



Towards a More Resilient Veterinary Workforce for Africa 2024

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One Health approach during outbreaks of avian influenza in wild birds in northern Senegal, 2022 and 2023

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OUTLINE

- Background
- Material and methods
- Results and discussion
- Lessons learned
- What's next ?
- Next generation
- Conclusion

BACKGROUND

- ❑ December 2020, 1st outbreak of HPAI in Senegal: laying hens
- ❑ January 2021: Djoudj national park, wild birds (Great White Pelicans)
- ❑ January 2022: Djoudj national park (PNOD), wild birds
- ❑ March 2023: Langue de Barbarie national park (PNLB), wild birds
- ❑ April 2023: domestic poultry
- ❑ Aim of this presentation :
 - ❖ Describe outbreaks in 2022 and 2023
 - ❖ Present the One Health approach used for disease control

MATERIAL AND METHODS

- ❑ Legal framework : National OH Taskforce Team (HCSSM-OH/PM)
- ❑ JEE and PVS reports : gap to be filled
- ❑ Training of field workers : FETP, ISAVET, Administration
- ❑ Field and tabletop simulation exercises
- ❑ Training of university teachers
- ❑ Introduction of OH approach in university curricula
- ❑ Implementation of Students One Health Innovative Clubs (SOHICs)
- ❑ Training students in theory and in practice using the CBE approach

