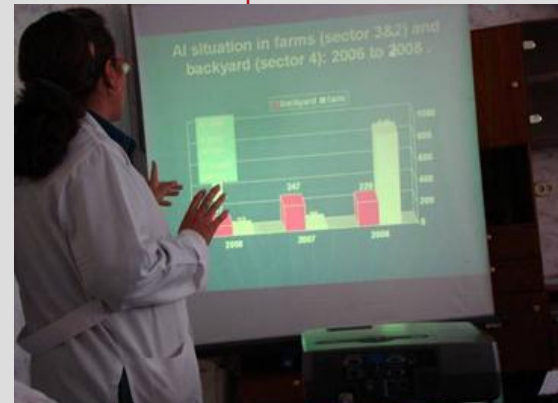


Dr. Antonio Petrini
Représentation sous - régionale de l'OIE pour l'Afrique du Nord
Tunis, Tunisie

ATELIER FAO DE SENSIBILISATION ET DE FORMATION SUR LES ACTIVITES DES LABORATOIRES DE REFERENCE

27 - 29 juin 2011 Madrid, Espagne

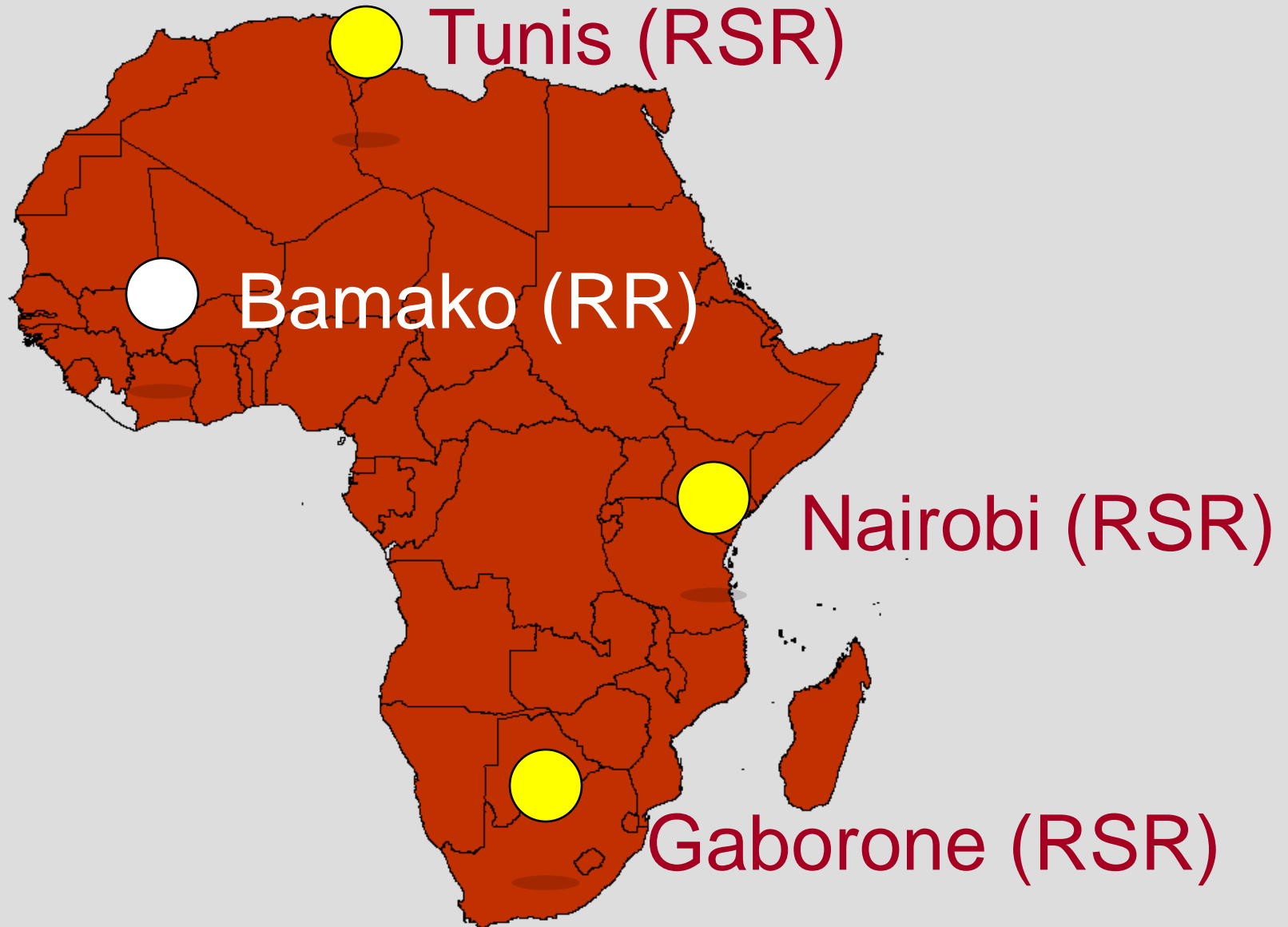


Les Membres de l'OIE en Afrique



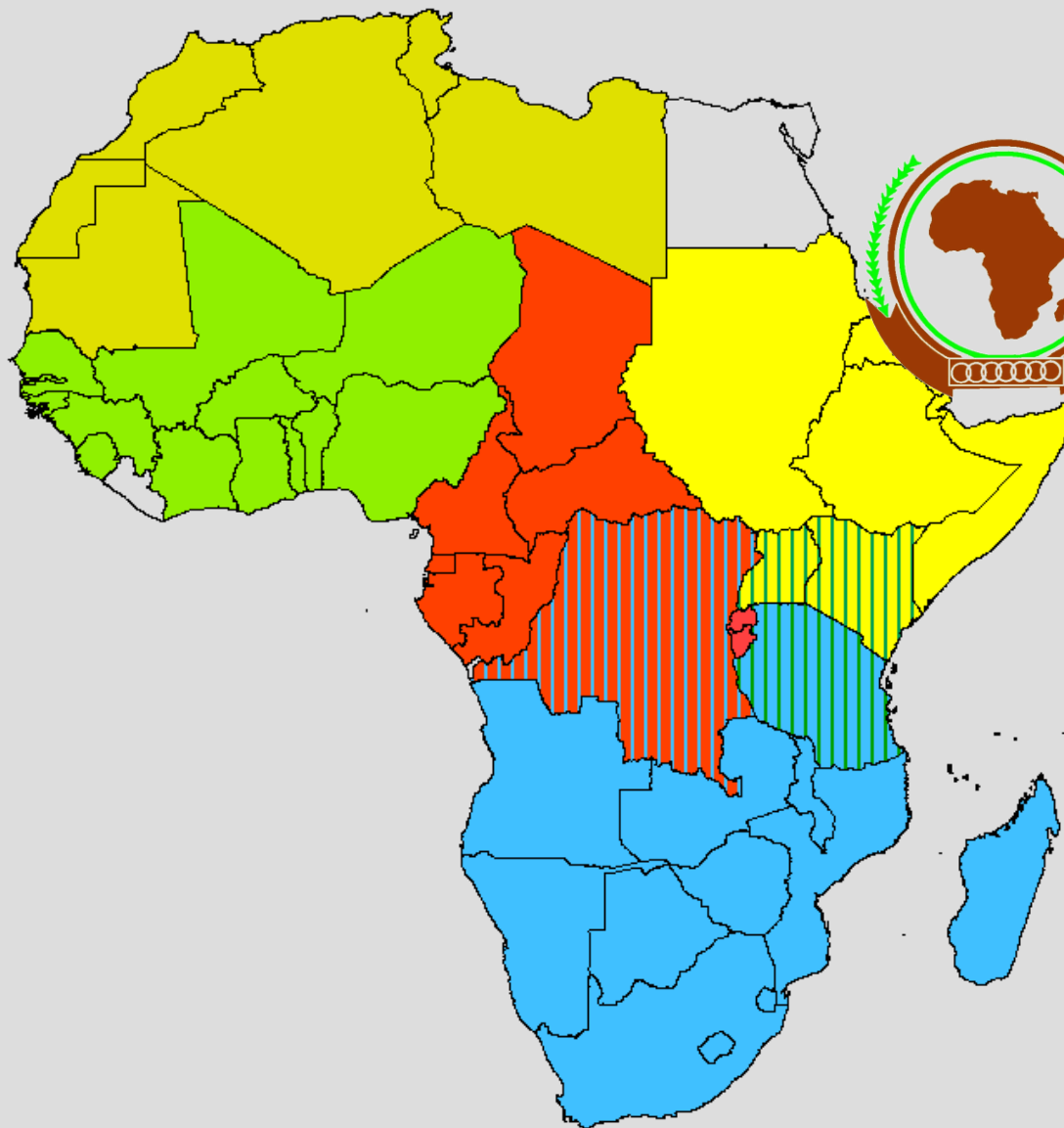
52

Les Représentations de l'OIE en Afrique



Communautés Economiques Régionales





UNION AFRICAINE
Bureau
Inter-africain
pour les
Ressources
Animales
(BIRA)

OIE Reference Laboratories and Collaborating Centres: a general overview

OIE Standards, Guidelines and Recommendations



- **Founded on:**

- Objective criteria

- Scientifically valid evaluations provided by independent experts

- **This fundamental requirement led to the establishment of:**

- Specialist Commissions, for example the Biological Standards Commission, founded in 1949

- Working Groups

OIE Standards, Guidelines and Recommendations

- OIE Member demands grew because of:
 - Increasing concerns of consumers and public authorities over food safety
 - Intensification of world trade
 - Wider use of risk analysis concept
 - Increased speed in information transmission
 - Rapid acceleration in the impact of scientific and technological progress

OIE Standards, Guidelines and Recommendations



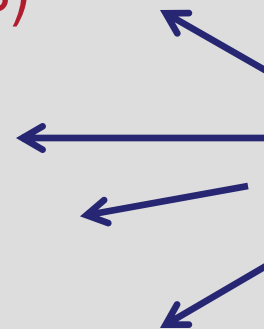
- Recognition by the SPS Agreement of the World Trade Organization as international points of reference:

- Diagnostics tests (*Manuals*)

- Disease free areas

- Surveillance (*Codes*)

- Disease control measures (*Codes*)



OIE Expertise of
Reference
Laboratories and
Collaborating
Centres

OIE Expertise



It was necessary to strengthen the OIE's expertise capabilities to respond even more effectively to the requirements of its Members

1991: a network is born

- In response to a questionnaire, the Biological Standards Commission select 75 laboratories to be proposed for designation by the International Committee as OIE Reference Laboratories and one to be proposed as OIE Collaborating Centre
- Laboratories for diseases of aquatic animals were designated later
- In 1993 official mandates and rules were formally adopted

1991: a network is born



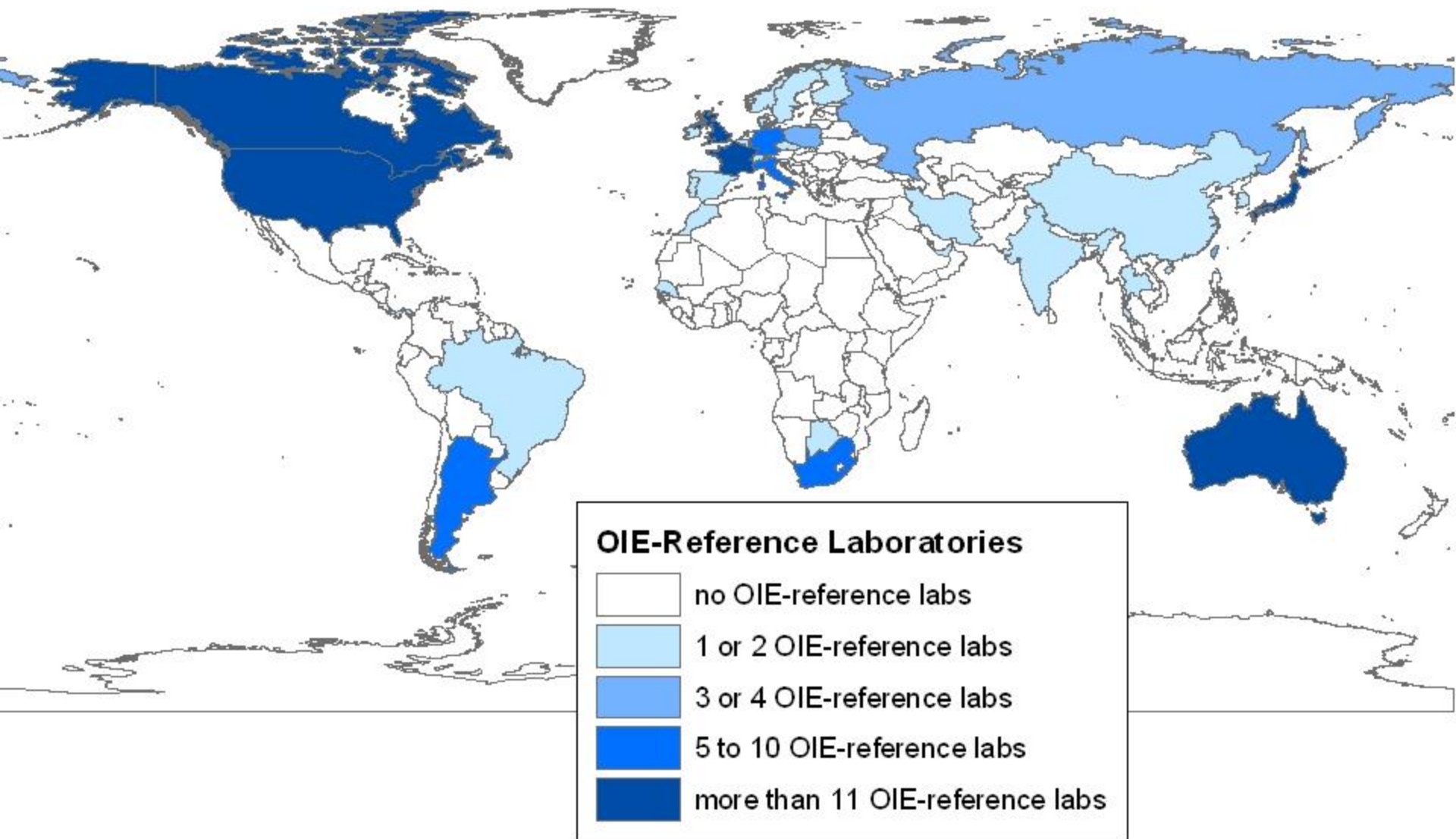
- A network of expertise that could provide advice and aid on, for example:
 - technical and scientific matters
 - the basis for the setting of international standards
- International points of reference for disease diagnosis, prevention and control
- Constitutes the central core of the OIE's scientific excellence

OIE Reference Laboratories and Experts



- Must fulfil the role of centres of expertise and standardisation of methodology in their particular disease
- Centres for data processing, standardisation of diagnostic protocols, preparation and distribution of reference reagents, research, technical consultation and training
- The Expert should be a leading and active researcher

