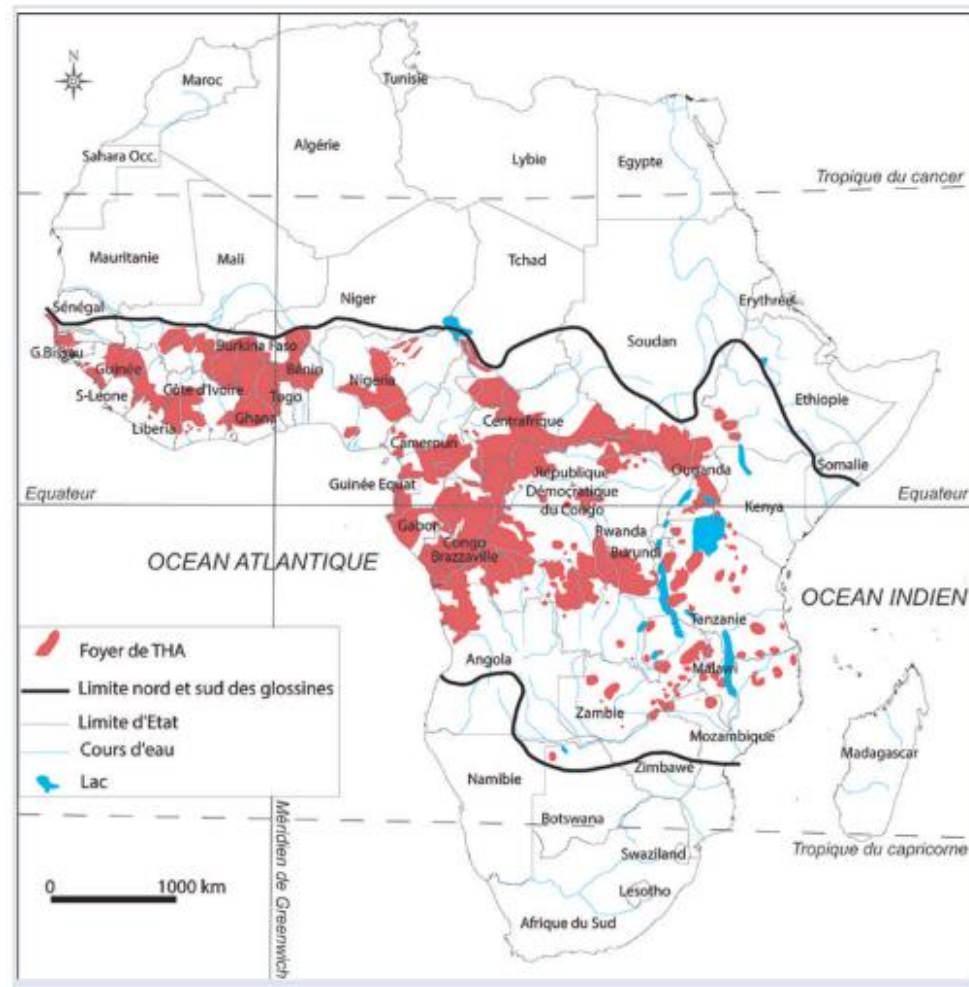


Identification des Villages à Risque (IVR) : Une approche géographique pour évaluer le risque de réémergence de la THA dans les foyers historiques

Rouamba J, Coulibaly B, Adingra P, Kouakou C, Ouattara A, Krouba D, Ramadan K, Camara M, Kaba D, Lingue K, Mallaye P†, Jamonneau V, Solano P, Courtin F



La THA en Afrique subsaharienne: le début de la fin?

