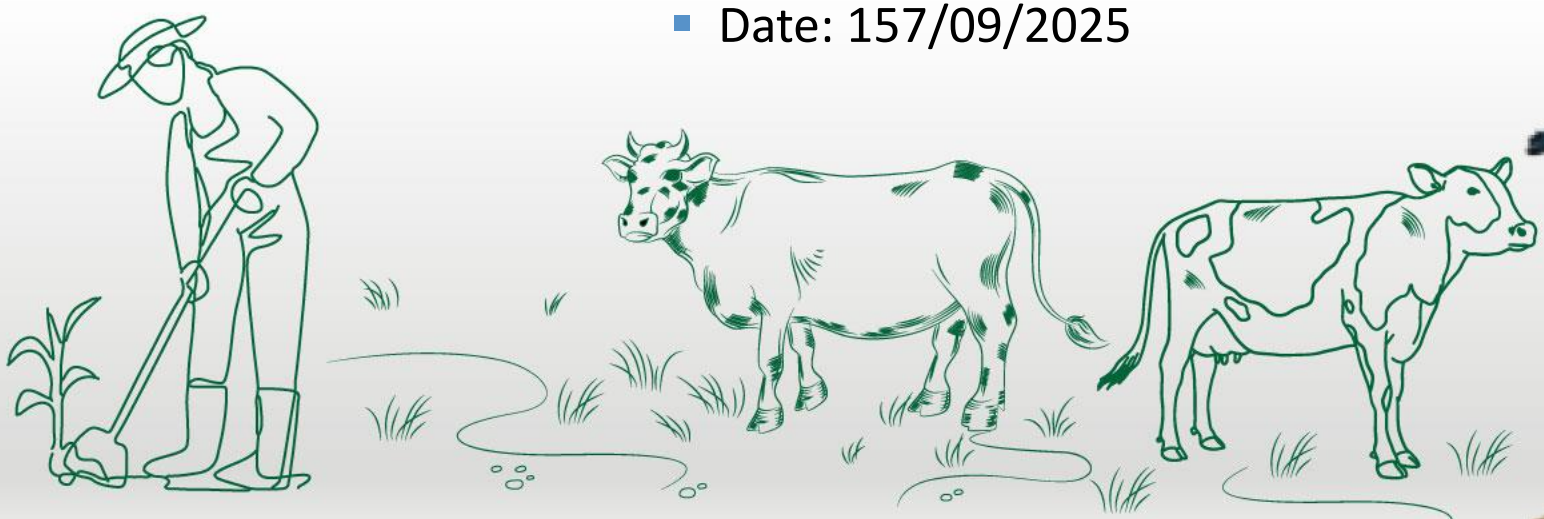
37TH CONFERENCE OF THE INTERNATIONAL SCIENTIFIC COUNCIL FOR TRYPANOSOMIASIS RESEARCH AND CONTROL (ISCTRC)
15 – 19 September, 2025 Nairobi, Kenya

37E CONFÉRENCE DU CONSEIL SCIENTIFIQUE INTERNATIONAL POUR LA RECHERCHE ET LE CONTROLE SUR LA TRYPANOSOMIASE (CSIRCT)
15 – 19 septembre 2025, Nairobi, Kenya

The national atlas of African animal trypanosomosis of Burkina Faso: update to 2025

