A JOURNEY THROUGH

Open Cities Africa

Session 4: Friday: 11:00 - 12:30

Presenter: Carter Draper

iLab & Open Cities Monrovia

Building Disaster Resilience in Sub-Saharan Africa

An initiative of the African, Caribbean and Pacific Group of States funded by the European Union

GFDRR
Global Facility for Disaster Reduction and Recovery

OPEN DRI Open Data for Resilience Initiative

WORLD BANK GROUP

2.5 billion more people
living in urban areas
by 2050
60% of the new urban
areas of 2030
do not exist yet

Understanding and
quantifying
disaster risks requires
accessible, detailed,
up to date data

We have a significant
Digital Map Gap
in Africa
Maps exist for 87% of
European territory
But, only 3% of Africa

Disruptive Technologies

satellites...

drones...

GPS mobile phones...

street view...

open data...

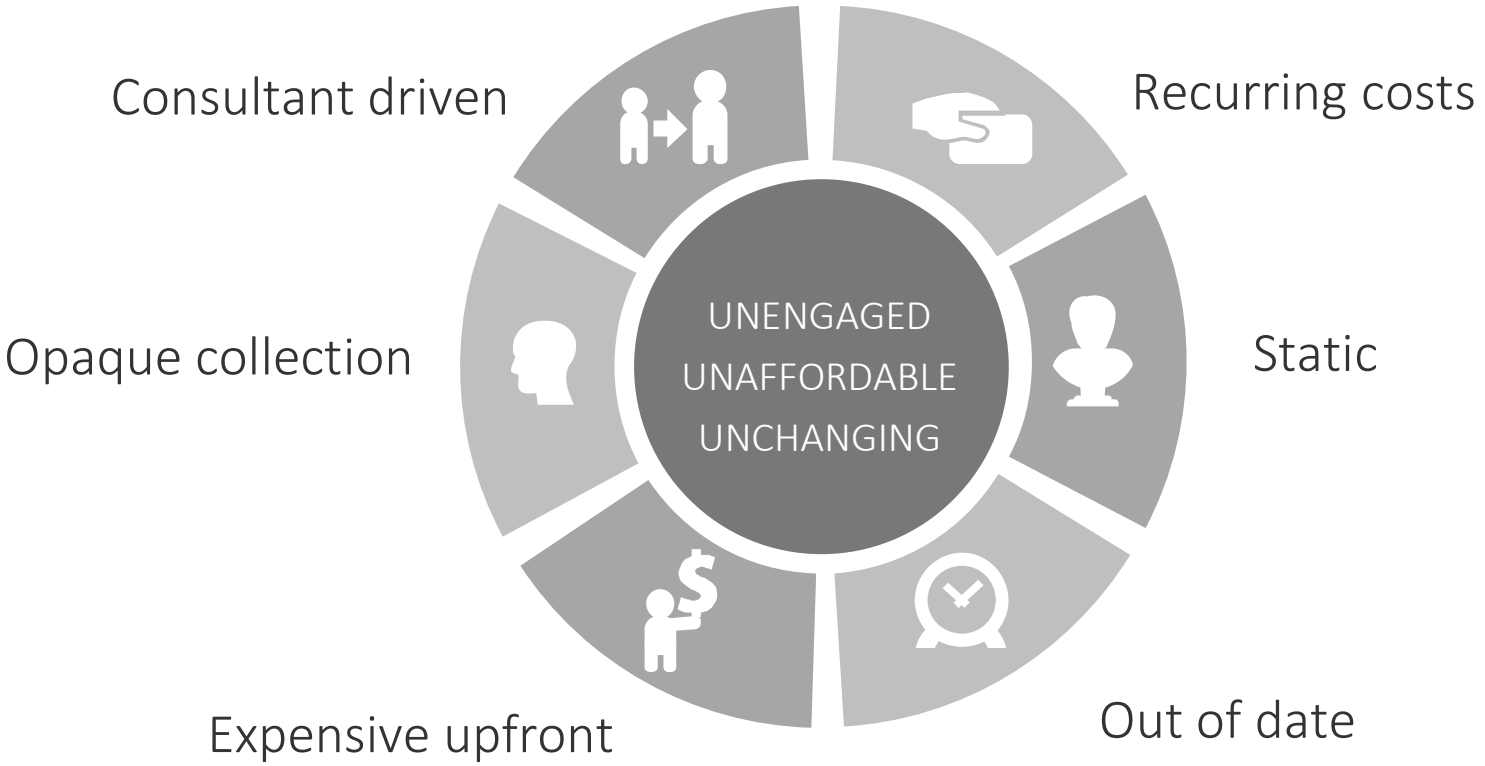
machine learning...