➤ Feuille de route de l'OMS (Elimination comme Problème de Santé Publique en 2020)

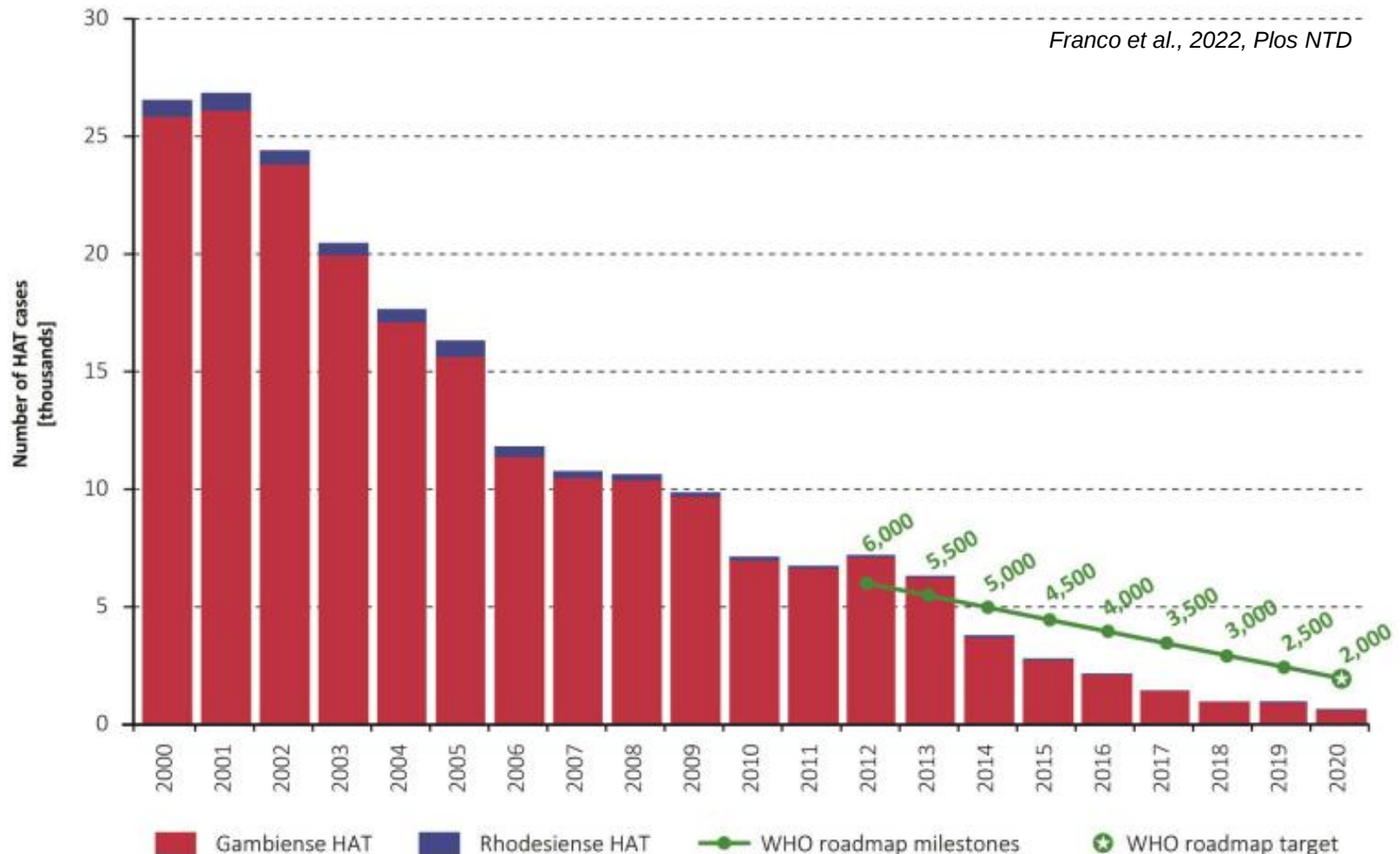
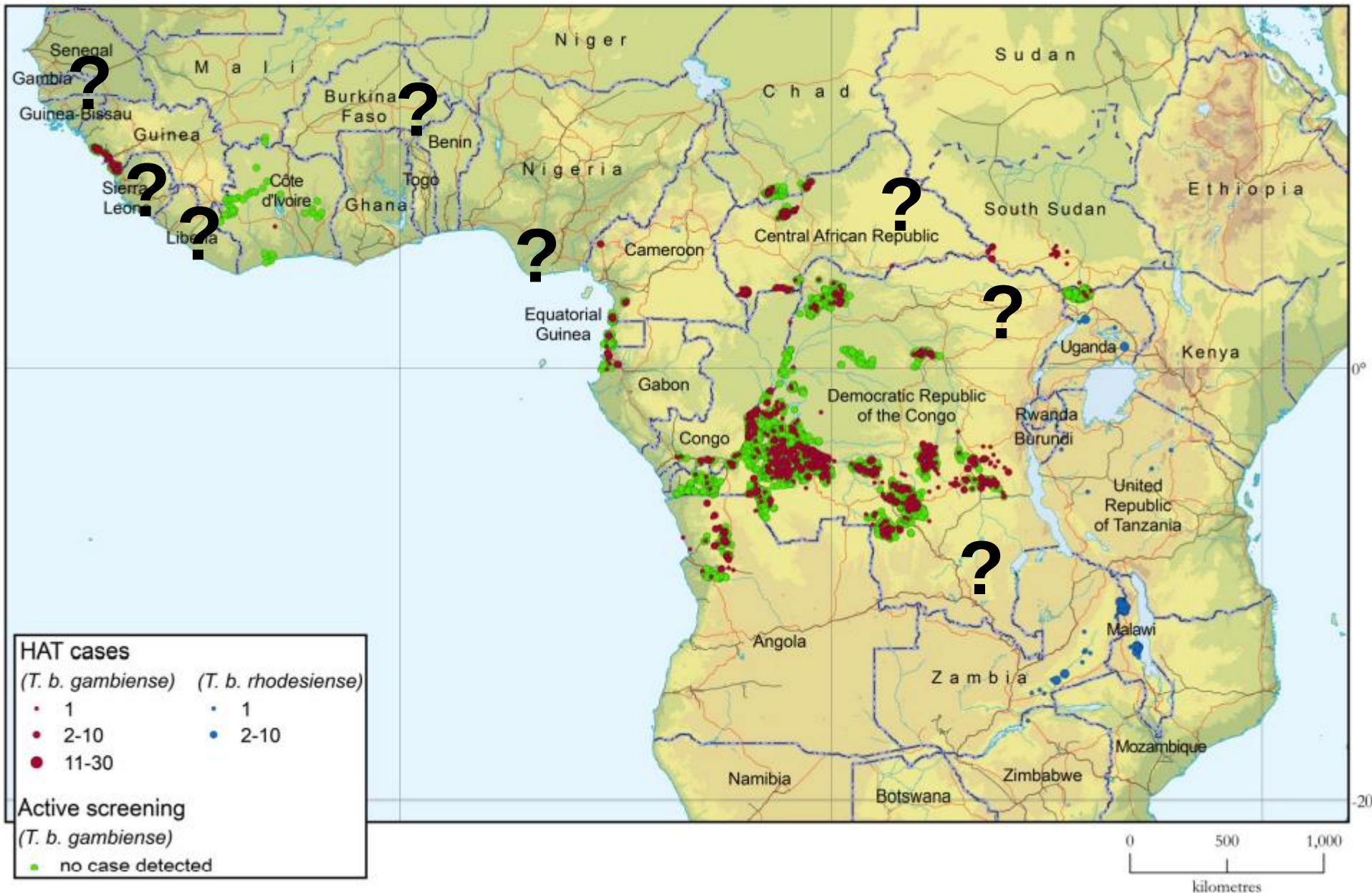


