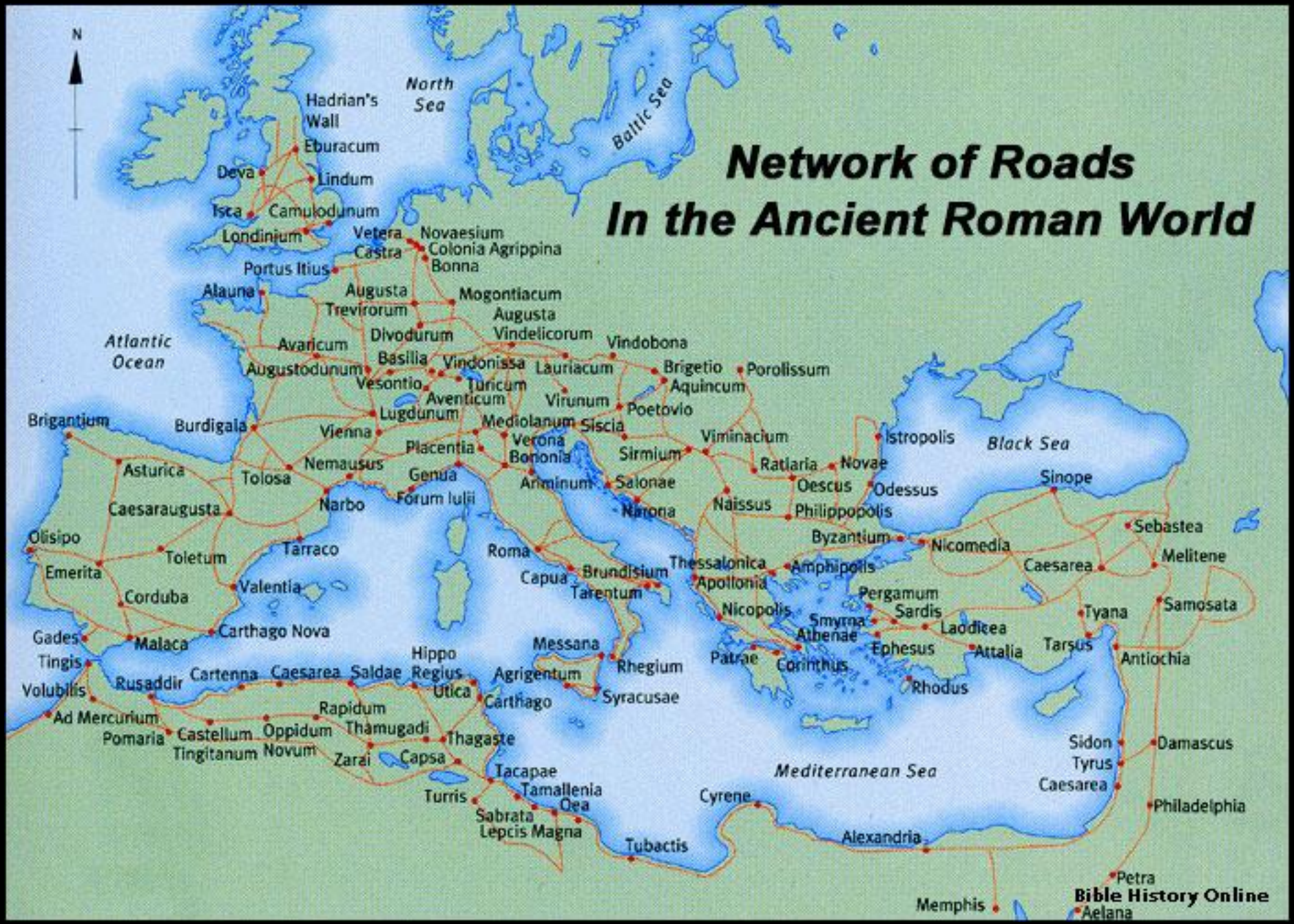
@_couper

# Big Decisions. Better Systems.

How recent changes
can transform central planning
in the developing world

Remember
Westgate 2013

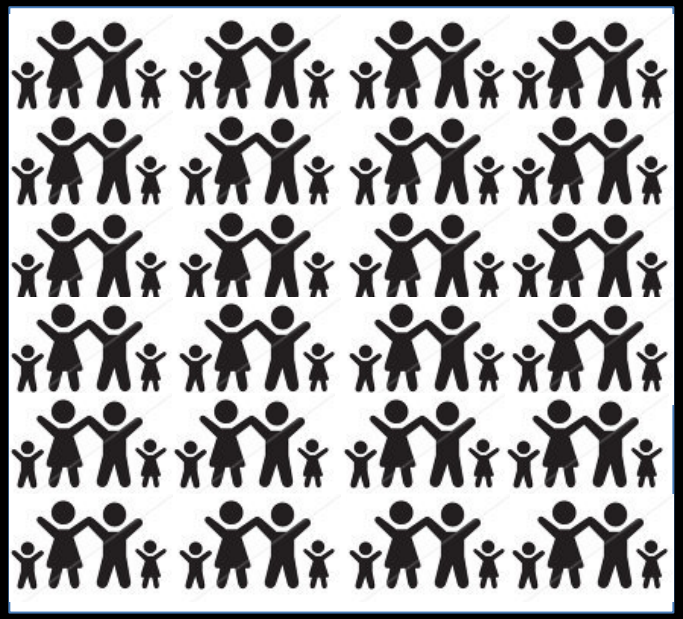
There is NO reason to operate
in a data desert