World Distribution of the OIE- Reference Laboratories





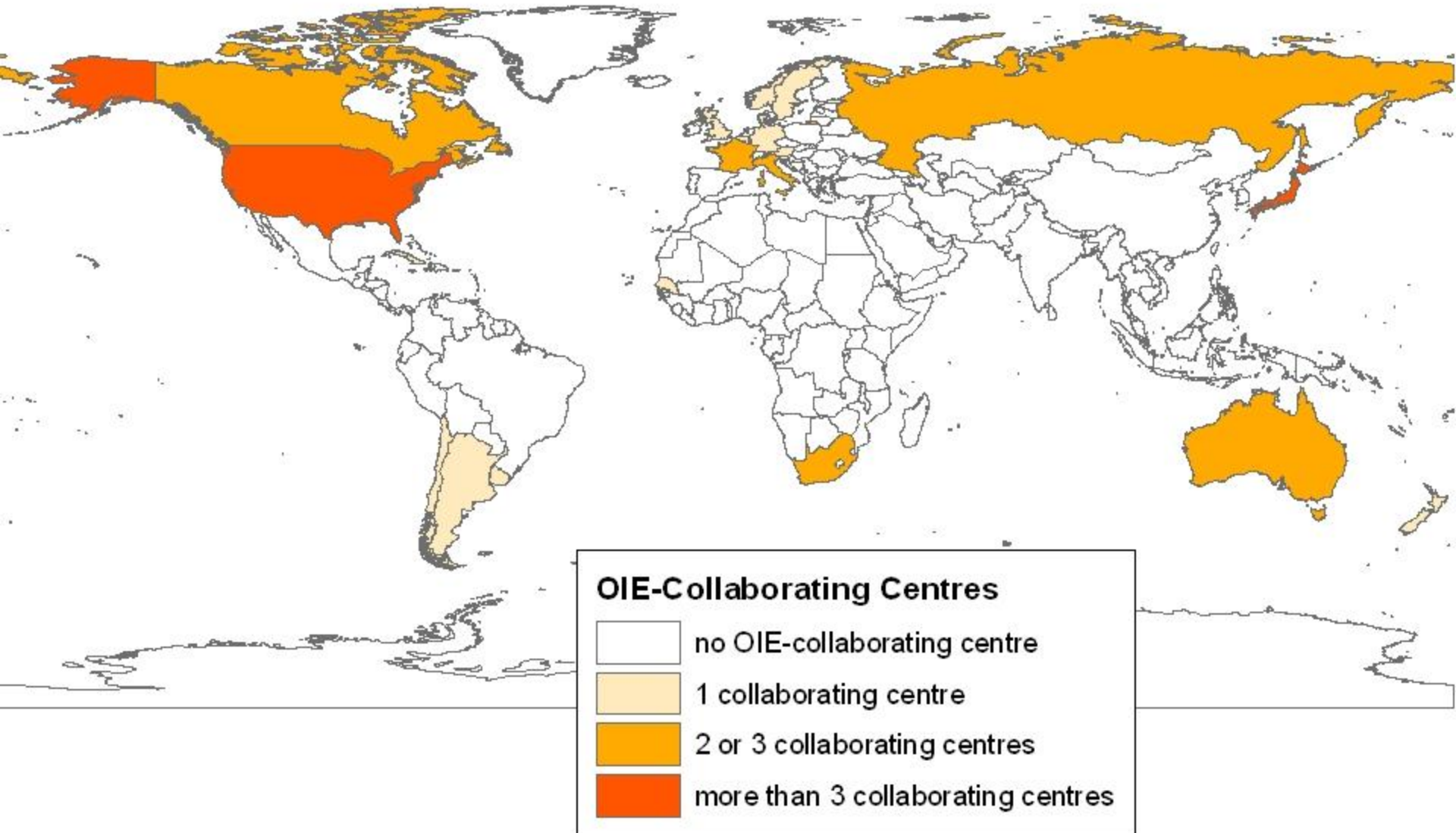
LEGEND

● existing OIE reference laboratories

OIE Collaborating Centres

- Cover a specialised sphere of activities rather than a given animal disease
- Activities are global in coverage
- A large part of their work is of particular help to developing countries
- Not necessarily laboratory based

World Distribution of the OIE- Collaborating Centres





LEGEND

▲ existing OIE collaborating centers

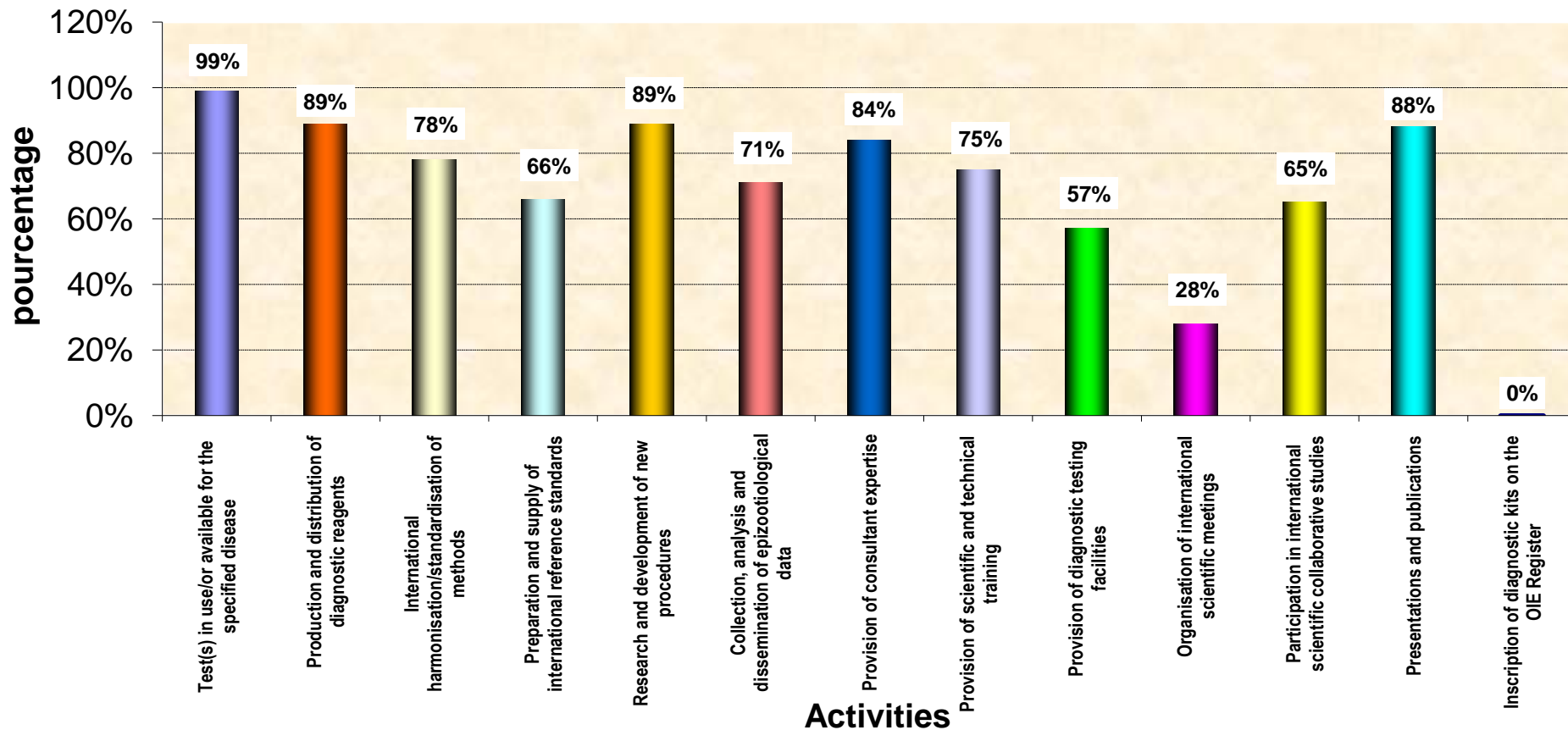
OIE Reference Laboratories & Collaborating Centres



- OIE is committed to:
 - expanding and strengthening this network of expertise
 - creating synergy so as to continue to meet the emerging challenges in a globalising world
- All participating institutions in the network must share a common vision and regularly communicate

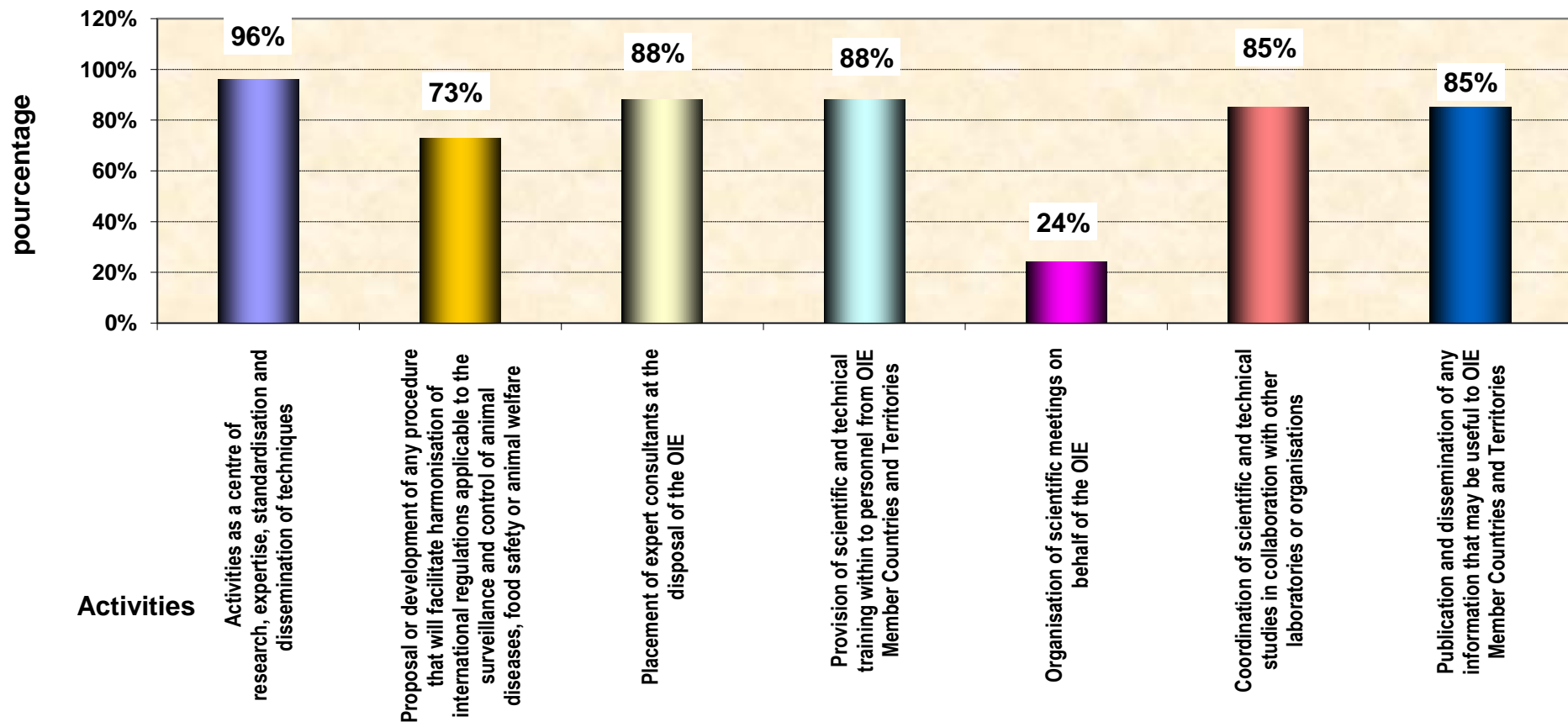
Reference Laboratories – activities 2010

Percentage of Laboratories carrying out these activities



Collaborating Centres – activities 2010

Percentage of Collaborating Centres carrying out these activities



Summary of the number of OIE Reference Laboratories and Collaborating Centres (May 2011)



	Reference Laboratories	Collaborating Centres	Total
Number	225	40	265
Countries	37	21	42*
Diseases/ Topics	111	38	149
Experts	166	40	206

**Countries hosting both labs and Centres are not counted twice*

Regional Commission for Africa



Country	Number of Reference Laboratories	Number of Collaborating Centres
Botswana	1	–
Morocco	1	–
Senegal	1	1
South Africa	8	2
4 Countries	11 Laboratories	3 Centres

Regional Commission for Europe



Country	Number of Reference Laboratories	Number of Collaborating Centres
Austria	–	1
Belgium	2	1
Czech Republic	2	–
Denmark	1	1
Finland	1	–
France	20	3
Germany	13	1
Ireland	1	–
Israel	1	–
Italy	11	3

Regional Commission for Europe (cont.)



Country	Number of Reference Laboratories	Number of Collaborating Centres
Netherlands	5	–
Norway	2	1 (shared with Canada)
Poland	3	–
Portugal	1	–
Russia	3	2
Spain	2	–
Sweden	1	1
Switzerland	3	–
United Kingdom	33	1
19 Countries	105 Laboratories	15 Centres

Regional Commission for the Middle East

Country	Number of Reference Laboratories	Number of Collaborating Centres
Iran	1	–
United Arab Emirates	2	–
2 Countries	3 Laboratories	0 Centre

Diseases for which there is no OIE Reference Laboratory (May 2011)

Multiple species diseases

- Epizootic haemorrhagic disease
- Japanese encephalitis
- Old world screwworm
(*Chrysomya bezziana*)
- Q fever

Cattle diseases

- Haemorrhagic septicaemia
- Trichomonosis

Sheep and goat diseases

- Nairobi sheep disease

Swine diseases

- Porcine cysticercosis

Avian diseases

- Avian infectious bronchitis
- Avian infectious laryngotracheitis
- Duck virus hepatitis
- Fowl cholera
- Fowl typhoid
- Pullorum disease

Lagomorph diseases

- Myxomatosis

Other diseases

- Leishmaniosis

Application for Collaborating Centre status received by DG from Delegate

Dossier number assigned and logged (Scientific and Technical Department oversees the whole process)

Application referred to corresponding Regional Commission (only for Collaborating Centres)

Opinion Sought from the most relevant Specialist Commission (or Working Group, if needed) (specialty listing below, not exhaustive)

- Terrestrial animal disease diagnosis
- Biotechnology
- Veterinary medicinal products
- Vaccines

Biological Standards Commission

- Aquatic animal disease control
- Aquatic animal disease diagnosis

Aquatic Animal Health Commission

- Food and feed safety
- Animal welfare
- Legislation
- Veterinary education

Terrestrial Animal Health Commission

WG Animal Welfare

WG Food Safety

- Terrestrial animal disease control
- Epidemiology, Surveillance, Risk assessment
- Zoonosis
- Wildlife

Scientific Commission for Animal Diseases

WG Wildlife Diseases

OIE Council

World Assembly

Programme de jumelages



Twinning



Each project is a link between an OIE Reference Laboratory or Collaborating Centre ('parent') and a national laboratory wishing to improve capacity and expertise ('candidate') for an OIE listed disease or sphere of competence

Prerequisites



- Parent must be an OIE Reference Laboratory or Collaborating Centre
- Candidate must have potential to provide support
- Project needs full support of Veterinary Services

Aims and objectives - networking



- Provide better global geographical coverage of OIE expertise for priority diseases in priority areas
- To form long and lasting links between the institutes
- Strengthen global disease surveillance networks
- Strengthen national, regional, and international scientific networks
- Create collaborative research opportunities - improve sharing, and advance science

Aims and objectives - expertise



- Improve compliance with OIE standards (surveillance and control)
- Improve access to high quality diagnostics and technical assistance for more OIE Members
- For some Candidates to apply for 'OIE reference' status
- Help more countries enter scientific debate on an equal footing with others

The twinning project is just the start....



