Multi-Point Observation of Voters (MOV)
Nigerian General Elections

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Company Introduction

- Mammoth Industries LTD is a registered Nigerian Limited Liability Company based in Abuja, FCT.

- Established in 2015, we have been at the forefront of innovating ground-breaking solutions since inception.

- Our clients include:

 - Defence Headquarters (DHQ),

 - Kwara State Government

 - Alcove Synergy LTD

 - Nigerian Army Signals

Experience

- In 2015, Mammoth Industries' staff attended a critical communications conference in Dubai.

- After successful discussions with leaders in the industry from around the world, we developed a military grade communications system for DHQ.

- In addition, we were chosen to upgrade the Nigerian Army Signals communications and tracking system for Black Ops based on our DHQ project.

Rationale

- What is a Democracy?

- What does it mean to be democratically elected?

- Who are its stakeholders?

  1. The Nation

  2. Its Citizens (past, present, future)

  3. Officials

Rationale

- Mammoth Industries seeks to contribute to the sustenance of Nigeria's fragile democracy:

- Particularly in the area of credible elections

- Some challenges to elections in Nigeria include:

- Lack of credibility in the electoral process

- Lack of adequate capacity to deploy efficient elections

- Reduced confidence in the electoral process

Proposed Solution

To deploy a technology-enabled system   in order to increase efficiency and credibility of Nigeria's electoral process

- The system will consist of features highlighted in our previous work to include the following:

Mapping

Ballot Box Security

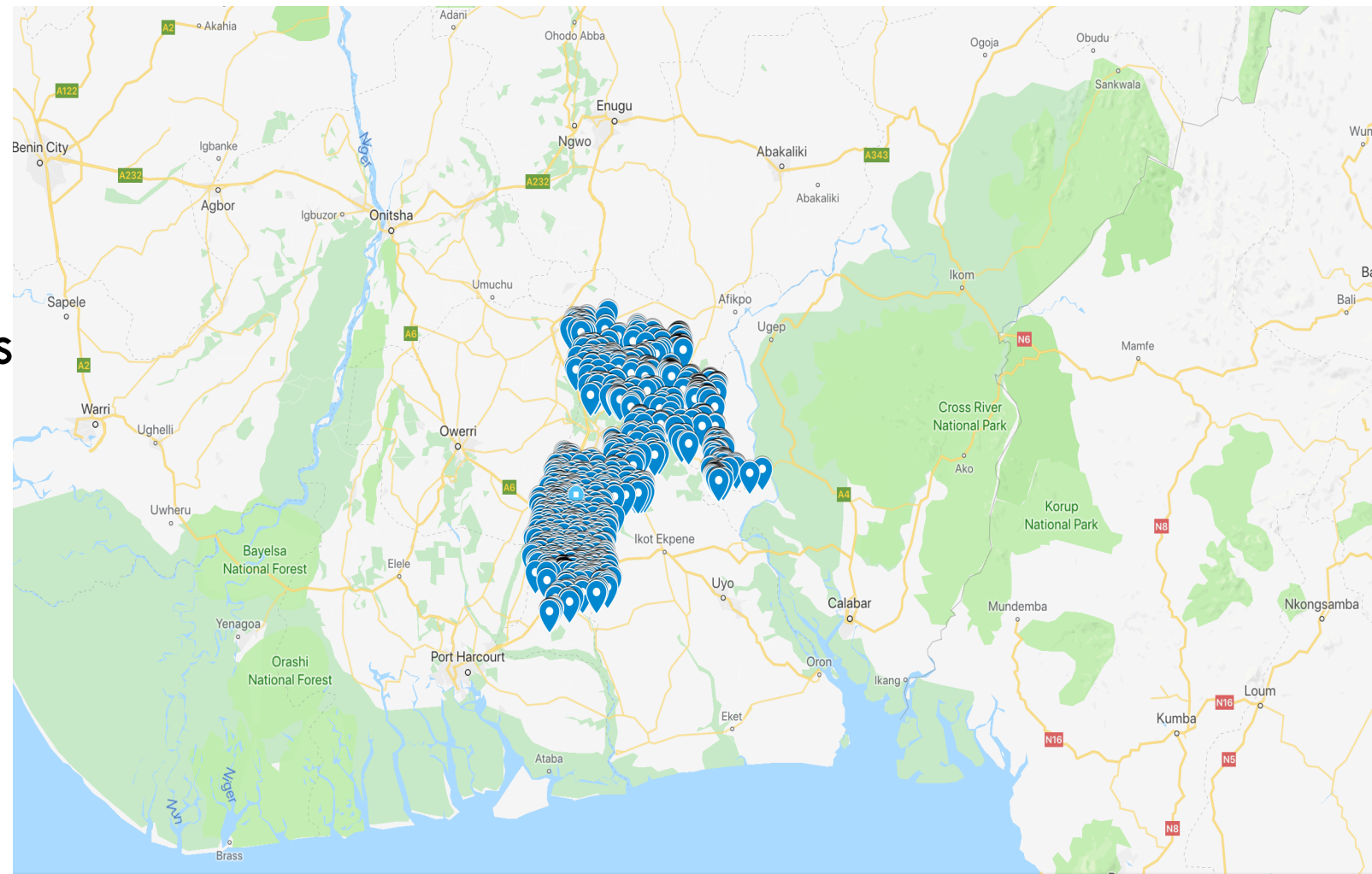**Observation Vehicle Tracking and Geo-fence.**

