



Liberté • Égalité • Fraternité
RÉPUBLIQUE FRANÇAISE

MINISTÈRE
DE L'AGRICULTURE
ET DE
L'ALIMENTATION



Livestock and main animal diseases and threats in the french territories

Caribvet - Cuba

6 mai 2019

- Pol KERMORGANT, deputy director Guadeloupe

Plan

- Where are the french territories ?
- Livestock :
 - Cattle
 - Small ruminants
 - Pigs
 - Poultry
- Main diseases and main threats



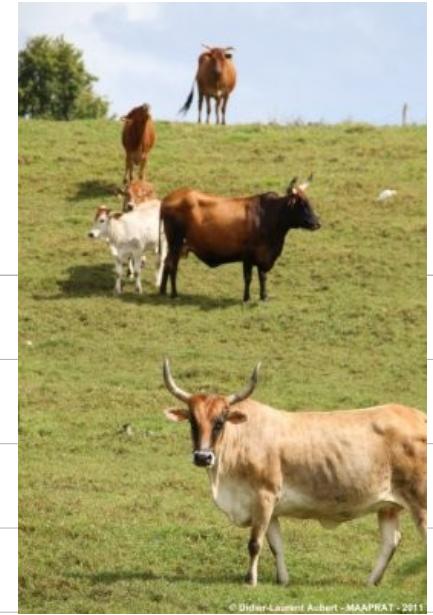
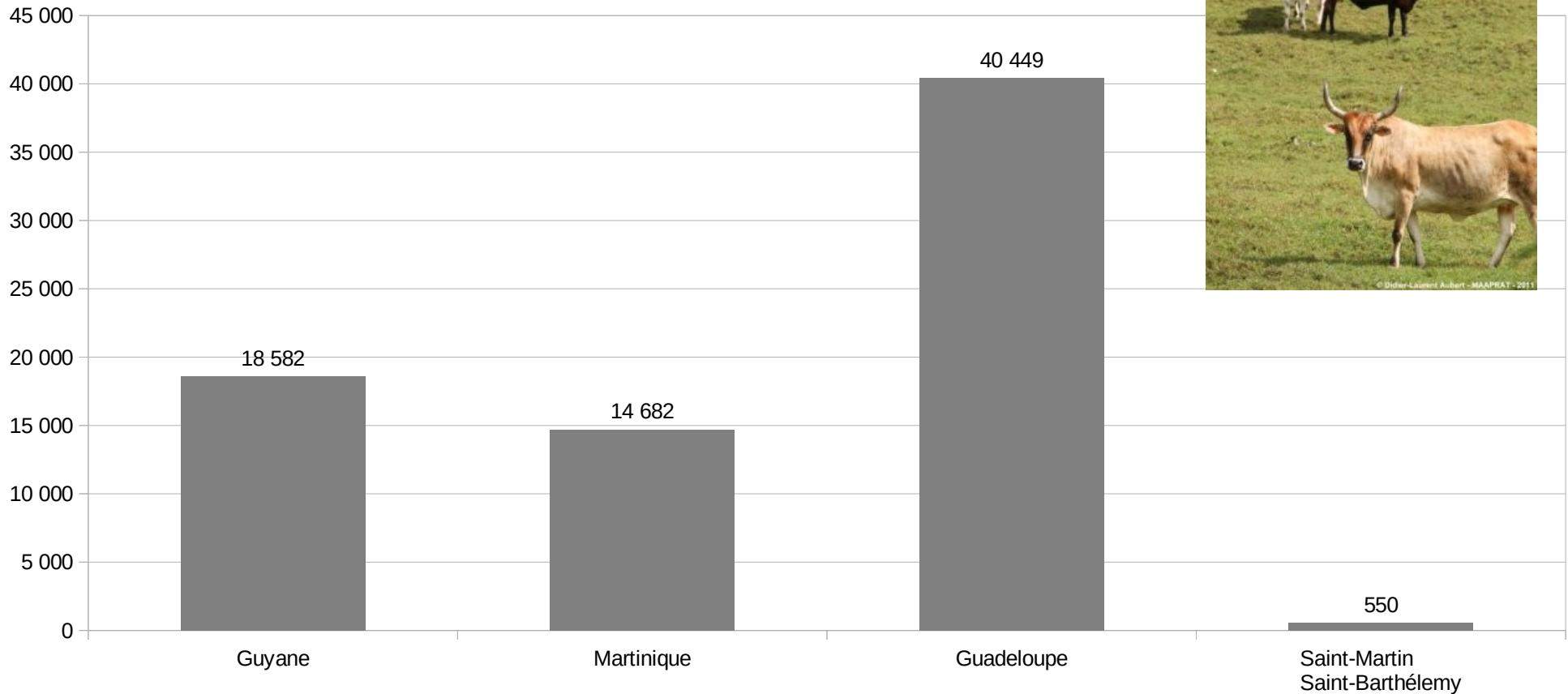
Where are the french territories ?