Network of Roads
In the Ancient Roman World
N
North Sea
Baltic Sea
Atlantic Ocean
Black Sea
Mediterranean Sea
Hadrian's Wall
Eburacum
Deva
Lindum
Isca
Camulodunum
Londinium
Vetera
Novaesium
Castra
Colonia Agrippina
Bonna
Portus Itius
Alauna
Augusta Trevirorum
Mogontiacum
Augusta Vindelicorum
Divodurum
Avaricum
Vindobona
Basilia
Vindonissa
Lauriacum
Brigetio
Porolissum
Augustodunum
Vesontio
Turicum
Aquincum
Aventicum
Virunum
Poetovio
Lugdunum
Mediolanum
Siscia
Brigantium
Burdigala
Vienna
Verona
Viminacium
Istropolis
Placentia
Bononia
Sirmium
Ratiaria
Novae
Asturica
Nemausus
Tolosa
Genua
Arminum
Salonae
Oescus
Odessus
Sinope
Forum Iulii
Naissus
Caesaraugusta
Narbo
Narona
Philippopolis
Olisipo
Byzantium
Nicomedia
Sebastea
Toletum
Tarraco
Roma
Thessalonica
Amphipolis
Caesarea
Melitene
Emerita
Capua
Brundisium
Apollonia
Valentia
Tarentum
Pergamum
Corduba
Nicopolis
Sardis
Tyana
Samosata
Smyrna
Laodicea
Gades
Carthago Nova
Malaca
Athenae
Ephesus
Attalia
Tarsus
Antiochia
Tingis
Messana
Hippo Regius
Patrae
Corinthus
Rhegium
Cartenna
Caesarea
Saldae
Agrigentum
Rhodus
Volubilis
Rusaddir
Utica
Syracusae
Carthago
Rapidum
Ad Mercurium
Thamugadi
Pomaria
Castellum
Oppidum
Thagaste
Tingitanum
Novum
Zarai
Capsa
Sidon
Damascus
Tacapae
Tyrus
Tamallenia
Caesarea
Turris
Cyrene
Oea
Philadelphia
Sabrata
Lepcis Magna
Alexandria
Tubactis
Petra
Memphis
Aelana
Bible History Online

# Hadrian's Wall

There is NO reason to operate
in a data desert

# Why big decisions?



$$$$

Lots of people | Little Resources

# Why big decisions?

Data-driven decision making → Justifiable resource allocations

(increasing efficiency)

WFP
UN

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አጠባበቅ ጣቢያ
SHINSHICHO
HEALTH CENTER

# Requirements for good decision making

- Cheap data collection
- Cheap, simple analysis
- Automation

# Ecosystem Changes

Increase in…

- Options
- Software quality
- External support
- Data connectivity

Decrease in…

- Software costs
- Required tech literacy
- Hardware costs (cheap android devices)