An opportunity for
youth, women, and any citizens
to participate in the creation of
resilient societies

Invest in Human Capital by building
networks and relationships between:

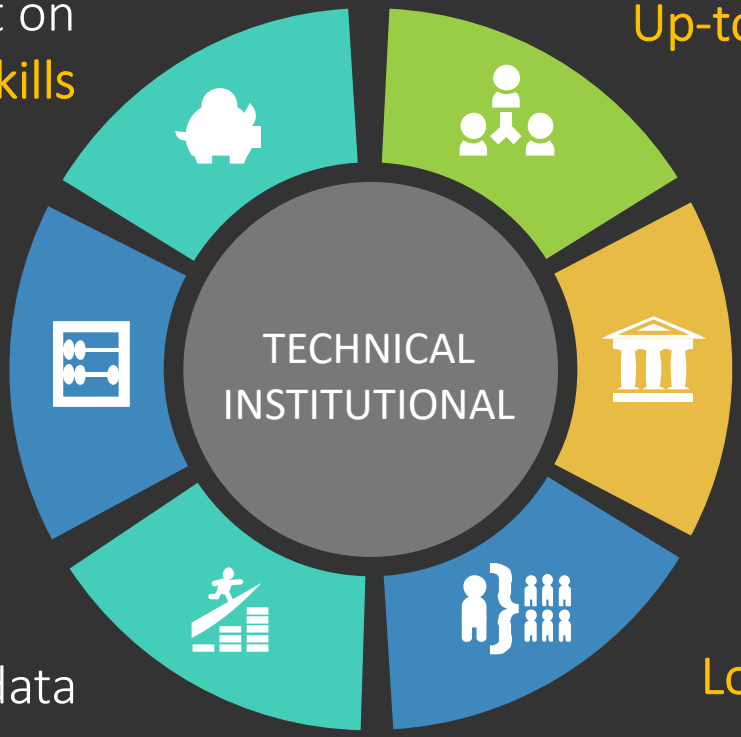
- local governments
- universities
- private sectors
- communities