Cattle : 74 263 animals

Bovine livestock in the french territories

Data 2017



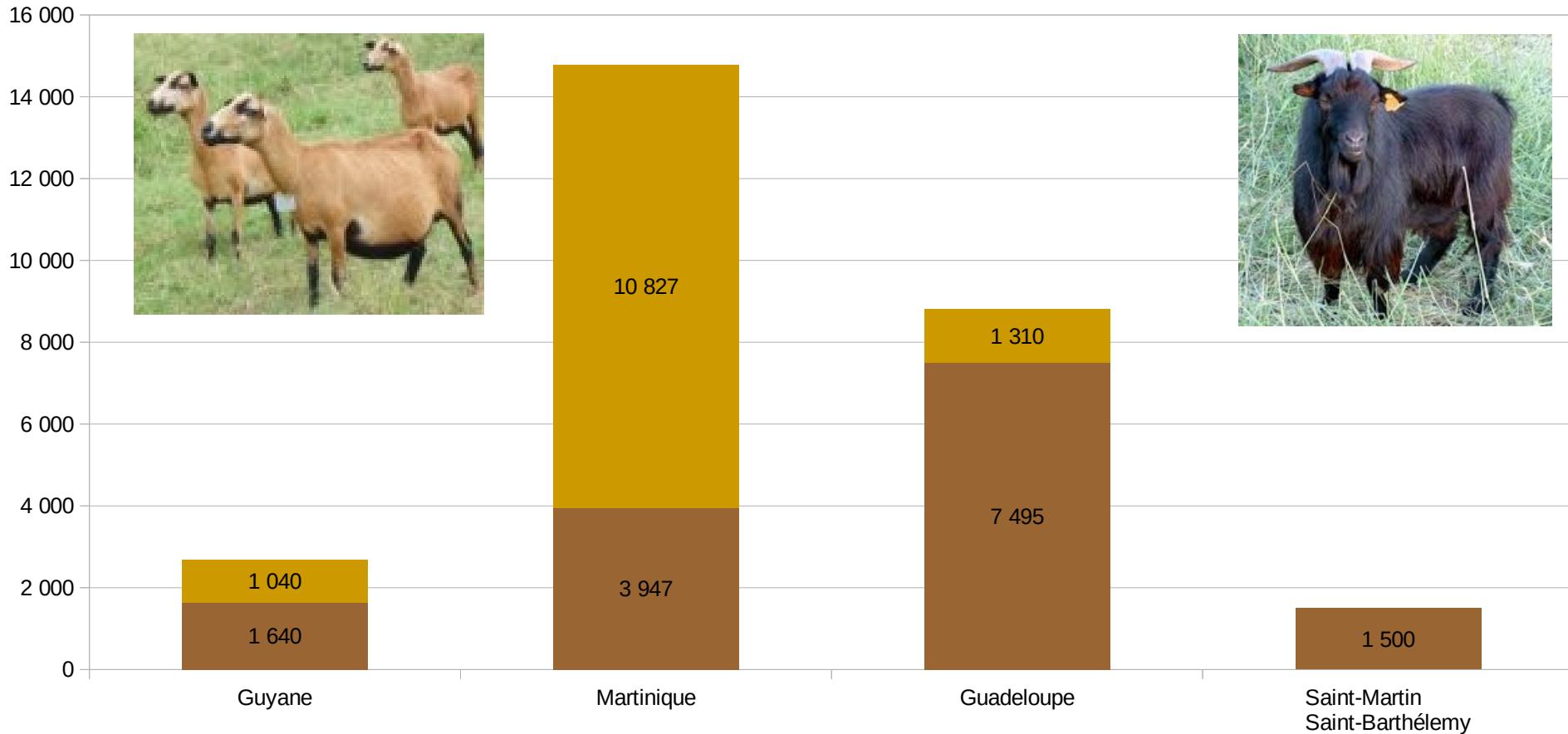
Small ruminants : 14 582 animals

Ovine and caprine livestock in the french territories

Sheeps

Goats

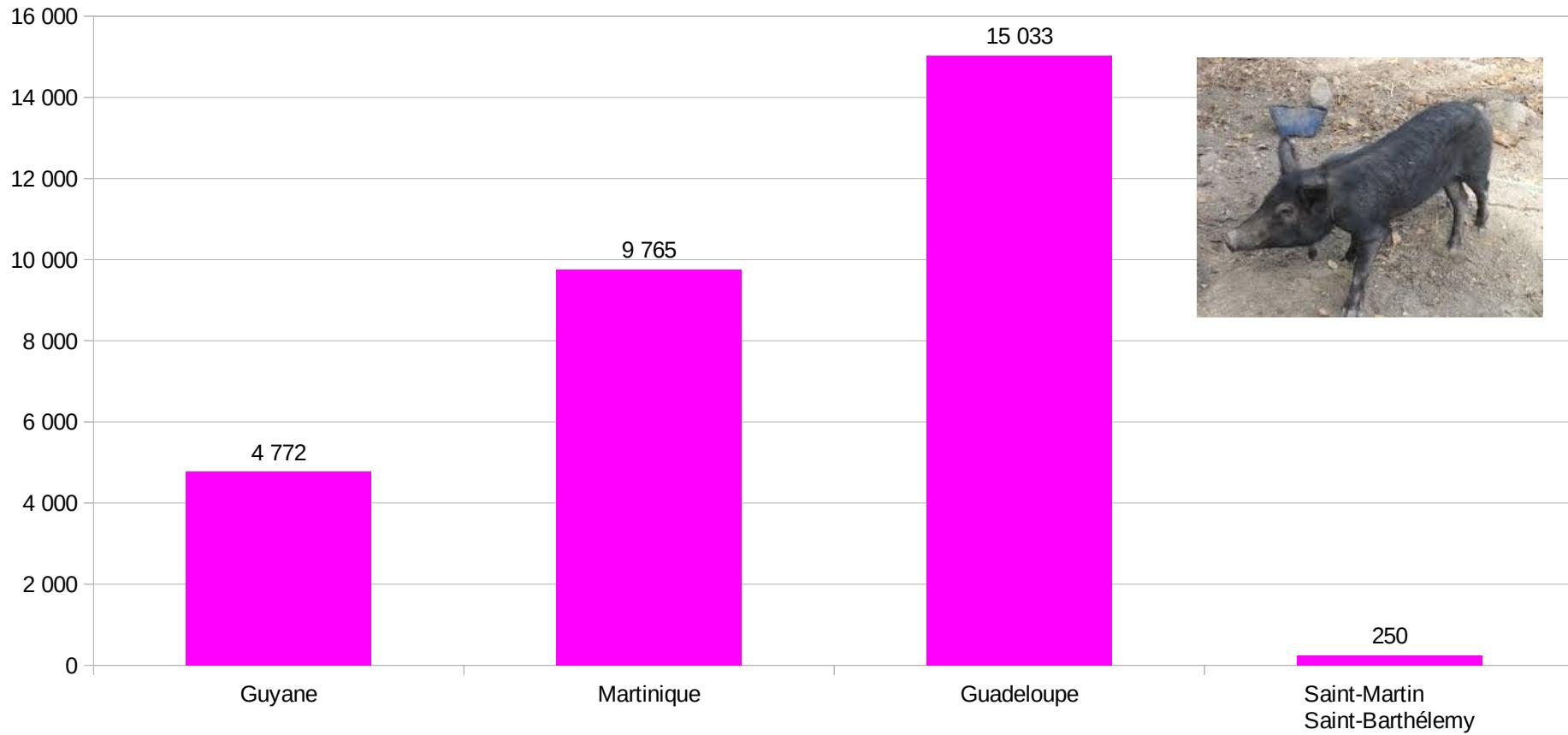
Data 2017



Pigs : 29 820 animals

Porcine livestock in the french territories

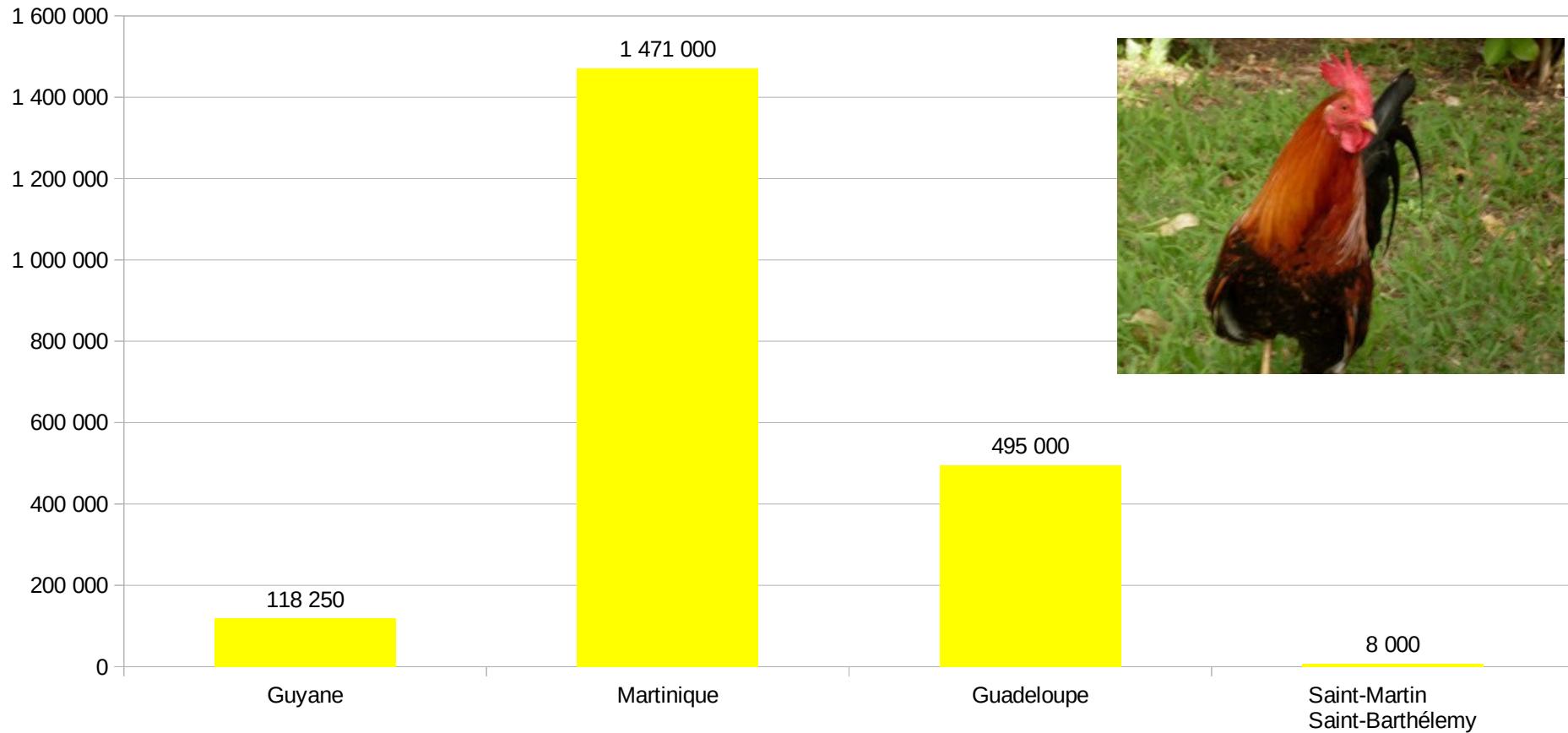
Data 2017



Poultry : 2 092 250 animals

Poultry livestock in the french territories

Data 2017



Most important existing diseases