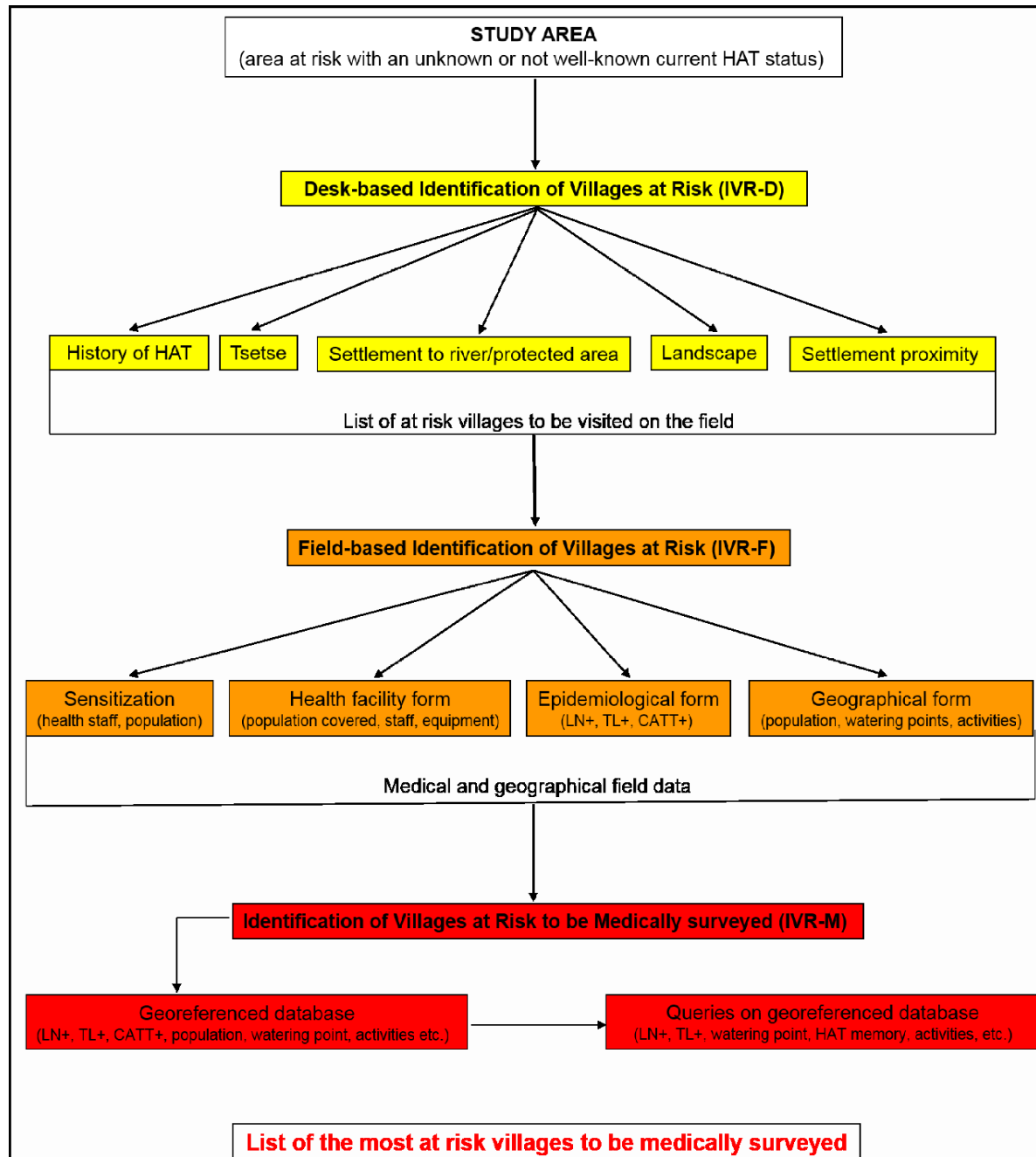
Fig 1. Total number of reported cases of HAT (gambiense and rhodesiense) per year (2000–2020). The green line and the green circles show the milestones and target set in the WHO road map for HAT elimination [14].