MATERIAL AND METHODS

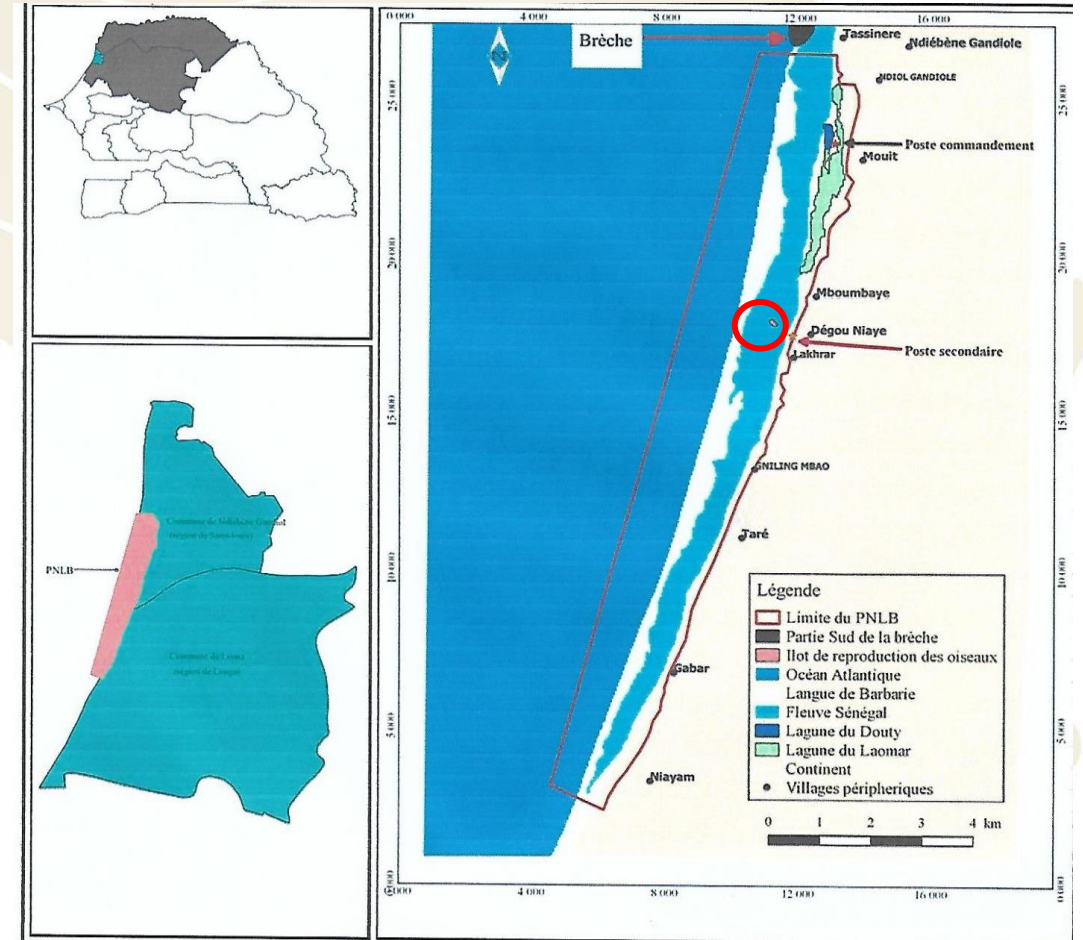
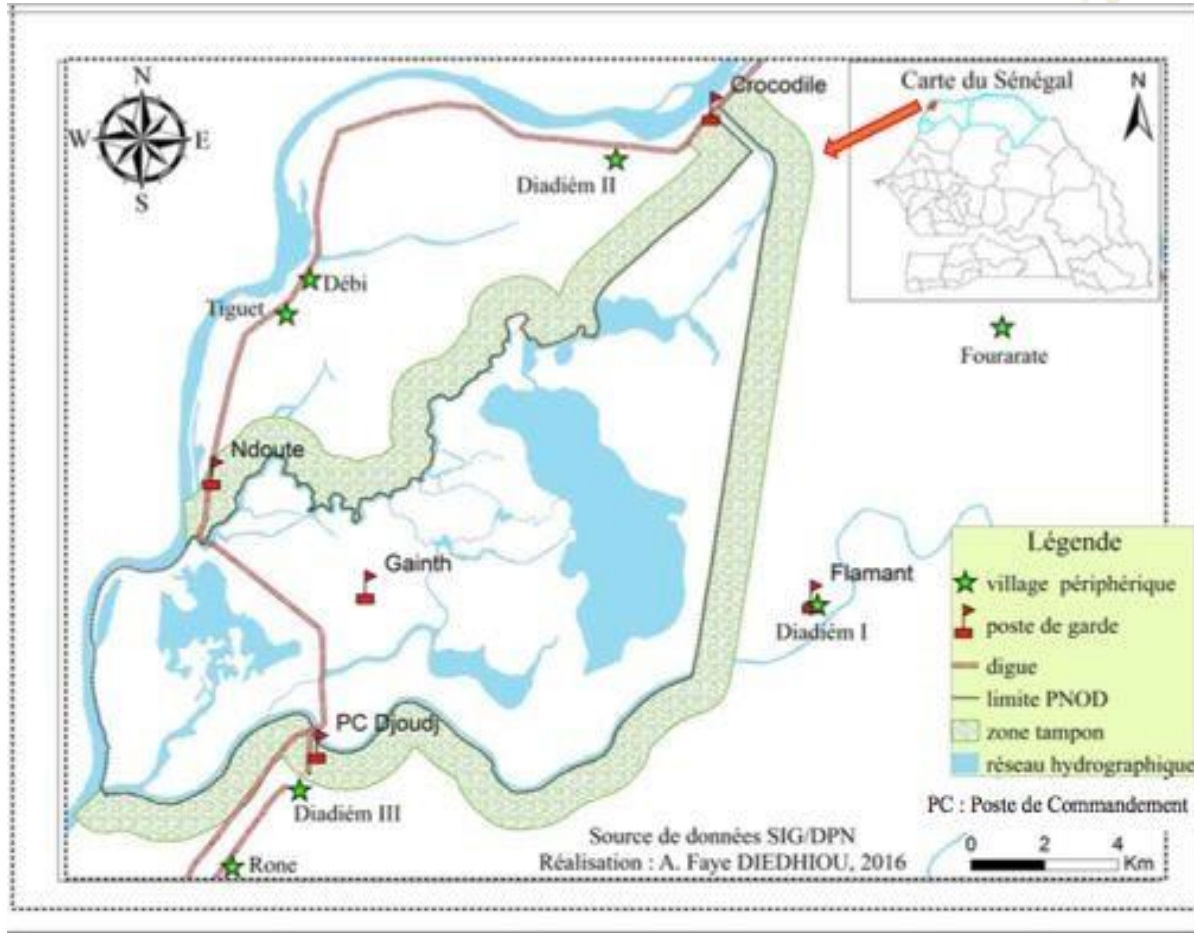