Presenter: Dr Lassane PERCOMA

- Date: 157/09/2025





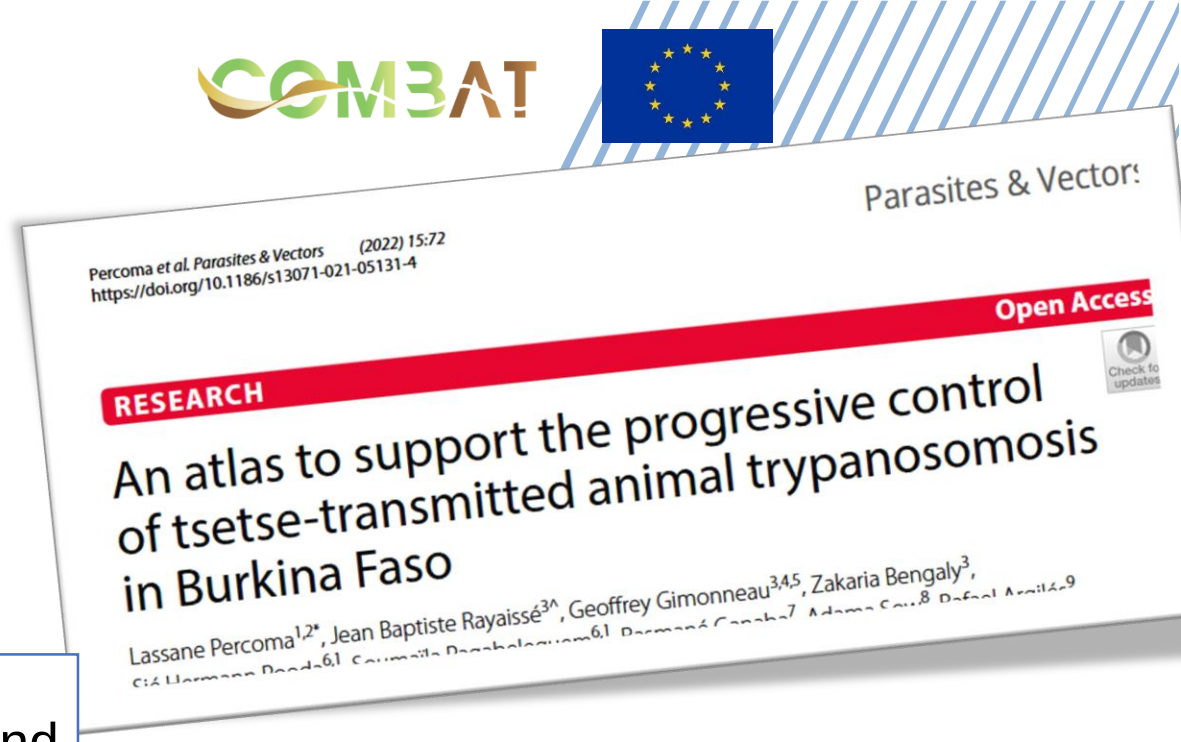
37TH International scientific council for trypanosomiasis research and control conference

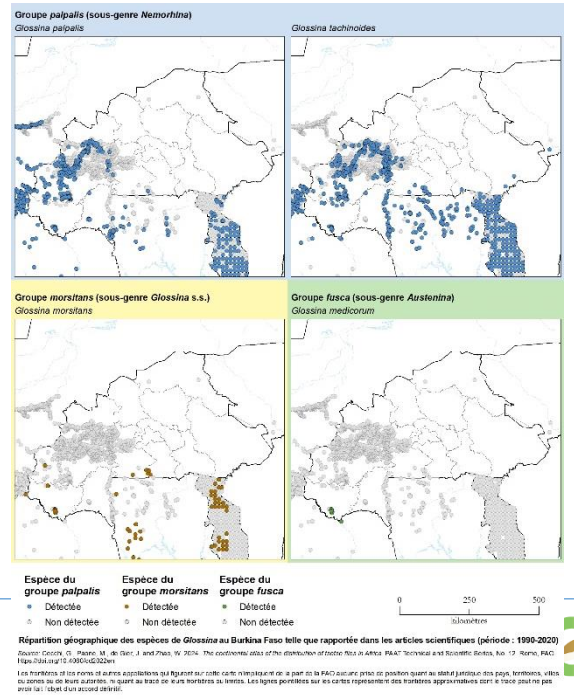
Background

- A national atlas of African animal trypanosomosis and it vector developed in Burkina Faso from 2016 to 2022

- This atlas based on raw data from published and unpublished paper or extracted data from scientific paper.

- This atlas contributed to :
  - ✓ Update the distribution of tsetse flies
  - ✓ Map AAT distribution in Burkina Faso in Burkina Faso.

