



# DRC PPR UPDATE

Drs D.N. KASONGO, MADIAMBA and N'LEMBA





Oie

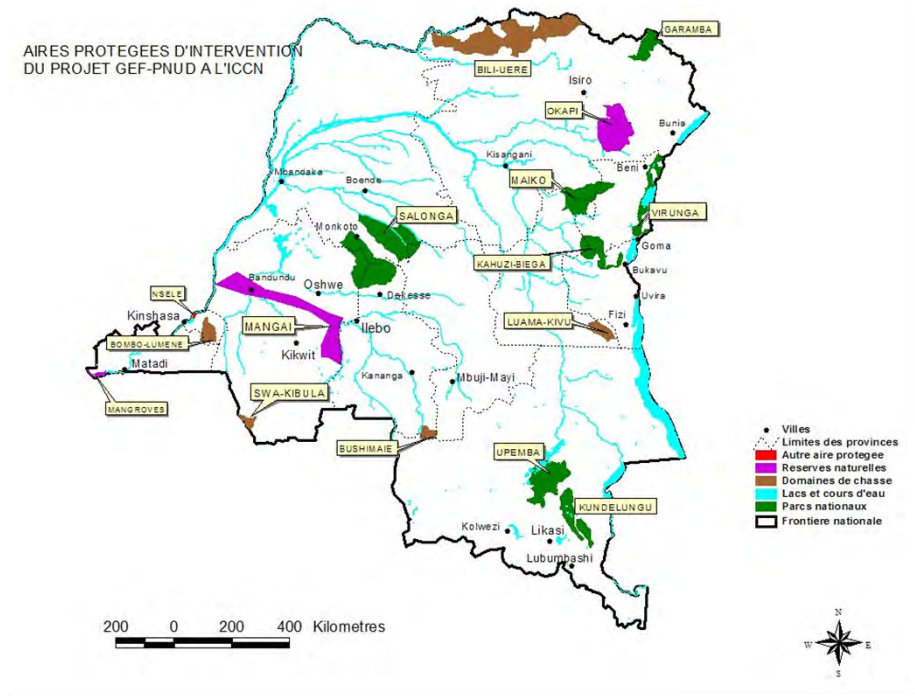


## I. INTRODUCTION: DRC SITUATION

- Surface: 2.344.860 km<sup>2</sup>
- Population: around 80.000.000
- 9 Neighbouring countries:  
North: RCA and South Soudan,  
East : Ouganda, Rwanda, Burundi and Tanzania,  
West : Congo Brazzaville  
South- East: Zambia and at South-West : Angola.
- Length shared with neighbouring countries: 10.200 Kms
- Animals populations: **1,4 million Cattle, 5,5 millions small ruminants** (1,3 million Sheeps and 4,2 million Goats), **1,4 million pigs and 22,3 millions poultry.**
- Environment: 8 large national parks, several natural reserves (protected and non protected), large population of wildlife (antelopes, buffalos, elephants, monkeys,...)



## Protected natural reserves & wildlife





Oie



## II. PPR HISTORIC

- **2008** : alerts for mortalities of small ruminant in the Equateur province.
- **2008 to 2013** : disease report at others provinces
  - Kinshasa (Kimwenza and Ndjili areas);
  - South Kivu (Walikale territory);
  - Bas Congo : Tshela and Lukaya areas
  - Bandundu : mortalities at Gungu, Masi Manimba territories;
  - Equateur : Boende, Lisala, Gemena and Gbadolite areas;
  - Orientale province : Bas Uele and Tshopo districts;
  - Maniema : Kindu and Kailo areas.
- . OIE notification 29th march 2012



Oie



### III. PPR DISTRIBUTION (january 2012 to march 2013)

#### ❖ january 2012 :

- Bulungu, Masi-manimba, Feshi (Bandundu province);
- Gemena (Equateur)

#### ❖ March 2012 :

- Makanza, Bikoro (Equateur);
- Songololo (Bas-Congo)

#### ❖ April 2012 :

- Idiofa (Bandundu);
- Mbanza-Ngungu(Bas-Congo)



Oie



## PPR DISTRIBUTION (january 2012 to march 2013).....

- ❖ July 2012 :
  - Mbuji-Mayi (Kasaï Oriental);
- ❖ August 2012 :
  - Luiza(Kasai Occidental);
  - Malemba Nkulu (Katanga)
- ❖ December 2012 :
  - Maluku(Kinshasa);
  - Basoko , Isangi ( Orientale)
- ❖ January 2013 :
  - Aketi (Province orientale)
  - Kindu (Maniema)
  - Kalehe ( Sud Kivu)
- ❖ March 2013 : Fizi (Sud Kivu)