# Today's Mobile Data Collection Ecosystem

Diversified | Supported | Growing| Low-cost

Drinking from  firehouse

# Channeling the firehouse

# Today's Data Analysis Ecosystem

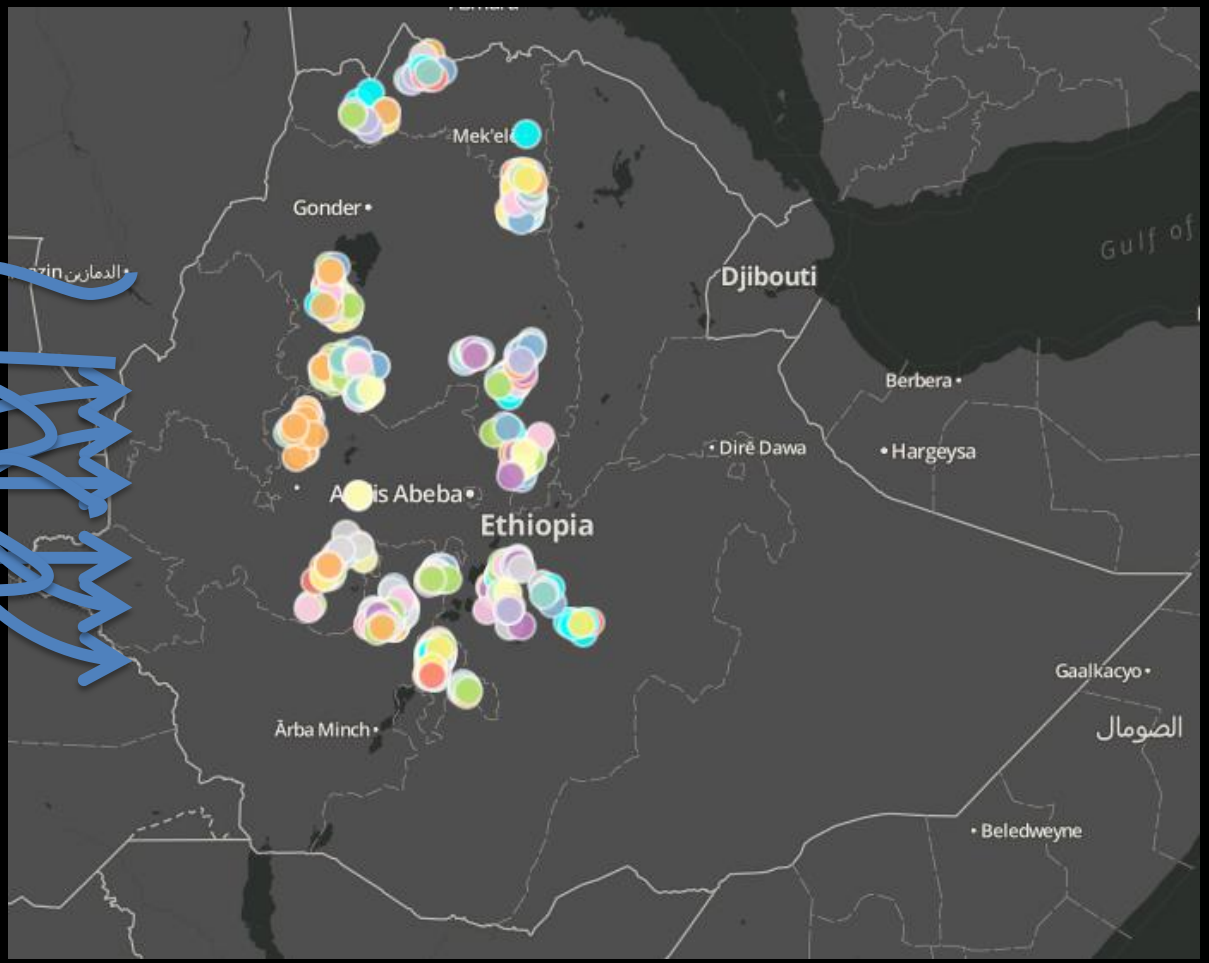
Robust | Open standards| Growing| Low-cost

# Challenges facing the Ethiopian Ministry of Agriculture and Rural Development

Current status?

# Challenges facing the Ethiopian Ministry of Agriculture and Rural Development

Where prioritize?