- Dépistage actif devient moins adapté (coût élevé/au nombre de cas dépistés)
- Dépistage passif à partir des structures de santé dans les foyers actifs connus

Existence de « Zones grises »



Méthode IVR = 3 étapes

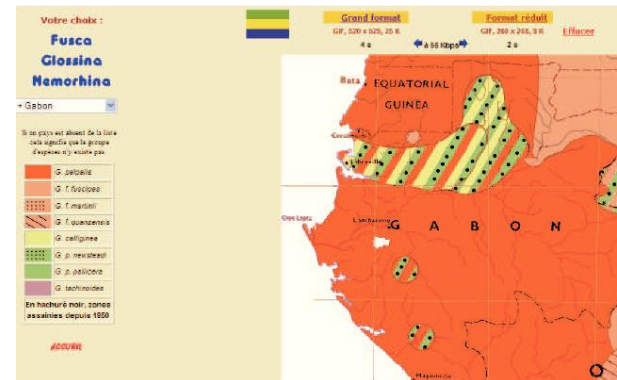


Etape 1: Identification des Villages à Risque au Bureau

Foyers historiques



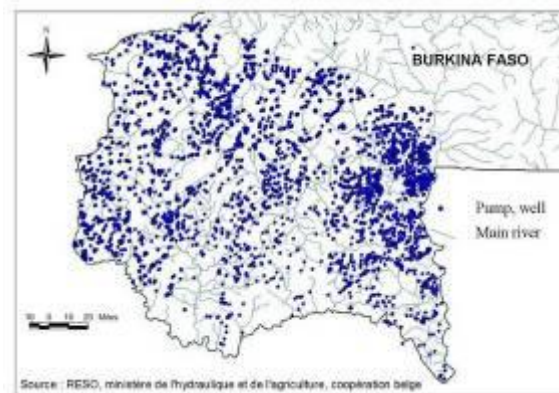
Glossines



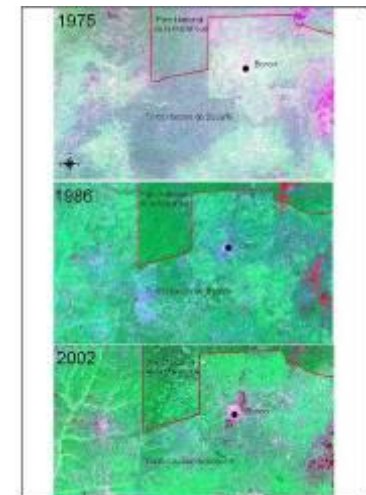
Peuplements



Réseau hydrographique



Paysages



Liste de villages à risque à visiter sur le terrain (IVRF)