The french national food security agency prioritized livestock diseases existing in the french territories using 7 criterias :

1. C 1 : capacity of diffusion
2. C 2 : economical impact
3. C 3 : impact on human health
4. C 4 : societal impact
5. C 5 : impact on ecosystems
6. C 6 : control feasibility
7. C 7 : economical, societal and environmental impact of the control measures



Connaitre, évaluer, protéger

Most important existing diseases for ruminants

- Martinique : 8 diseases
- Guadeloupe : 9 diseases
- Guyane : 10 diseases

Rang	Martinique	Note sur 70	Rang	Guadeloupe	Note sur 70	Rang	Guyane	Note sur 70
1	Dermatophilus congolensis	30,7	1	Dermatophilus congolensis	30,5	1	Trypanosoma vivax	37
2	Strongles digestifs	27,9	2	Amblyomma variegatum	28,6	2	Rhipicephalus microplus	30,9
3	Rhipicephalus microplus	27,8	3	Ehrlichia ruminantium (Heartwater)	27,7	3	Cochliomyia hominivorax	29,7
4	Amblyomma variegatum	27,2	4	Strongles digestifs	27,1	4	Anaplasma marginale	29,5
5	Anaplasma marginale	25,1	5	Rhipicephalus microplus	26,5	5	Strongles digestifs	29
6	Babesia spp	24,4	6	Babesia spp	26,3	6	Toxoplasma gondii	23,4
7	Bluetongue virus	21,9	7	Anaplasma marginale	25	7	Babesia spp	22,7
8	Leptospira interrogans	21,1	8	Leptospira interrogans	21,4	8	Bluetongue virus	22,1
			9	Bluetongue virus	20,8	9	Leptospira interrogans	21,4
						10	Rabies virus	18,2



Most important existing diseases for ruminants

→ 6 are present in Guadeloupe, Martinique and Guyane

Strongles digestifs	→ digestive worms
Rhipicephalus microplus	
Babesia spp	
Anaplasma marginale	
Leptospira interrogans	
Bluetongue virus	

→ 1 is present only in Guadeloupe

Ehrlichia ruminantium

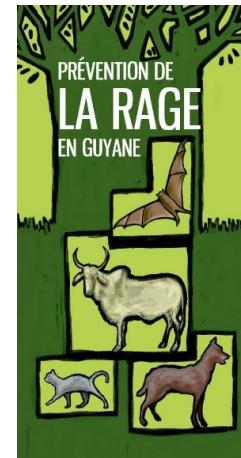
→ 2 are present only in Guadeloupe and Martinique