Oie



## DISTRIBUTION PPR

- ❖ Aout 2012 : Luiza(kasai Occidental), Malemba  
Nkulu(katanga)
- ❖ Décembre 2012 : Maluku(Kinshasa),  
Basoko , Isangi(Province orientale)
- ❖ Janvier 2013 : Aketi(Province orientale)  
Kindu(Maniema)  
Kalehe( Sud Kivu)
- ❖ Mars 2013 : Fizi (Sud Kivu)



Oie



## IV. PPR outbreaks

Period	Province	District	Effective	Cas	Deaths
Nov 12	Equateur	Mongala	70365	981	295
To		Sud Ubangi	113900	851	851
Mars 13		Tshuapa	20936	206	160
	Bandundu	Kwilu	290687	770	433
		Plateau	890 (**)	26	26
	Bas Congo	Bas Fleuve	97511	1417	779
		Lukaya	63000	1093	877
	Kinshasa	Mont Amba	53	40	36
	Maniema		104675	3467	1000
	Kasai Occ	Kasai	303708	9337	9337
	Orientale	Bas Uele	5785	543	543
		Tshopo	24108	248	168





Oie



## PPR - specific record: samples submitted since initial alerts (1)

N°	Réf. Labo.	Date d'entrée	Espèce	Origine	Nature de Prélèvement	Nbre de prélev.	RESULTATS
							ELISA
1.	102/08	19/09/2008	caprine	ZOO / Kinshasa	sérums	1	Non testés
			ovine		sérums	5	"
			caprine		sérums	3	"
2.	103/08	19/09/2008	ovine	ZOO / Kinshasa	sérums	3	"
			caprine		sérums	3	"
3.	104/08	19/09/2008	caprine	ZOO et KIMWENZA / Kinshasa	sérums	4	Négatifs
			ovine		sérums	6	Négatifs
4.	105/08	19/09/2008	caprine	Femme BINAKABI / KINSHASA	sérums	7	1 positif
			ovine		sérums	8	Négatifs
5.	108/08	22/09/2008	caprine	GOMA / Nord - Kivu	sérums	30	Négatifs
			caprine		sérums	12	Négatifs
6.	109/08	24/09/2008	ovine	WALIKALE/ Sud - Kivu	sérums	20	Négatifs
7.	138/08	.....	caprine		sérums	36	Négatifs
			ovine	sérums	5	Négatifs	
8.	.....	19/12/2008	caprine	MATADI/ Bas - Congo	sérums	15	1 positif
			caprine		sérums	12	Négatifs
9.	145/08	30/12/2008	ovine	MATETE/ Kinshasa	sérums	4	Négatifs
			caprine		sérums	120	TOTAL 2008 : 159 (2)
TOTAL / ESPECE							



Oie



## PPR - specific record: samples submitted since initial alerts (2)

10.	010/09	24/01/2009	caprine	BULUNGU/ Bandundu	sérums	66	Négatifs
11.	012/09	27/01/2009	caprine	TSHELA/ Bas -	sérums	63	11 positifs
			ovine	Congo	sérums	3	1 positif
12.	.....	.....	caprine	LUKAYA/ Bas -	sérums	20	4 positifs
13.	019/09	05/02/2009	caprine	Congo	sérums	22	Négatifs
			caprine	KIKWIT/ Bandundu	sérums	11	Négatifs
14.	022/09	.....	ovine	Equateur	sérums	4	1 positif
15.	046/09	14/04/2009	caprine	Equateur	sérums	20	Non testés
16.	087/09	25/08/2009	caprine	BOENDE/ Equateur	sérums	18	"
17.	103/09	09/10/2009	caprine	TSHELA/ Bas -	sérums	4	"
			ovine	Congo	sérums	17	"
18.	113/09	06/11/0209	caprine	KWILU-KWANGO/ Bandundu		30	"
19.	116/09	12/11/2009	caprine		sérums	18	"
			<b>TOTAL / ESPECE</b>	<b>caprine</b>		<b>272</b>	<b>TOTAL 2009: 189 (17)</b>



Oie



## PPR - specific record: samples submitted since initial alerts (3)

20.	063/010	8/5/2010	caprine	locale	Adulte	BOENDE/ Equateur	sérums	19	19	3 positifs
21.	066/010	8/9/2010	caprine	locale	Adulte	BOENDE/ Equateur	sérums	14	14	4 positif
22	071/010	14/07/010	caprine	locale	Male Adulte	KINSHASA	rein rate poumon	1 1 1	3	
23	091/010	10/26/2010	caprine	locale	Adulte	MINOCONGO/KINSHS A	sérums écouvilon	2 1	3	2 positifs
24	098/010	11/16/2010	caprine	locale	Adulte	MONT-NGAFULA/ KINSHASA	foie poumon coeur	2 2 2	6	
25	106/010	10/27/2010	caprine	locale	Adulte	BOENDE/ Equateur	sérums	32	32	1 positif
caprine								77	77	TOTAL 2010 : 77
ovine								0		