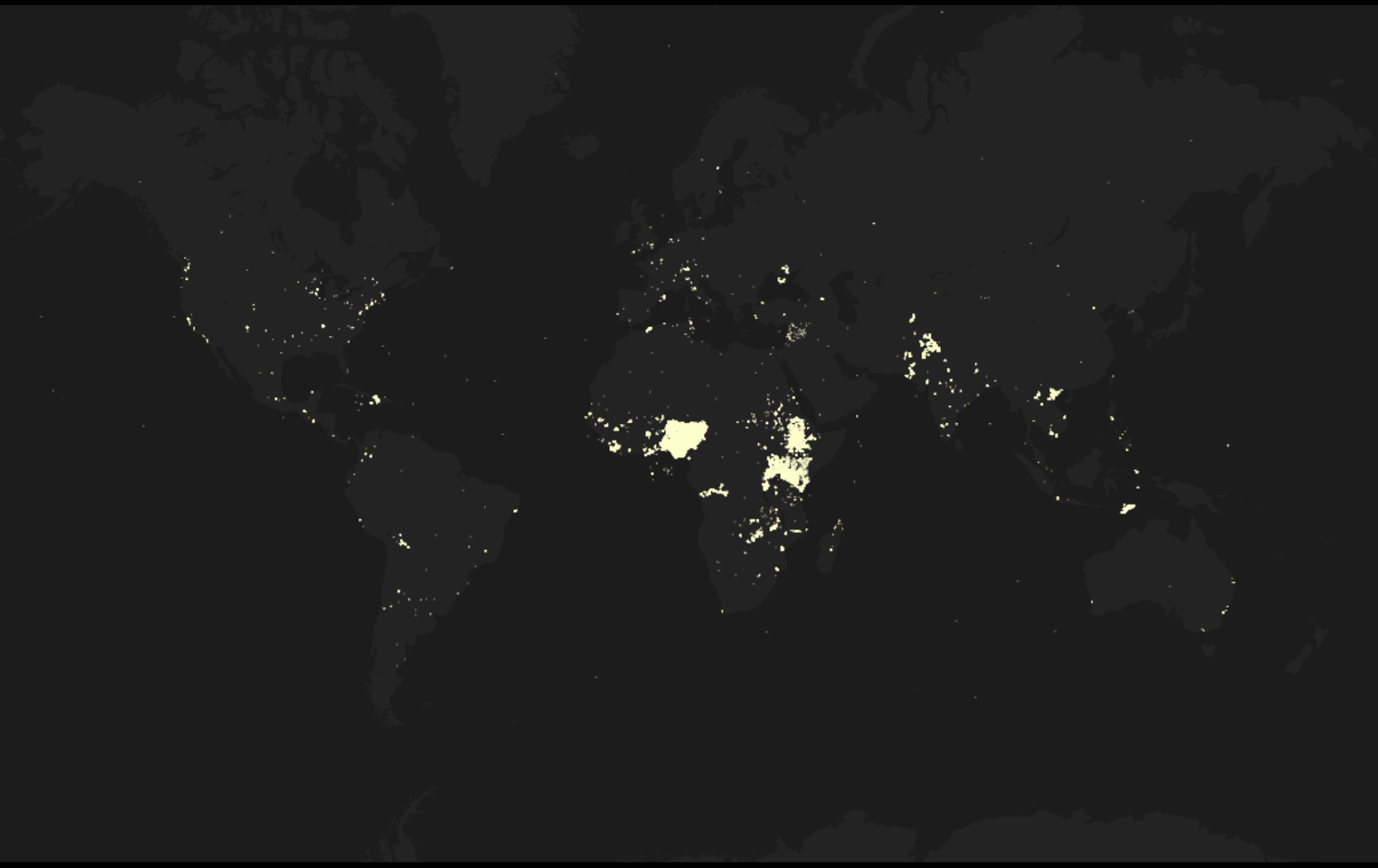


formhub

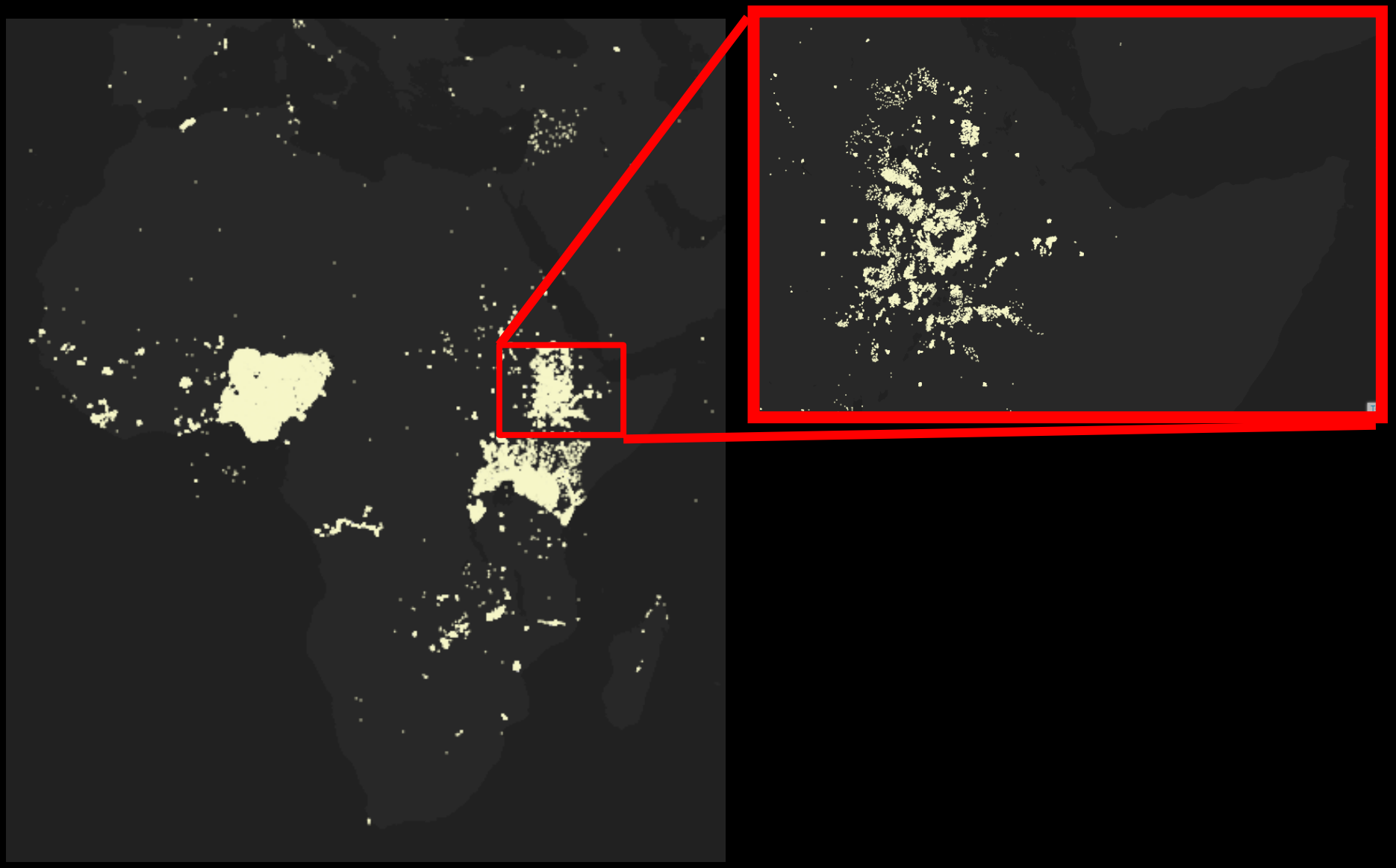
Collect

Farming Training Center
Woreda Office of Admin
Woreda Office of Agriculture
Woreda Office of Cooperatives
