



Organisation
Mondiale
de la Santé
Animale

World
Organisation
for Animal
Health

Organización
Mundial
de Sanidad
Animal

Sub-regional training seminar on diseases of honeybees for OIE national focal points

14 – 17 June 2011
Ezulwini Swaziland

Neo J. Mapitse





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Reference Laboratories and Collaborating Centres

GENERAL INTRODUCTION



Layout

- Definition
- Geographical spread
 - Globally
 - Africa Region
- Their Mandate and Objectives
- OIE Laboratory Twinning Program
- Regional Examples
- Conclusion



The OIE Network of Reference Laboratories and Collaborating Centres

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



OIE Reference Laboratories

- Are designated to pursue all the scientific and technical problems relating to a named disease or specific topic
- The role of a RL is to function as a centre of expertise and standardisation of diagnostic techniques for its designated disease.



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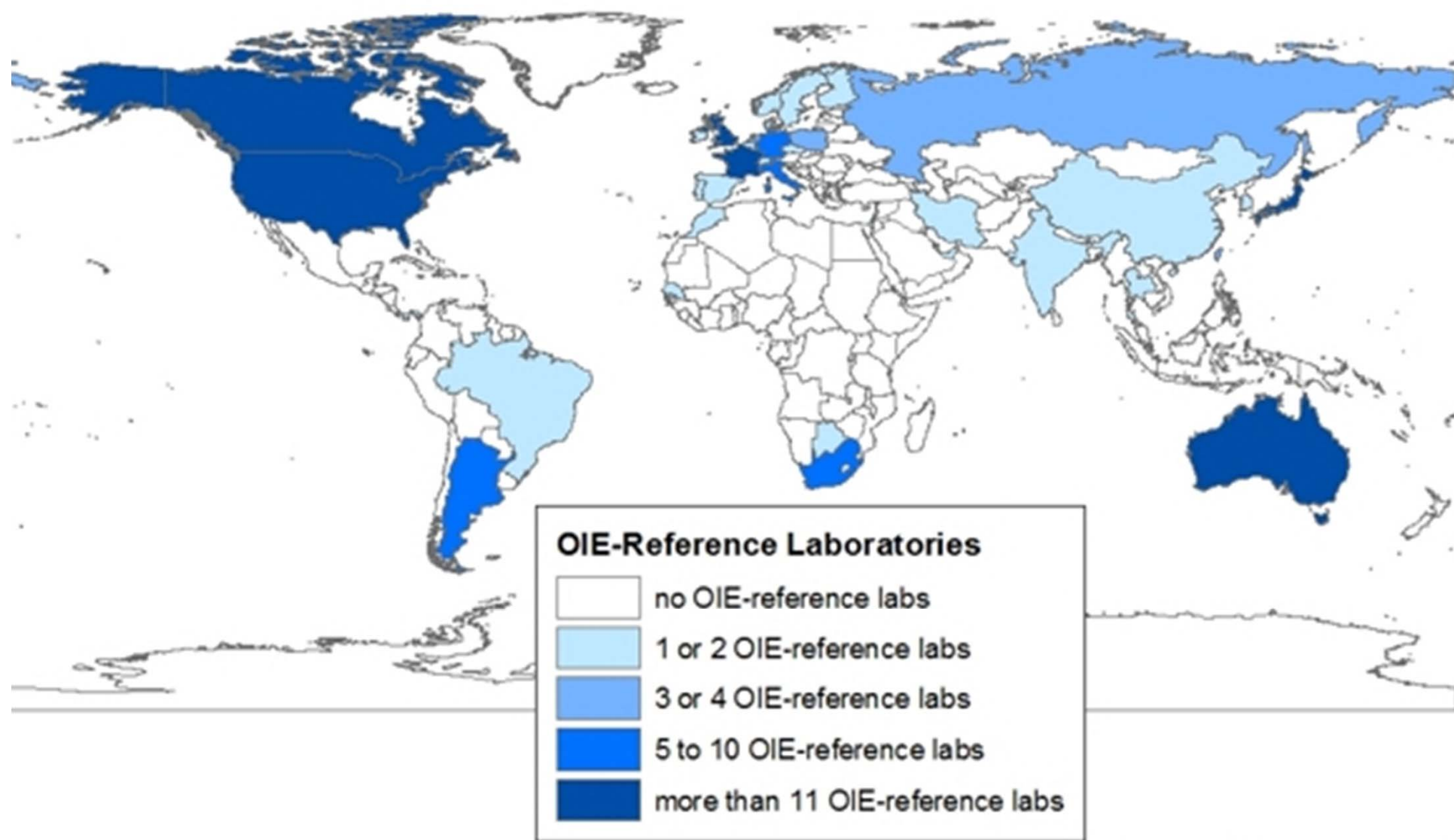
The OIE Network of Reference Laboratories

REGION	Number of Labs	No. of countries hosting
Africa	11	4*
The Americas	65	6
Asia, Far East & Oceania	41	7
Europe	105	18
Middle East	3	2
TOTAL	225	37

*BW, RSA, Maroc, Senegal



World distribution of the OIE - Reference Laboratories





Principal Mandate of RL

- Centre of expertise and standardisation for a designated disease(s) or topics;
- Store and distribute to national labs biological reference products and any other reagents;
- Develop new procedures for diagnosis and control of the designated disease(s) or topics;
- Gather, process, analyse and disseminate epizootiological data relevant to their speciality;
- to place expert consultants at the disposal of the OIE.