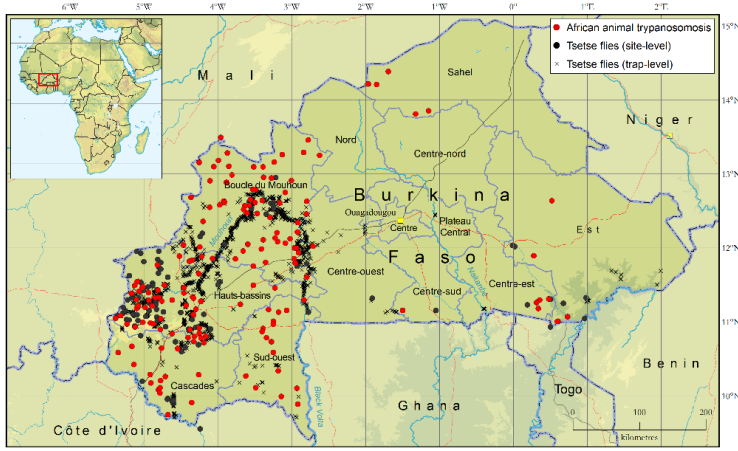




Background

❑ This atlas was affected by some lacks including :

- ✓ geographical coverage of data (lack of information from the north, north-east, north-west, centre and extreme east) ;

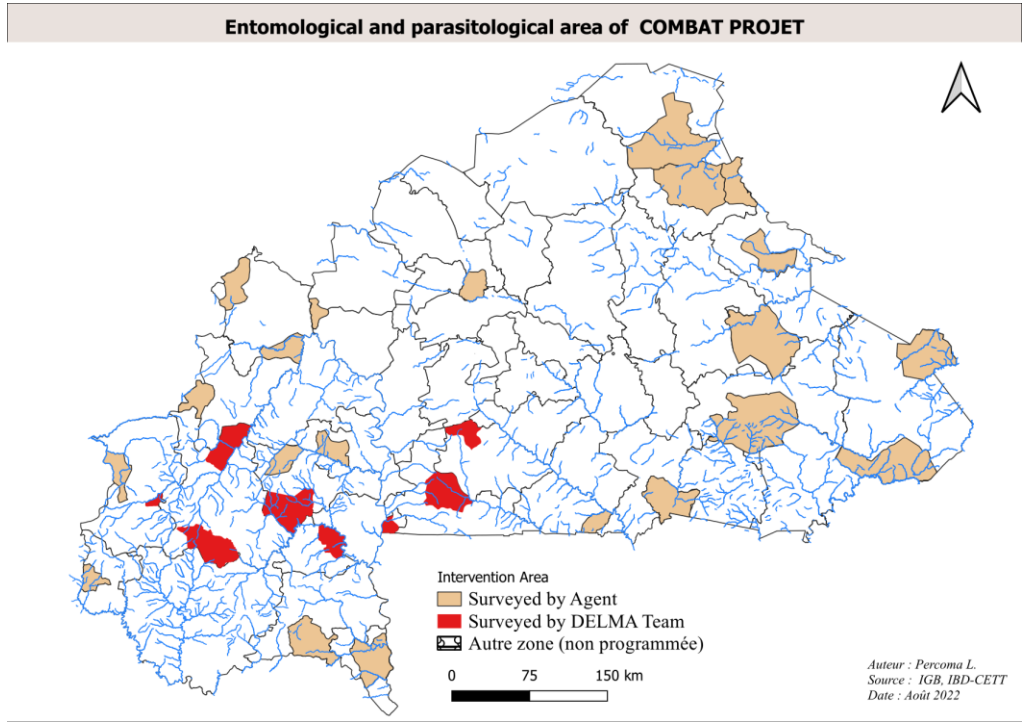


- ✓ obsolescence of some data
- ✓ lack of mechanically transmitted *T. evansi*;
- ✓ lack of tsetse infections data

❑ This second edition of the Combat project The aim to contribute to fill these gaps.