Fig 1: PNOD outbreaks location in 2022

Fig 2: PNLB outbreaks location in 2023

MATERIAL AND METHODS



(Source: PNLB, 2023)

Fig 3: Access to the breeding island by little boat in PNLB

RESULTS AND DISCUSSION

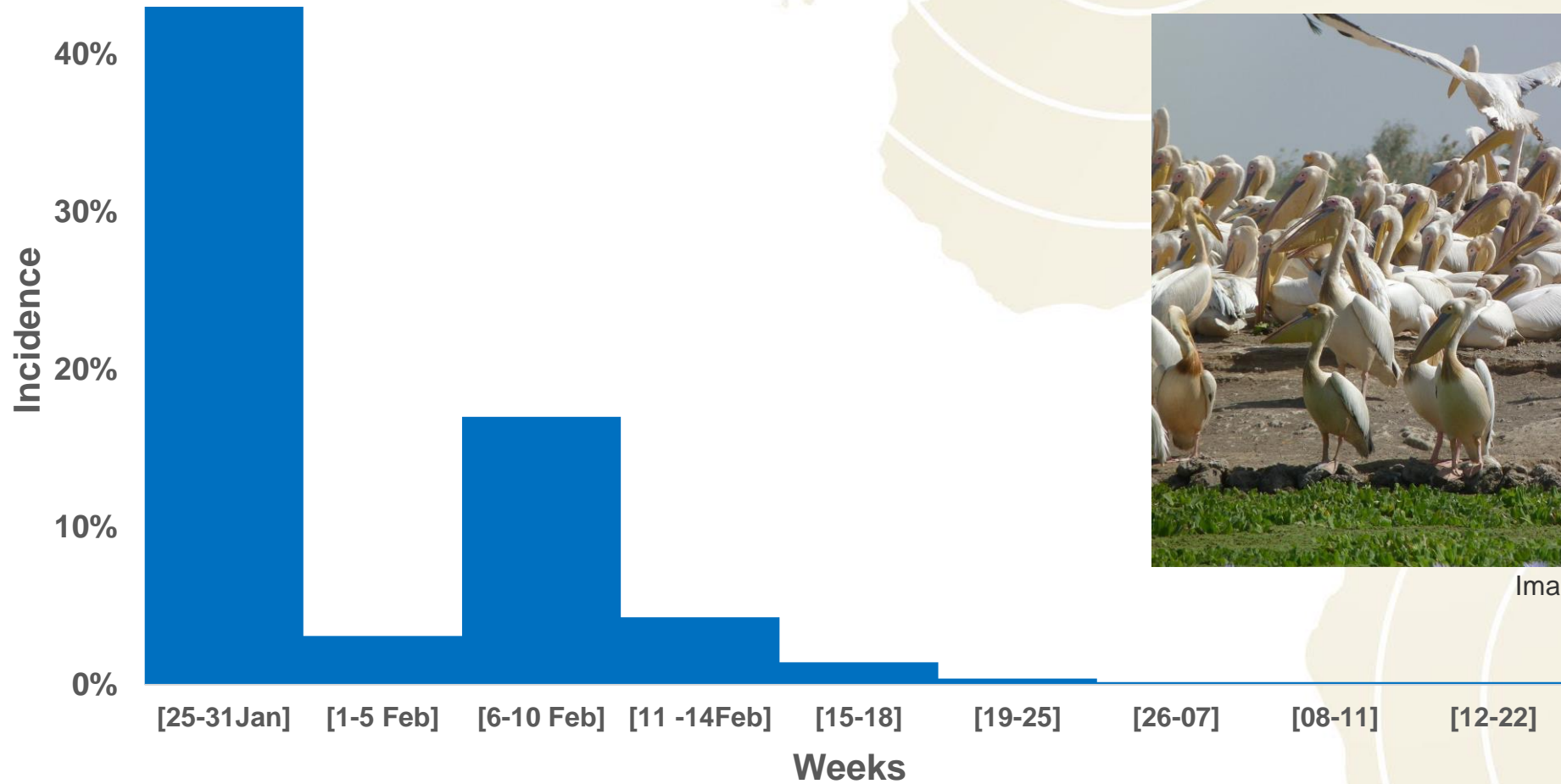


Image credit: @FAO/Ndao I.