Mandate (contd)

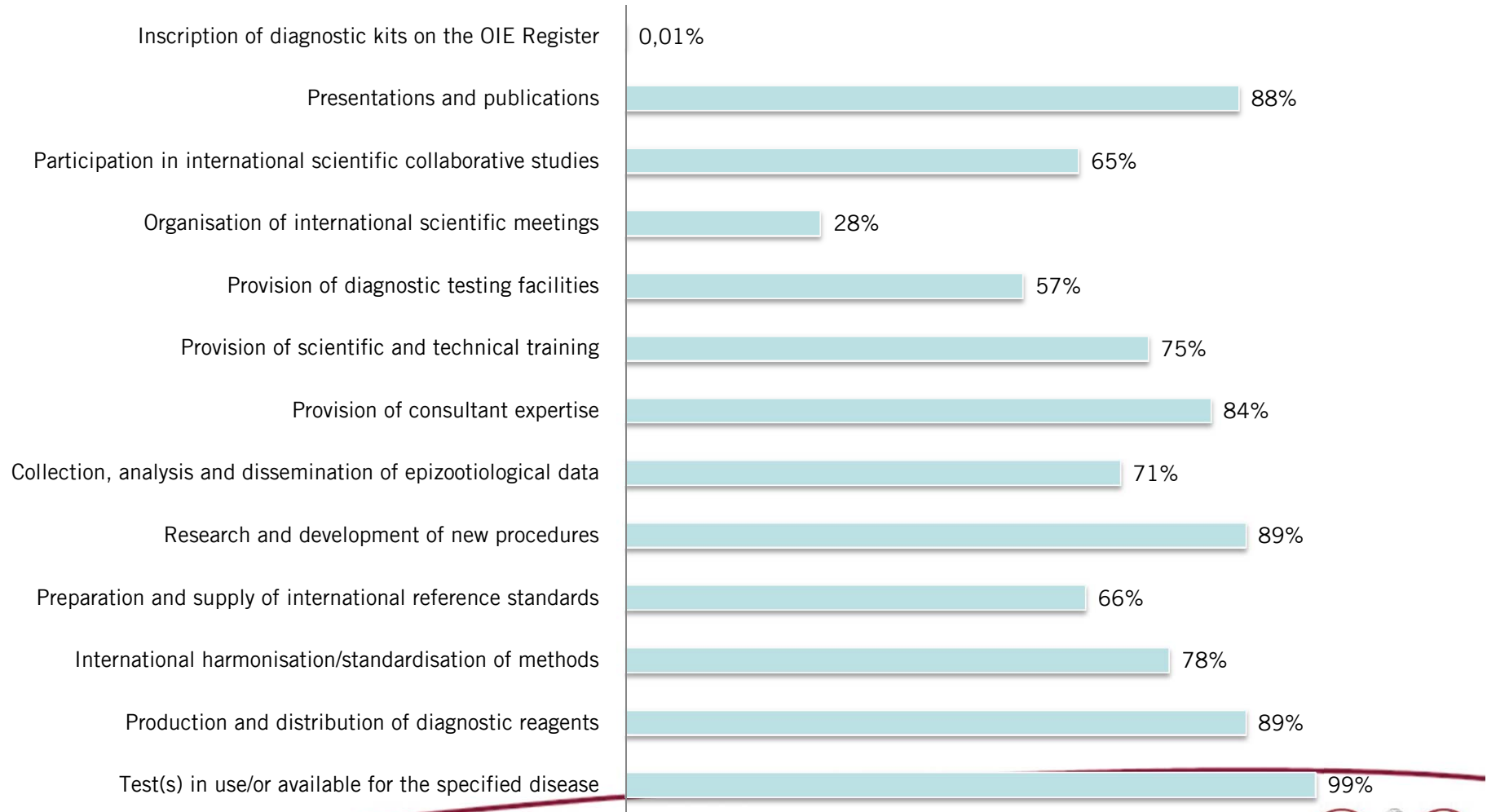
They may also contribute to:

- Provision of scientific and technical training;
- Provision of diagnostic testing facilities:
for confirmed positive results or diseases that are reportable to OIE, the RL immediately inform the OIE Delegate of the source Member Country or as well as the OIE Headquarters;
- Organisation of scientific meetings on behalf of the OIE;
- Coordination of scientific and technical studies in collaboration with other laboratories or organisations;
- publication and dissemination of information.



Percentage of RLs carrying out these activities

Percentage of Laboratories carrying out these activities (2010)





Reference Laboratories

OIE Regional Representation for Africa

Africa-based OIE Reference laboratories

- African Horse Sickness
- African Swine Fever
- Bluetongue
- Control of veterinary products in Sub-Saharan Africa
- Echinococcosis / Hydatidosis
- Foot-and-Mouth Disease
- Lumpy Skin Disease
- Sheep and goat pox
- Rabies
- Rift Valley Fever

Foot and mouth disease

Dr O. G. Matlho
Botswana Vaccine Institute,
Department of Animal Health and Production
Broadhurst Industrial Site, Leirara Road

Twining with OIE Reference Laboratories

(c) P. Bastiaensen (oie) 2005

At present the expertise and diagnostic capacity provided through Reference Laboratories and