Methodology

Intervention area sélection



- Tsetse non-infested area for mechanical vector and *T. evansi*
  - North
  - Centre North
  - East
- Infested area
  - South
  - West
  - East

Methodology

Data collection

- Extent data not yet incorporated in the database

Two published papers provided 146 traps and 12912 blood samples

Hounyeme_et_al_2022.pdf	Molecular epidemiology of Animal African Trypanosomosis in southwest Burkina Faso
Somda_et_al_2022.pdf	Evaluation of the re-emergence risk of human African trypanosomiasis in the Southwestern Burkina Faso, a gold-bearing mutation area

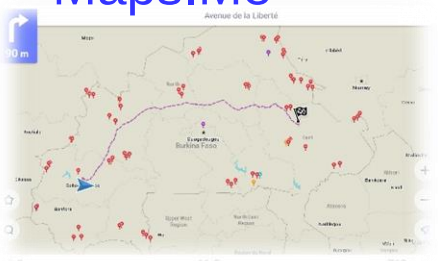
Methodology

Data collection / Targeted field data

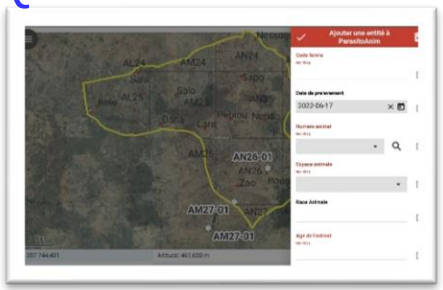
- DELMA and CIRDES Team in accessible area
  - ✓ Deployed 392 biconical
  - ✓ Collected blood samples on 2,244 animals

- Agent in inaccessible area
- 23 head of veterinary post from insecurity areas trained on :

Maps.Me



Qfield



Data collection



✓ 258 biconical traps deployed

✓ 2,095 animals blood samples collected from cattle, sheep, goats, donkeys, pigs, camels and horses. In secure areas