Fig 4 : HPAI epidemic curve at PNOD park in 2022

RESULTS AND DISCUSSION

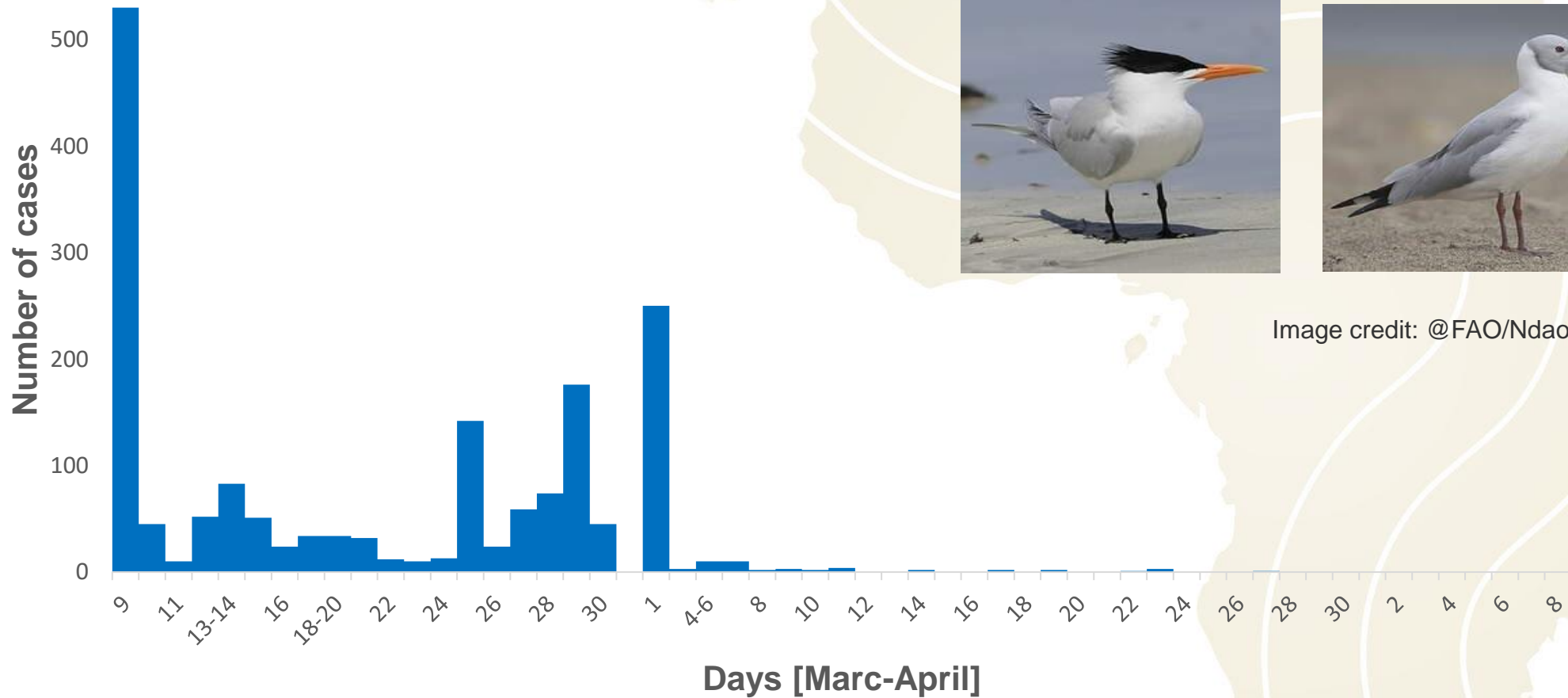


Image credit: @FAO/Ndao I.

