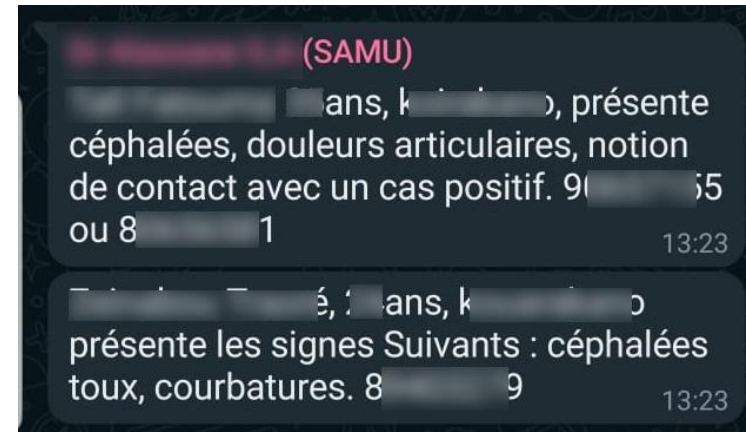
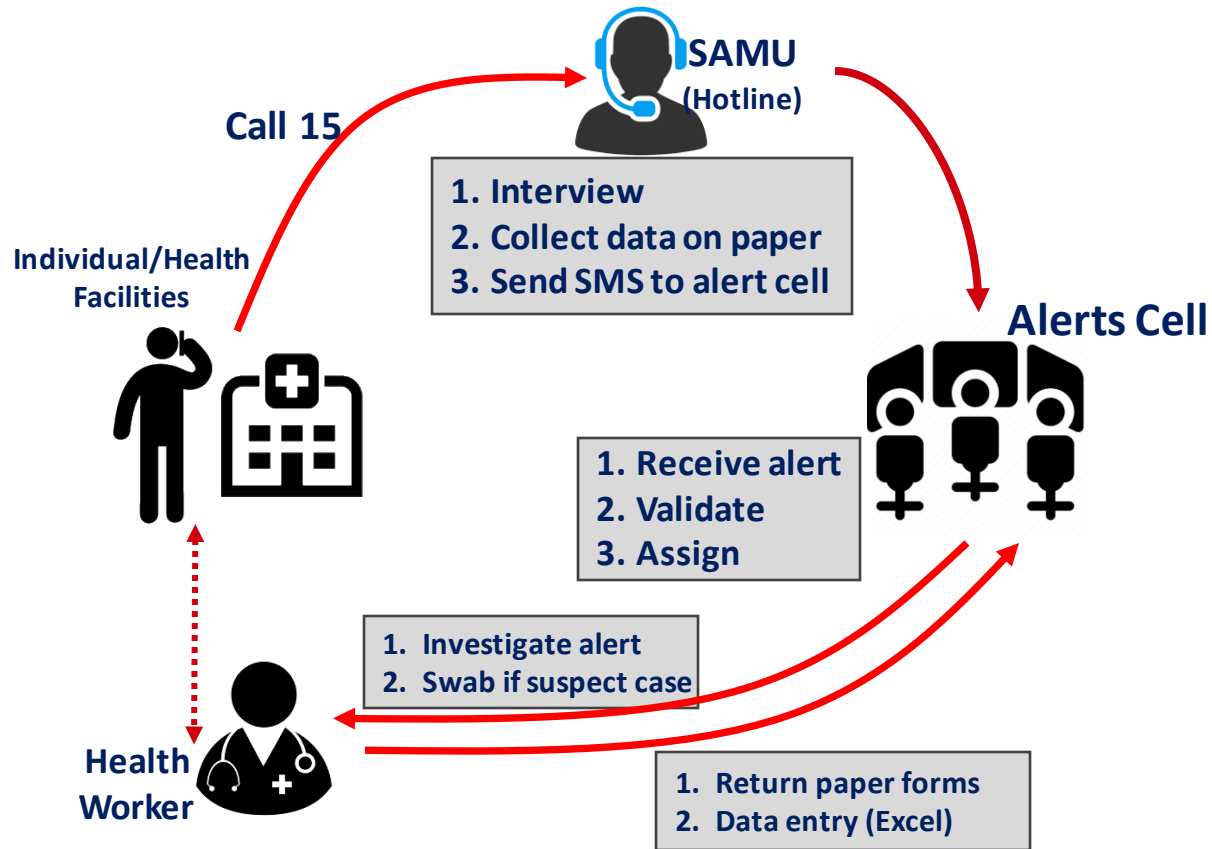