Woreda Office of Trade
Primary Cooperative
Cooperative Union
Microfinance Organization
SACCO

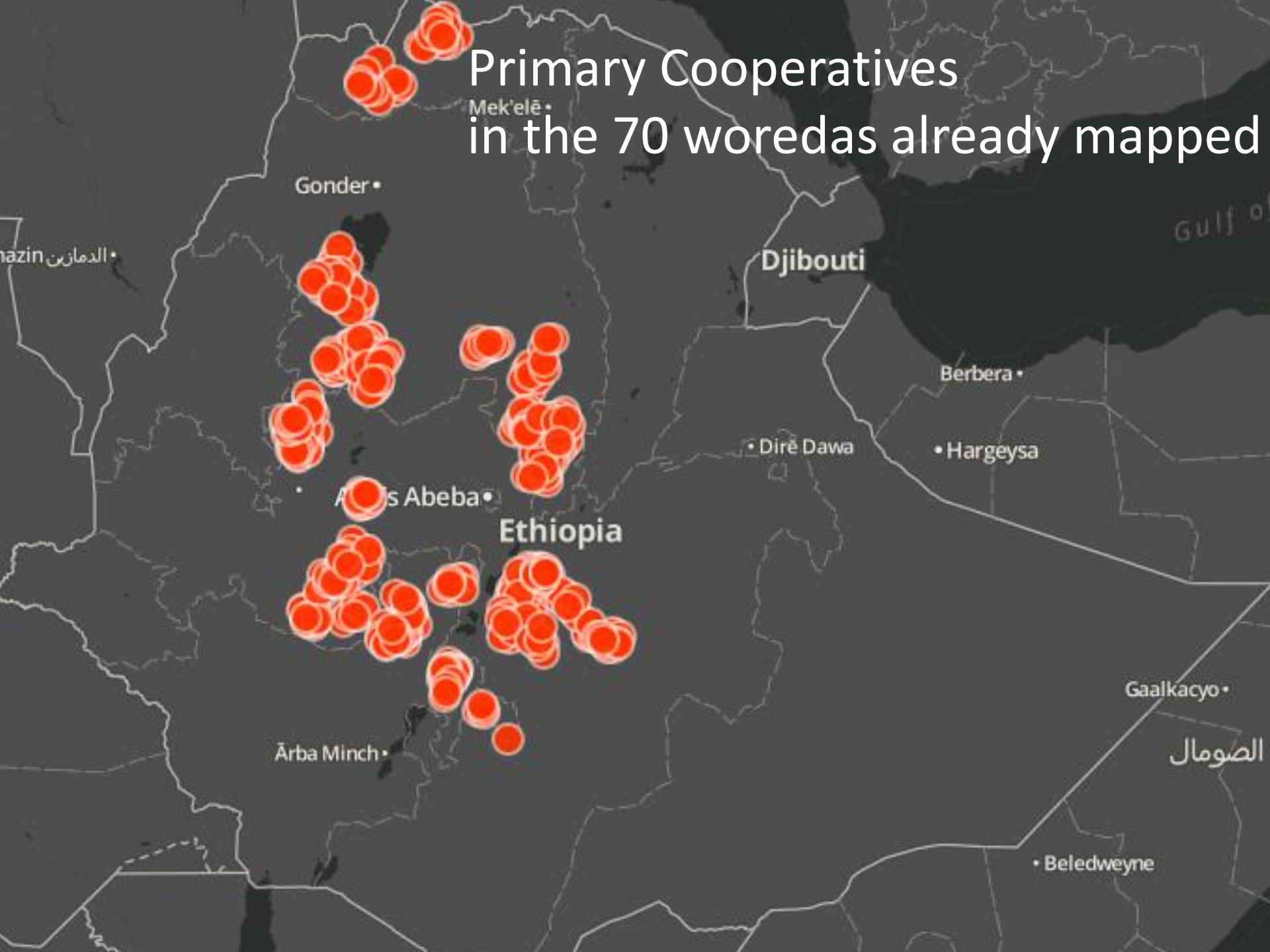
>1 million data records have been collected using formhub.