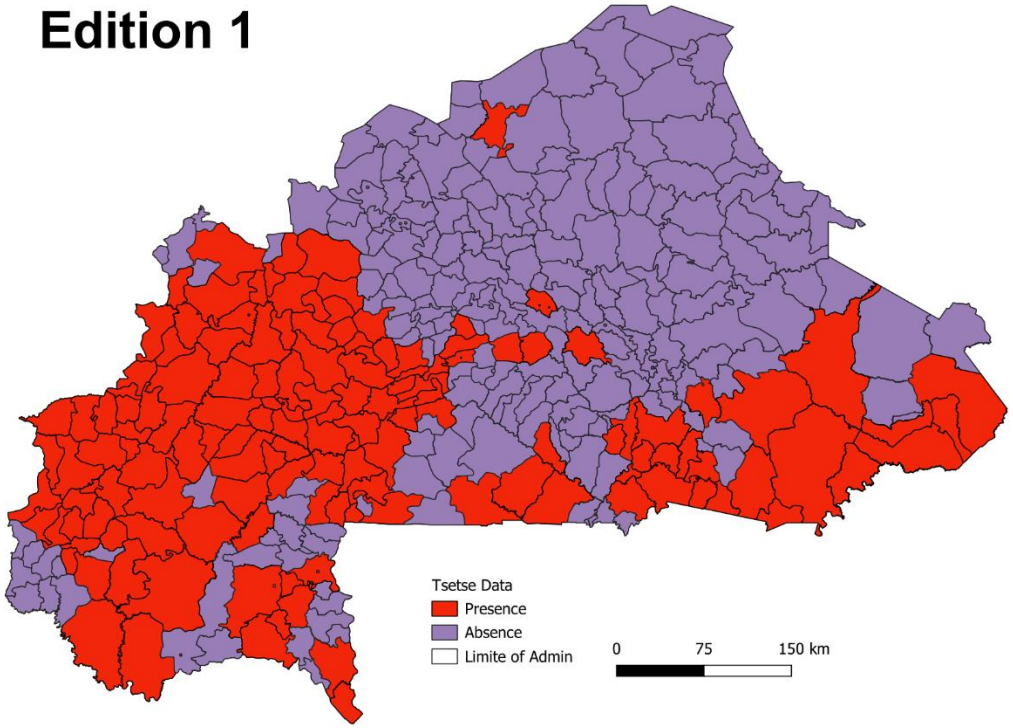
Result

Spatiale coverage of Tsetse data

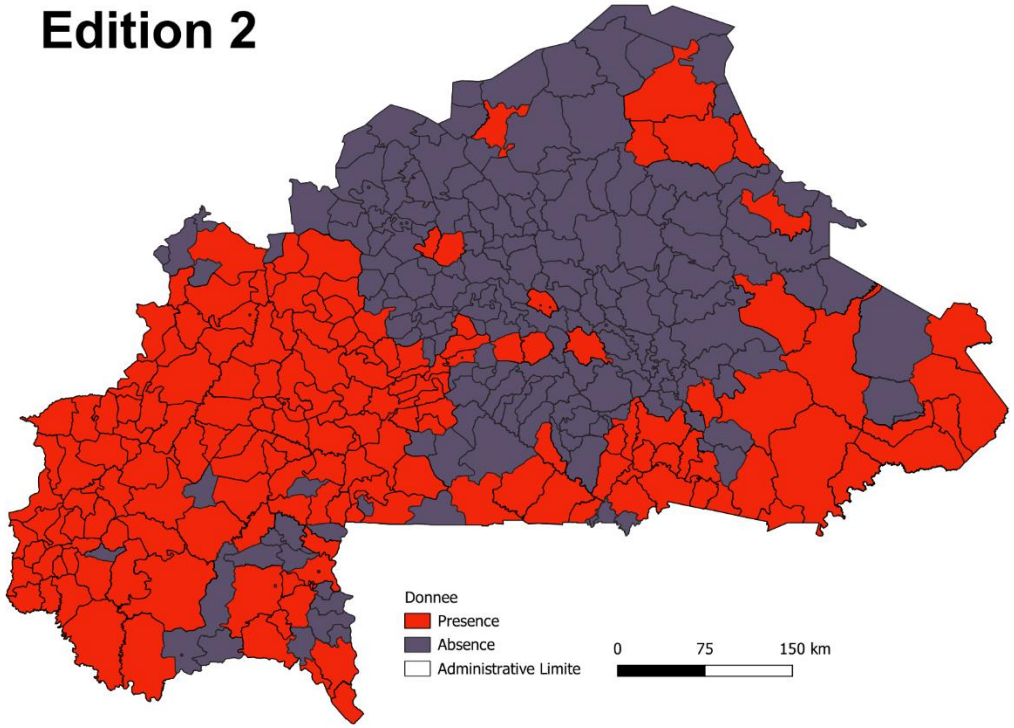
	46,73 %
	53,27 %

	60,12 %
	39,88%

Edition 1



Edition 2

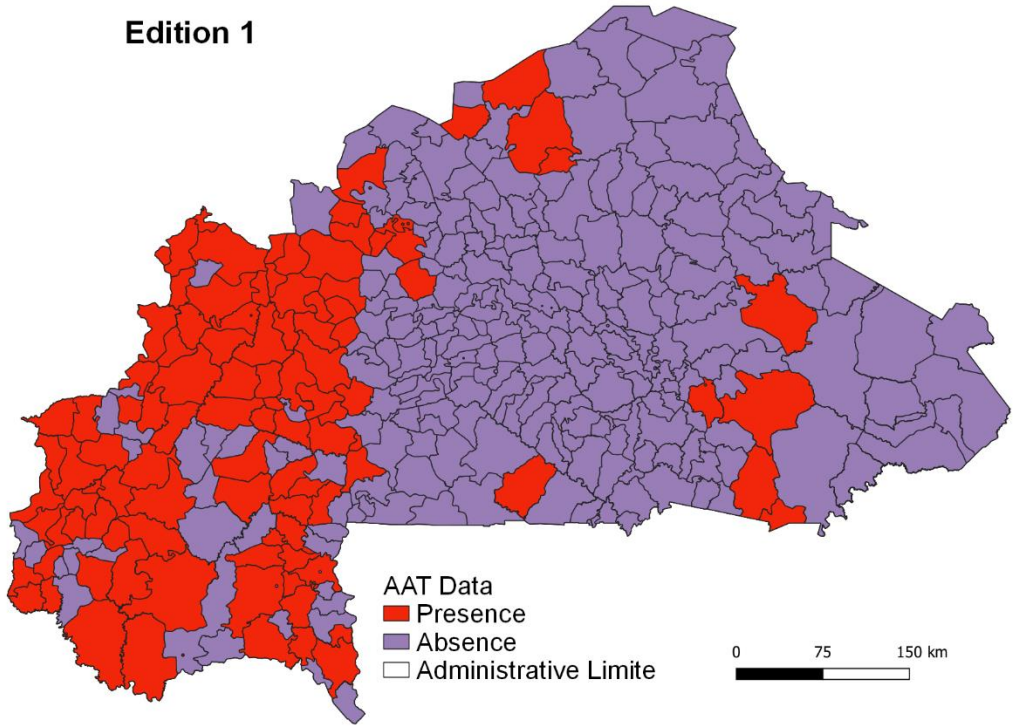


Result

Spatiale coverage of AAT data

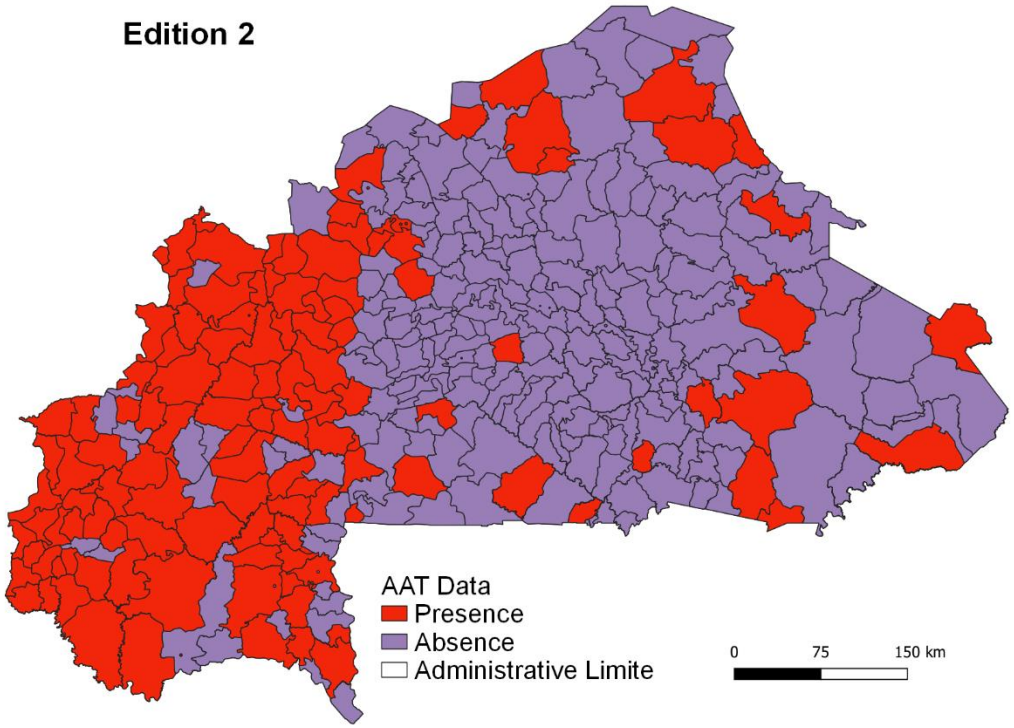
	34,5 %
	65,5 %

Edition 1



	42,01%
	57,99%

Edition 2



Result

Atlas component

- ❑ Entomology Data
  - Traps 20 741
  - Four tsetse species
    - ✓ *Glossina tachinoides* 56.04%
    - ✓ *G. palpalis gambiensis* 35.87%
    - ✓ *G morsitans submorsitans* 6.5%
    - ✓ *G medicorum* 0.25%.
    - ✓ Unidentified especie 1.34%.

- ❑ Parasitological Data
  - Animal blood samples 72 399
  - Period 1990 to 2025
  - Three species of trypanosoma
    - ✓ *T. vivax* dominant 10.99%
    - ✓ *T. congolense* 6.65%,
    - ✓ *T. brucei,* 2.21%..

Conclusion

- Atlas data base apdated Contribute
  - Improving spatial data coverage
  - Better mapping of the PCP
  - Production of the second paper of AAT Atlas in Burkina Faso
  - But there are still gaps to be filled.
  - Data still needs to be analysed,

CIRDES

FAO FIAT PANIS

IAEA International Atomic Energy Agency

AFRICAN UNION INTERAFRICAN BUREAU FOR ANIMAL RESOURCES

Thank you | Merci | شكراً لك | Obrigado | Gracias | Asante

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COMBAT

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