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COLLABORATING CENTRES



Collaborating Centres

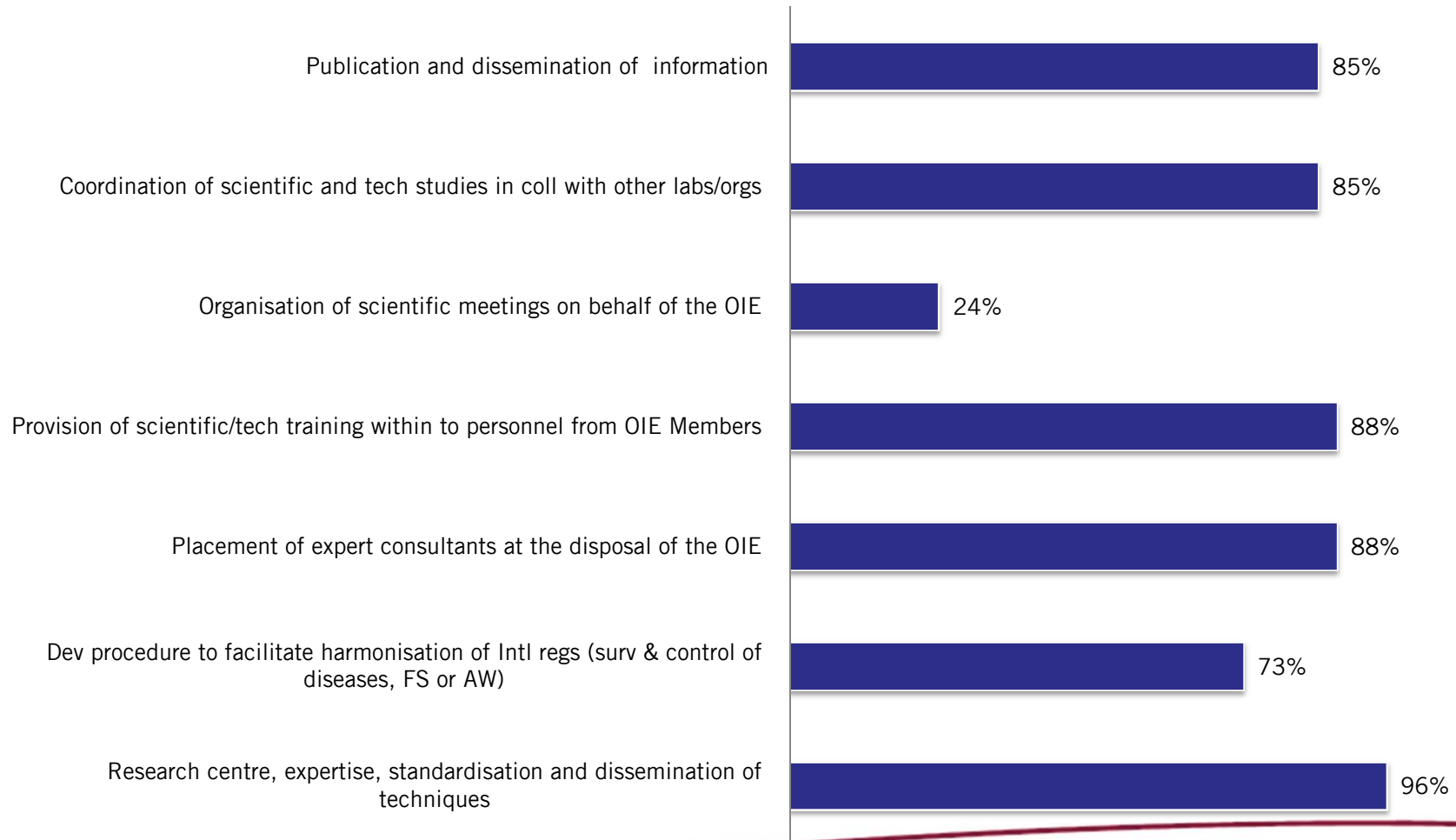
- Centres of expertise in a specific designated sphere of competence relating to the management of general questions on animal health issues (for example epidemiology, risk analysis, training vet officials, veterinary drugs etc.)
- In its designated field of competence, they must provide their expertise internationally



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Percentage of CCs carrying out these activities

Percentage of CCs carrying out these activities (2010)





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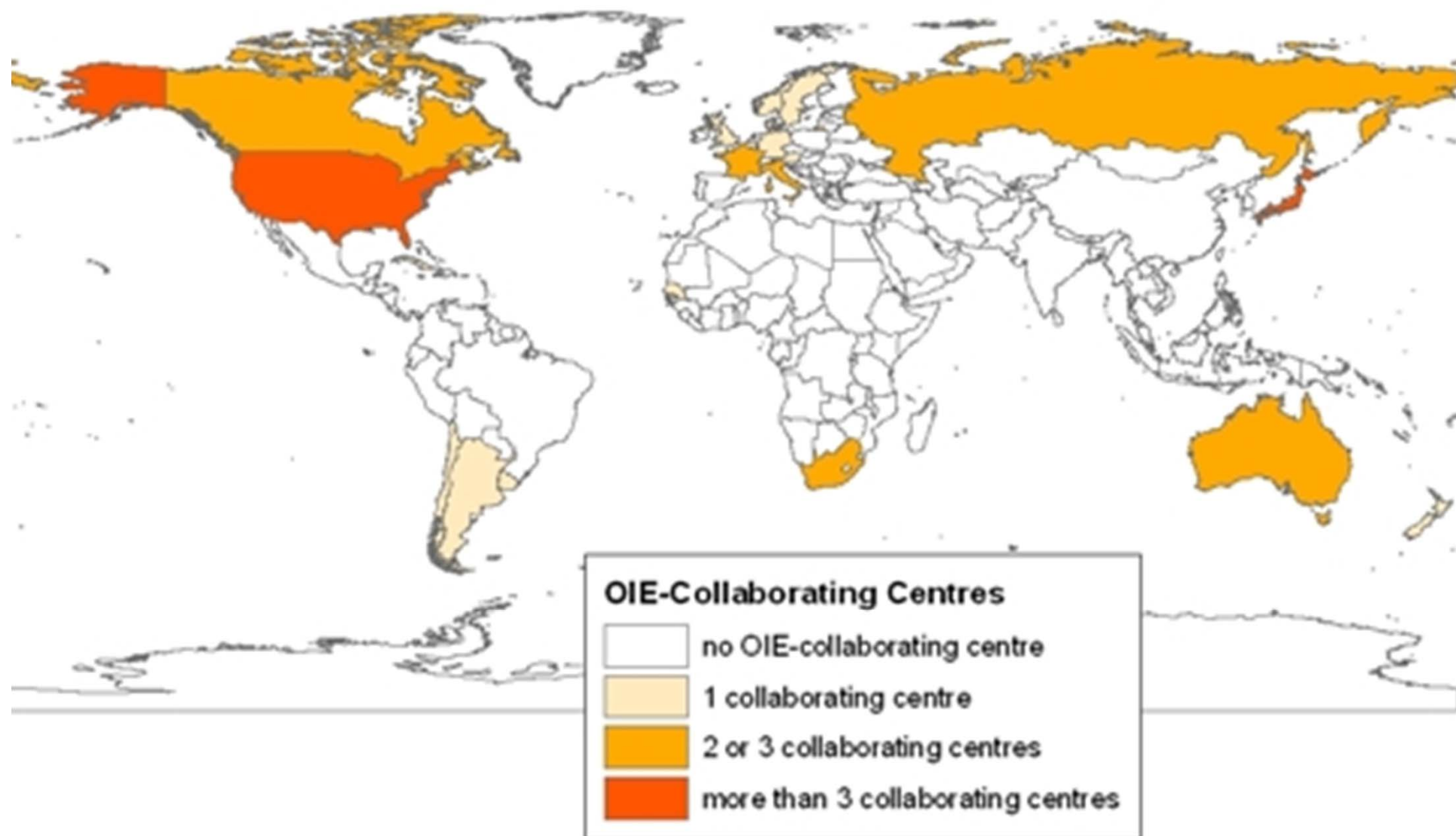
Collaborating Centres

