Advancing vaccine development and manufacture in Africa 24 – 25 September 2018, Freetown, Sierra Leone



# **EBOLA VIRUS DISEASE in DRC**

**Steve AHUKA** 





### 10 EVD outbreaks between 1976 et 2018 in DRC

- Mortality: 25 à 90%
- DRC: 10 outbreaks in 9 of 26 provinces --

Mongala (Yambuku 1976), Sud-Ubangi (Tandala

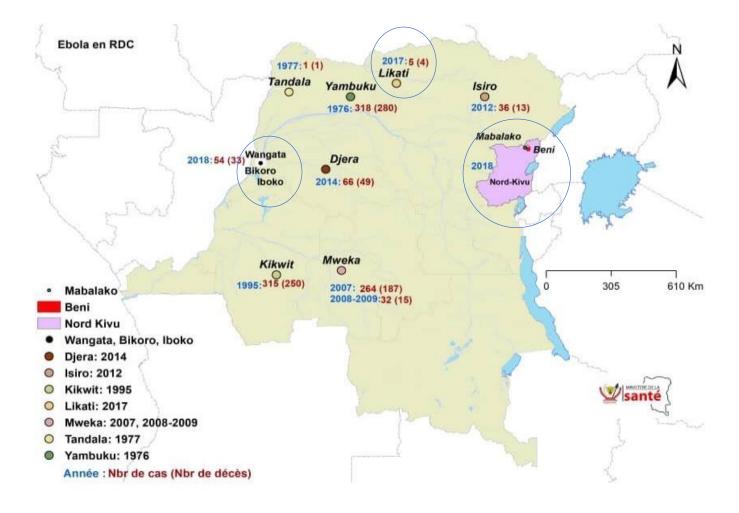
1977), Kwilu (Kikwit 1995), Kasaï-Occidental

(Mweka 2007 et Kaluamba 2008), Haut-Uélée

(Isiro, 2012), Tshuapa (Boende 2014), Bas-Uélé

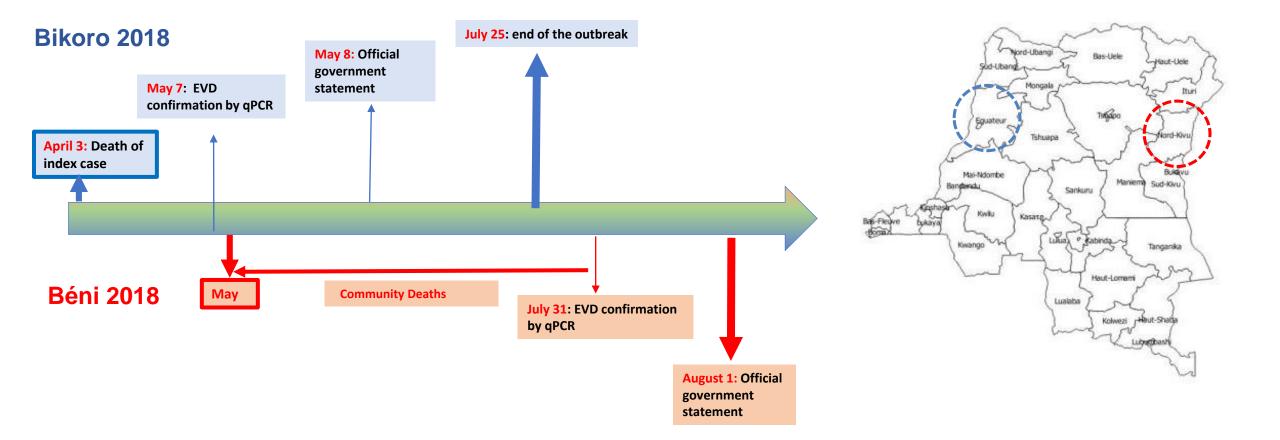
(Likati 2017), Equateur (Bikoro 2018) et Nord Kivu

(Beni 2018).