Alerte Covid-19: an electronic platform for receipt and investigation of Covid-19 alerts in Niger

Robert Nsaibirni, Bachir Assao, Natalie Roberts

Context – Earlier in 2020



Sample SMS Alert from Hotline service to Alert Cell

Inconveniences

1. Paper based
2. Un-structured data collection
3. Long delays (SAMU -> Alerts Cell -> HW) (up to several days)
4. Limited (No) Security and Privacy
6. Impossible to ensure effectiveness and exhaustiveness of investigations
7. Not easily scaled (decentralized response)
8. Late diagnoses

Objective

Develop an **electronic tool** to improve the **receipt** and **investigation** of Covid-19 alerts in Niger.

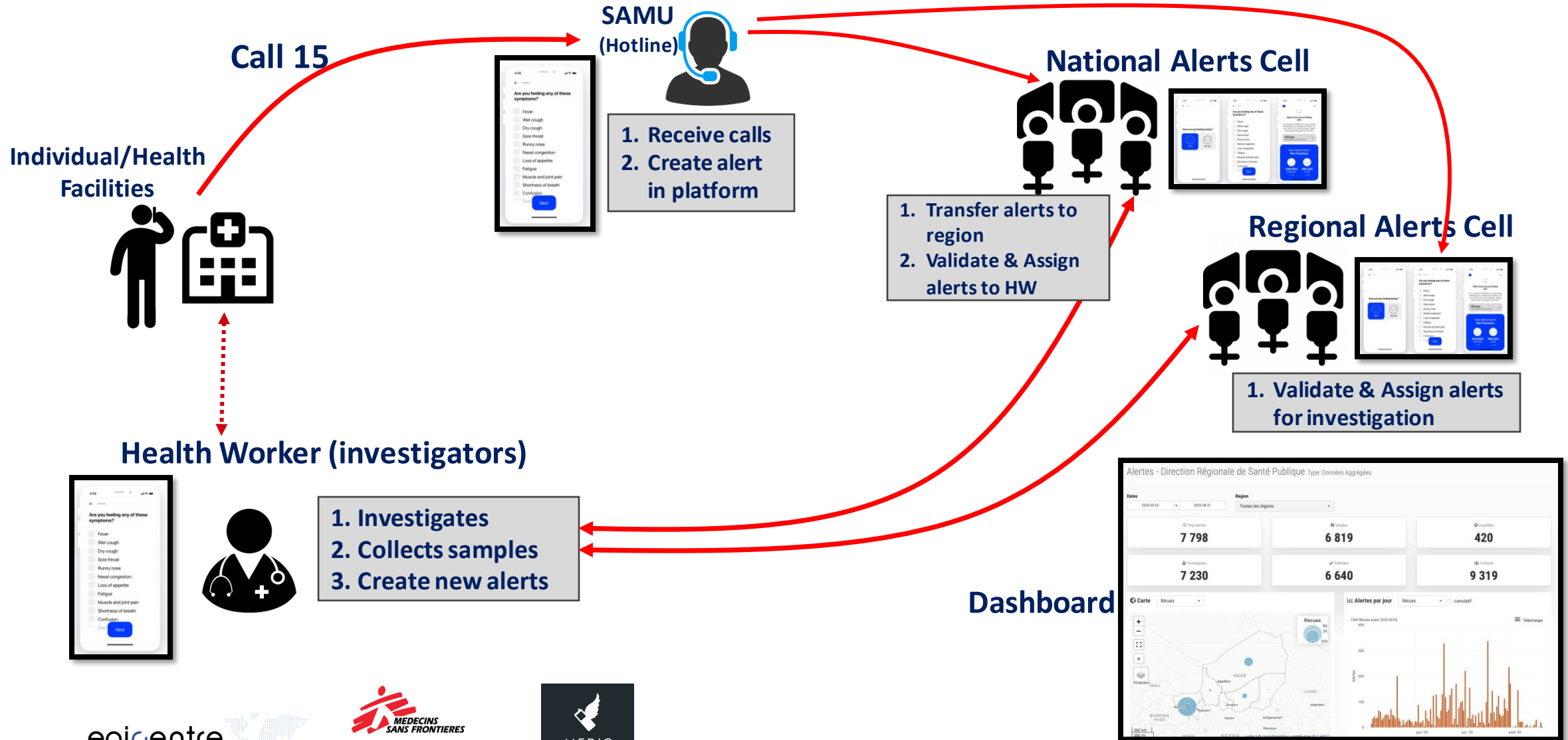
- **Collect Structured data**
- **Increase investigations**
- **Improve timeliness and completeness**