REGION	No. of Centres	No. Countries hosting
Africa	3	2**
The Americas	15	6
Asia, Far East & Oceania	7	3
Europe	15	10
Middle East	-	-
TOTAL	40	21

**RSA, Senegal



World Distribution of the OIE- Collaborating Centres





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Collaborating Centres

OIE Centres de Collaboration :: Afrique - Windows Internet Explorer

http://www.rr-africa.oie.int/fr/CC/fr/all_centers.html

Google

Home: OIE - World Organi... OIE Centres de Collabo... x



Page Safety Tools

Centres Collaborateurs de l'OIE basés en Afrique

Surveillance et contrôle des maladies animales en Afrique

Onderstepoort Veterinary Institute
Agricultural Research Council
Private Bag X 5
Onderstepoort 0110
AFRIQUE DU SUD
Tel: (27.12) 529.91.06
Fax: (27.12) 565.46.64
E-mail: musoket@arc.agric.za

Our vision is "Excellence in Agricultural Research and Development"



(c) ARC (OVI) 2005 & 2008

Formation en santé et gestion intégrées du bétail et de la faune

Department of Veterinary Tropical Diseases
Faculty of Veterinary Science
University of Pretoria
Private Bag X 4
Onderstepoort 0110
AFRIQUE DU SUD
Tel.: (27.12) 529.82.69
E-mail: kooz.coetzer@up.ac.za

- Représentations
- Commission Régionale
- Délégués OIE
- Mandats OIE
- Labos de référence
- Centres collaborateurs**
- Programmes régionaux
- Bibliothèque
- Contacts
- Liens

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TWINNING LABORATORIES



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WHY A LABORATORY TWINNING PROGRAMME?

Networking & Expertise



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Aims and objectives - networking

- Provide better global geographical coverage of OIE expertise for priority diseases in priority areas such as developing and transition countries
- To form long and lasting links between the institutions
- 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 early detection and rapid response
- For some Candidates to apply for 'OIE reference' status
- Help more countries enter scientific debate on an equal footing with others



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The twinning project is just the start....

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



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A young programme

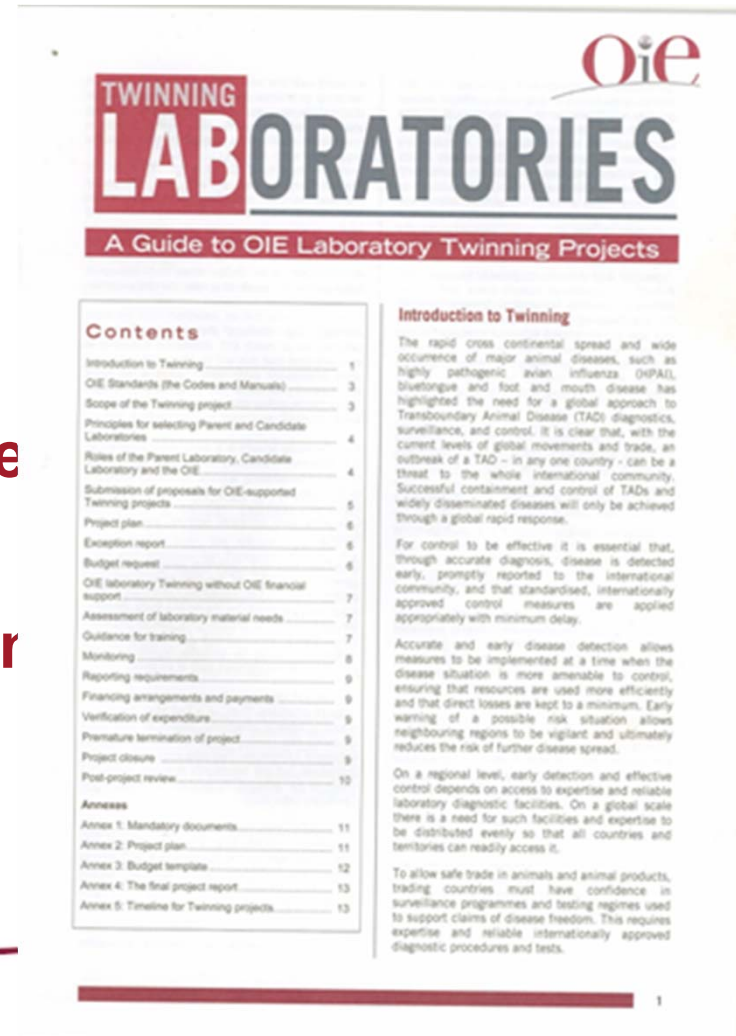
- Concept launched at 1st OIE RL/CC Conference in Florianopolis in Dec '06
- OIE Resolution adopted in May '07
- Twinning manual published in Dec '07
- Inaugural project started in Feb '08
- First project completed Sept '09