TRADITIONAL APPROACH TO DATA COLLECTION



DISRUPTIVE TECHNOLOGY AND HUMAN CAPITAL

COLLABORATIVE APPROACH TO GEOSPATIAL DATA COLLECTION



Resources spent on **building skills**

Up-to-date - local data

Open - scalable approach

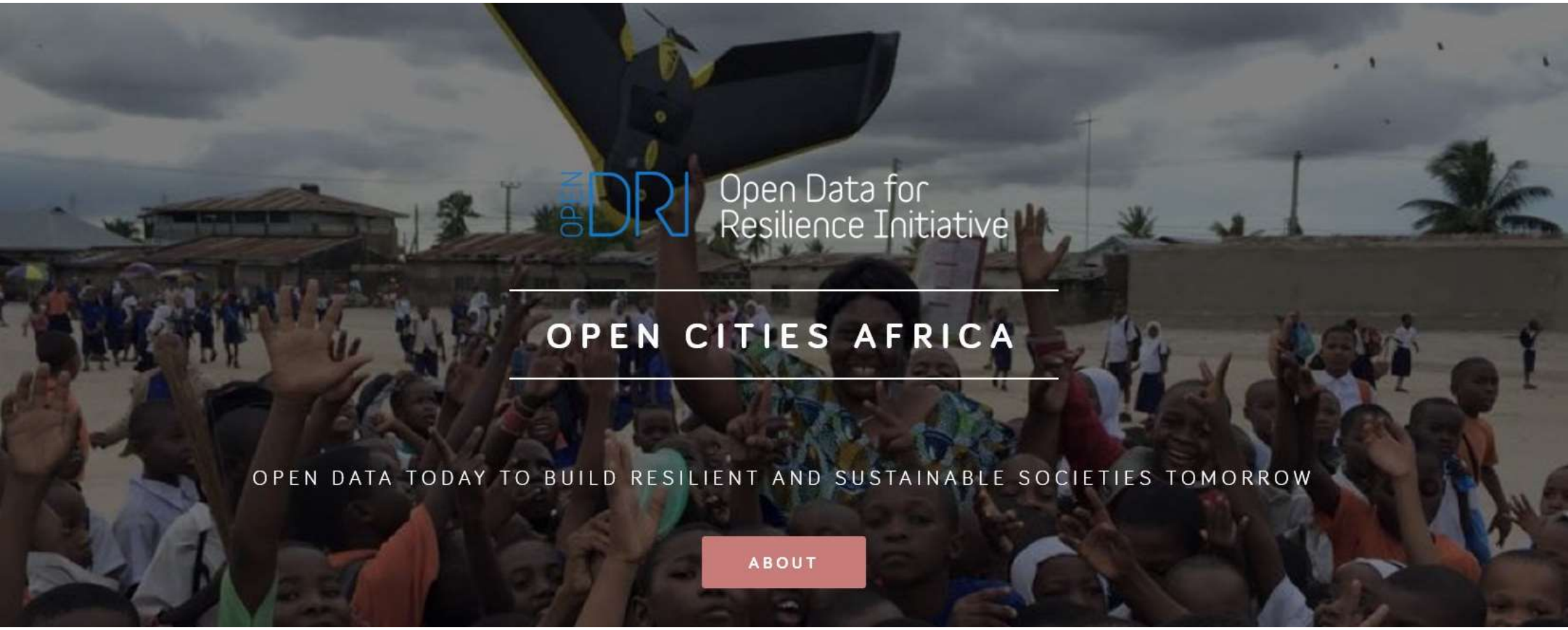
Community awareness of risk

Re-use of data

Local ownership & trust in data

Geospatial Market growth from
US$ 9.8 billion in 2017 to
US$ 17.5 billion by 2023

Geospatial data and services
generate US$ 400 billion
in global revenue



ACCRA Ghana

ANTANANARIVO Madagascar

BRAZZAVILLE ROC

KINSHASA DRC

KAMPALA Uganda

POINTE-NOIRE ROC

MONROVIA Liberia

NGAOUNDÉRÉ Cameroon

SAINT-LOUIS Senegal

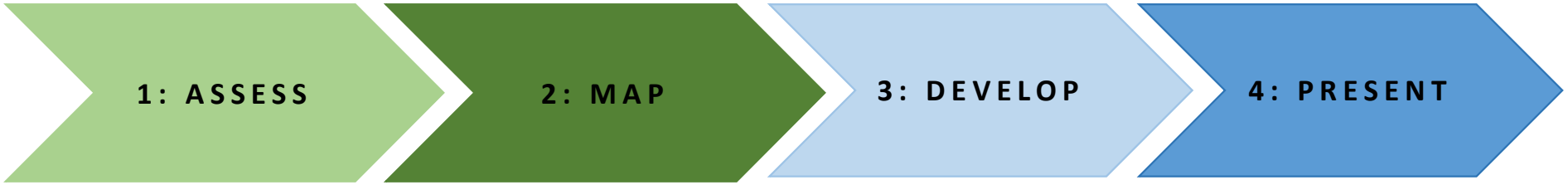
STONE TOWN Zanzibar

VICTORIA Seychelles

Open Cities Objectives

1. Collect Data and put it to use
2. Build local skills
3. Create partnerships and networks

Four Phases of Implementation



- Problem Statement
- Existing Data
- Local Partners
- Begin Training

- Engage Community
- Mapathons
- Data Collection
- QA/QC

- User Centered Design Approach
- Stakeholder Engagement
- Products such as: Atlas, maps, web applications, databases, apps