Dermatophilus congolensis
Amblyomma variegatum



→ 4 are present only in Guyane

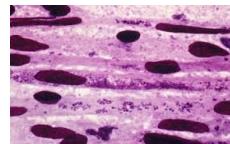
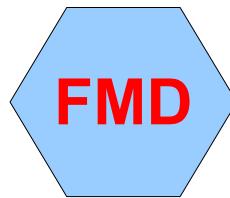
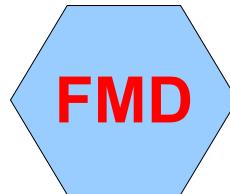
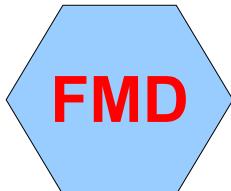
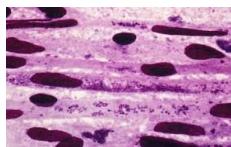
Trypanosoma vivax
Cochliomyia hominivorax
Toxoplasma gondii
Rabies virus



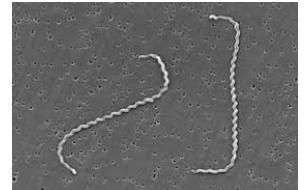
Most important threats for ruminants

- Diseases which could be introduced from other territories or foreign countries
- Prioritization using the same 7 criterias
- Results

Rank	Martinique	Rank	Guadeloupe	Rank	Guyane
1	<i>Ehrlichia ruminantium</i>	1	<i>Cochliomyia hominivorax</i>	1	Foot and mouth disease
2	<i>Cochliomyia hominivorax</i>	2	Foot and mouth disease	2	<i>Ehrlichia ruminantium</i>
3	Foot and mouth disease			3	<i>Amblyomma variegatum</i>



Most important existing diseases for pigs



- Same method
- Guadeloupe : 6 diseases
- Martinique : 8 diseases

Leptospira interrogans

Rank	Guadeloupe	Note finale	Rank	Martinique	Note finale
1	Leptospira interrogans	26,5	1	Leptospira interrogans	26,5
2	Circovirus PCV-2	25,1	2	Circovirus PCV-2	25,1
3	Isospora spp et Eimeria spp	23,3	3	E.coli vérotoxinogènes	24,4
4	Salmonella spp	23,2	3	Isospora spp et Eimeria spp	23,3
5	Mycoplasma hyopneumoniae	19,7	5	Salmonella spp	23,2
6	Ascaris suum	15,4	5	Mycoplasma hyopneumoniae	19,7
			7	Virus SDRP	17,8
			8	Ascaris suum	15,1

2 are present only in
Martinique

E.coli vérotoxinogènes
Virus SDRP

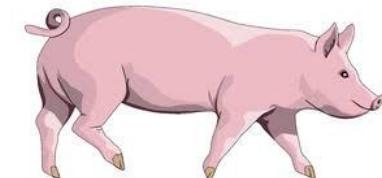
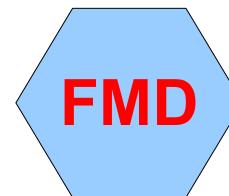
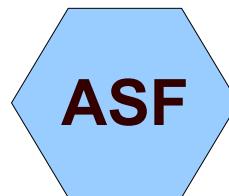
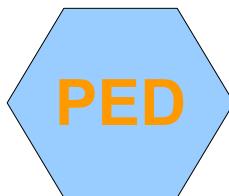
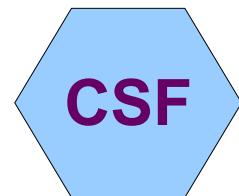
→ PRRS virus



Most important threats for pigs

- Same method
- Same diseases for Guadeloupe and Martinique but not the same ranks

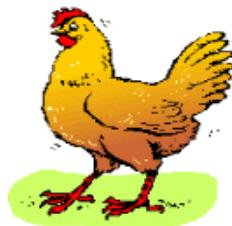
Rank	Martinique	Rank	Guadeloupe
1	Classical swine fever	1	Classical swine fever
2	DEP (hypervirulent strains)	2	African swine fever
3 ex	Foot and mouth disease	3	DEP (hypervirulent strains)
3 ex	African swine fever	4	Foot and mouth disease