Guidelines

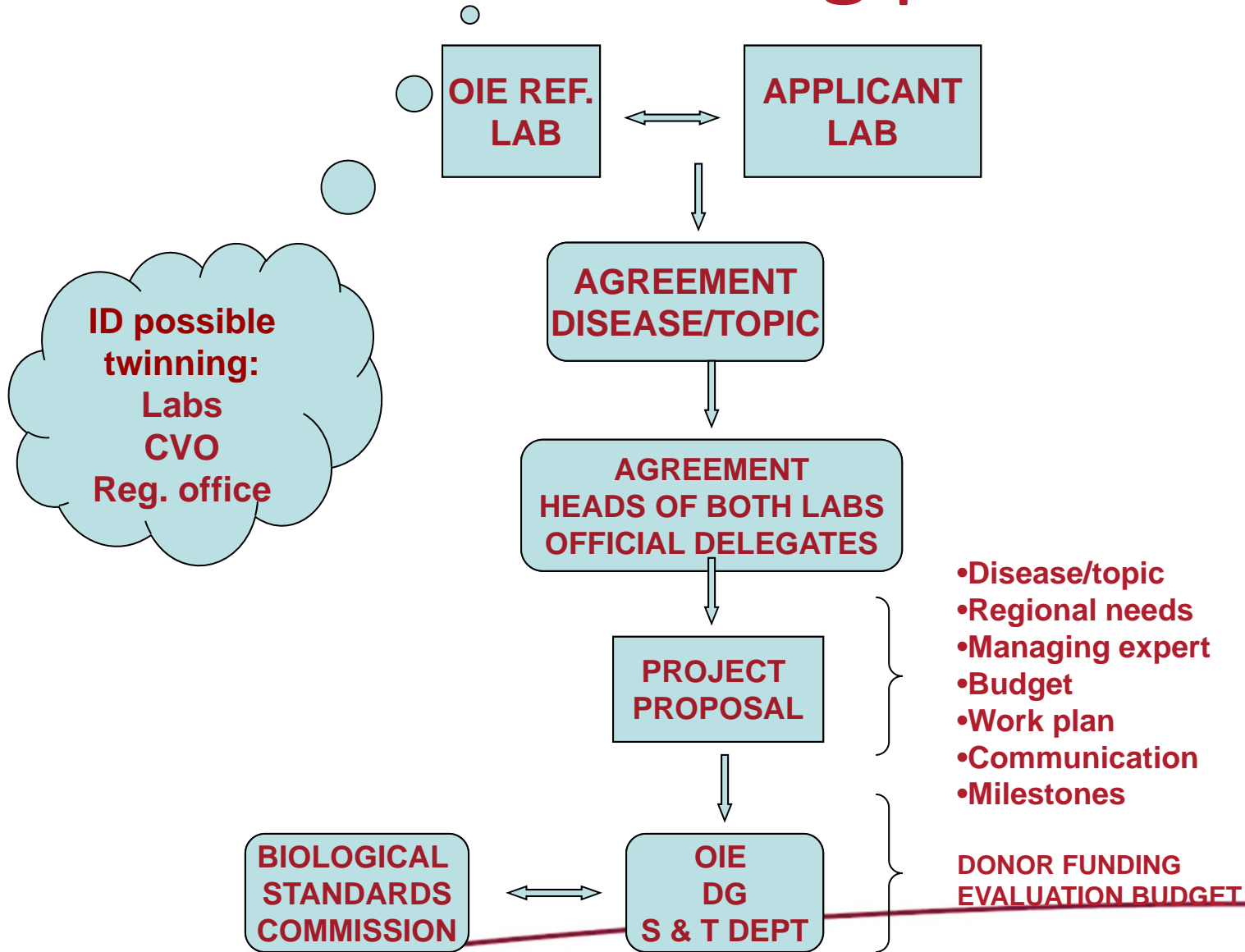
http://www.oie.int/fileadmin/Home/eng/Support_to_OIE_Members/docs/pdf/A_Twinning_Guide_2010.pdf

- **Background**
- **How to apply/proposal**
- **Basic project management**
- **Project plan (objectives, stage**
- **Regular monitoring**
- **Facilitates efficient applicator**
- **Formalises agreement**





The OIE “twinning process”