- Engaging with the international scientific community
- Engaging with regional and global networks
- Supporting neighbour countries
- Pursuing opportunities for joint research
- Applying for OIE Reference Laboratory status when ready

A young programme



- Concept launched at 1st OIE RL/CC Conference in Florianopolis in Dec '06
- OIE Resolution adopted in May '07
- Twinning manual published in Dec '07
- Inaugural project starts in Feb '08
- First project completed Sept '09
- Today 3 projects complete, 30 projects underway, at least 10 others in the pipeline



Reviewing the programme



- Annual reports
- Visits and assessments
- Feed back



- OIE Administrative Commission, Biological Standards Commission, Aquatic Animal Health Commission,
- Workshops and questionnaires
- Talking with experts

Changes



- Parent and Candidate 'networks'
- Greater complementarity with other capacity building initiatives
- Funding for complementary needs not within the scope of twinning
- Guidance on multiple projects in the same laboratory/ institute
- OIE Laboratory Twinning without OIE financial support

OIE support



- For exchange of knowledge, experience and expertise
- Costs of travel, workshops, training materials
- Not laboratory hardware or consultancy fees
- Costs directly related to objectives of the twinning project

The application process



- Expression of interest (Parent, Candidate, or both)
- Initial feedback from OIE
- Draft proposal (template provided)
- Comments from one of the OIE Standards Commissions (Aquatic or Biological)
- OIE clears administrative aspects
- Signed letters of support from OIE Delegate and Laboratory Directors
- Contract signed and project starts

Twinning feedback workshop (March 2011)



- Candidate Labs must be able to send/receive samples and reagents
- Pre-twinning meetings and assessments are useful
- OIE Regional/Sub-regional representations should promote more twinings, and the profile and visibility of Candidate Labs

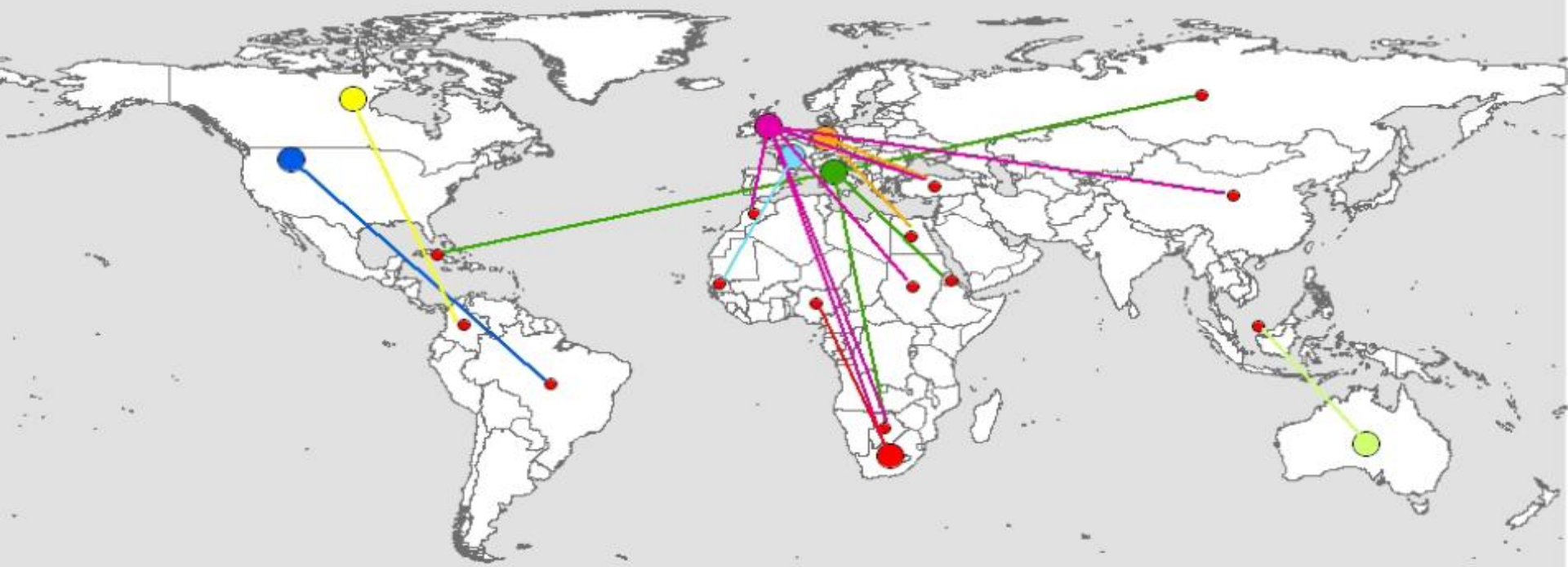
Twining feedback workshop (March 2011)



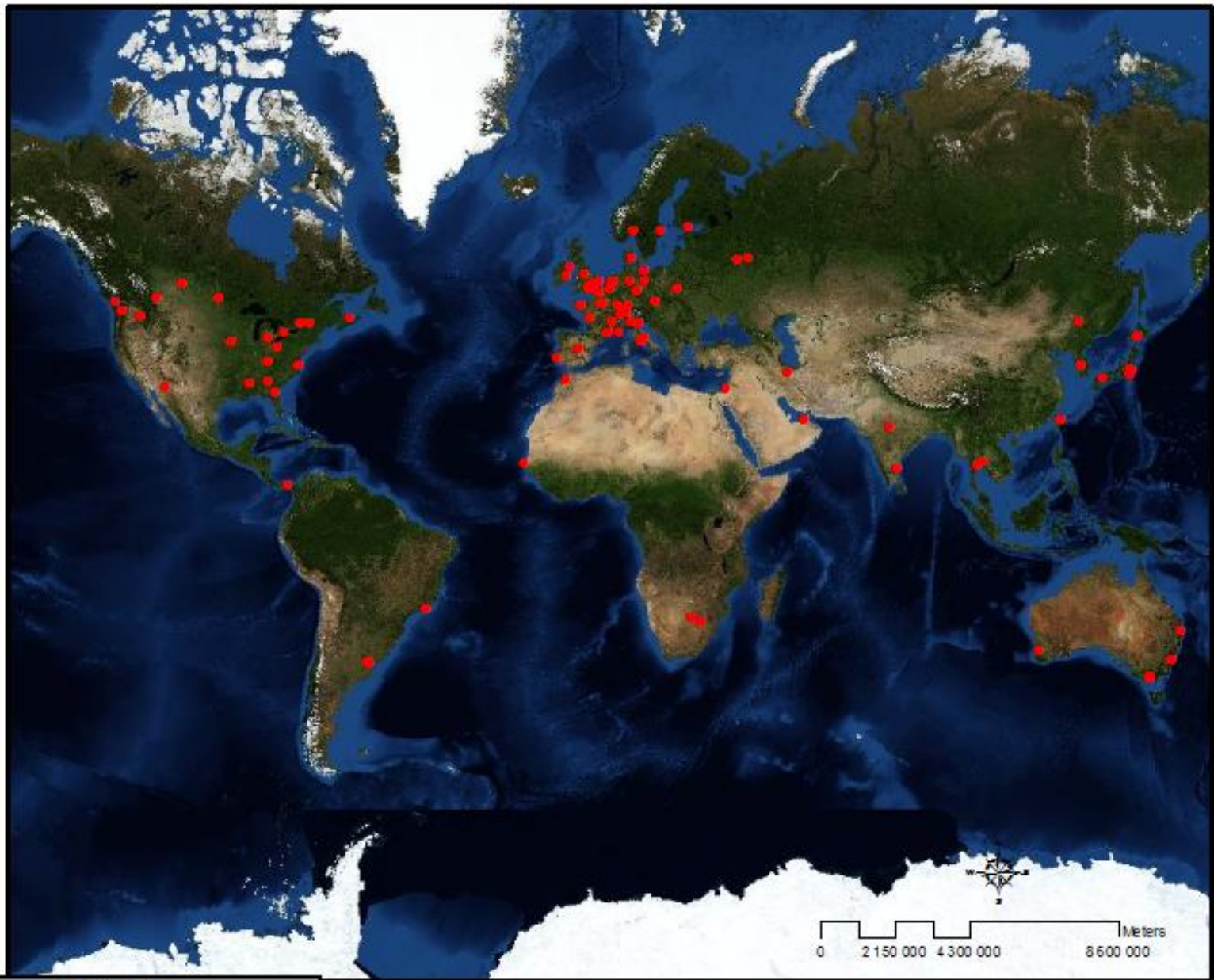
- Candidate Labs in the 'transition phase' should be recognised in the region so that they can provide technical advice and diagnostic services to other countries
- Veterinary Services must be committed to the long term support of the Candidate Lab



Twinning to achieve better geographical balance



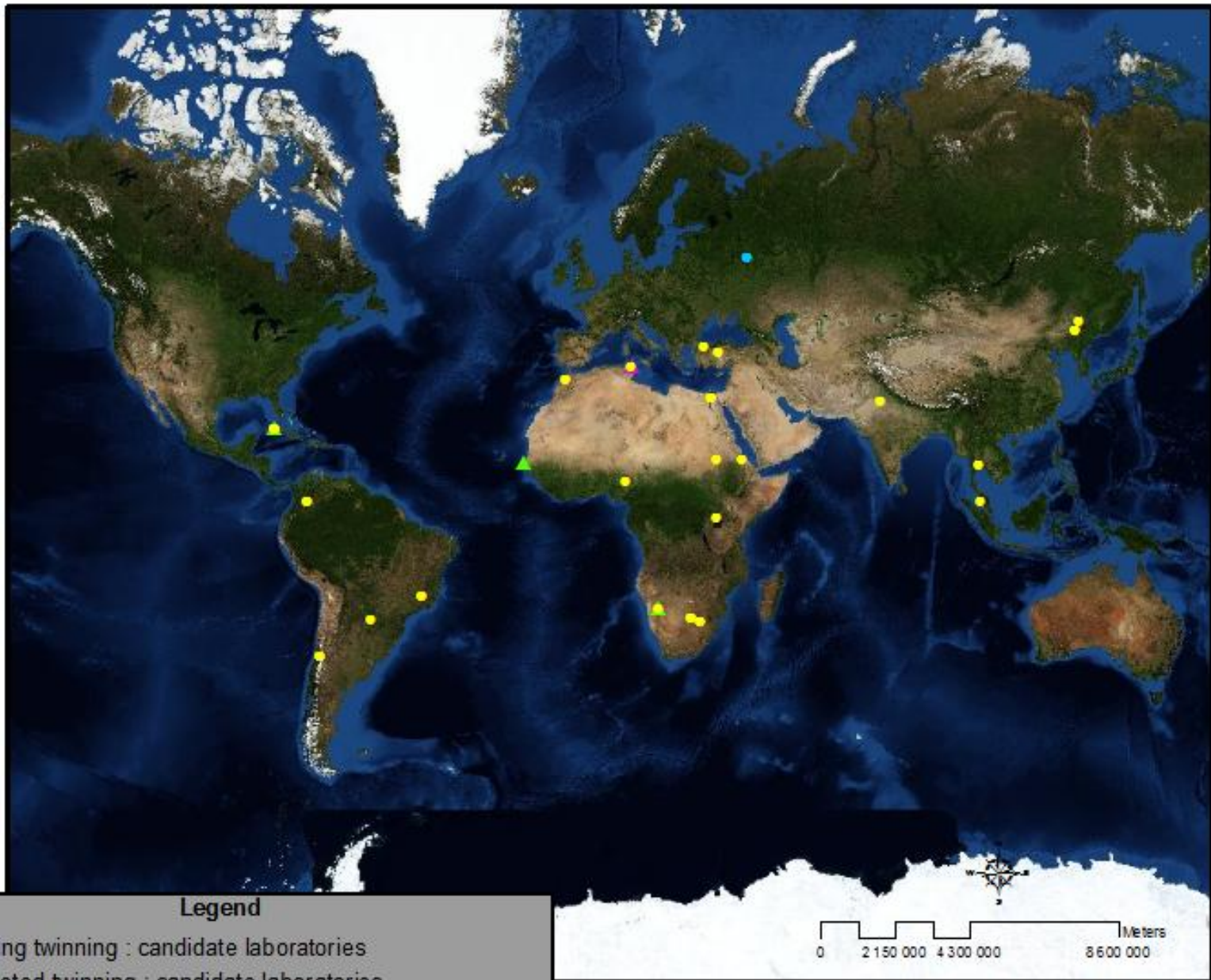
OIE REFERENCE LABORATORIES



Legend

- OIE Reference Laboratories

TWINNING : CANDIDATE LABORATORIES AND COLLABORATING CENTERS



Legend

- On going twinning : candidate laboratories
- Completed twinning : candidate laboratories
- ▲ On going twinning : candidate collaborating centers
- ▲ Due to commence twinning : candidate collaborating centers

Twinning global view



- 3 projects complete; 29 underway; 6 approved and to start
- Europe 4 Candidate labs
- Americas 8 Candidate labs
- Africa 17 Candidate labs
- Middle East 5 Candidate labs
- Asia-Pacific 10 Candidate labs
- Most popular disease topics - AI/ND (10), brucellosis (4), rabies (3)
- Subjects – food safety, veterinary medicinal products, epidemiology

Europe



- **AI/ND;** Italy with Russia (completed)
- **Brucellosis;** UK with Turkey
- **Rabies;** Germany with Turkey
- **ASF;** Spain with Russia