Fig 5 : HPAI epidemic curve at PNLB park in 2023

LESSONS LEARNED AND CHALLENGES

- Wearing PPE in the heat of the day, in an aquatic environment
- Picking up dead birds on the riverbank over several kilometres
- Alert each year in January (equipment and training agents in advance)
- Training administrative authorities on OH facilitates implementation
- Pooling of resources
- Share best practices with other wildlife conservation teams in Senegal

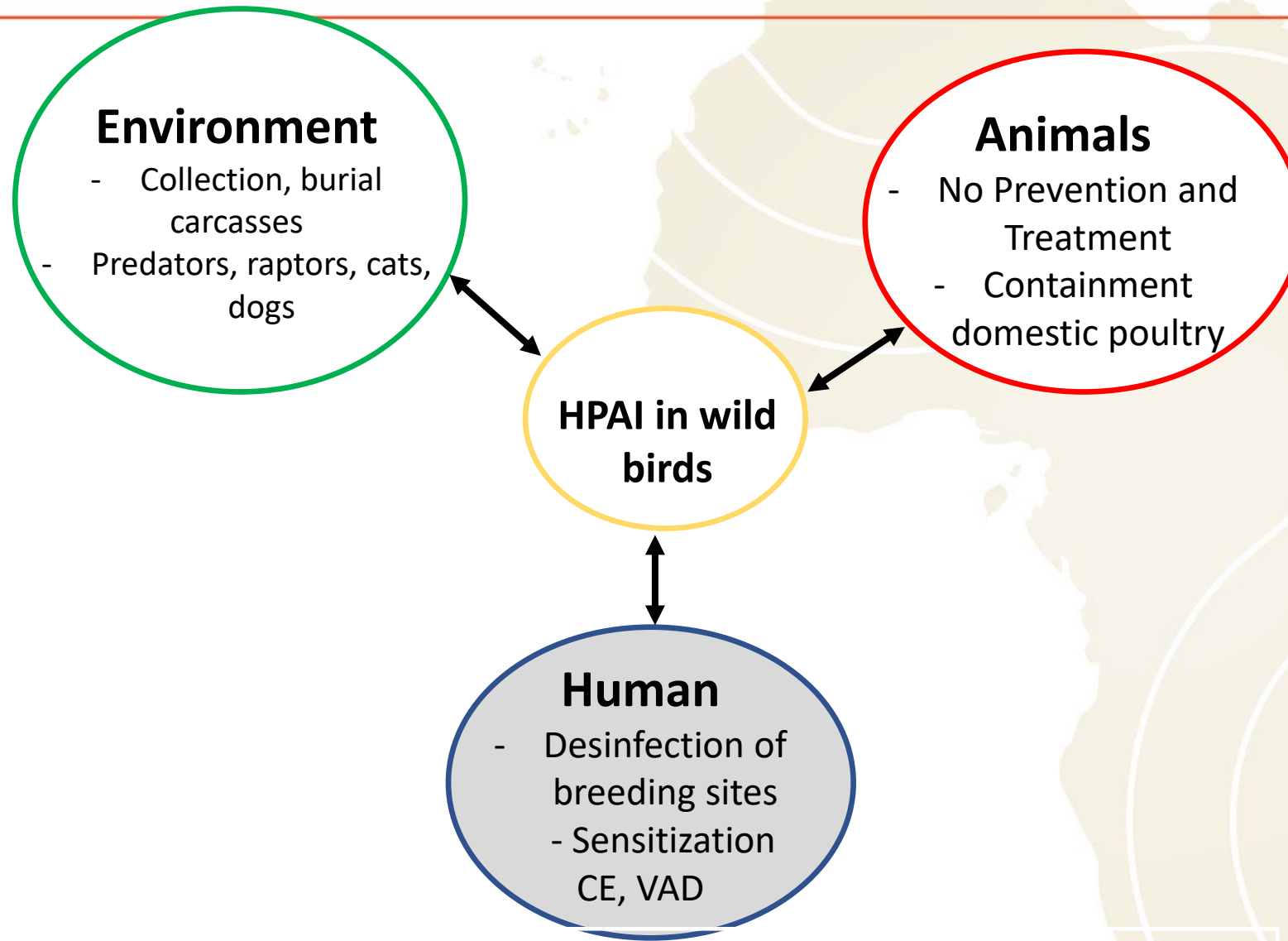


Fig. 6: *One Health* approach to control HPAI outbreaks in wildlife

NEXT GENERATION



CONCLUSION

- ❑ After facing 3 outbreaks of HPAI in wildlife and one of CCHF the Regional One Health Committee of St-Louis learned from previous experiences and capitalized on good practices
- ❑ Training Field workers from different disciplines together
- ❑ Training the next generation to better integrate challenges related to the implementation of OH approach in the field.



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