Etape 2: Identification des Villages à Risque sur le Terrain

Visiter les villages identifiés à l'étape 1 avec une petite équipe mobile

Sensibilisation des agents de santé et des populations de ces villages



Récolte de données géo-référencées

Structures fixes



Epidémiologique



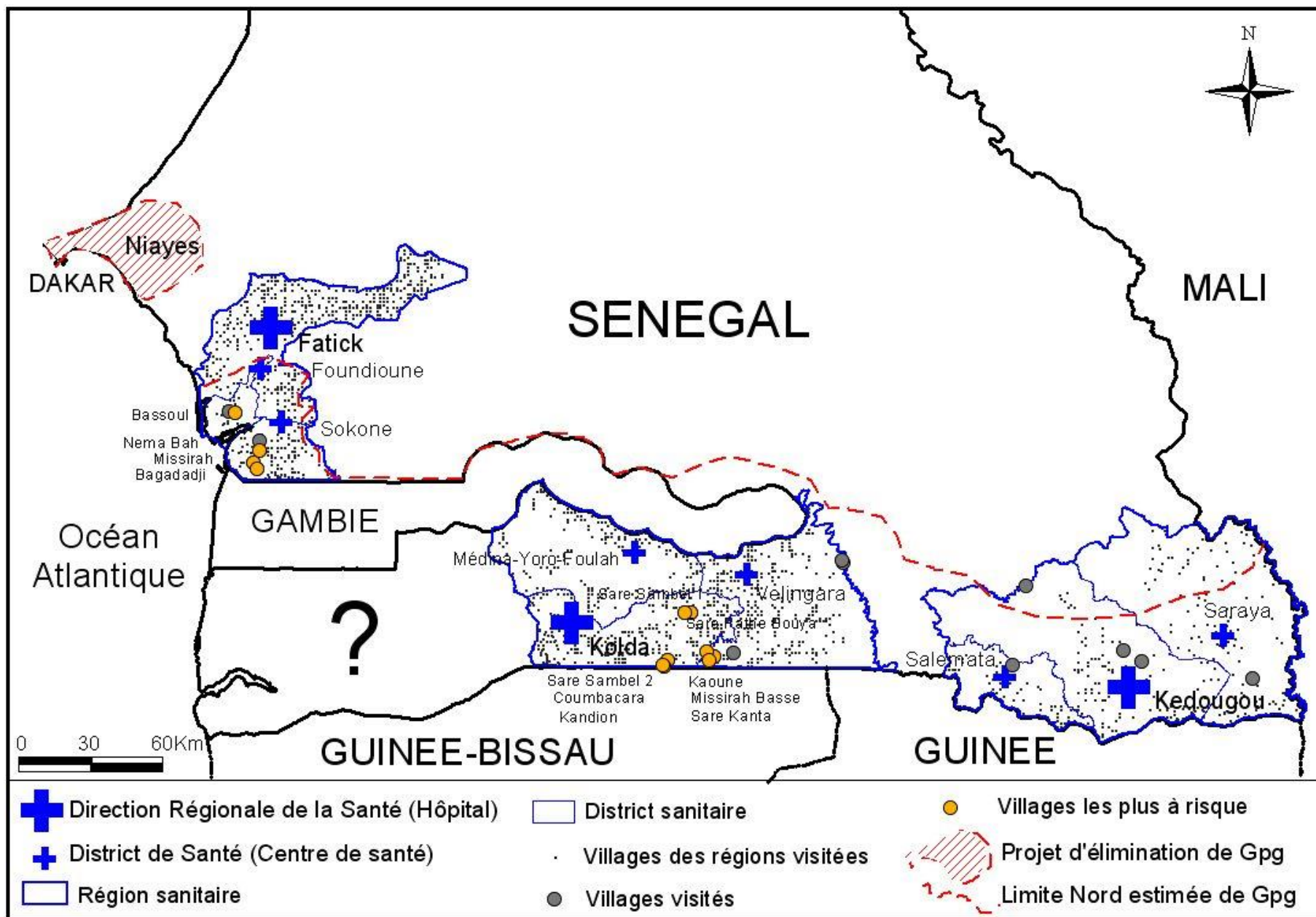
Géographique



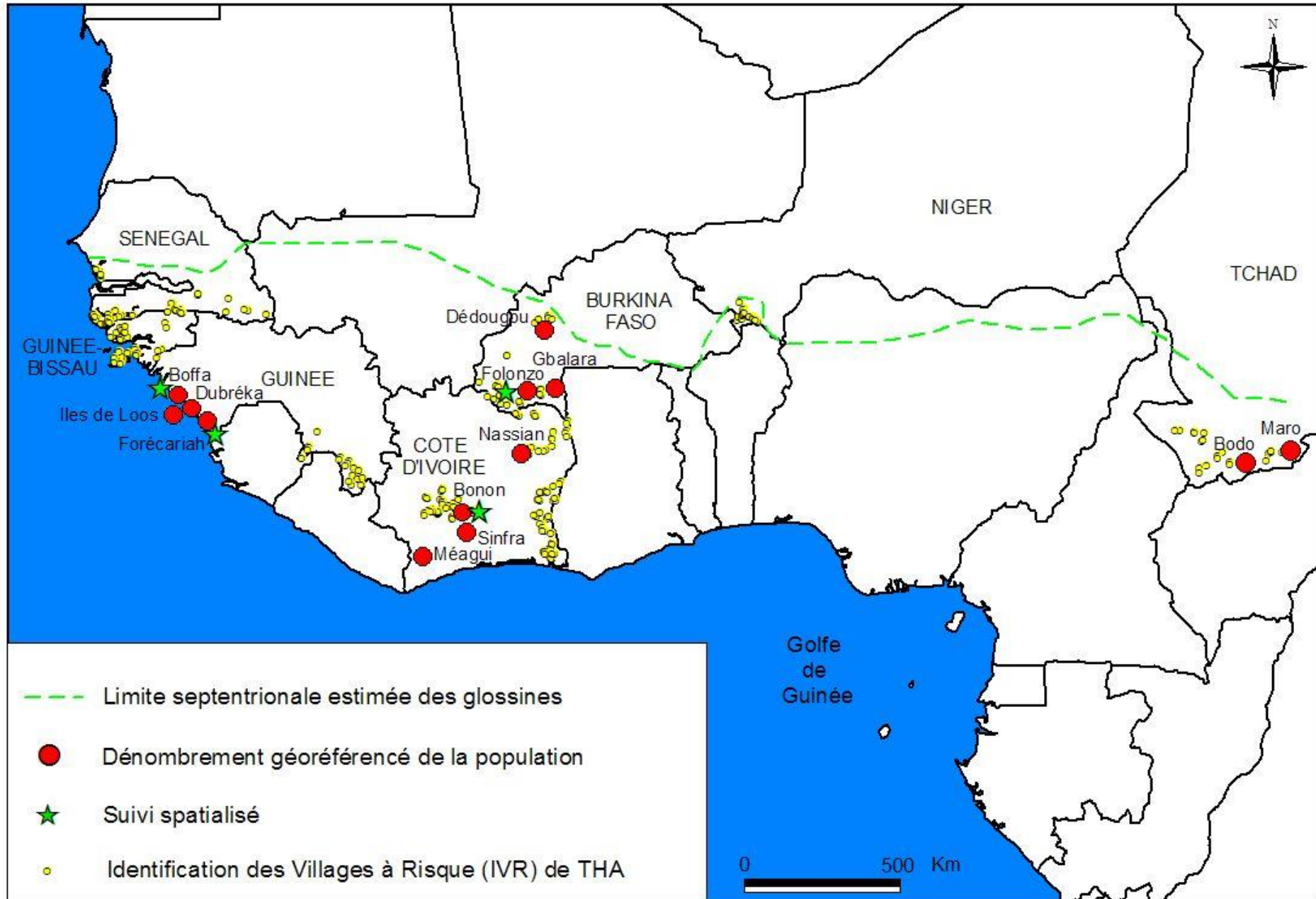
Etape 3: Identification des Villages à Risque à Prospector