Middle East



● **Brucellosis;**

UK with Turkey

● **AI/ND;**

Germany with Egypt

● **Rabies;**

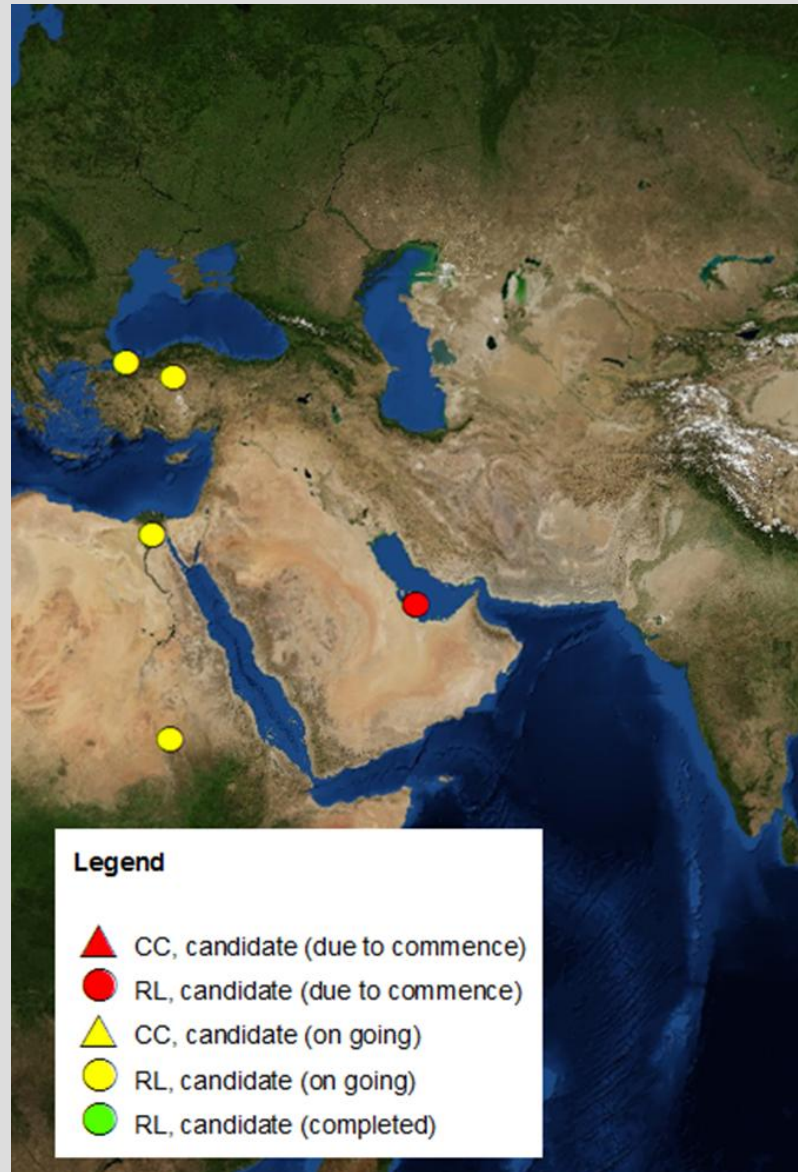
Germany with Turkey

● **Brucellosis;**

UK with Sudan

● **AI/ND;**

Italy with Qatar (pending)



Africa

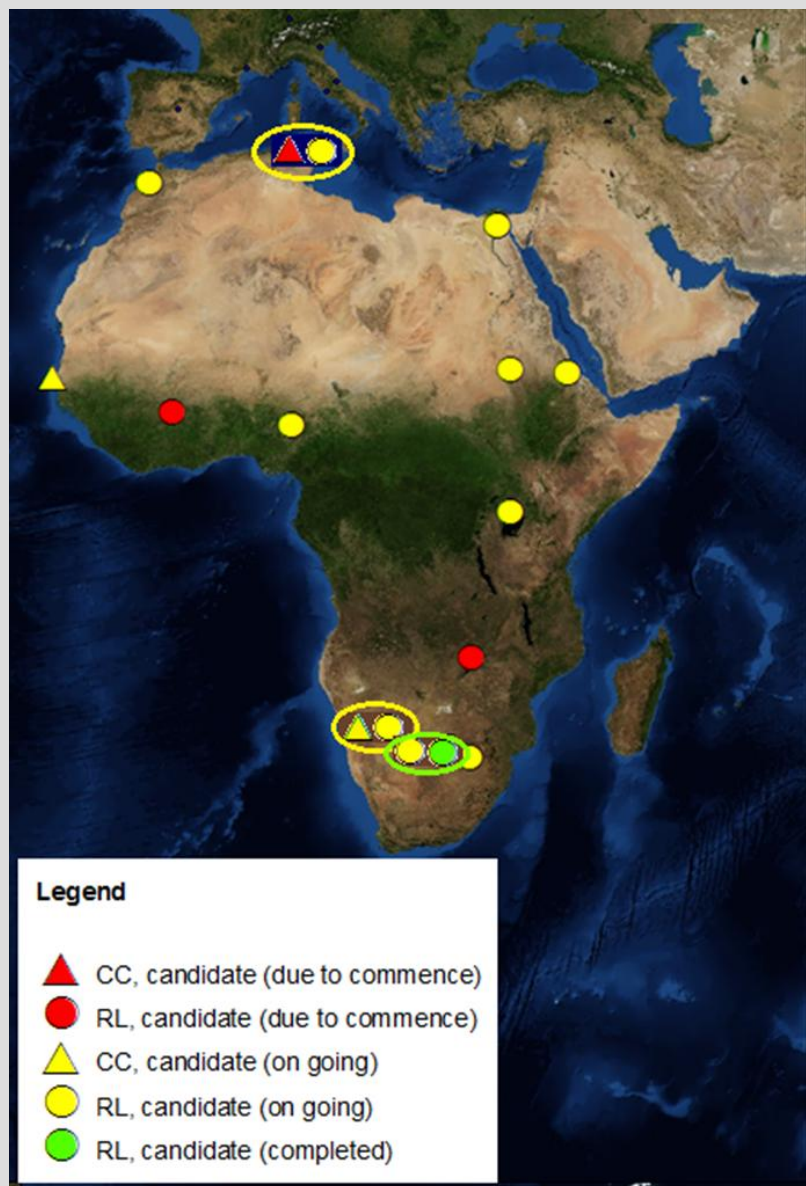


- **CBPP;** Italy with Botswana (completed)
- **AI/ND;** UK with Botswana and South Africa
- **AI/ND;** Germany with Egypt
- **Brucellosis;** Italy with Eritrea
- **Bluetongue + AHS;** UK with Morocco
- **Brucellosis;** UK with Sudan
- **Food safety;** Italy with Namibia
- **Ovine chlamydiosis;** Switzerland with Namibia
- **Trichinella;** Italy with Botswana
- **Bluetongue;** Italy with Tunisia






Africa



- **Veterinary Medicinal Products;** France with Senegal
- **Rabies;** South Africa with Nigeria
- **Improved diagnostic capacity;** UK with Uganda
- **Food safety;** Italy with Tunisia (approved)
- **EUS;** Thailand with Zambia (approved)
- **African Trypanosomiasis;** France with Burkina Faso (approved)



Legend

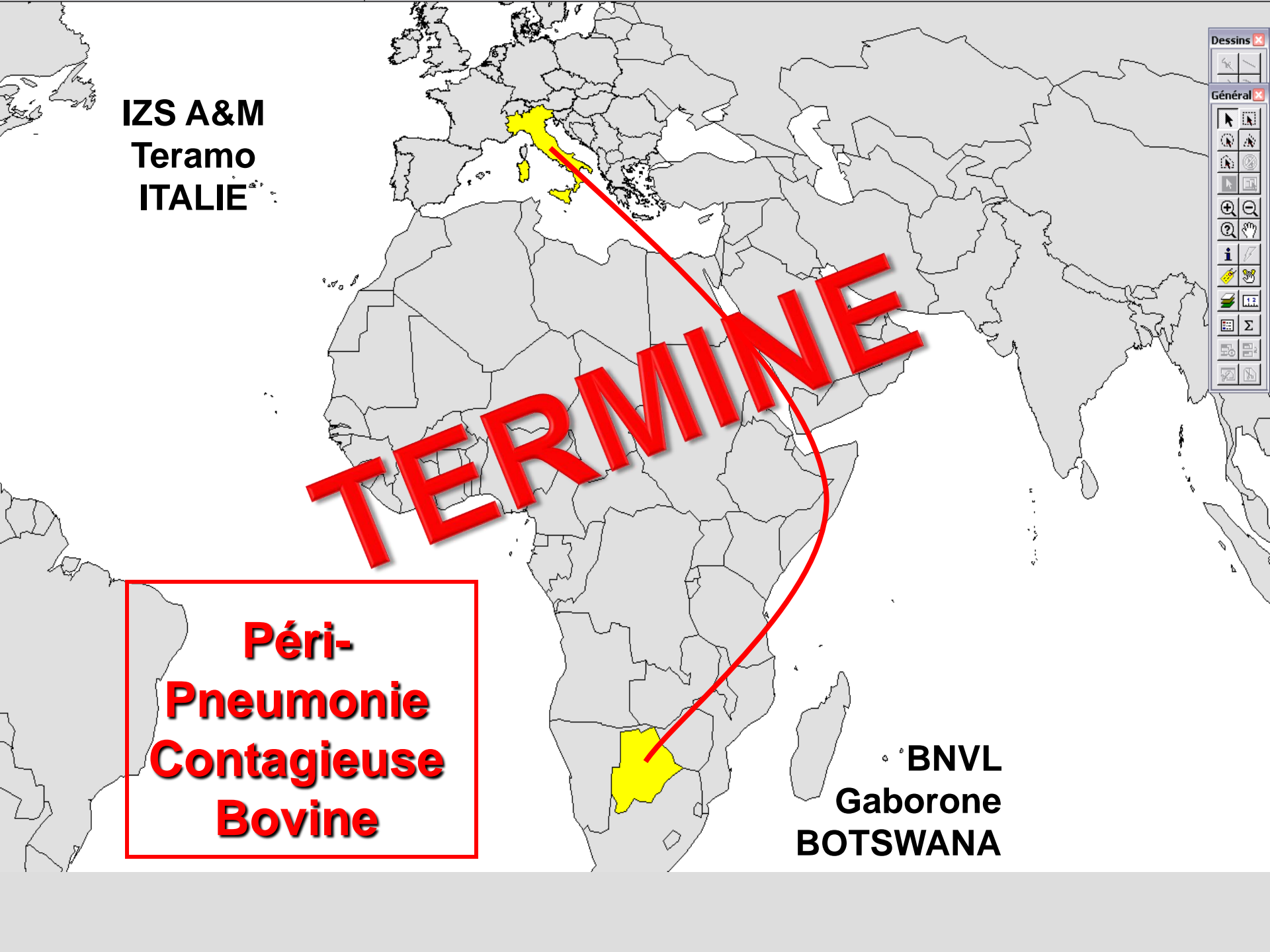
-  CC, candidate (due to commence)
-  RL, candidate (due to commence)
-  CC, candidate (on going)
-  RL, candidate (on going)
-  RL, candidate (completed)