Monitoring

Mapping

- Geographic Information System (GIS) development with:
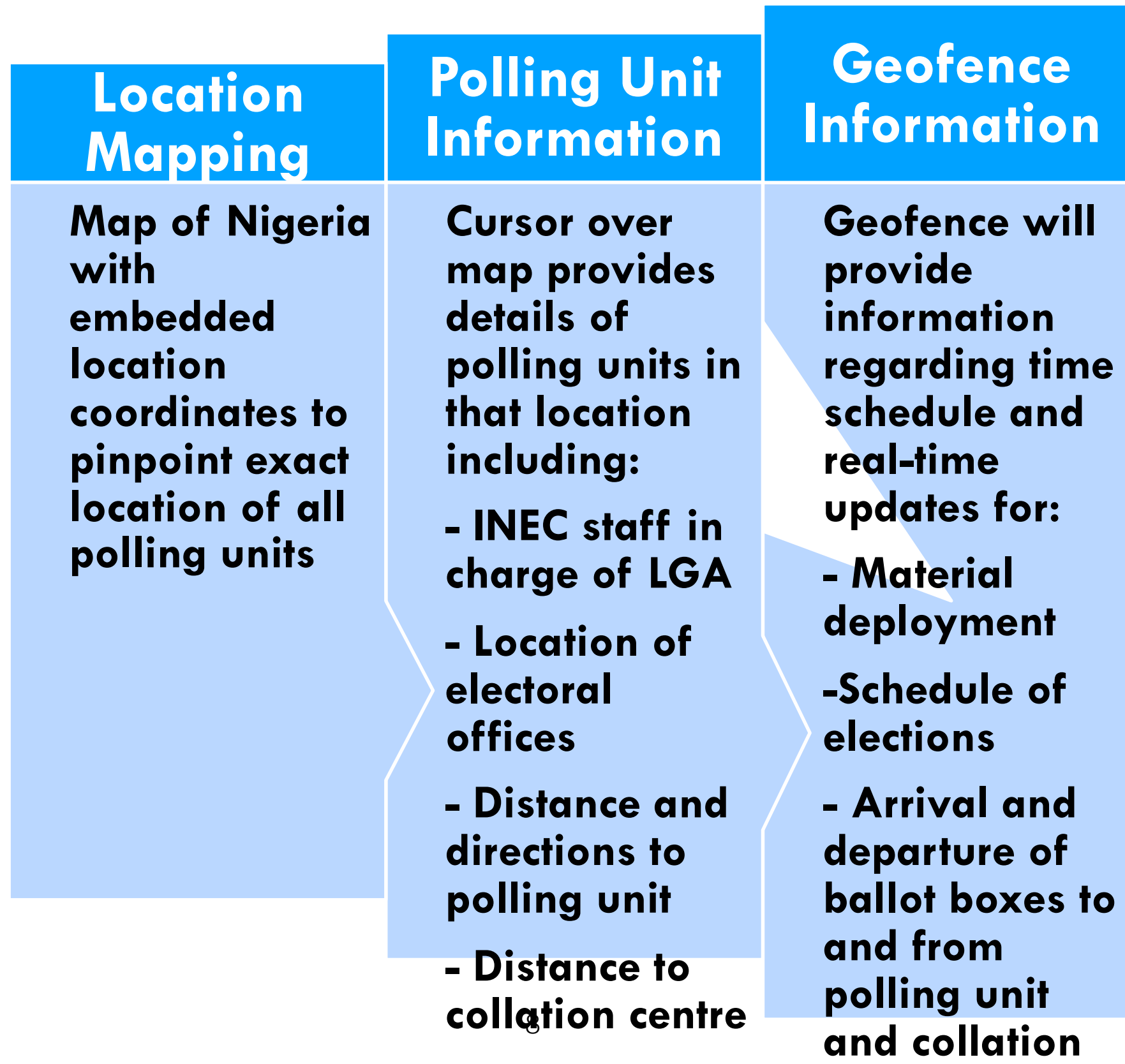
  - Interactive pop-up
    Polling Unit information