ID	Name of settlement	Lat	Long	Visited by IVR-F	Reasons	Level of risk	Reasons	Medically surveyed
1	Bouye	9,122331	-10,094464	Yes	Proximity with river	Low	Low memory of HAT, pump, casava cultivation, horse breeding, no pig breeding, high economic level	No
2	Kolibenda	8,616629	-10,324742	No	Landscape degradation, proximity with Mandou	Not visited on the field	Not visited on the field	No
3	Moa	8,713916	-10,364047	No	Proximity with Mandou	Not visited on the field	Not visited on the field	No
4	Mandou	8,707567	-10,350263	Yes	High presence of HAT in the past, landscape conservation	High	TL+, high memory of HAT, no pump, rice cultivation, fishing, pig breeding, low economic level	Yes
5	Kofian	8,695240	-10,321637	No	Proximity with Mandou	Not visited on the field	Not visited on the field	No
6	Lengo	8,666590	-10,336863	No	Landscape degradation, proximity with Mandou	Not visited on the field	Not visited on the field	No
7	Temessadou	8,667514	-10,262054	No	Proximity with Mandou	Not visited on the field	Not visited on the field	No
8	Koendou	8,695980	-10,257788	No	Proximity with Mandou	Not visited on the field	Not visited on the field	No
9	Seoua	8,704113	-10,299909	No	Proximity with Mandou	Not visited on the field	Not visited on the field	No
10	Fero	8,639217	-10,336077	No	Landscape degradation, proximity with Mandou	Not visited on the field	Not visited on the field	No
11	Kenema	8,670544	-10,352943	No	Landscape degradation, proximity with Mandou	Not visited on the field	Not visited on the field	No
12	Koundou Lengo Bengo	8,640071	-10,415120	No	Landscape degradation, proximity with Mandou	Not visited on the field	Not visited on the field	No
13	Singuedou	8,764007	-10,454232	No	Landscape degradation	Not visited on the field	Not visited on the field	No
14	Bolodou	8,849499	-10,333244	No	Landscape degradation	Not visited on the field	Not visited on the field	No
15	Belessa	8,581038	-10,394384	Yes	Three HAT cases diagnosed in 2004, close to low ground, landscape conservation	Moderate	3 HAT cases diagnosed in 2004, high memory of HAT, no pump, rice cultivation, pig breeding	Yes
16	Fangamandou	8,490776	-10,592525	No	Inaccessibility	Not visited on the field	Not visited on the field	No
17	Kouloumba	8,367041	-10,647591	No	Proximity with Koundoutoh and Keleme	Not visited on the field	Not visited on the field	No
18	Koundoutoh	8,355026	-10,589004	Yes	Proximity with rivers, swamp area, proximity with Kailahun Sierra Leone HAT focus	Low	Low memory of HAT, pump, casava cultivation, no pig breeding	No
19	Kelema	8,308261	-10,691162	Yes	Proximity with rivers, landscape conservation, proximity with Kelema protected area	Low	Low memory of HAT, pump, casava cultivation, no pig breeding	No
20	Dandou	8,322826	-10,560335	Yes	Proximity with rivers, swamp area, proximity with Kailahun Sierra Leone HAT focus	High	TL+, Sierra Leone refugee	Yes
21	Faendou	8,339701	-10,574311	Yes	Proximity with rivers, swamp area, proximity with Kailahun Sierra Leone HAT focus	High	TL+, Sierra Leone refugee	Yes
22	Massadou	8,381913	-9,431443	Yes	Proximity with river, Proximity with protected area, proximity with Vonjaima Liberian HAT focus	Low	Low memory of HAT, pump, casava cultivation, no pig breeding	No
23	Sedimai	8,291126	-9,457742	Yes	Proximity with protected area, proximity with Vonjaima Liberian HAT focus	Low	Low memory of HAT, pump, casava cultivation, no pig breeding	No
24	Zoubouroumai	8,392335	-9,357171	No	Proximity with Massadou	Not visited on the field	Not visited on the field	No
25	Soundedou							