**IZS A&M
Teramo
ITALIE**

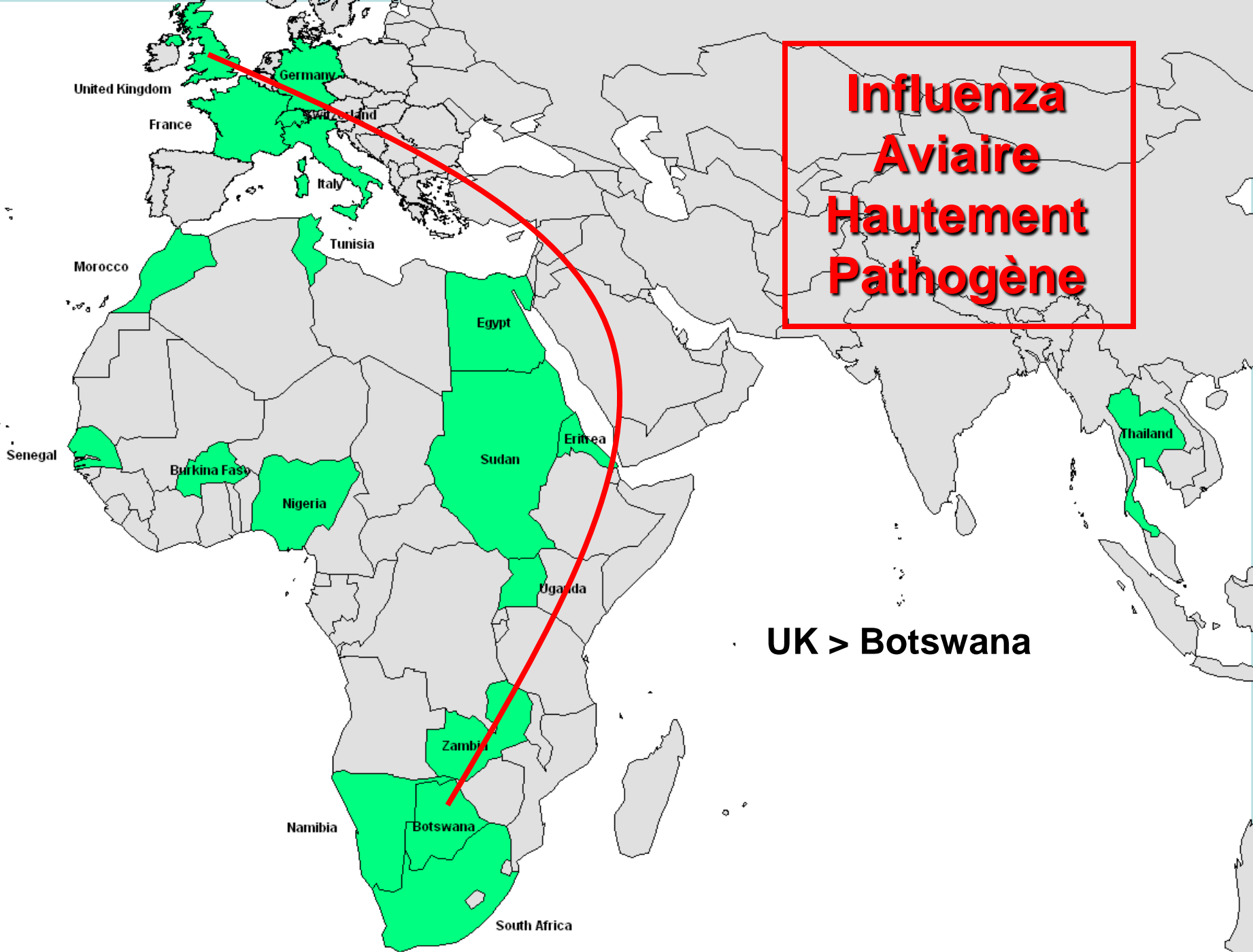
TERMINE

**Péri-
Pneumonie
Contagieuse
Bovine**

**BNVL
Gaborone
BOTSWANA**



**Influenza
Aviaire
Hautement
Pathogène**



UK > Botswana

Namibia

Botswana

South Africa

Zambia

Uganda

Nigeria

Burkina Faso

Senegal

Egypt

Eritrea

Sudan

Tunisia

Italy

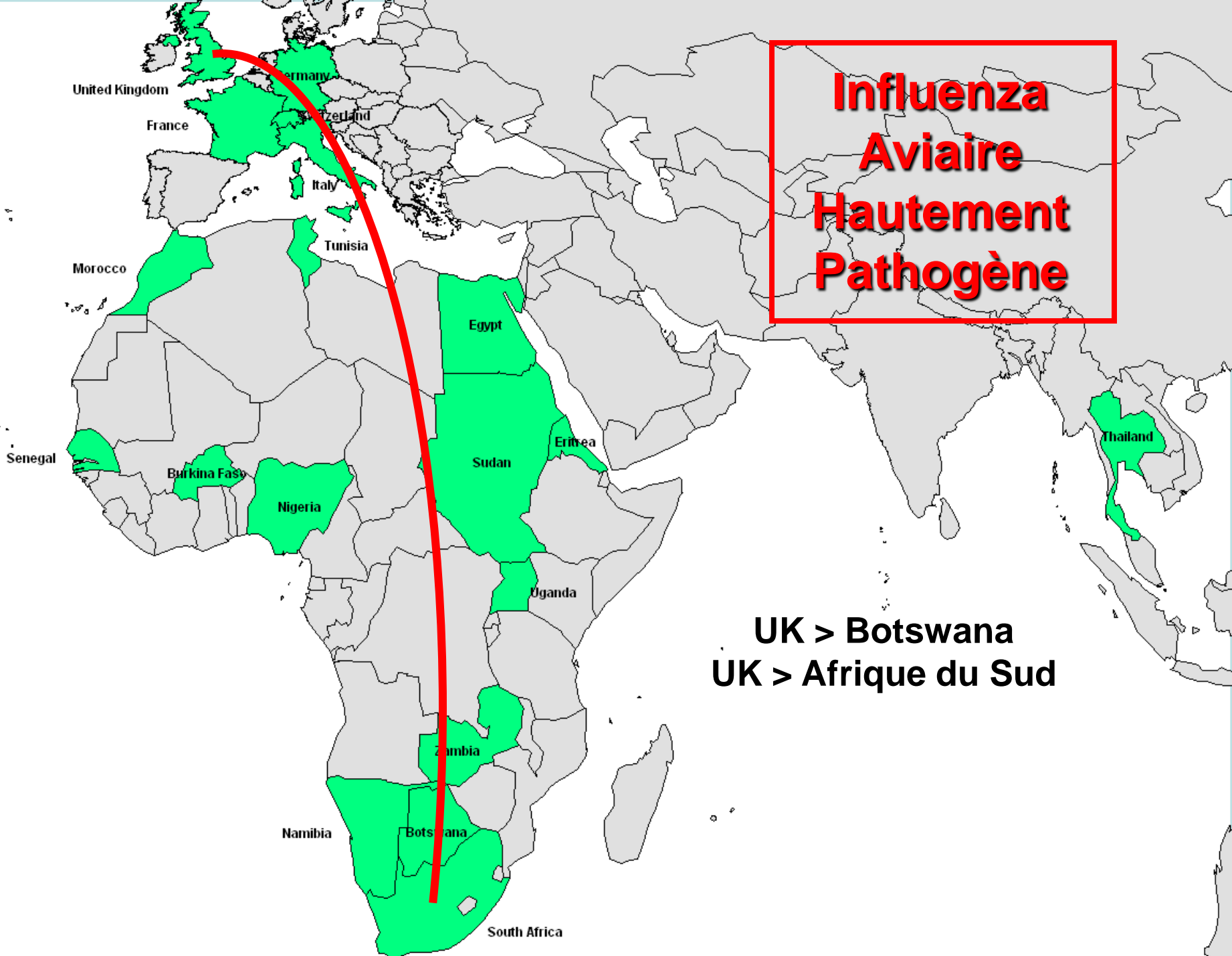
France

Germany

United Kingdom

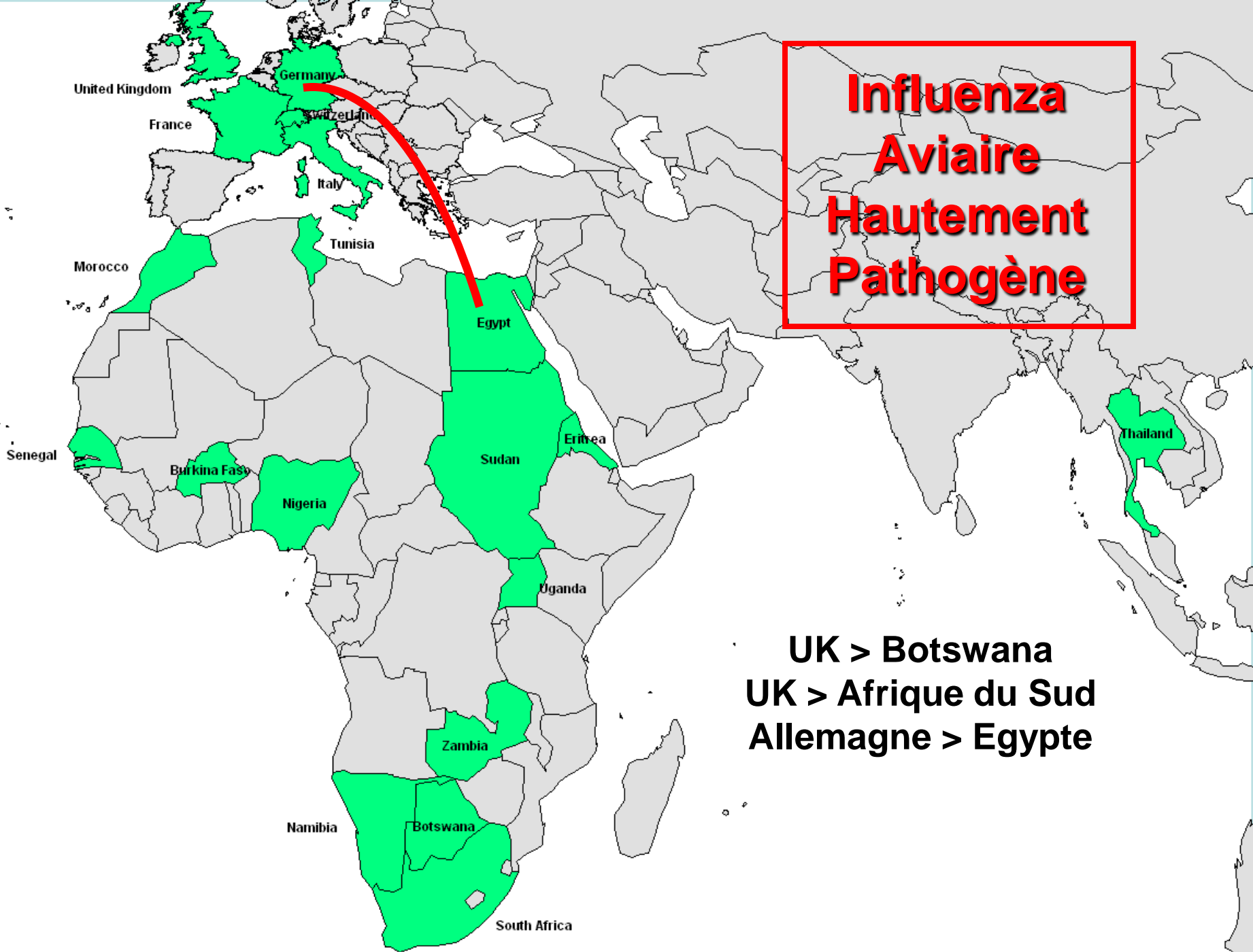
Thailand

**Influenza
Aviaire