  - Driving and walking directions
    with time of arrival

  - Option for live viewing
    (INEC HQ only)

  - Facial recognition (TBD)

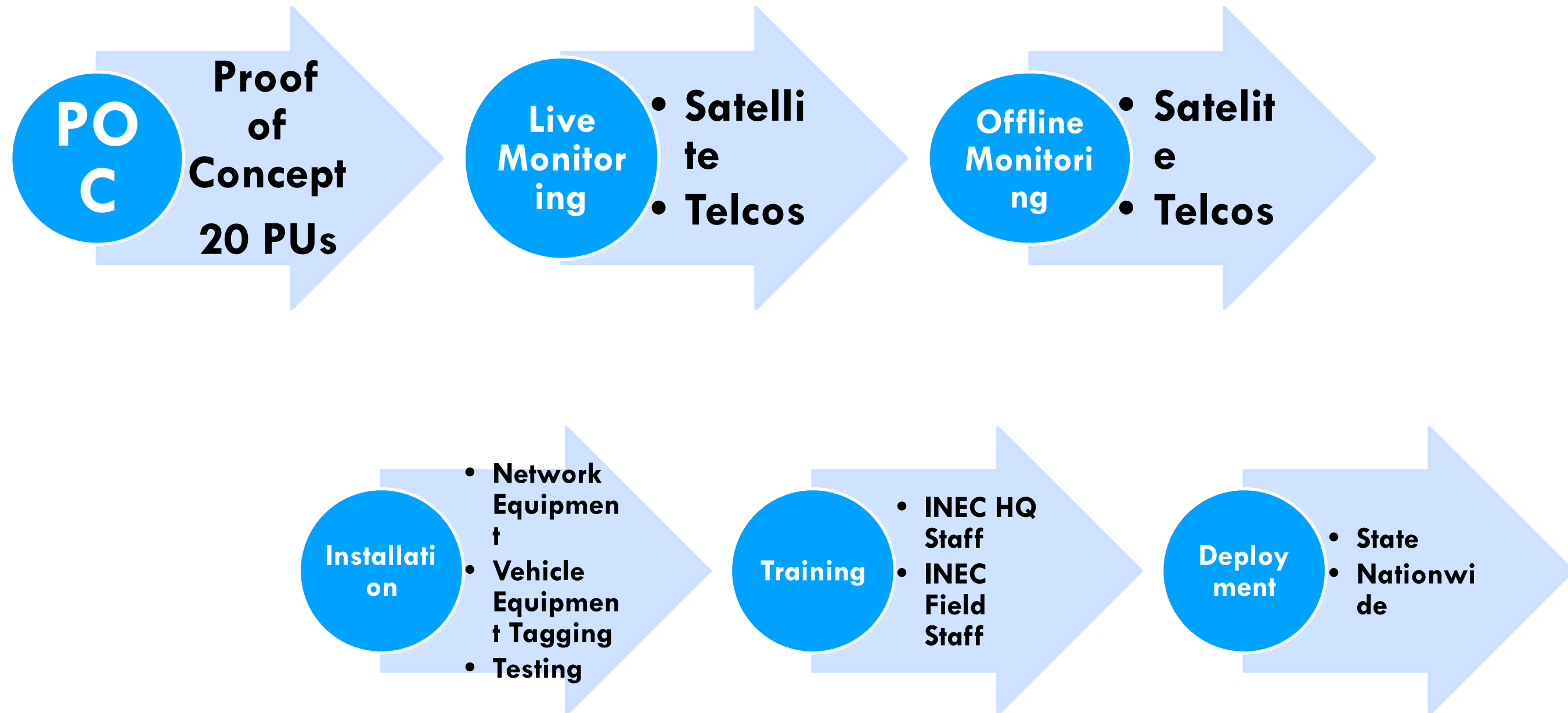**Map showing polling units in Abia state**