Oie

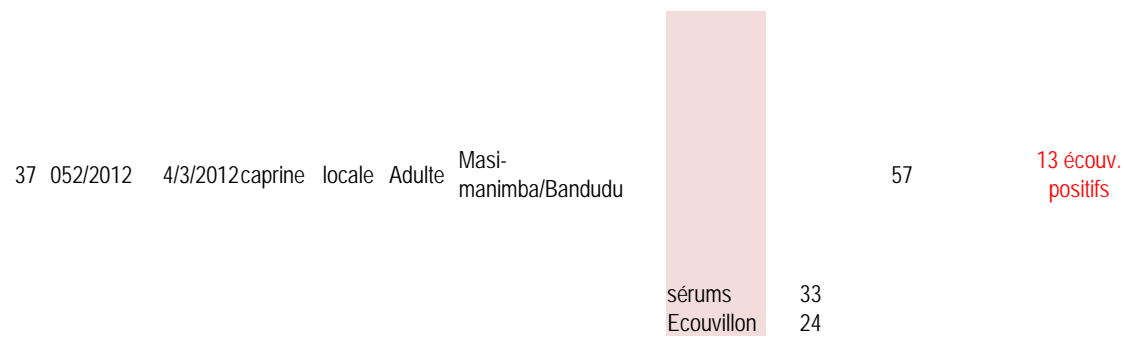


## PPR - specific record: samples submitted since initial alerts (4)

26	009/011	1/20/2011	caprine	locale	Adulte	MADIMBA/BAS CONGO	sérums écouv asaux rate poumon foie	1 3 1 1 1	7	1 sérum positif
27	012/011	1/28/2011	ovine	locale	Adulte	MONT- NGAFULA/KINSHASA	sérums	2	2	1 positif
28	014/011	2/2/2011	ovine	locale	Adulte	NGAFULA/KINSHASA	sérums	1	1	
29	016/011	2/5/2011	caprine	locale	Adulte	BOENDE/ Equateur	sérums	10	10	3 positifs
30	024/011	3/20/2011	caprine	locale	Adulte	BOENDE/ Equateur	sérums	8	8	
31	032/011	4/10/2011	caprine	locale	Adulte	BOENDE/ Equateur	sérums	9	9	2 positifs
32	043/011	5/29/2011	caprine	locale	Adulte	BOENDE/ Equateur	sérums	7	7	
33	053/011	7/19/2011	caprine	locale	Adulte		sérums foie rein poumon ganglion sérums	3 1 1 1 1 20	7	2 sérums positifs
34	070/011	9/6/2011	caprine	locale	Adulte	TSHELA / Bas- Congo	foie rein poumon ganglion sérums	2 2 2 2 109	28	tous les 8 organes positifs
35	075/011	9/19/2011	caprine et Ovine	locale	Adulte	Equateur (lisala,gemena et Gbadolite)	foie rein poumon ganglion sérums	20 20 20 20 109	189	40 organes positifs
36	079/011	10/5/2011	caprine	locale	Adulte		sérums Ecouvillon s	3 4	7	
							caprine	261	275	TOTAL 2011 : 275
							ovine	14		



## PPR - specific record: samples submitted since initial alerts (5)





Oie



PPR affected Provinces / Districts:  
following laboratory confirmation and syndromic alerts.





Oie



## PPR outbreaks





Oie



## Major risk factor of animal disease contamination

- Movements of live animals and by products,
- Farming systems (free ranging),
- Slaughtering systems,
- Trade systems,
- Transportation of live animals to the markets,
- Poor management of livestock and livestock exploitation
- Porosity of the national borders,
- Weakness of veterinary policies,
- Transhumance (pastoralism),
- Wars (involvement of refugees' and forced movements of populations).





Oie



## V. PREVENTION ACTIVITIES

- project TCP/DRC/3403 « Emergency support for PPR control »
    - vaccination around 500 000 sheep and goats in 4 stages (Masi-Manimba outbreak);
  - Results :
    - phase 1 : 177 135 (areas: Bindungi and Kizenzengi)
    - phase 2 : 236 040 (areas : Pay Kongila, Kibolo and Sungu)
    - phase 3 : 103 008 (areas : Kitoy and Kizenge)
    - phase 4 : 89 334 (areas : Mokano and Mosango)
- Total vaccination : **605 517**



Oie



## PREVENTION ACTIVITIES....

- Project TCP/DRC/3403 « sanitary prevention »
  - define the sanitary area from Masi-Manimba outbreak.
  - Start-up the sanitaries measures policy (control of movement of livestock, quarantine...)