Hautement
Pathogène**



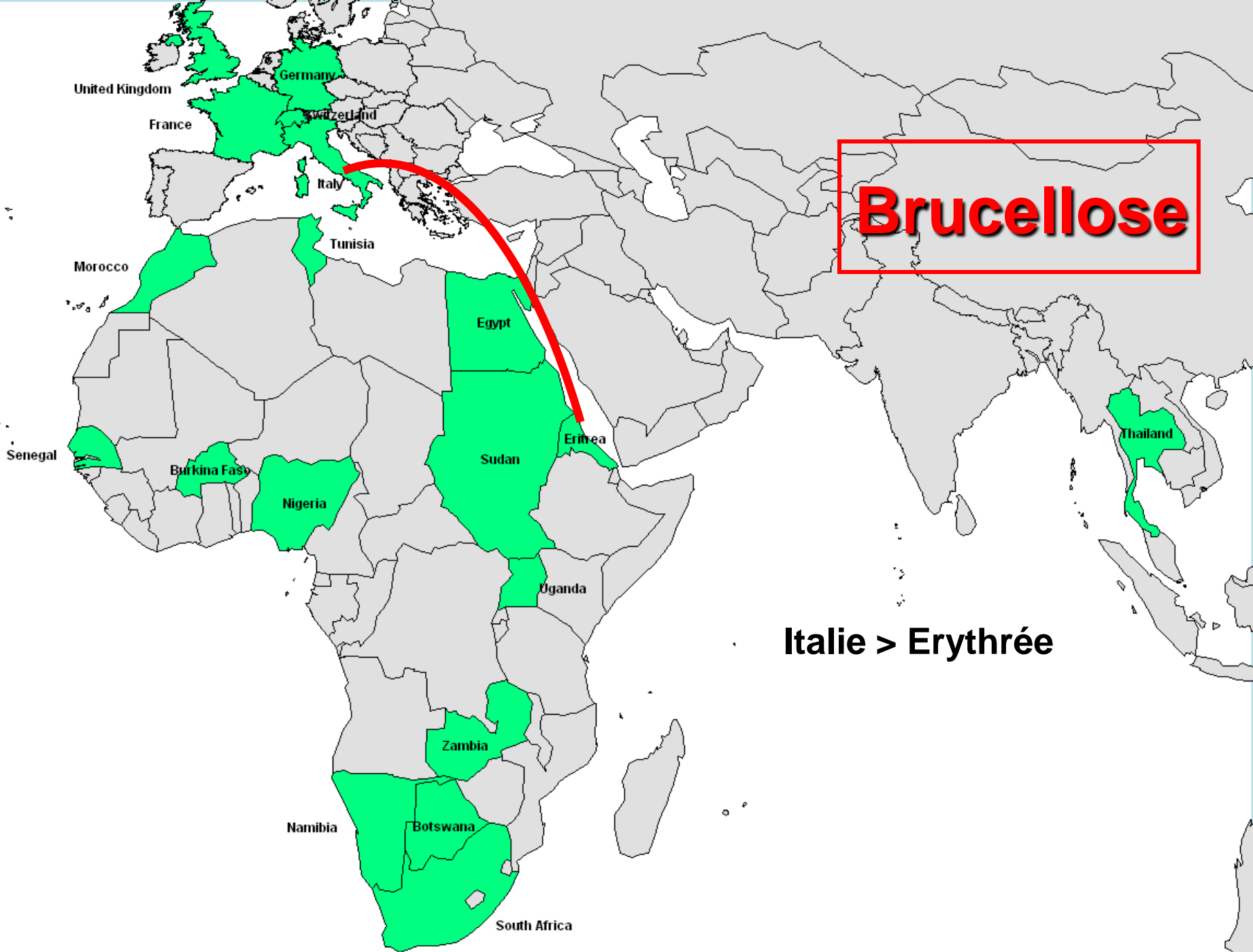
**UK > Botswana
UK > Afrique du Sud**

**Influenza
Aviaire
Hautement
Pathogène**

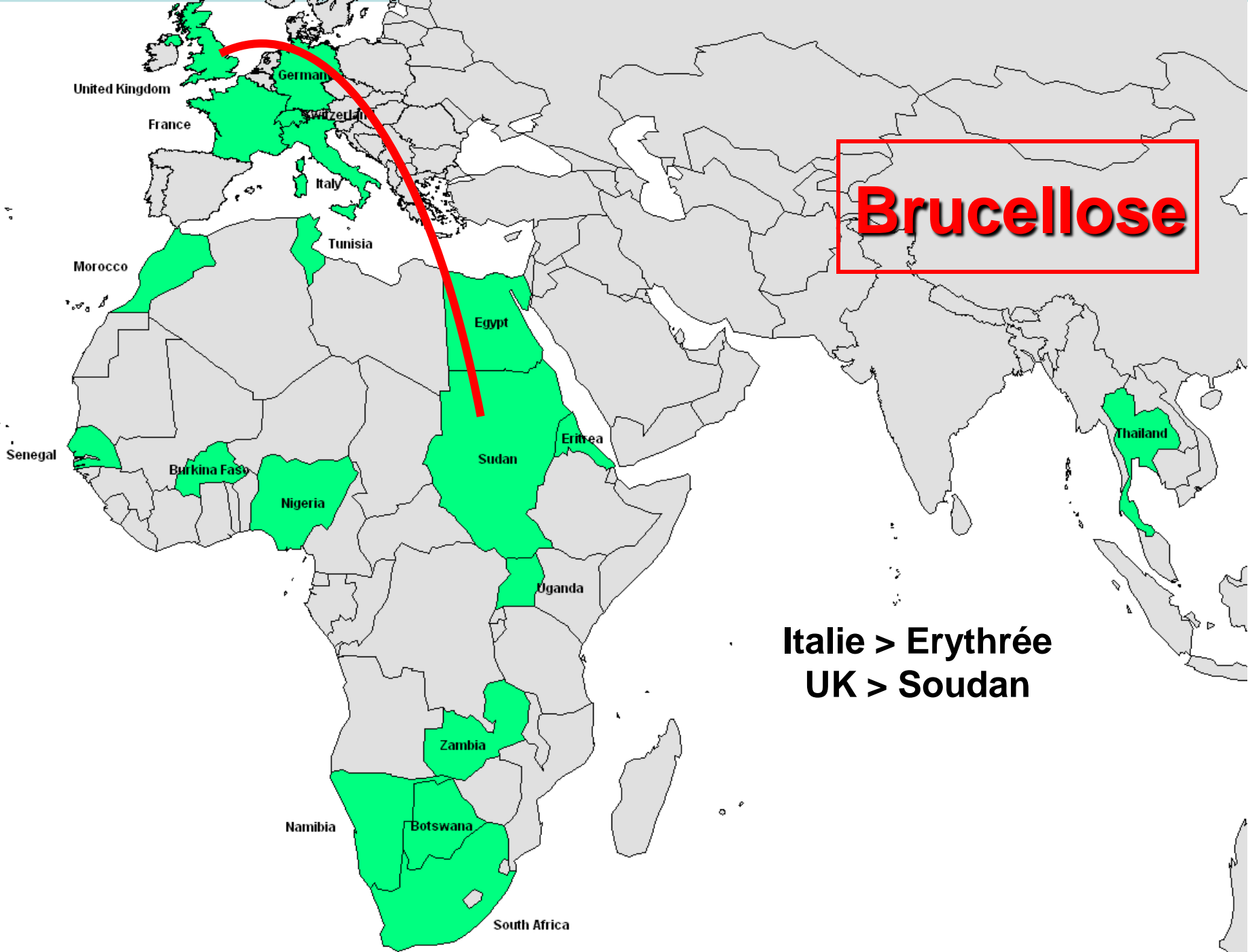


**UK > Botswana
UK > Afrique du Sud
Allemagne > Egypte**

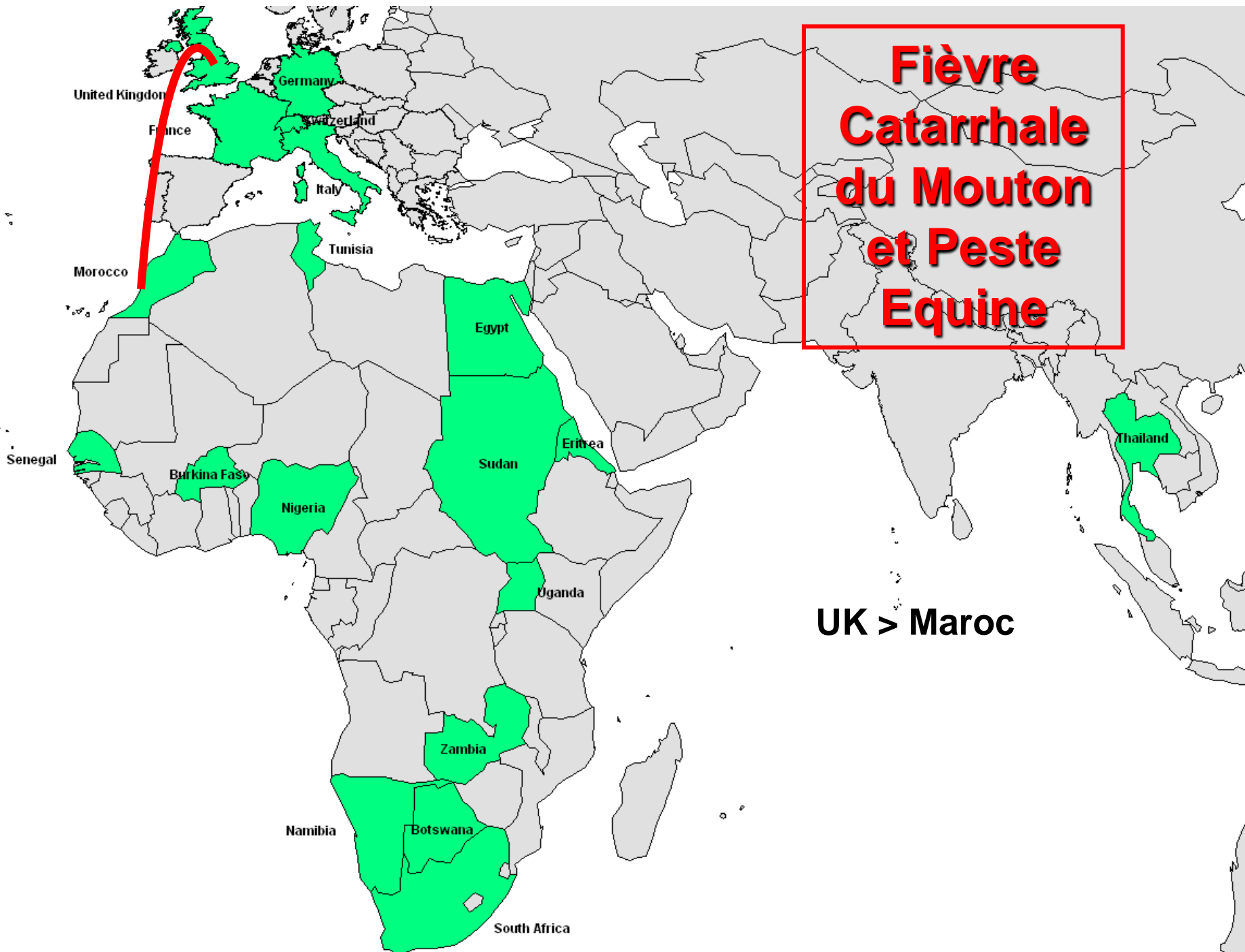
Brucellose



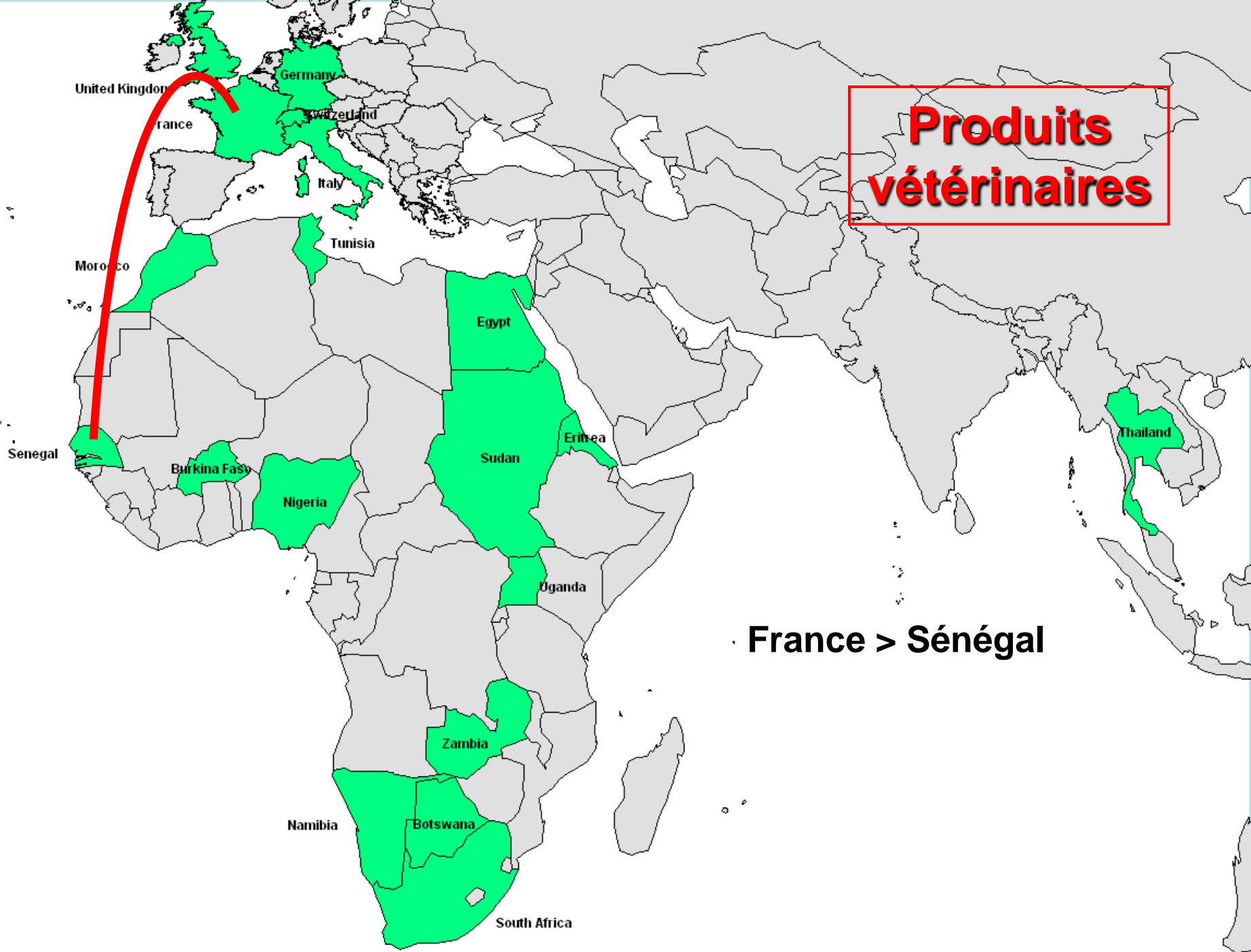
Italie > Erythrée



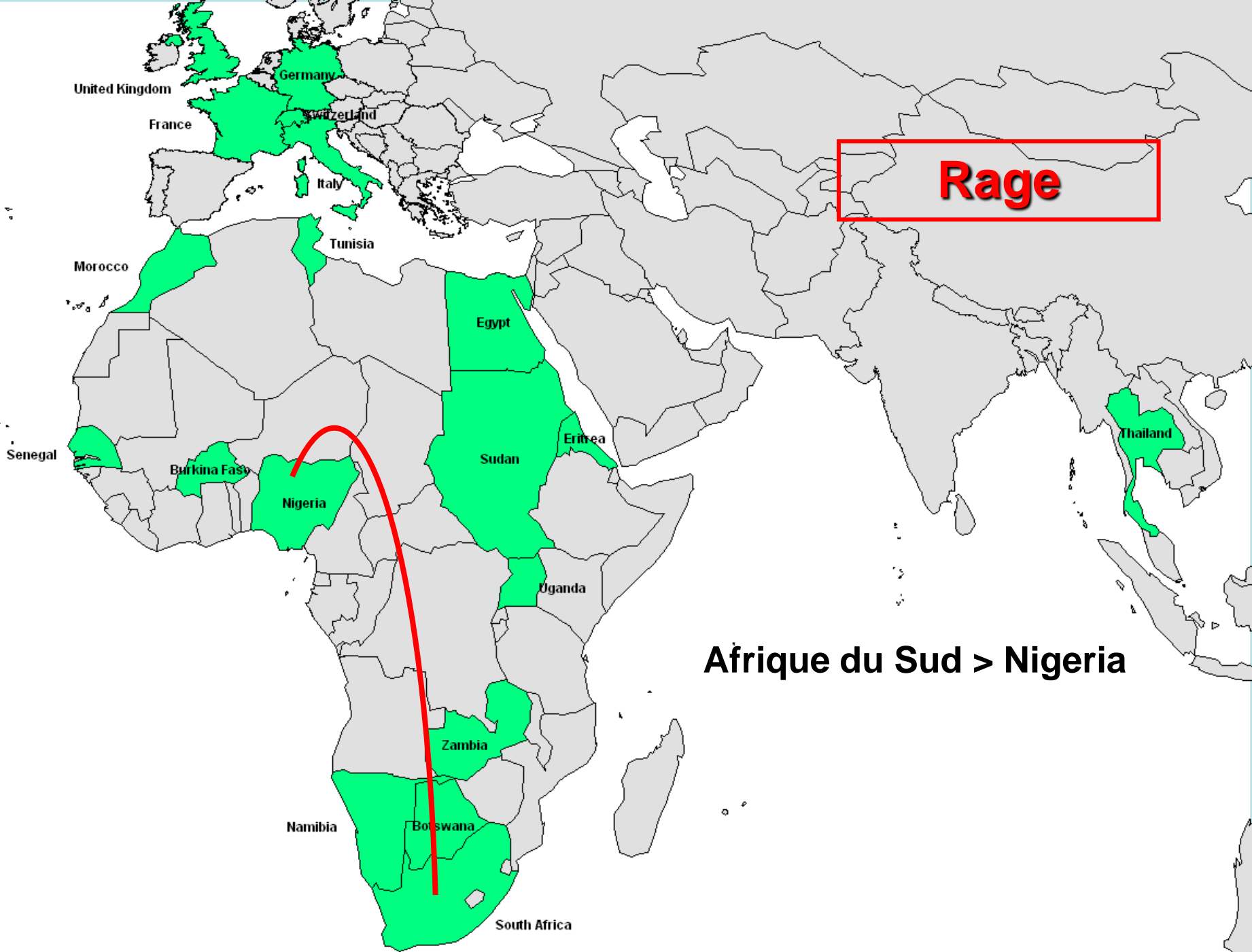
Fièvre Catarrhale du Mouton et Peste Equine