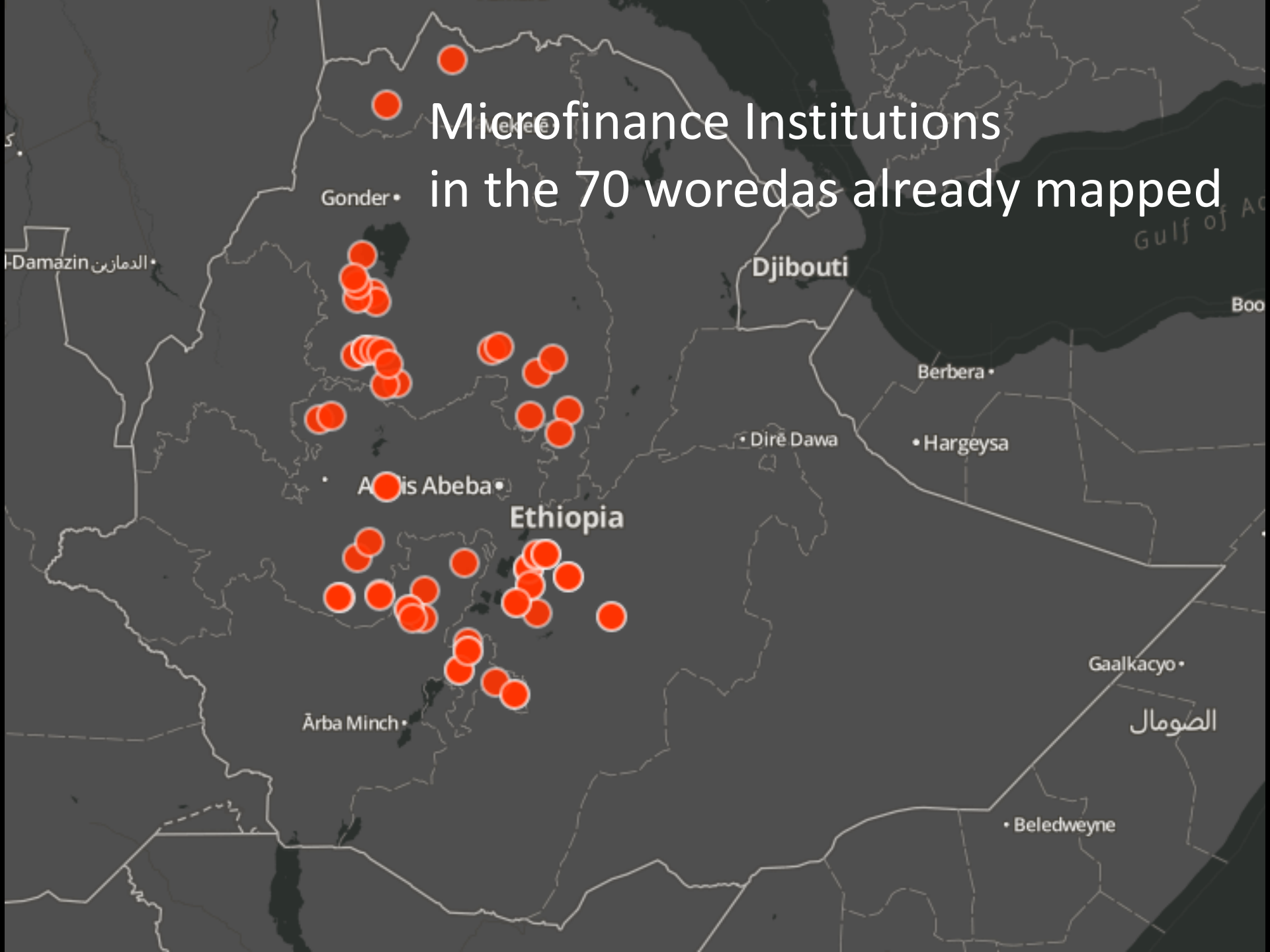


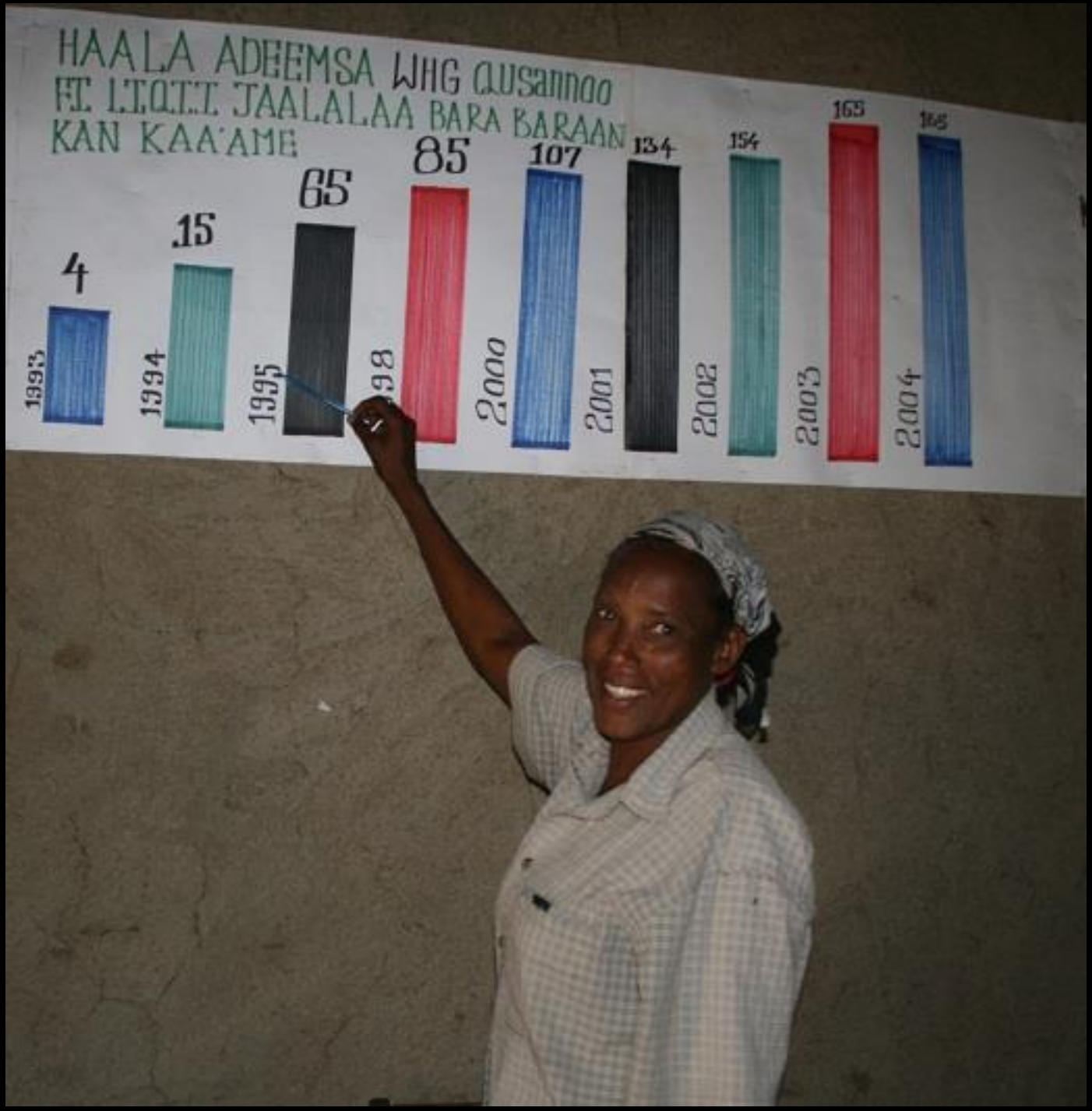
Approximately 34,000 have been collected in Ethiopia.



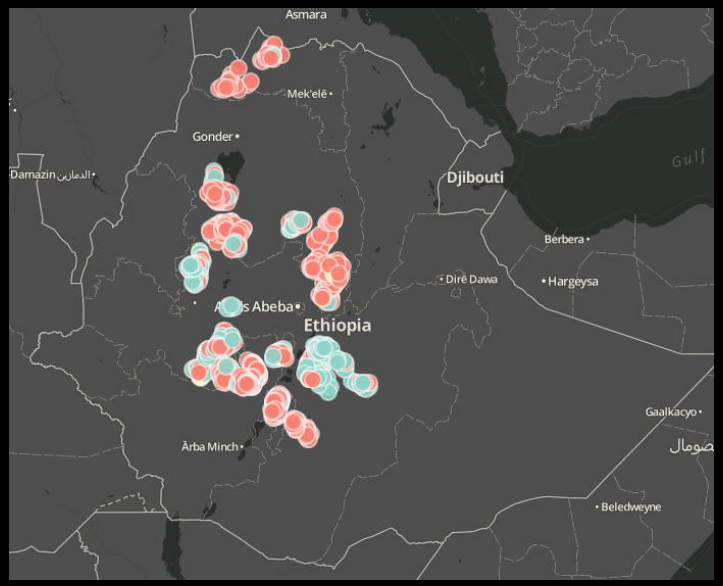
Farming Training Centers
in the 70 woredas already mapped
Asmara
Mek'elē
Gonder
Djibouti
Berbera
Dirē Dawa
Hargeysa
Ethiopia
Ārba Minch
Gaalkacyo
الصومال
Beledweyne


Primary Cooperatives
in the 70 woredas already mapped
Mek'elē
Gonder
Djibouti
Berbera
Dirē Dawa
Hargeysa
Ethiopia
Ārba Minch
Gaalkacyo
الصومال
Beledweyne