Most important existing diseases for poultry

→ Same method

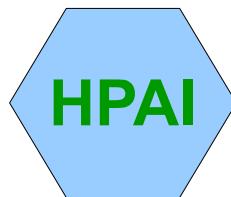
Guadeloupe	Martinique	Guyane
Salmonella enterica (Enteritidis, Typhimurium, Kentucky, Hadar, Virchow and Infantis)	Salmonella enterica (Enteritidis, Typhimurium, Kentucky, Hadar, Virchow and Infantis)	Clostridium botulinum type C or D
Avian pox virus	Avian pox virus	Salmonella enterica (Enteritidis, Typhimurium, Kentucky, Hadar, Virchow and Infantis)



Most important threats for poultry

→ One main threat for all :

Guadeloupe	Martinique	Guyane
High pathogenic avian influenza	High pathogenic avian influenza	High pathogenic avian influenza



And a threat for all mammals : rabies !

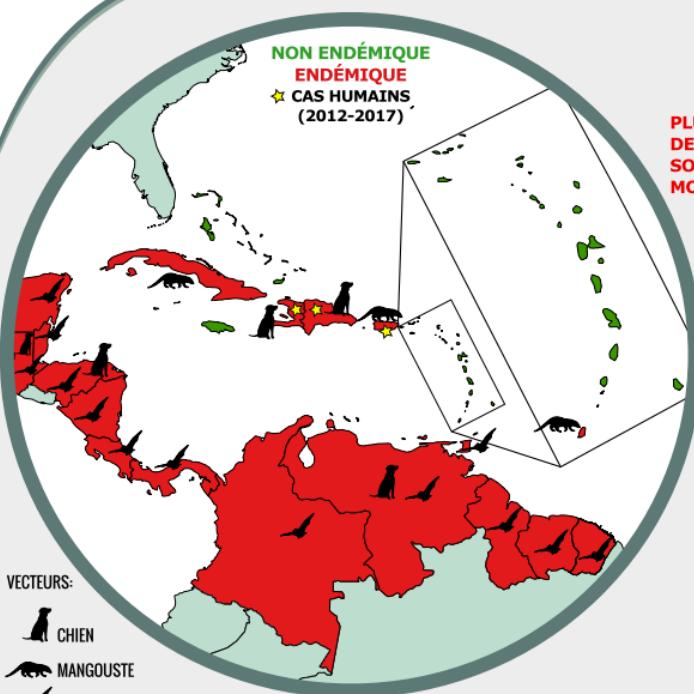


RAGE

UNE MENACE TOUJOURS D'ACTUALITÉ



NON ENDÉMIQUE
ENDÉMIQUE
★ CAS HUMAINS
(2012-2017)



VECTEURS:
CHIEN
MANGOUSTE
CHAUVE-SOURIS

PLUS DE 95% DES CAS DE RAGE HUMAINE SONT DUS A UNE MORSURE DE CHIEN

UNE FOIS LES PREMIERS SYMPTÔMES APPARUS, LA RAGE EST PRESQUE TOUJOURS MORTELLE

LA RAGE TUE UNE PERSONNE TOUTES LES 9 MIN DANS LE MONDE

Vous voyagez ? Ne rapportez pas la rage !

SI VOUS VOYAGEZ AVEC VOTRE ANIMAL, CONTACTEZ VOTRE VÉTÉRINAIRE AU MOINS QUATRE MOIS AVANT LE DÉPART

LA PLUPART DES CAS DE RAGE DANS LES PAYS INDEMNES VIENNENT DE MOUVEMENTS D'ANIMAUX INFECTÉS

Mieux vaut prévenir que guérir !

LA RAGE PEUT ÊTRE ÉVITÉE À 100% GRÂCE À LA VACCINATION



CaribVET © Comité 2017-2019



Conclusions

- Diseases and threats can be different from a territory to another one, even if they are close
- Prioritization helps to define epidemiosurveillance needs, priority control measures and emergency plans
- Data are often lacking : diseases status, old studies, animal and animal products exchanges...
- Need to share data between territories

Thank you for your attention