Alert-COVID19-NE (based on the Community Health Toolkit by Medic*)



*<https://communityhealthtoolkit.org/>

Alert-COVID19-NE – How it works (1/2)



Alert-COVID19-NE – How it works (2/2)

Flexible

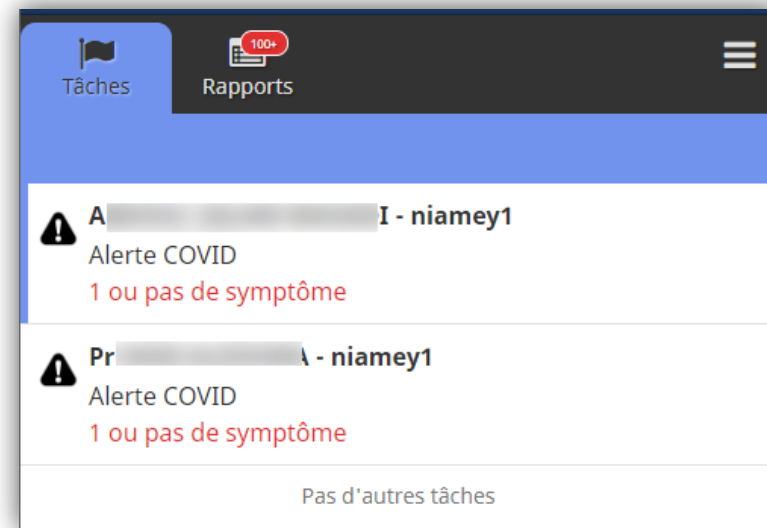
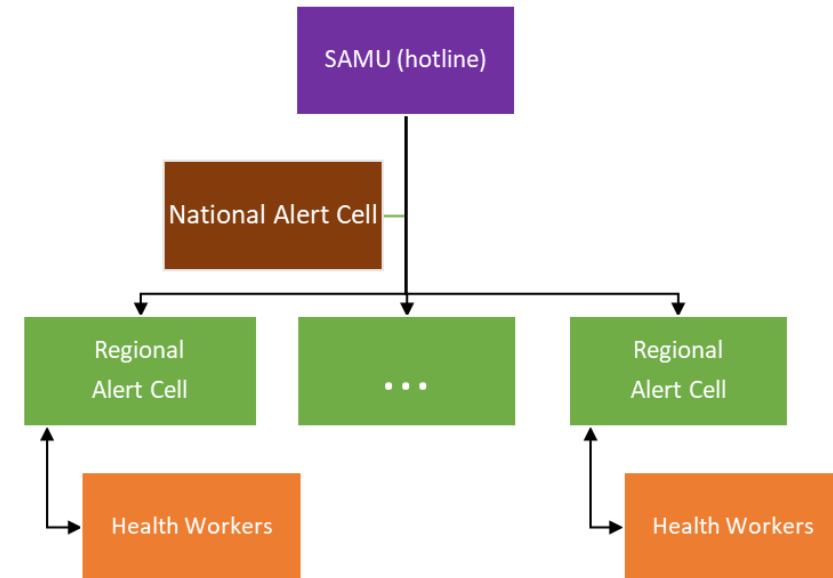
- User-centered
- **Custom Org Chart and Workflow**
- Adapting to change
- **Offline usage**