Mapping
Process Flow

Location Mapping	Polling Unit Information	Geofence Information
Map of Nigeria with embedded location coordinates to pinpoint exact location of all polling units	Cursor over map provides details of polling units in that location including: - INEC staff in charge of LGA - Location of electoral offices - Distance and directions to polling unit - Distance to collation centre	Geofence will provide information regarding time schedule and real-time updates for: - Material deployment -Schedule of elections - Arrival and departure of ballot boxes to and from polling unit and collation

Mapping
Process Flow

POC — **Proof of Concept** **20 PUs**

Live Monitoring
- **Satellite**
- **Telcos**

Offline Monitoring
- **Satelite**
- **Telcos**

Installation
- **Network Equipment**
- **Vehicle Equipment Tagging**
- **Testing**

Training
- **INEC HQ Staff**
- **INEC Field Staff**

Deployment
- **State**
- **Nationwide**

Multipoint Observation for Voters (M.O.V.)

G.I.S

| Monitor movement of election materials[Intergrity] | Add ICCESS info to polling unit | Geofencing GPZ->State->SD->LG-> | Local Mapping of PU's |

Bulk scheduled. Backup

Real-time GSM / Sattelite

Facial Recognition software

Monitoring

- **Type**

  - Live

  - Offline

- **Media**
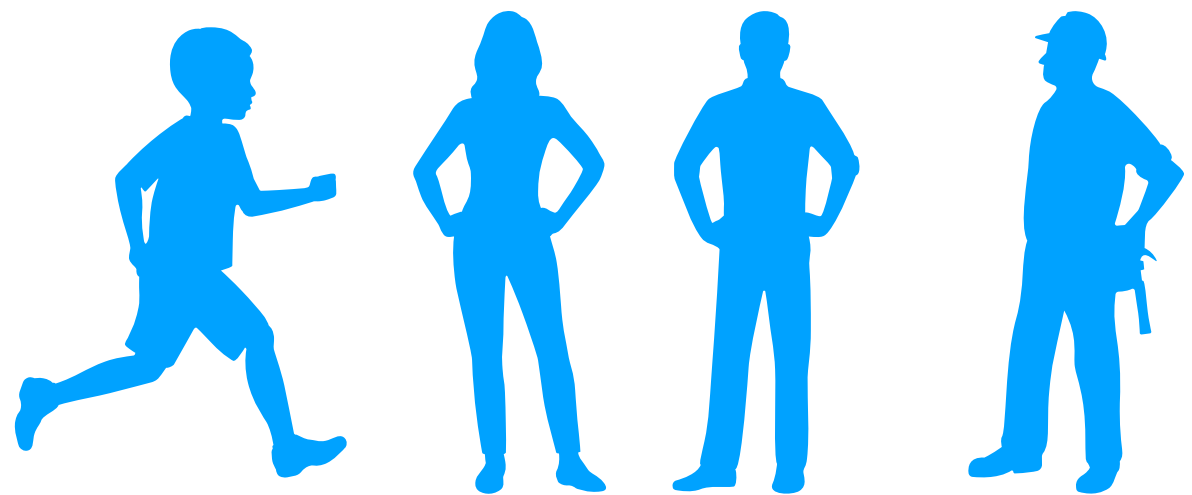
  - Local Telcos

  - Satellite
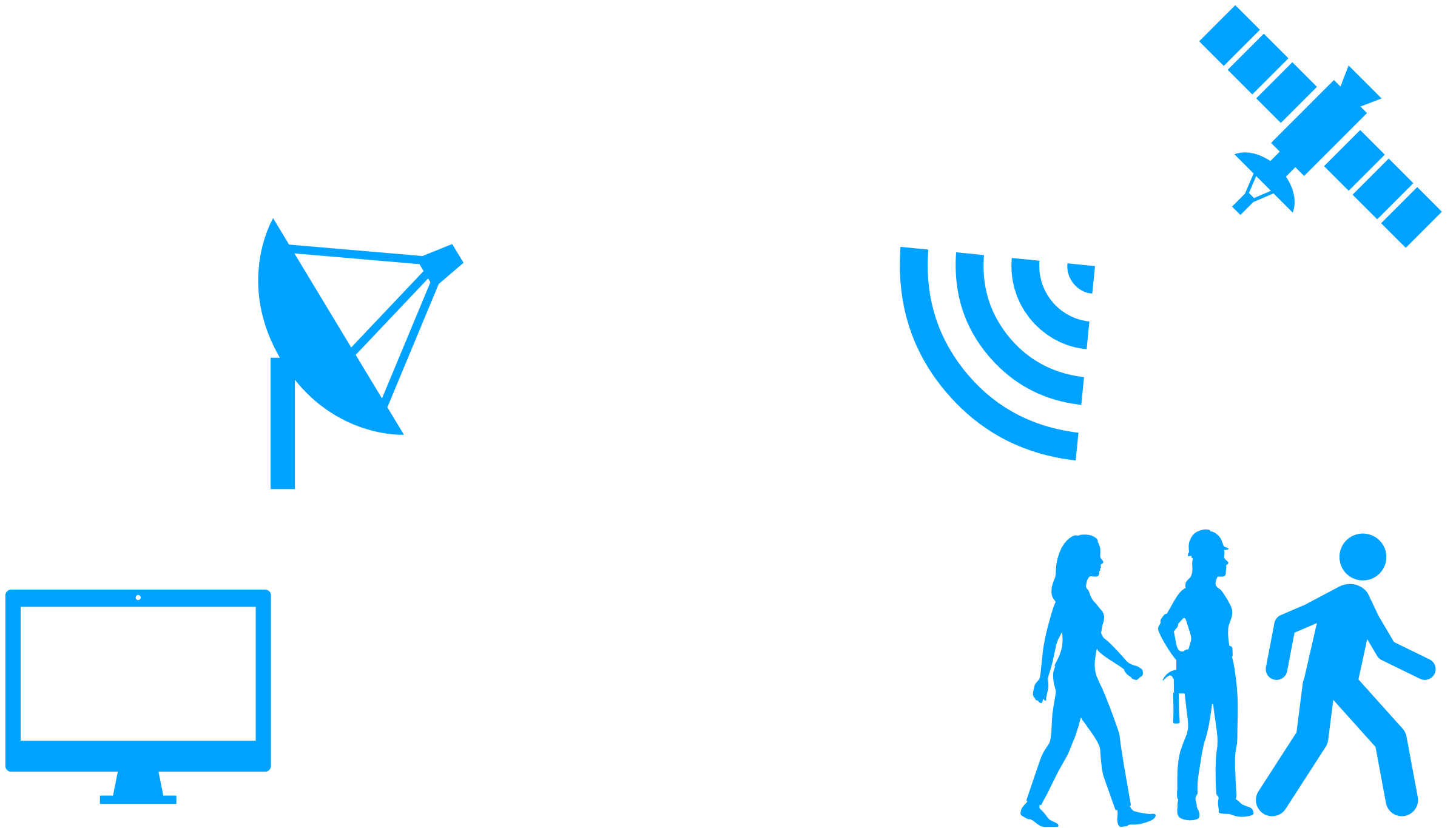
Monitoring types: Live Satellite

