data Sources

Climate Data: FAO - <https://fao.org/land-water/databases-and-software/climwat-for-cropwat/en/>
 Distribution Lines: Distribution Company (DISCOs) through the Se4All Platform - <https://nigerias4all.gov.ng/>
 Transmission Lines and Stations: Transmission Company of Nigeria (TCN) through DRID3 - <https://grid3.gov.ng/datasets>
 Existing Mini Grid: Rural Electrification Agency (REA) - <https://rea.gov.ng/>
 Building Footprint: Facebook & Microsoft Social Amenities (Schools, Factories and Health Facilities): VIDA through GRID3 - <https://grid3.gov.ng/datasets>
 Roads and Water Lines: Humanitarian Data Exchange - <https://data.humdata.org/dataset/>

Armed Conflicts (2020-2022)

Security Risk	high
Fatalities within 25 km (battles:riots:violence against civilians:explosions)	15:8:1:0
Fatalities within 50 km (battles:riots:violence against civilians:explosions)	88:47:51:0
Agriculture	
Agricultural productivity	very high
Top five dominant crops	oilpalm, cocoa, cassava, tropical fruit, maize
Total agricultural area [ha]	7644.421363636365
Total crop value [\$/year]	7506904.46
Total crop yield [kg/ha]	45545.312



5.23, 7.9 - Ikot Udo Obioku, Ibiono Ibom, Akwa Ibom State

Legend

- Schools
- Health Facilities
- Markets
- Factories & Industrial Sites
- Mosques
- Churches
- Road Network
- LV Lines
- MV Lines
- HV Lines
- Existing Minigrid
- REA Capital Project Minigrid Sites
- NGN Admin Boundary



Settlement Statistics

Name	Ikot Udo Obioku
State	Akwa Ibom
LGA	Ibiono Ibom
Settlement area [km2]	631.5
Built-up area coverage [%]	10
Buildings within settlement	208
Large buildings	52
Medium buildings	65
Small buildings	91
Building Density	0.1
Very small structure	30



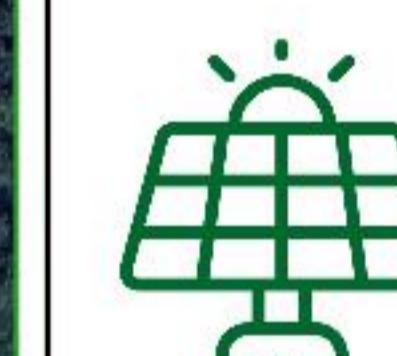
Electricity Access

Distance to grid [km]	1.234
Has Nightlight	false
Distance to Night Light	2.247
Main Road Access	false
Lenth of the Road	6.78



Settlement Mini-Grid Viability

Potential PV production [kWh/kWp]	1299.62
Estimated energy demand [kWh/day]	0.57
Average demand per connection [kWh/day]	67.94
Estimated number of connections	118.56



Climate Data

Average Temperature (Celcius)	26.7
Relative Humidity (%)	82
Worst Average Daily Sunshine (Hrs)	2.7
Longest Duration of sunset (Hrs)	6

Socio-Economic Characteristics

Presence of Education facilities	false
Number of School	0
Presence of Healthcare facilities	true
Number of PHCs	2
Nearest Hub	Ikot Ekpene
Distance to the Hub	20.62
Relative wealth index (mean)	0.42
Multidimensional poverty index (MPI)	0.085
Population in poverty (MPI - state) [%]	20.8
Population in severe poverty (MPI - state) [%]	3.7
MPI deprivation intensity (%)	41.11
MPI poverty vulnerability (%)	18.9

Data Sources

Climate Data: FAO - <https://fao.org/land-water/databases-and-software/climwat-for-cropwat/en/>
 Distribution Lines: Distribution Company (DISCOs) through the Se4All Platform - <https://nigerias4all.gov.ng/>
 Transmission Lines and Stations: Transmission Company of Nigeria (TCN) through DRID3 - <https://grid3.gov.ng/datasets>
 Existing Mini Grid: Rural Electrification Agency (REA) - <https://rea.gov.ng/>
 Building Footprint: Facebook & Microsoft
 Social Amenities (Schools, Factories and Health Facilities): VIDA through GRID3 - <https://grid3.gov.ng/datasets>
 Roads and Water Lines: Humanitarian Data Exchange - <https://data.humdata.org/dataset/>



Armed Conflicts (2020-2022)

Security Risk	high
Fatalities within 25 km (battles:riots:violence against civilians:explosions)	22:12:5:3
Fatalities within 50 km (battles:riots:violence against civilians:explosions)	51:18:62:3