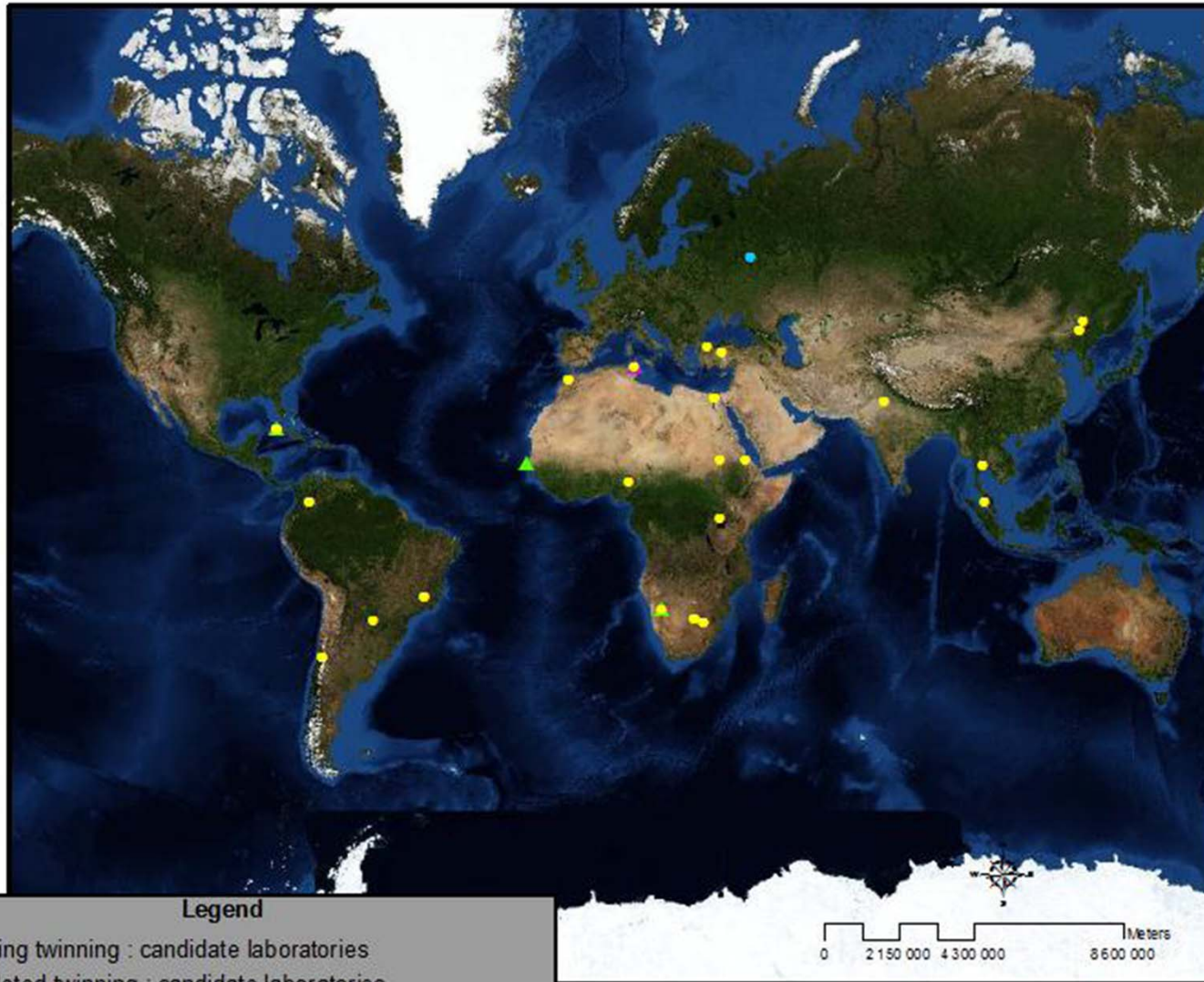


ID possible twinning:
Labs
CVO
Reg. office



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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



Current Status of Twinning Projects (5/2011)

Twinning Projects	Global	Africa Region
Completed	3	1
Approved and underway	29	12
Approved and due to commence	6	3
Total	38	16

http://www.oie.int/fileadmin/Home/eng/Support_to_OIE_Members/pdf/projects_completed_underway.pdf