Produits vétérinaires



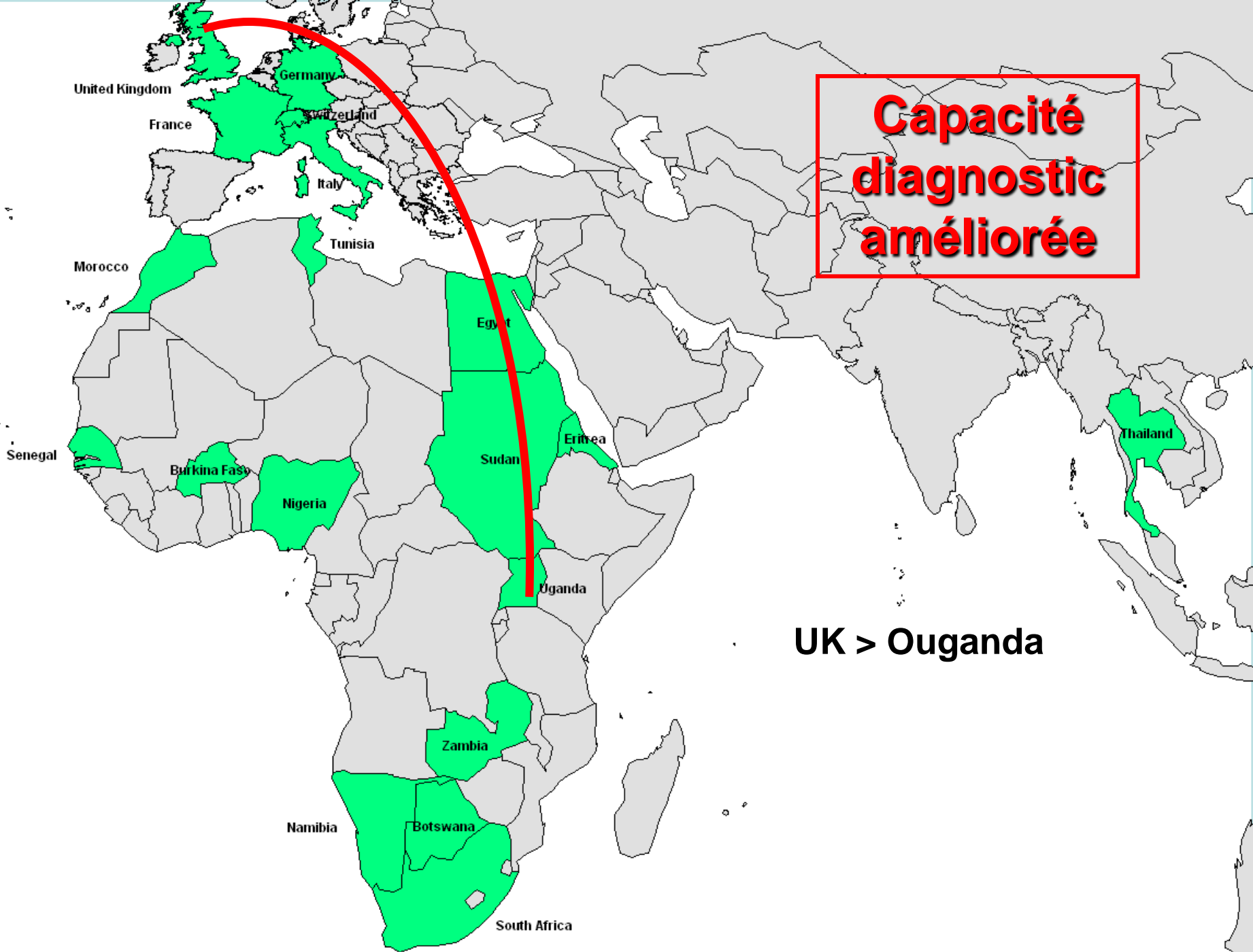
France > Sénégal



Rage

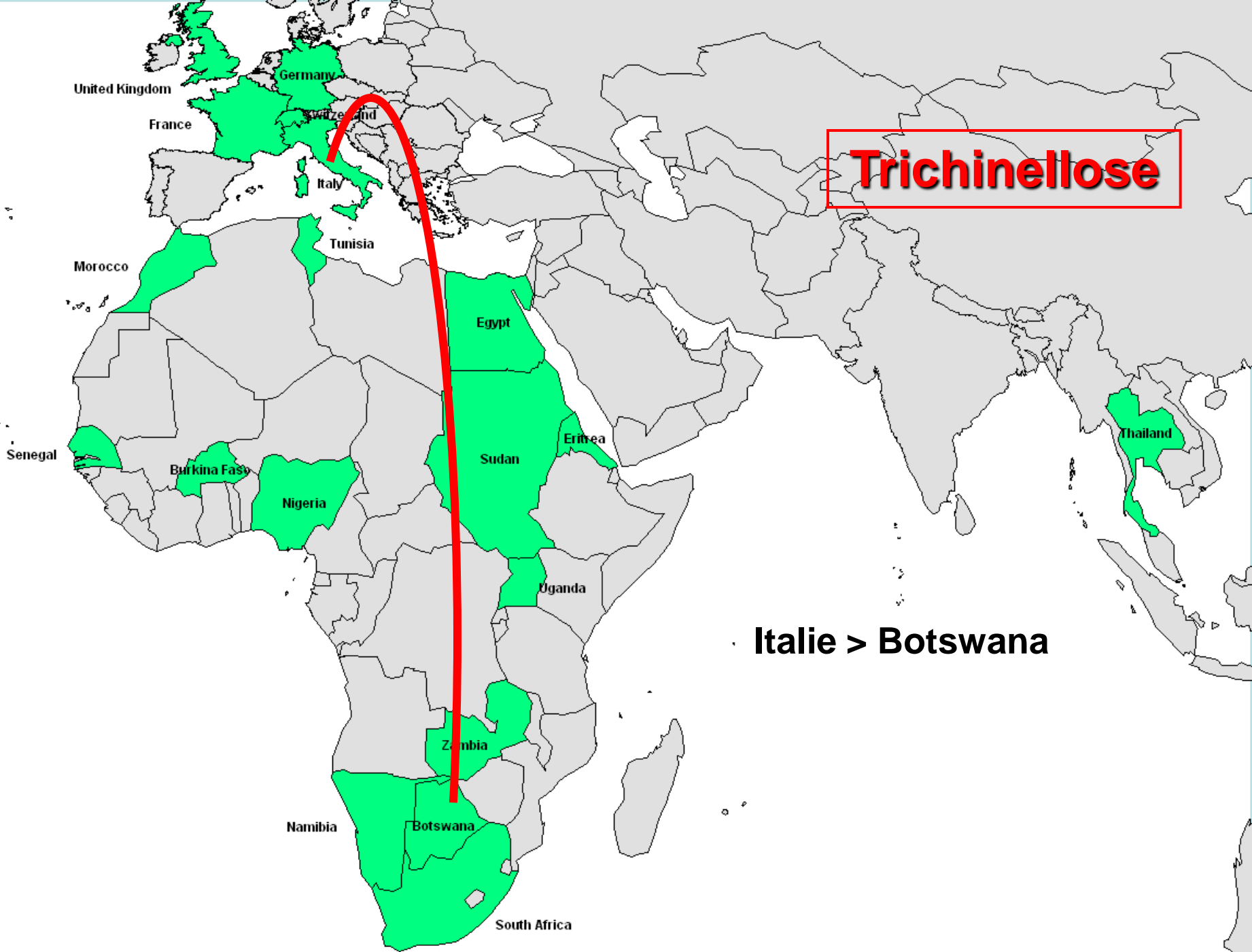
Afrique du Sud > Nigeria

**Capacité
diagnostic
améliorée**



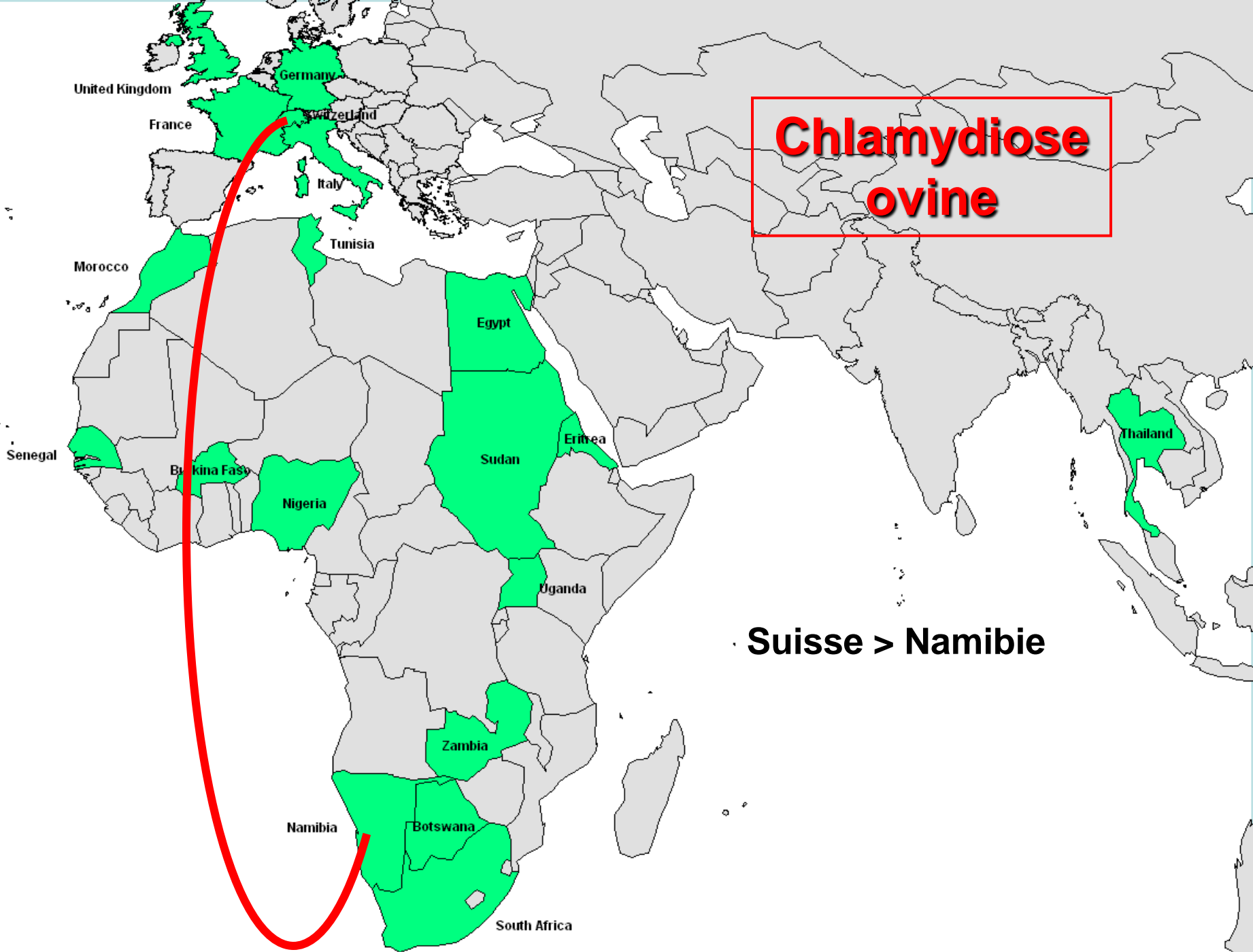
UK > Ouganda

Trichinellose

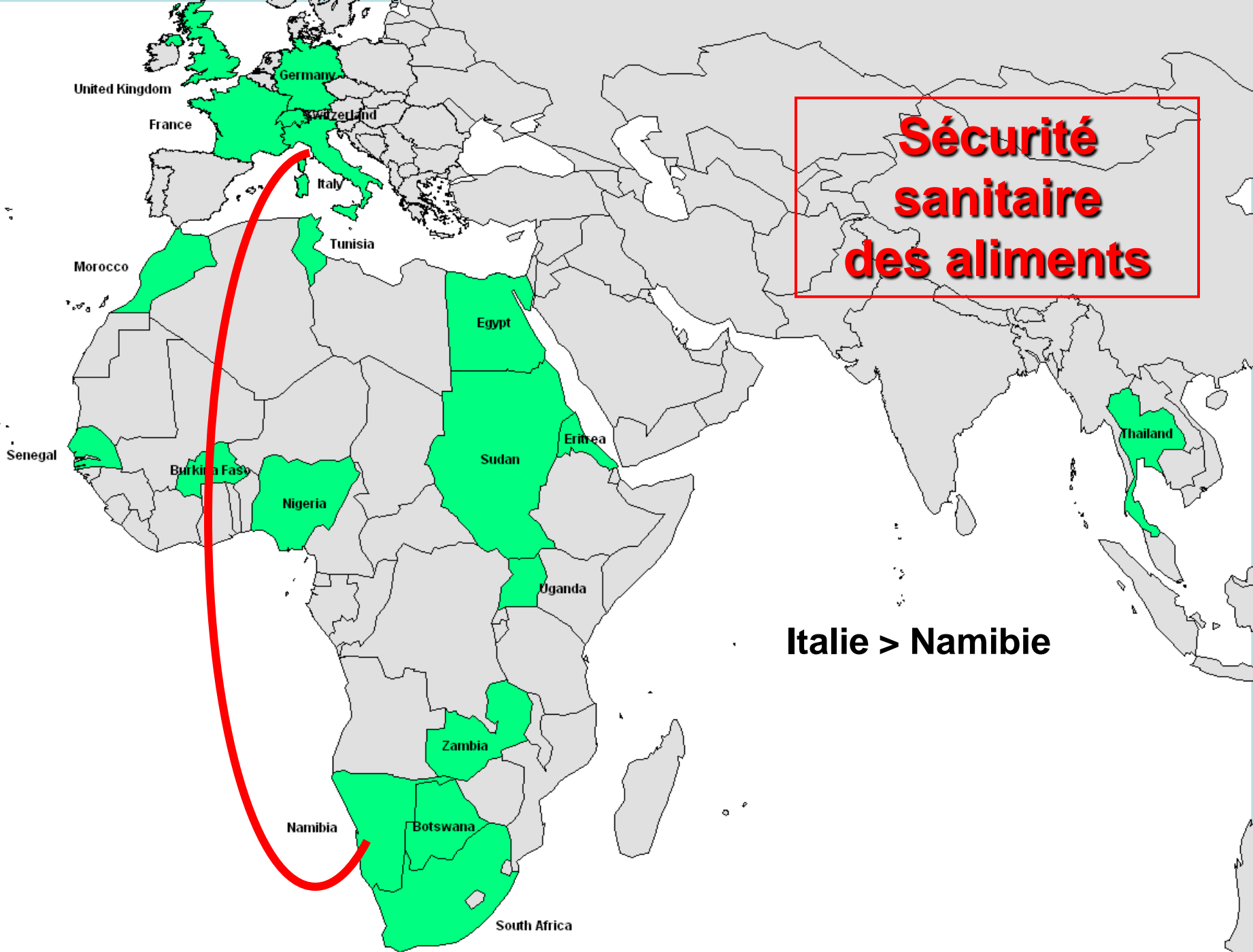


Italie > Botswana

Chlamydirose ovine

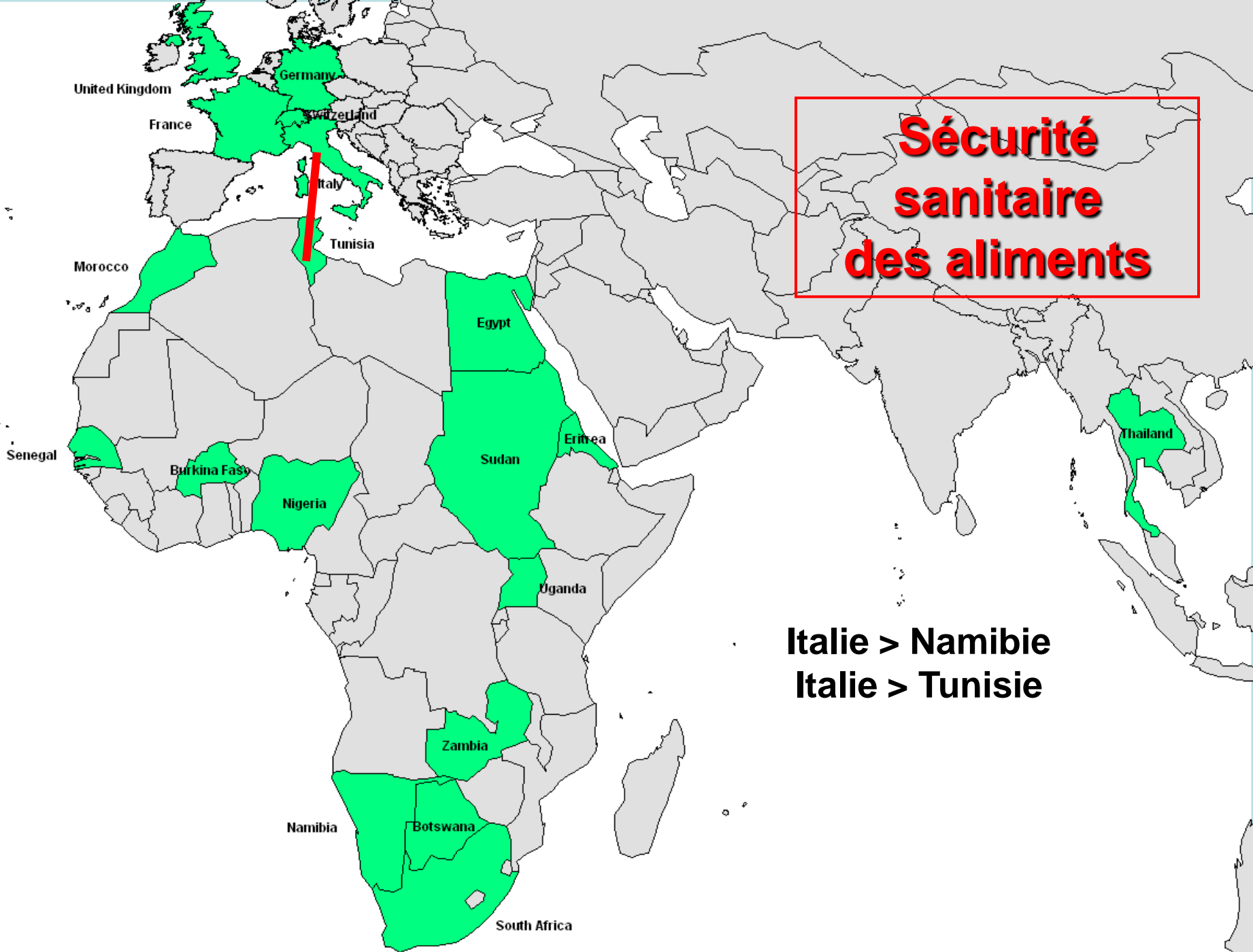


Sécurité sanitaire des aliments



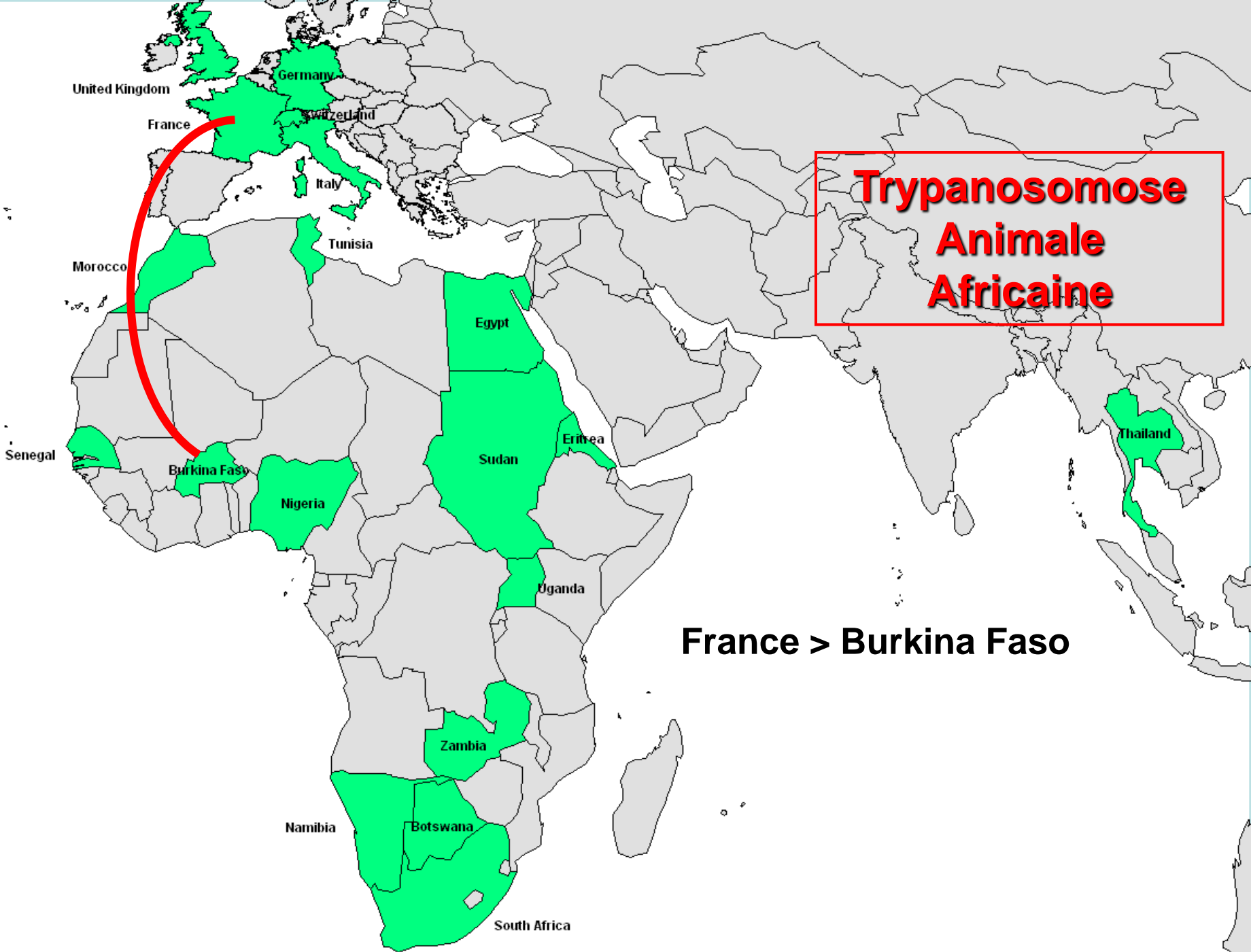
Italie > Namibie

Sécurité sanitaire des aliments