Ease of use

- **Data driven task orchestration**
- **Not resource-intensive**
- Intuitive

Security and Privacy

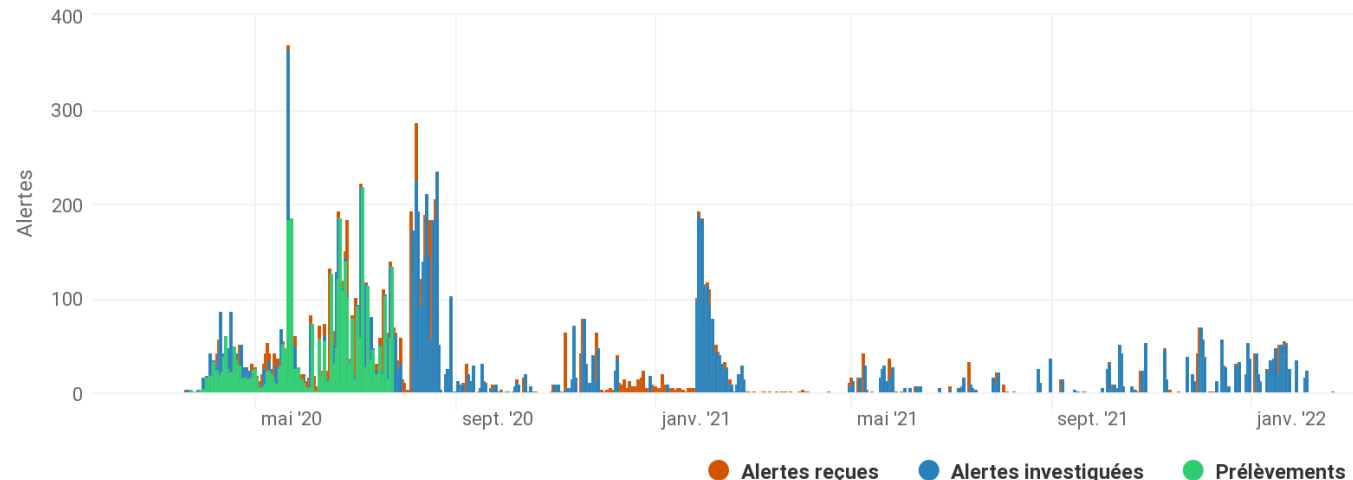
- **Access control**
- Secured data transfers



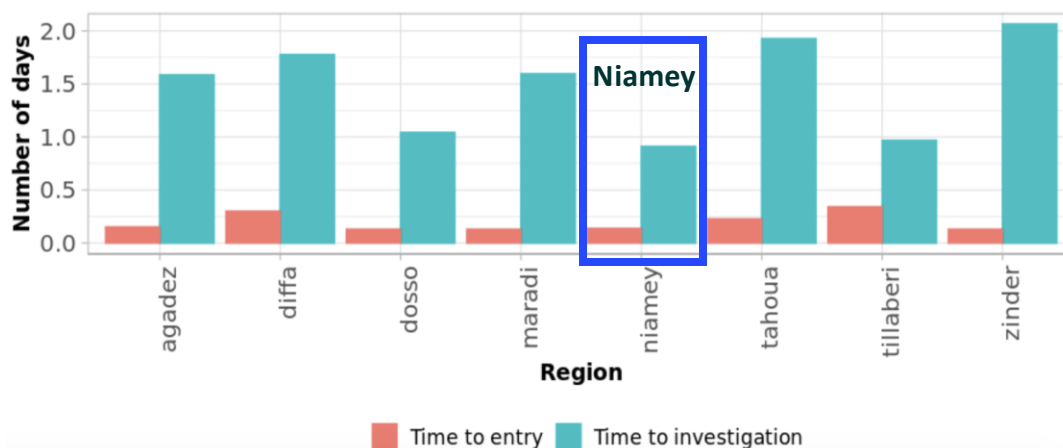
Results

Alertes COVID-19 Niger

Toutes les régions



Timeliness



Total Alerts

- 6000 Alerts/day in Hotline*
- 5% Covid-19 related
- Averagely 35 investigations/day
 - Up to 350 investigations during peak period

Completeness (May 2020 – March 2022)