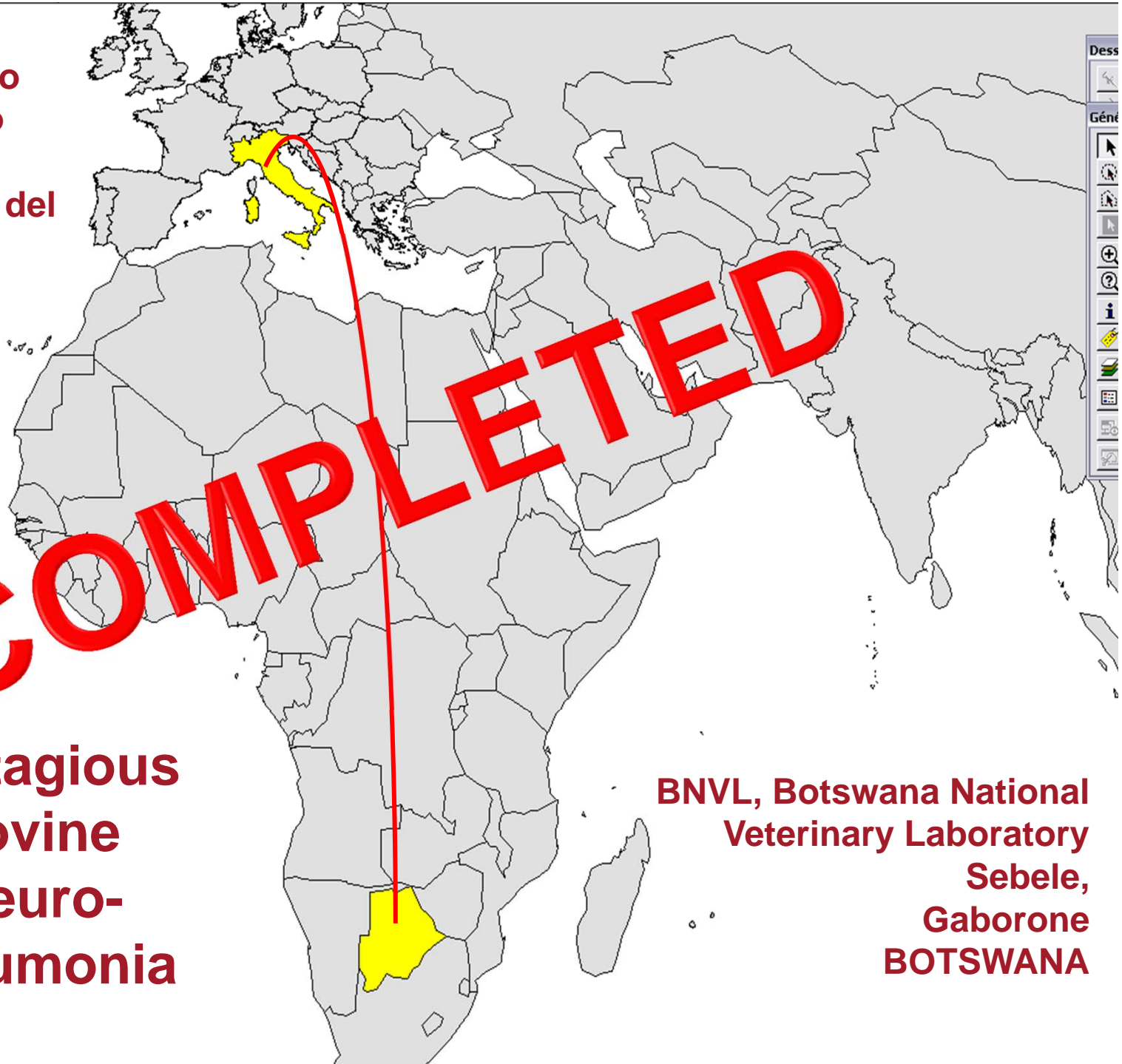


**ISME, Istituto
Zooprofilattico
Sperimentale
dell'Abruzzo e del
Molise 'G.
Caporale'
Teramo
ITALY**

COMPLETED

**Contagious
Bovine
Pleuro-
Pneumonia**

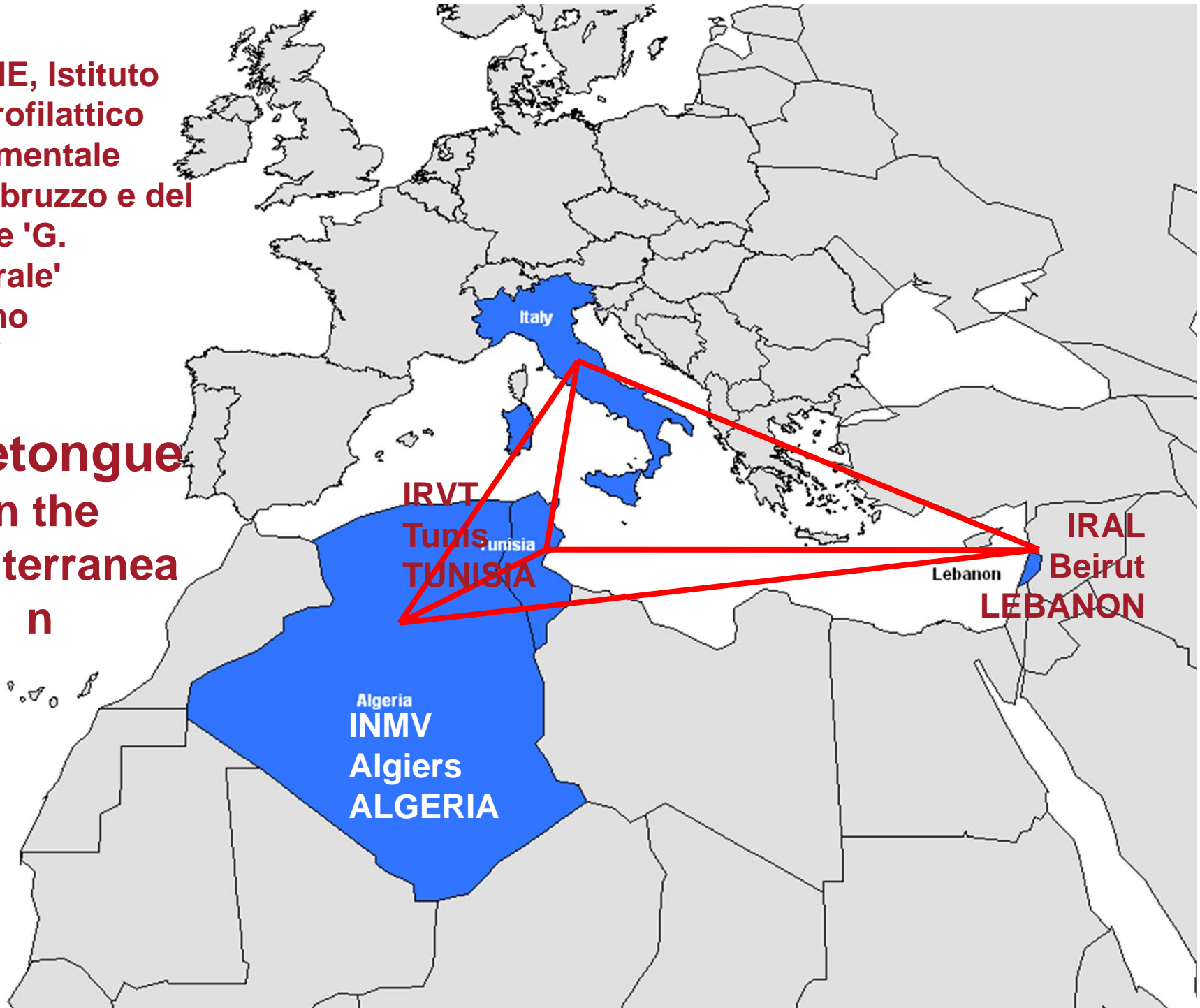
**BNVL, Botswana National
Veterinary Laboratory
Sebele,
Gaborone
BOTSWANA**