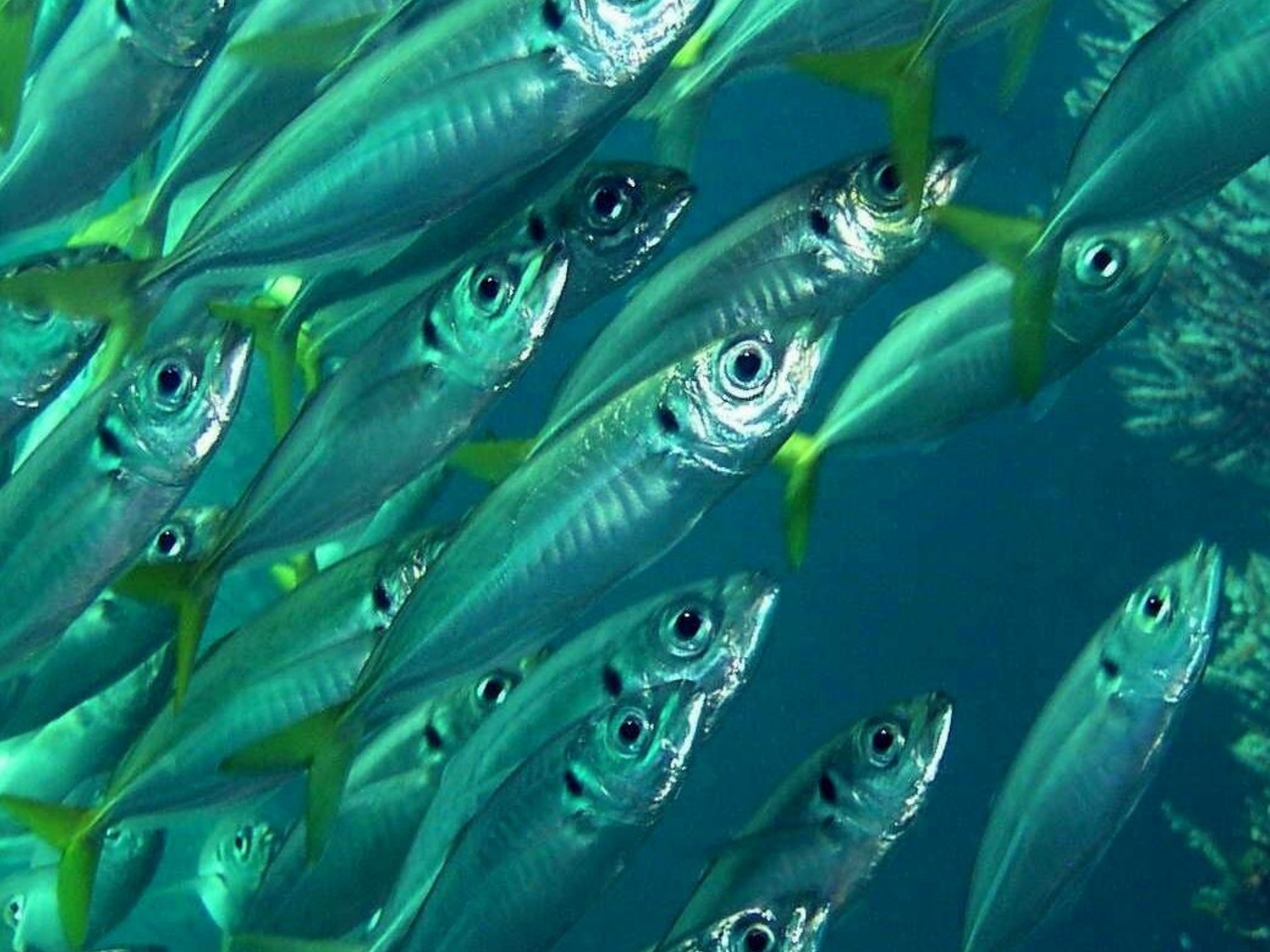


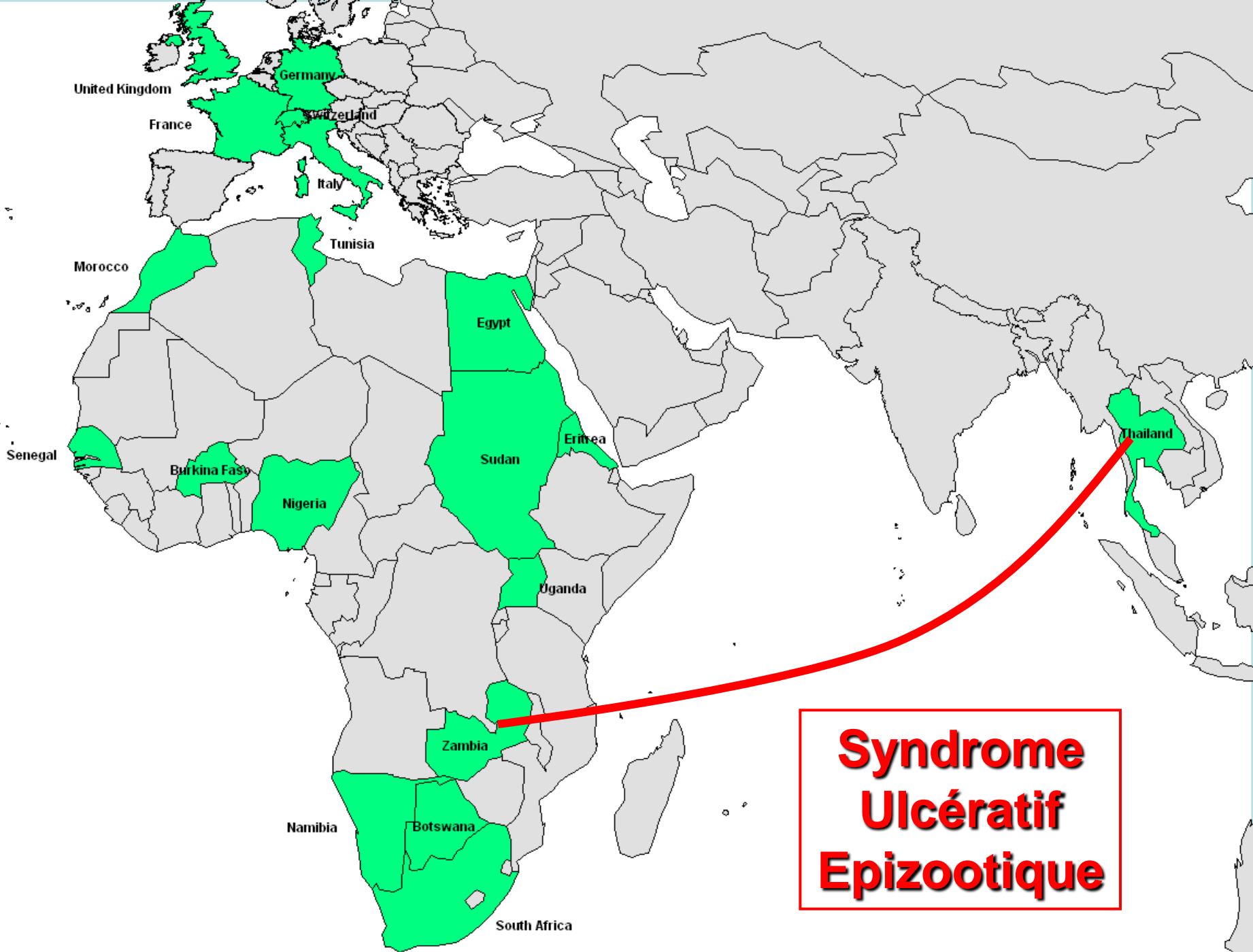
Italie > Namibie
Italie > Tunisie

**Trypanosomose
Animale
Africaine**



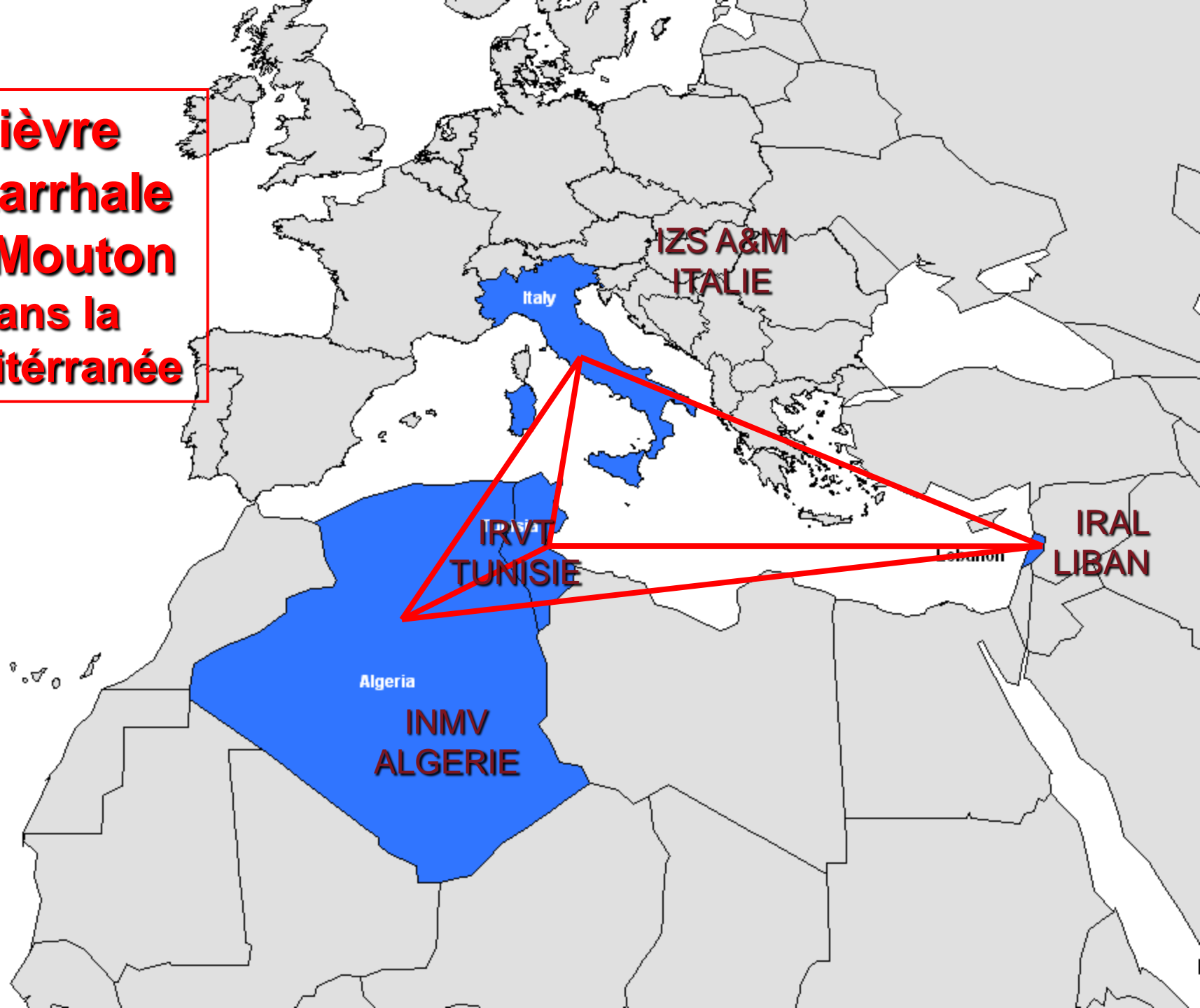
France > Burkina Faso



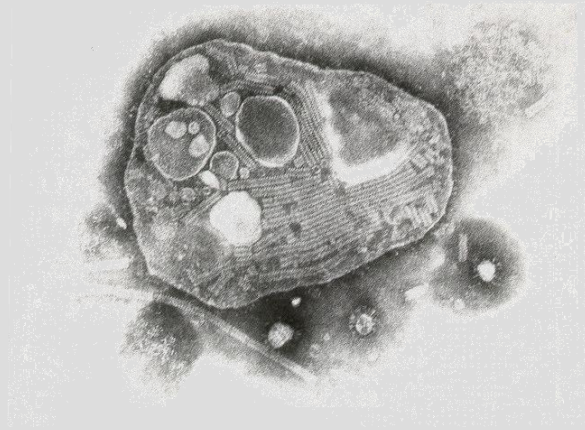


**Syndrme
Ulcératif
Epizootique**

**Fièvre
Catarrhale
du Mouton
dans la
Méditerranée**



Eradication mondiale de la peste bovine



Africa commemorates the final eradication of **Rinderpest** from our planet in 2011

**Merci de votre
aimable
attention !**