Proposition d'une surveillance épidémiologique ciblée



Application d'IVR en Afrique de l'Ouest et Centrale



Une méthode reconnue et financée par l'OMS



Collaborating Centres ANNUAL REPORT

Folder eCC_00019007 is in stage Annual_Report_Review

Name of the University, Hospital, Research Institute, Academy or Ministry

Institut de Recherche pour le Développement (IRD)

Name of the Division, Department, Unit, Section or Area

Joint Research Unit IRD/CIRAD 177 INTERTRYP « Host - Vector – Parasite – environment interactions in neglected tropical diseases due to Trypanosomatids »

City	Montpellier	Reference Number	FRA-137
Title	WHO Collaborating Center for research on host/vector/parasite interactions to sustain surveillance, control and elimination of Human African Trypanosomiasis		
Report Year	04-2020 to 04-2021		

Activity 4

Title: Providing support to WHO in improving HAT epidemiological knowledge in grey areas applying the identification of villages at risk (IVR) methodology

Description: In order to advance on the elimination of HAT and to reinforce national control programs for developing HAT control activities, improving epidemiological knowledge of the diseases. INTERTRYP developed a geographical based method to assess epidemiological situation of HAT in areas where the status is not well known.

Publications sur la méthode IVR

Parasite 26, 61 (2019)

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RESEARCH ARTICLE

OPEN ACCESS

Sleeping sickness in the historical focus of forested Guinea: update using a geographically based method

Fabrice Courtin^{1,a,*}, Oumou Camara^{2,a}, Mamadou Camara², Moïse Kagbadouno², Bruno Bucheton³, Philippe Solano⁴, and Vincent Jamonneau¹



Confins

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42 | 2019

Número 42

Identification des Villages à Risque (IVR) : pour un état des lieux de la Trypanosomiase Humaine Africaine au Niger

Identificação de Vilarejos à Risco: para Análise da Situação da Tripanossomíase Humana Africana no Níger

Identification of Villages at Risk: for an updating of Human African Trypanosomiasis in Niger

Jérémi Rouamba, Adamou Salissou, Hassane Sakandé, Vincent Jamonneau e Fabrice Courtin

Jérémi Rouamba et al : Identification des villages à risque de...

Identification des villages à risque de
Trypanosomiase Humaine Africaine dans les foyers
historiques du Tchad

*Identification of villages of Human African
Trypanosomiasis risk in Chad's historic homes*

Jérémi Rouamba¹, Justin Darnas², Mallaye Peka² Fabrice Courtin³

Annales de l'Université de Sarh, 2021

Objectif

Contribuer à éliminer durablement la THA en Afrique
(défi sécuritaire qui complexifie ou empêche l'accès aux zones)



IVR Niger, 2015

Merci pour votre attention