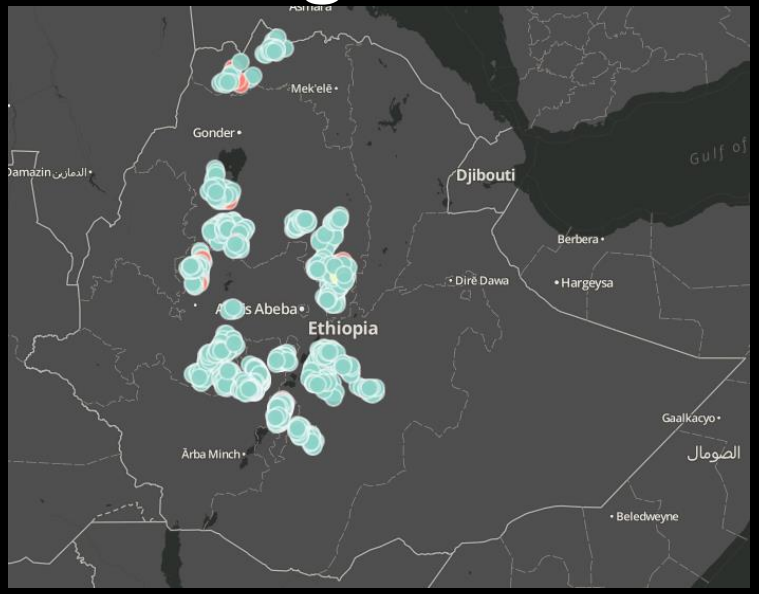

Microfinance Institutions
in the 70 woredas already mapped
Gonder
Damazin
الدمازين
Djibouti
Gulf of A
Boo
Berbera
Dirē Dawa
Hargeysa
Addis Abeba
Ethiopia
Gaalkacyo
الصومال
Ārba Minch
Beledweyne


HAALA ADEEMSA WHG QUSANNOO
FI LIQII JAALALAA BARA BARAAN
KAN KAA'AME
4
15
65
85
107
134
154
165
1993
1994
1995
2000
2001
2002
2003
2004

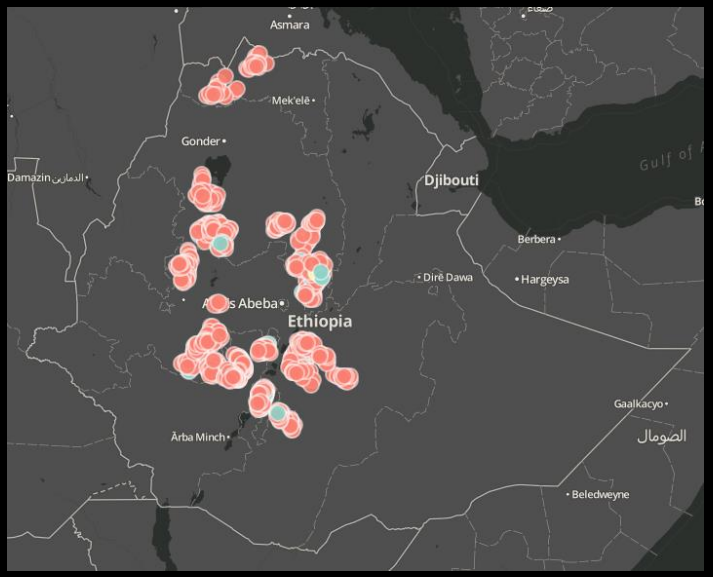
Toilets?

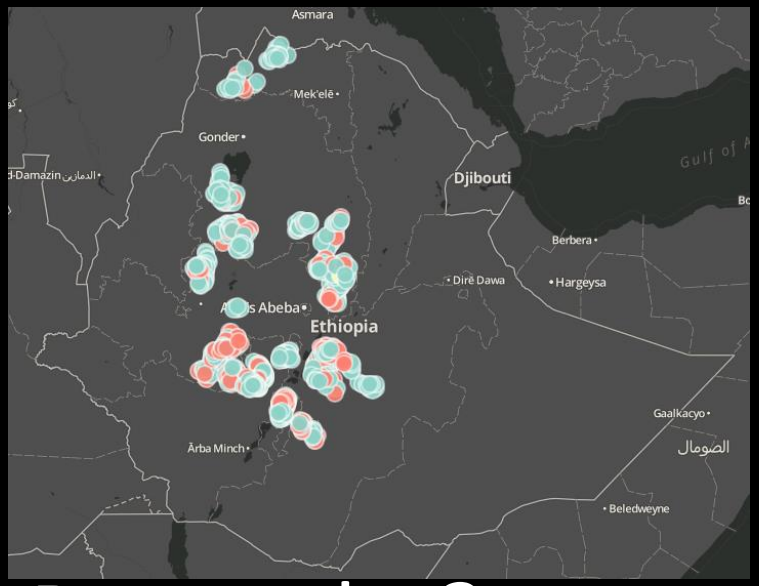



Training room?




Electricity?




Demo plot?