- Results and Feedback
- Present to the community

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LOCAL PARTNERS

LOCAL GOVERNMENT

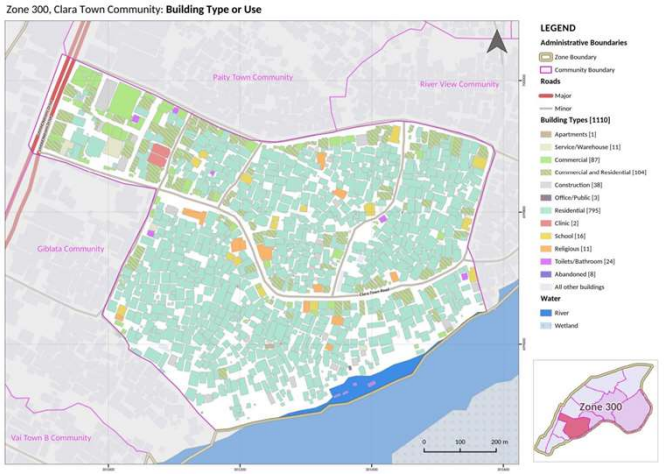
UNIVERSITIES

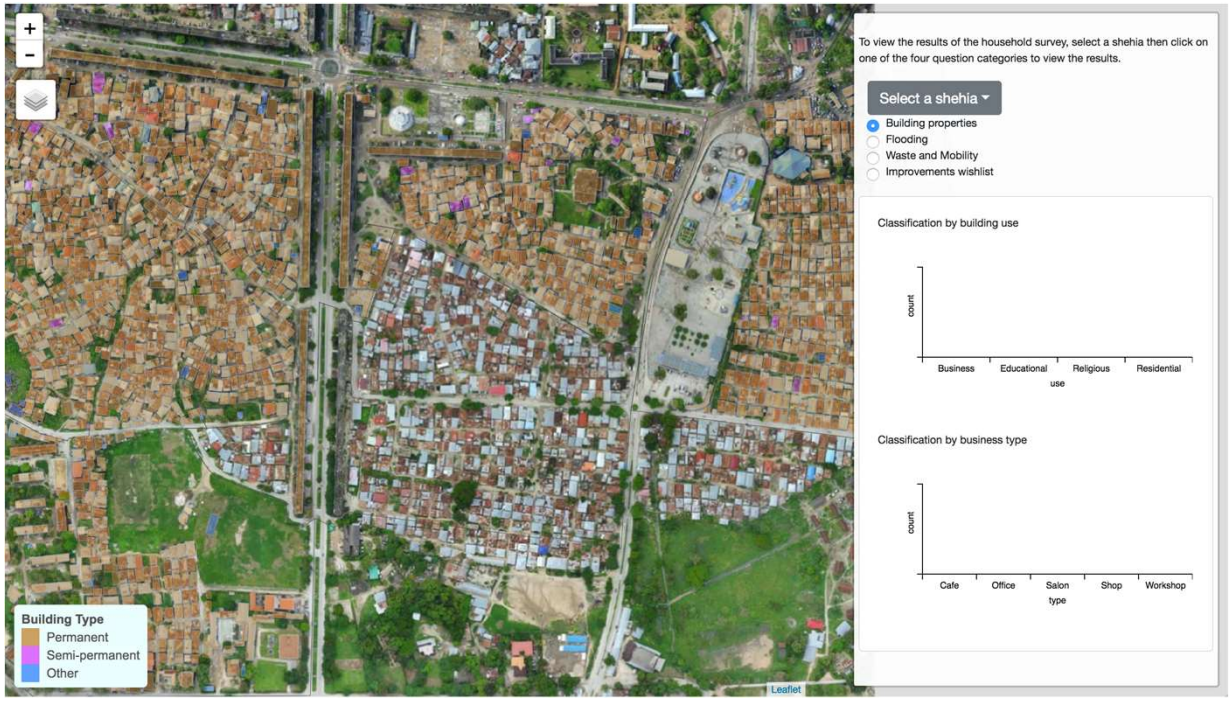
COMMUNITIES

REMOTE MAPPING

FIELD MAPPING

OPEN CITIES AFRICA: PRODUCTS





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Cross-continental network of experts

REGIONAL MEETINGS convene consortia of local government and innovation teams for a suite of TECHNICAL & GOVERNANCE, WORKSHOPS & EVENTS

50 DELEGATES at each event, half francophone and half anglophone, with many cultures, languages, and religions represented.

WORKSHOPS and ON-LINE TRAINING IN:

- data collection
- gender analysis
- validation and QA/QC
- stakeholder engagement
- user-centered design
- geospatial governance
- capacity building
- civic engagement

THE RESILIENCE ACADEMY

The Resilience Academy is a university partnership program focusing on skills and knowledge transfer on urban resilience.

The Academy concept revolves around THREE main activities :

1. Student internships for large-scale data collection campaigns
   - Provides Practical Training
2. Climate Risk Geodatabase
   - Promotes sharing and use of digital/geospatial data
3. Online Learning Materials
   - Online academic modules can be used for vocational training and embedded into local university curricula.

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Resilience Academy

OPEN DATA CREATED

- Across **12 cities** simultaneously
- **500,000** features mapped
- **100's** of sqkm of drone imagery collected

DIGITAL SKILLS

- **500 people** trained on digital cartography
- At **41% female participation** rate
- Over a **thousand local citizens** engaged in mapping

REGIONAL NETWORK

- Two regional knowledge exchanges
- Online training platform with over **100 participants**

What's Next?

- Machine Learning
- Sustain and Grow
- New Cities

Be part of the future of information and skills in Africa
JOIN US FOR
A JOURNEY THROUGH OPEN CITIES
VOYAGE AU COEUR DES ''VILLES OUVERTES''
Friday: 11:00 - 12:30
TO LEARN MORE: www.opencitiesproject.org