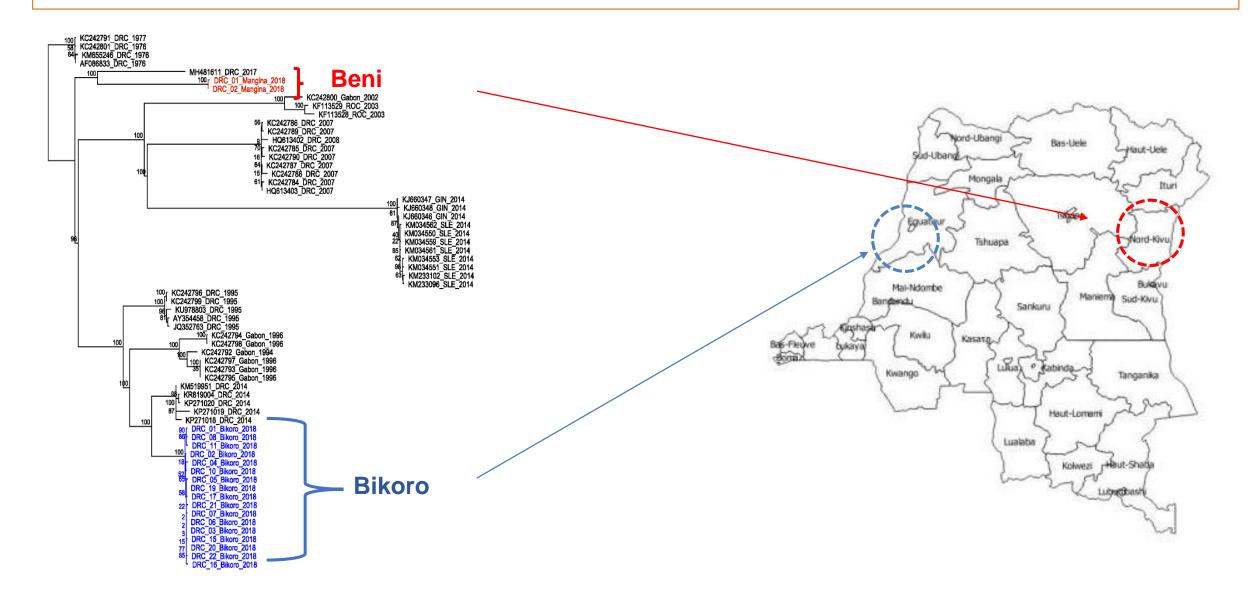


### **Two EVD oubtreaks in 2018**

#### Simultanous Outbreaks

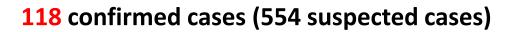


### **Two different oubtreaks**



### **Current situation in the field: 22 September 2018**









**40** Patients recovered





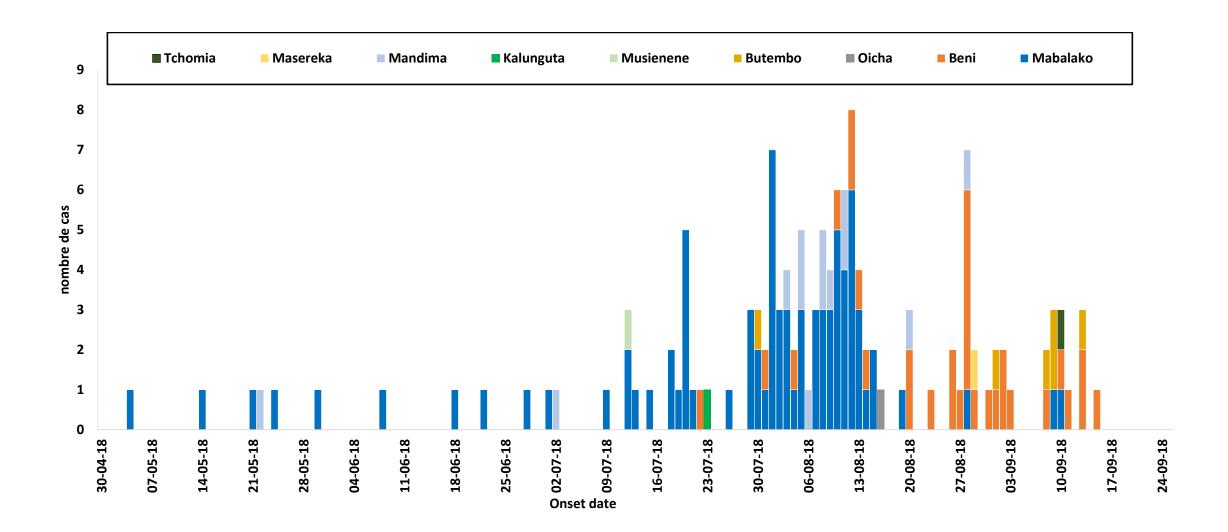