- 12,795 alerts received
- 11,535 investigated
- 10,799 samples collected

Coverage

- All 8 regions

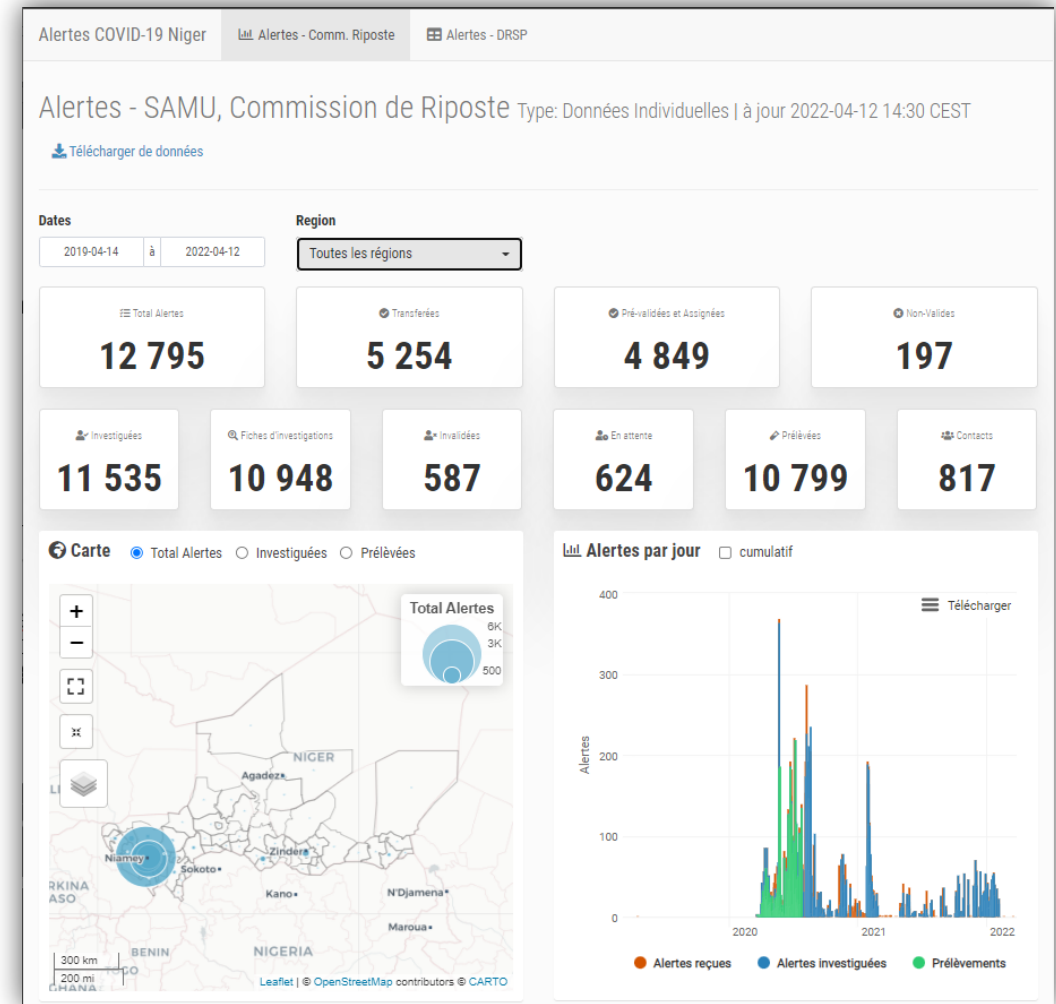
*Source: SAMU (Service d'Aide Médicale Urgente), Niger

Conclusion/Perspectives

- Implementation **Ongoing**
- Improved **completeness** and **exhaustiveness** of the investigations
- Earlier and more effective response by MoH & MSF

Perspectives

- **Interoperability** with national public health information system (DHIS2)
- Include **surveillance** of other **Epidemic Prone Diseases** (pilot phase ongoing) – **Alerte-Niger**