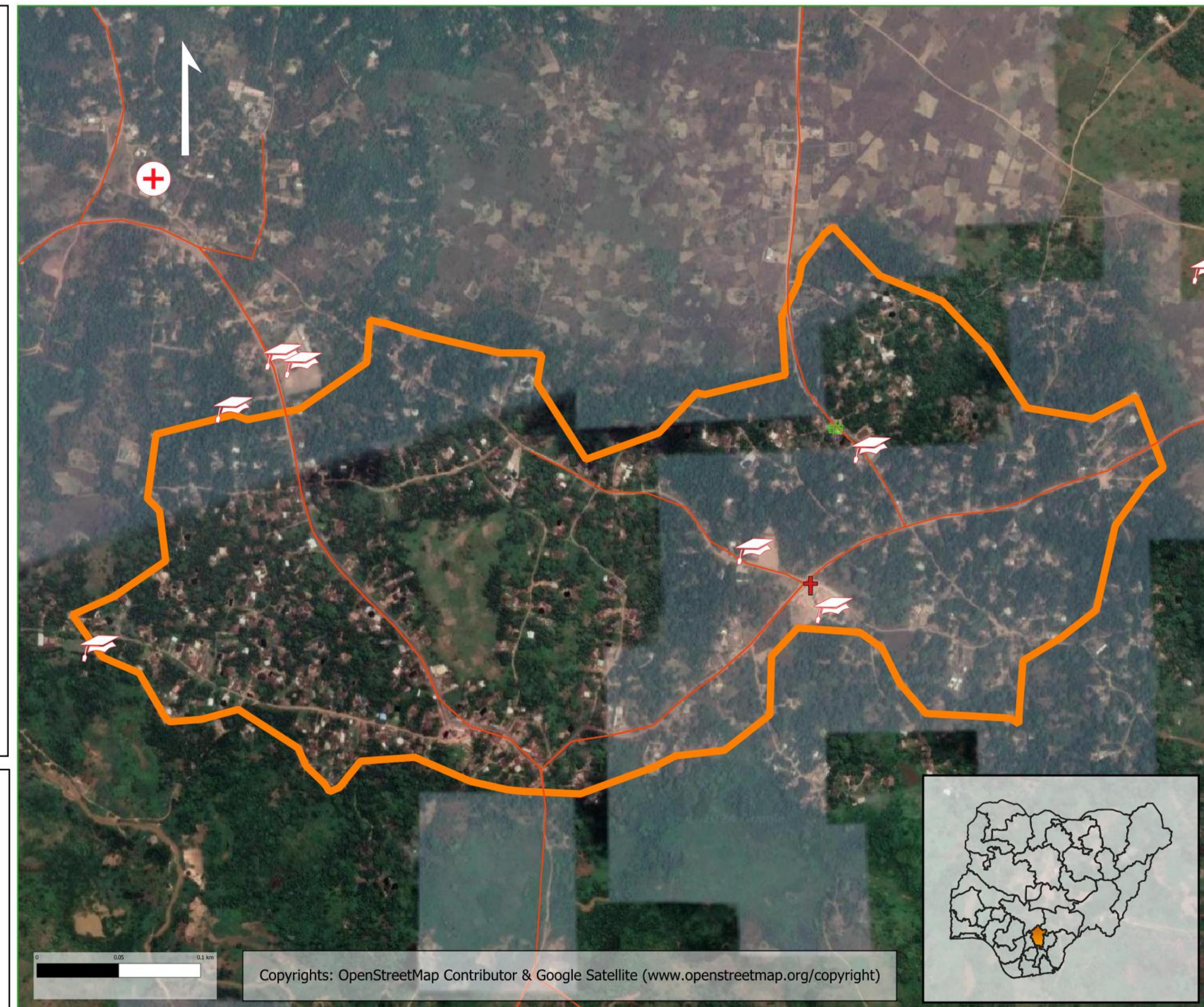
Agriculture

Agricultural productivity	high
Top five dominant crops	oilpalm, cassava, yams, vegetables, rice
Total agricultural area [ha]	13734.096703296702
Total crop value [\$/year]	10087786.15
Total crop yield [kg/ha]	37923.95

6.33, 7.68 - Amagunze, Nkanu East, Enugu State

Legend

- Schools
- Health Facilities
- Markets
- Factories & Industrial Sites
- Mosques
- Churches
- Road Network
- LV Lines
- MV Lines
- HV Lines
- Existing Minigrid
- REA Capital Project Minigrid Sites
- NGN Admin Boundary



Settlement Statistics

Name	Amagunze
State	Enugu
LGA	Nkanu East
Settlement area [km2]	1412.26
Built-up area coverage [%]	5
Buildings within settlement	882
Large buildings	121
Medium buildings	226
Small buildings	535
Building Density	0.05
Very small structure	175

Electricity Access

Distance to grid [km]	0
Has Nightlight	true
Distance to Night Light	0
Main Road Access	false
Lenth of the Road	9.86

Settlement Mini-Grid Viability

Potential PV production [kWh/kWp]	1391.6
Estimated energy demand [kWh/day]	0.45
Average demand per connection [kWh/day]	225.77
Estimated number of connections	502.74

Climate Data

Average Temperature (Celcius)	27.2
Relative Humidity (%)	73
Worst Average Daily Sunshine (Hrs)	3.7
Longest Duration of sunset (Hrs)	7.1



Socio-Economic Characteristics

Presence of Education facilities	true
Number of School	10
Presence of Healthcare facilities	false
Number of PHCs	0
Nearest Hub	Enugu
Distance to the Hub	22.42
Relative wealth index (mean)	0.13
Multidimensional poverty index (MPI)	0.087
Population in poverty (MPI - state) [%]	21.74
Population in severe poverty (MPI - state) [%]	3.36
MPI deprivation intensity (%)	40.09
MPI poverty vulnerability (%)	21.1

Data Sources

Climate Data: FAO - <https://fao.org/land-water/databases-and-software/climwat-for-cropwat/en/>
 Distribution Lines: Distribution Company (DISCOs) through the Se4All Platform - <https://nigerias4all.gov.ng/>
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Armed Conflicts (2020-2022)

Security Risk	high
Fatalities within 25 km (battles:riots:violence against civilians:explosions)	52:6:37:0
Fatalities within 50 km (battles:riots:violence against civilians:explosions)	124:16:198:0



Agriculture

Agricultural productivity	very high
Top five dominant crops	yams, cassava, oilpalm, tropical fruit, maize
Total agricultural area [ha]	12058.59901960784
Total crop value [\$/year]	23281542.15
Total crop yield [kg/ha]	48486.625