- Diagram

Monitoring types: Offline

- Diagram

Monitoring Media: Local
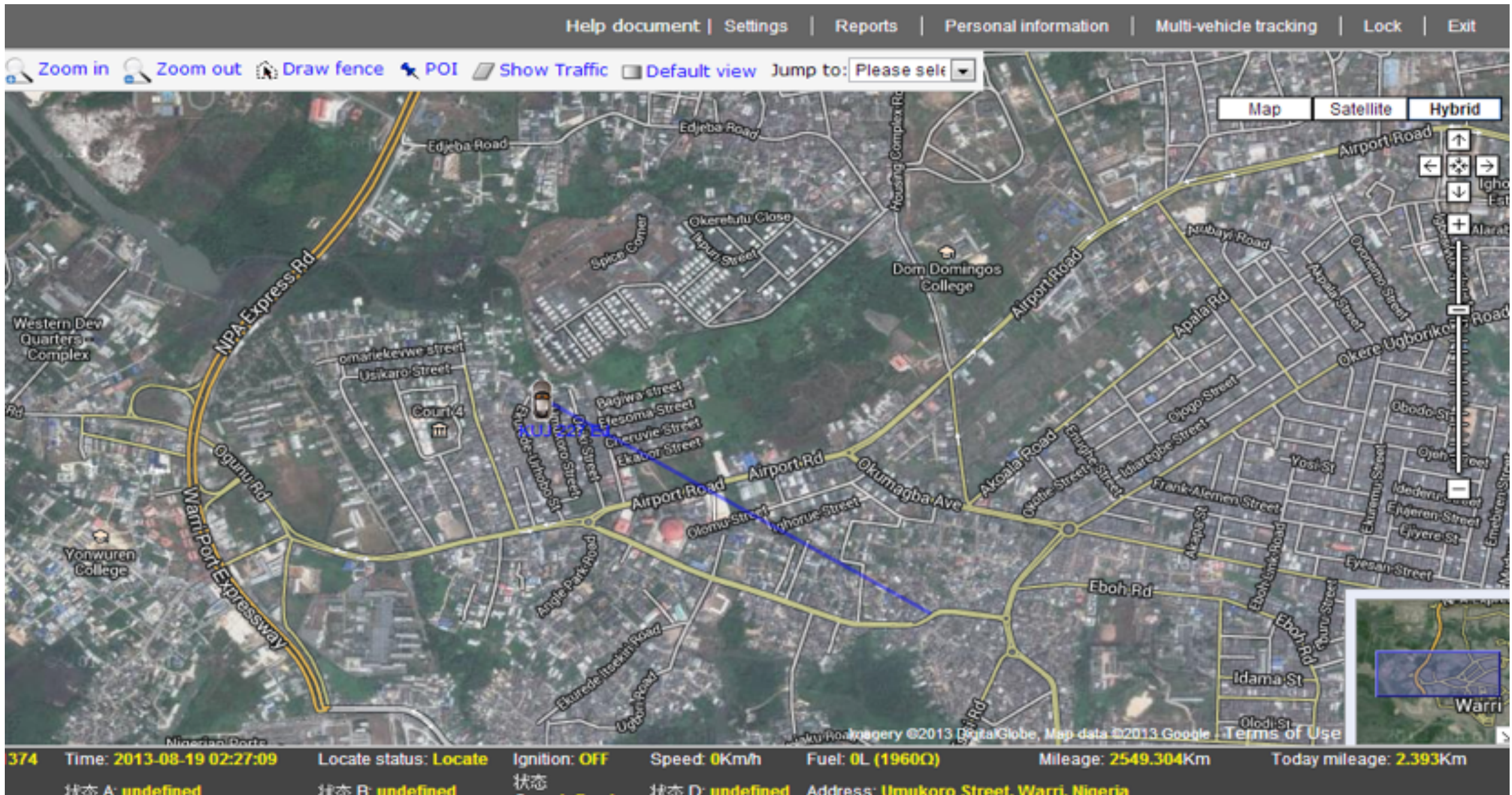
Monitoring Media: Satellite

Ballot Box Security

Observation Vehicle Tracking

Geofencing

- Regional

- State

- Senatorial district

- LGA

- Ward

- PU

Geofencing contd.

- diagram

Implementation Schedule

- 3 months* realistic implementation period.

- Dependent on successful POC

Implementation schedule

- Work flow diagram

Benefits

- Improved election observation, monitoring and operations.

- Subsequent increase in election participation as a result of above.

- Quicker decisions in election petitions due to live and /or offline monitoring.

- Swift prosecution of election malpractices from all parties involved .

- Reduced court cases (election petitions) as a result.

Constraints

- Time

- Budget

- Training

- Qualified staff for implementation / troubleshooting

- Telco / NigComSat efficiency and reliability

Solutions

- Treat project as a priority

- Implement in most populous states as a start.

- Assign funds as soon as INEC budget is released

THANK YOU!!!