**11044** Vaccinated (contacts , contacts of contacts dans FLHW)

#### **19** Health staff infected (**3 deaths**)

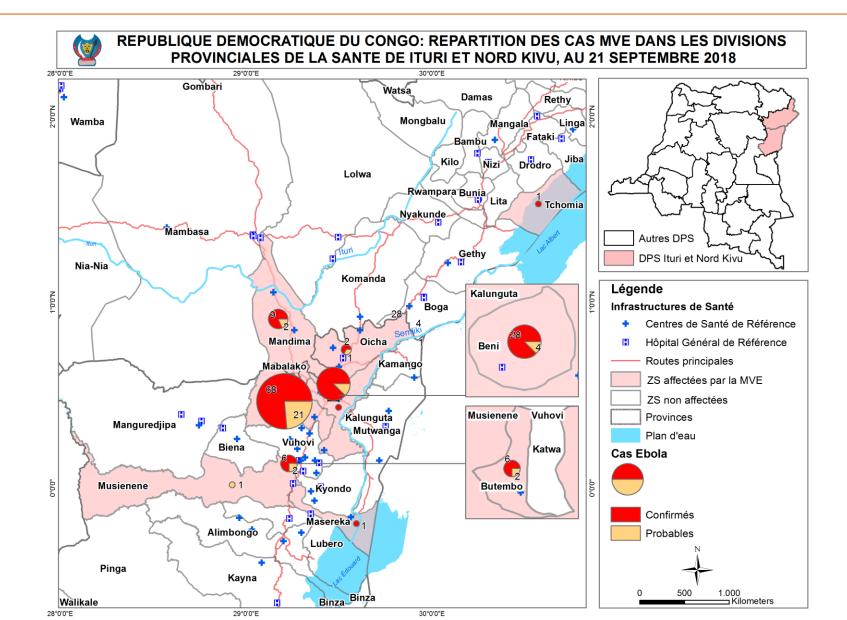
**Global Mortality: 66%** 

### **EVD cases per site**



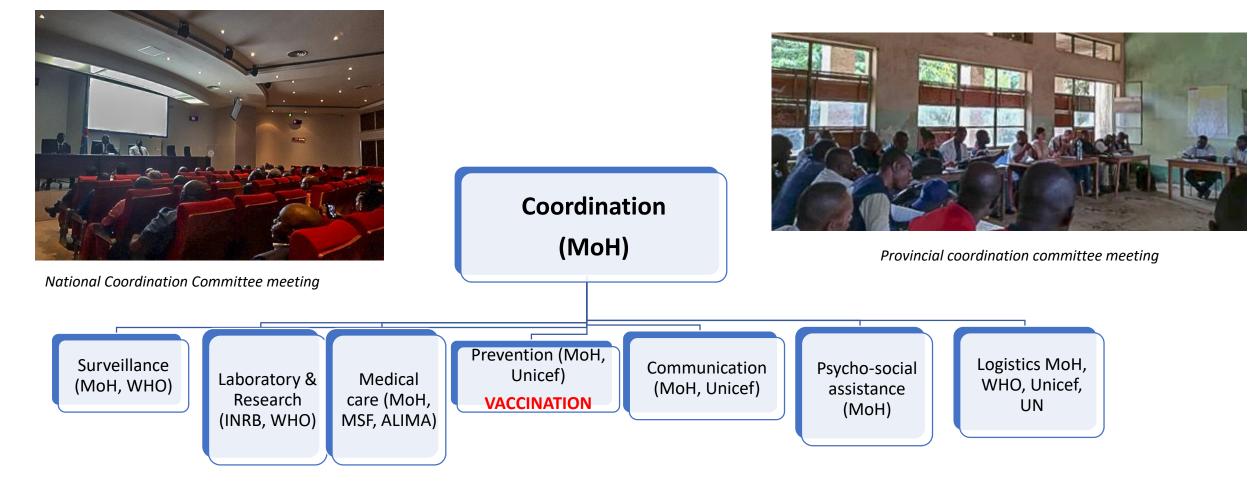
6

### **Current situation in the field: 21 September 2018**



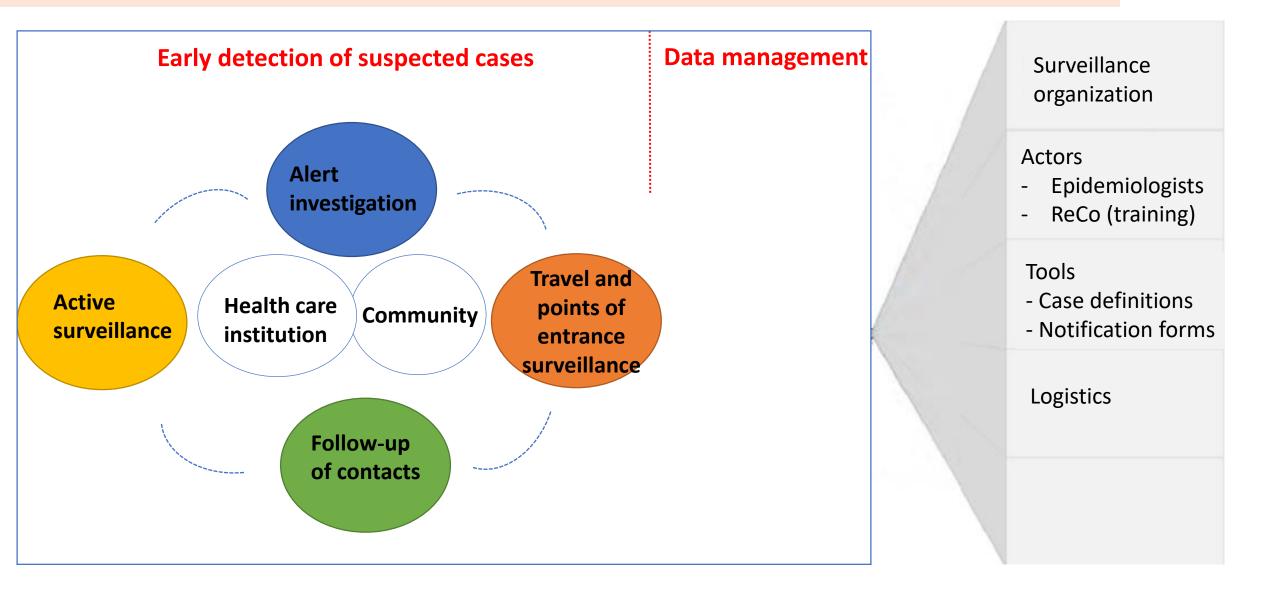
# **EVD Response strategy: National leadership**