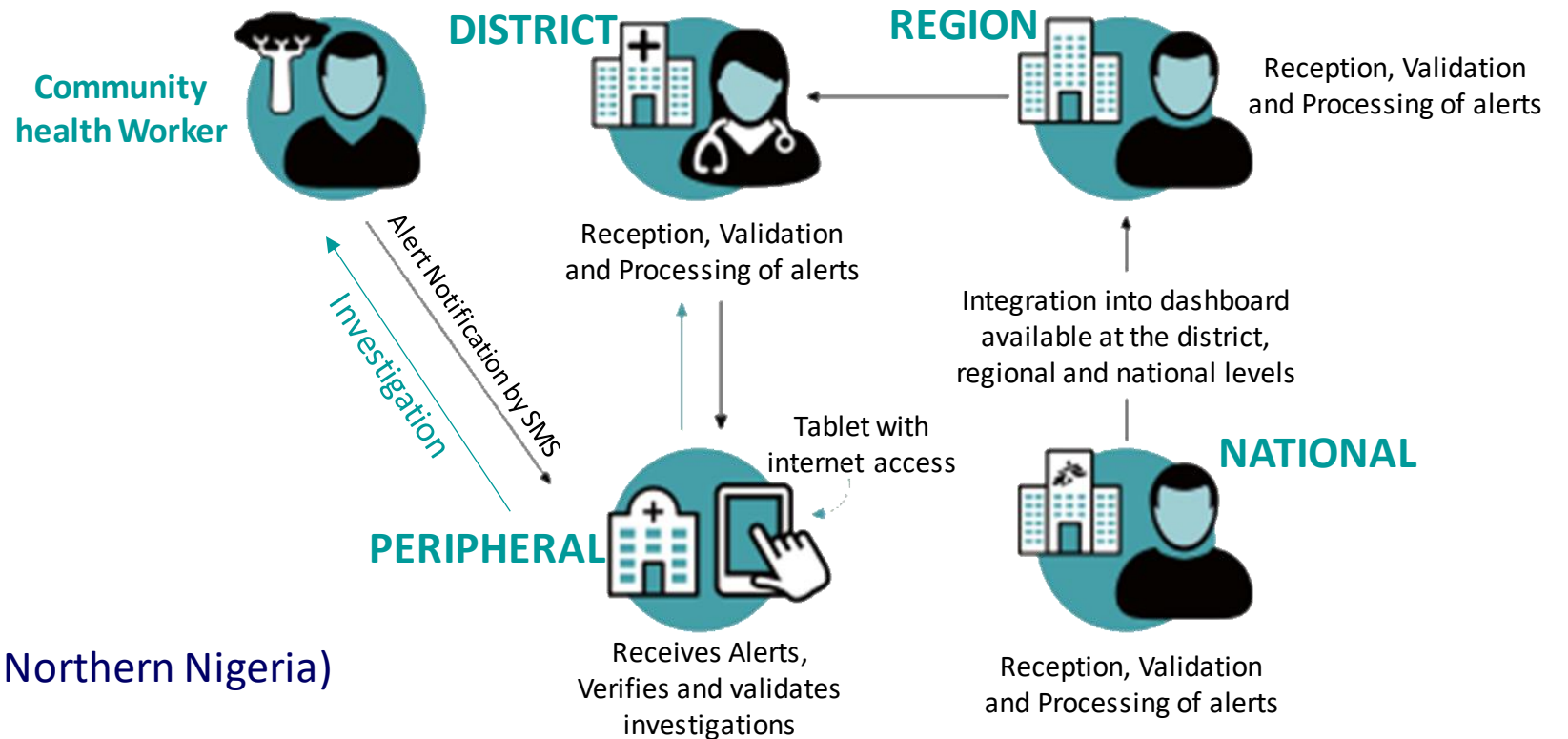
Conclusion/Perspectives – Alerte-Niger

Alerte-Niger

- Community Events-Based Surveillance
- CHWs and Peripheral Health facilities
- Implementation of Niger's EPD surveillance system

Pilot

- Since November 2021
- Maradi Region (frontier with Northern Nigeria)
- 6 health structures/areas
- 3 pathologies
 - Cholera, Meningitis, and Measles



For more information: <https://fondation.msf.fr/fr/projets/alerte-epidemies>

EPD: Epidemic Prone Diseases

CHW: Community Health Worker

Thank You!