Oie



## VI. INTERVENTION PLAN

- ❖ National Government plan (campaign of vaccination for year 2013) :
  - Bas-Congo province : 480 000 doses
  - Bandundu : 480 000 doses
  - Kasai Occidental : 640 000 doses
  - Kasai Oriental : 500 000 doses



Oie



## INTERVENTION PLAN...

- ❖ partner interventions (2013) :
  - PARRSA programme (fund World Bank) :  
vaccination campaign in Equateur province :  
500,000 doses
  - PIRAM programme (fund FIDA) : vaccination plan  
in Maniema province (Kindu city and around, Kailo  
territory) : 160, 000 doses



Oie



## INTERVENTION PLAN...

- **Project OSRO/DRC/302/SWE** «Emergency support for PPR control » :
  - Bandundu province (territories Kenge, Bulungu, Gungu, Idiofa and Kikwit city)
  - Kasai Occidental province (territories Tshikapa, Mueka and Luebo)



Oie



## VII. REGION STRATEGY

2011 and 2012 : organization of two meeting DRC- Angola- Zambia at Cabinda province (Angola) for start-up the region strategy of PPR control.



Oie



## VIII. SURVEILLANCE ACTIVITIES

- Passive surveillance by Veterinary Service (RENES, SQAV, Labo vét...)
- Active surveillance :
  - November 2012 : 167 samples collected at Katanga province (Sakania, Kipushi, Kasenga and Kambove territories);
  - All samples are collected in goats and their age 4 to 8 months.



Oie



## IX. CAPACITIES BUILDING

- Training workshop of epidemiologist (by FAO-RESPOND and Identify)
- Field Epidemiologic and Laboratory Training Program (FELTP)





Oie



## X. Key recommendations (specific to our current case)

- Good application of law with regard to the animal health policy,
  - ❖ Routine control at the level of frontiers by the vet officers:
    - Internal frontiers:
      - Territories,
      - Districts,
      - Provinces
    - National frontiers,
  - ❖ Routine control with regard to the farming, slaughtering, trade (live animals and commodities)
- Public awareness,
- Zoning followed by Vaccination (with quality assured vaccines) and Monitoring



Oie



## PPR outbreak in Kinshasa peri – urban area (2)





Oie



## PPR outbreak in Kinshasa peri – urban area (1)





Oie



## Current outbreak in Masimanimba

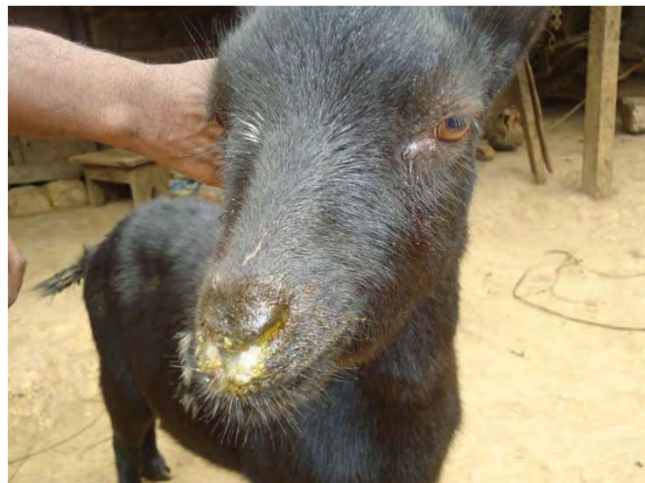
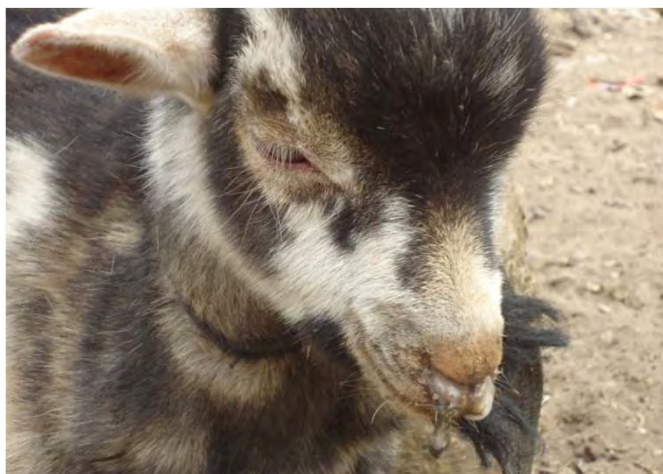




Oie



## Bas – Fleuve in Bas – Congo: 2011





Oie



**THANK YOU**  
**MERCI**  
**ASHANTI**