Establishment of a national and field multidisciplinary coordination



## EVD Response strategy **Surveillance**





## **EVD Response strategy: Surveillance**



# community based surveillance



Surveillance activities at the airport, Bikoro outbreak, 2018





L'équipe de la prise en charge sort un cas suspect de la maison. LOKOLIA/ Boende/ Equateur, RDC, 2014

# **EVD Response strategy: Laboratory and Research**

#### $\,\circ\,$ Diagnostic activities

- ✓ Rapid tests (OraQuik and QuickNavi)
- ✓ RT-PCR using
  - Smartcycle,
  - Lightcycle
  - GenExpert
- ✓ ELISA (serial test of IgG)
- $\,\circ\,$  Follow-up of patients in CTE
  - ✓ RT-PCR
  - ✓ Hematological and biochemical tests (Piccolo and I-start)



# **EVD Response strategy: Medical care**

#### • Medical care activities

- ✓ Isolation of patients
- ✓ Supportive treatment
- ✓ Free medical consultation

- ✓ Trials using 5 molecules in MEURI protocole
- $\checkmark$  37 patients have been treated with drugs



Isolation cube for patients in CTE, Béni outbreak, 2018

# **EVD Response strategy: Medical care**

Drugs	Site	Number of treated Patient
mAb 114	MANGINA	14
	BENI	3
	BUTEMBO	4
REMDESIVIR	MANGINA	5
	BENI	4
ZMAPP	BENI	7
TOTAL		37

Experimental drugs in MEURI protocole

# **EVD Response strategy: Prevention**

• Break the chain of transmission in the community and

hospitals

- ✓ Training on hospital hygiene
- $\checkmark$  Installation of handwashing points

#### ✓ Vaccination

 $\checkmark$  Humanized and secure burial

#### $\,\circ\,$ WASH activities

✓ Drinking water supply✓ Installation of latrines







Vaccination of medical staff in Bikoro, 2018

#### **EVD Response strategy: Communication and Social mobization and engagement**

medicale

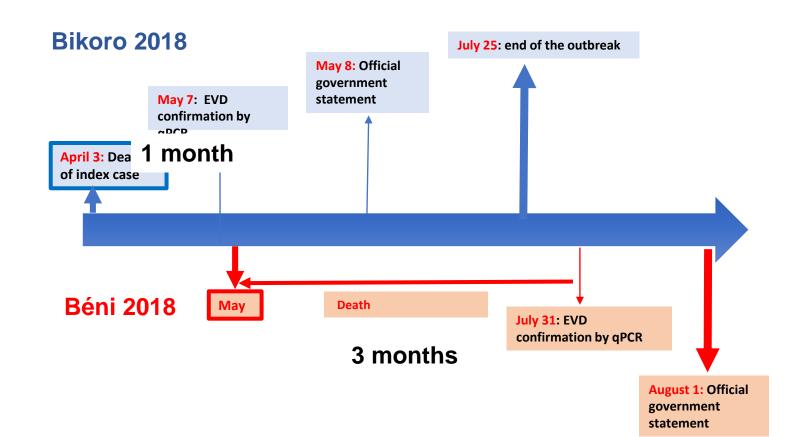


# Objective: to obtain community engagement for a sustainable change of behavior (education sessions and dialog)



### **Key Challenges**

- 1. Early detection
- 2. Logistics
- 3. Community engagement
- 4. Security



### Message to AVMI community



**Curent oubtreaks in DRC** 

- Ebola
- YF cases
- Measles
- Polio: VDPV
- Cholera
- ....
- All are vaccine preventable diseases

We need vaccine manufacturing capacity to respond to outbreks

# **THANKS**