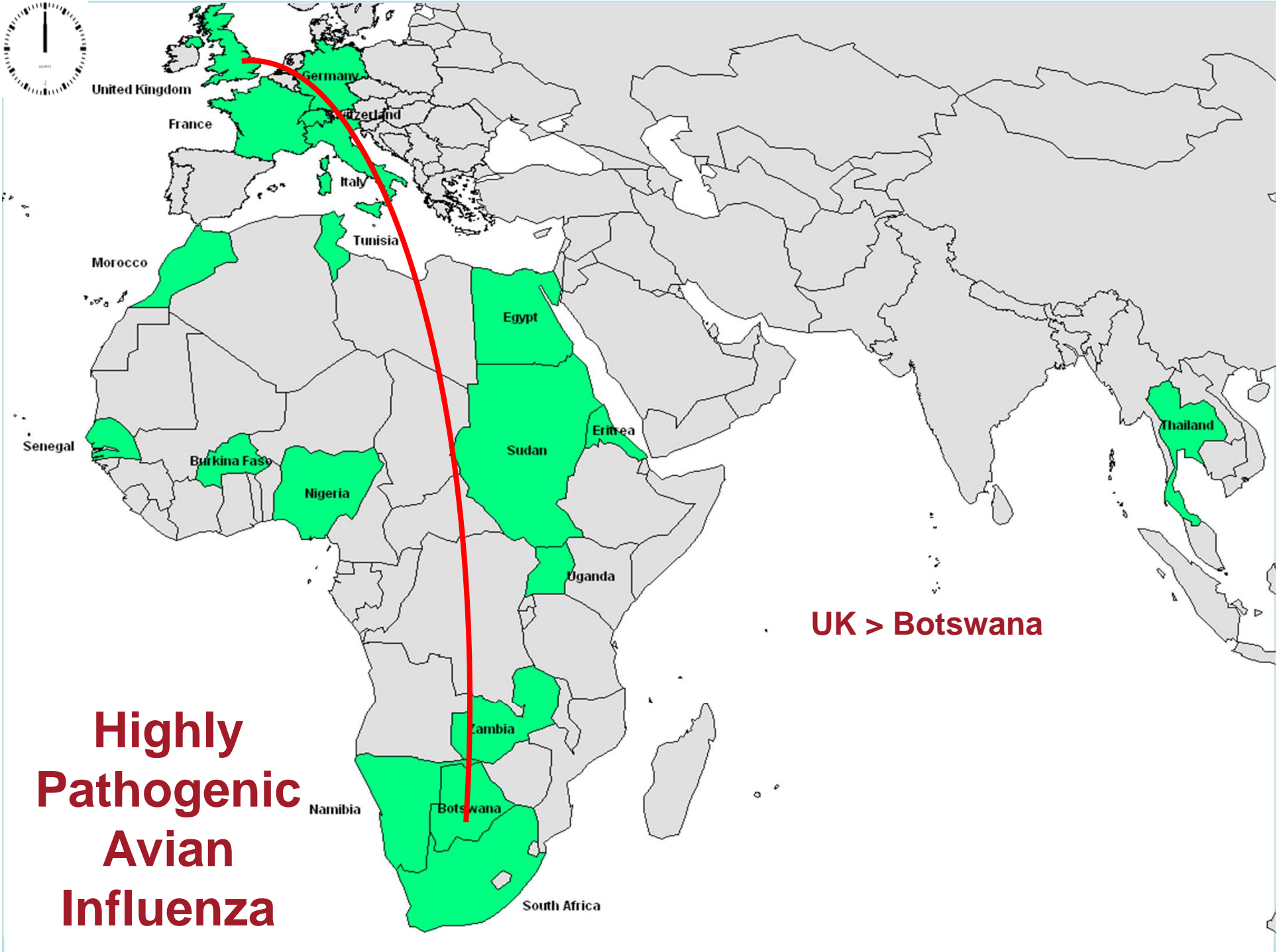




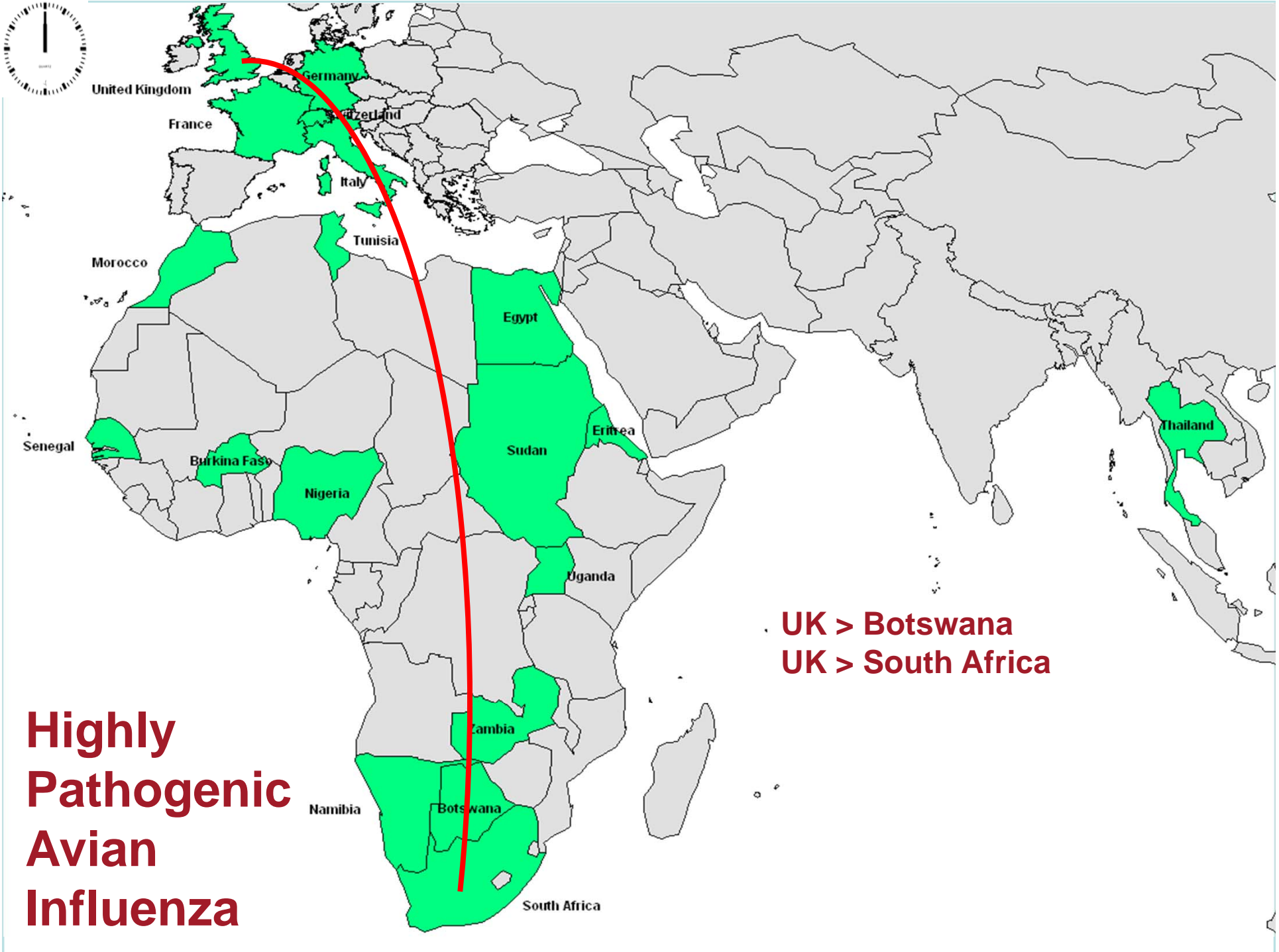
**ISME, Istituto
Zooprofilattico
Sperimentale
dell'Abruzzo e del
Molise 'G.
Caporale'
Teramo
ITALY**

Bluetongue in the Mediterranean

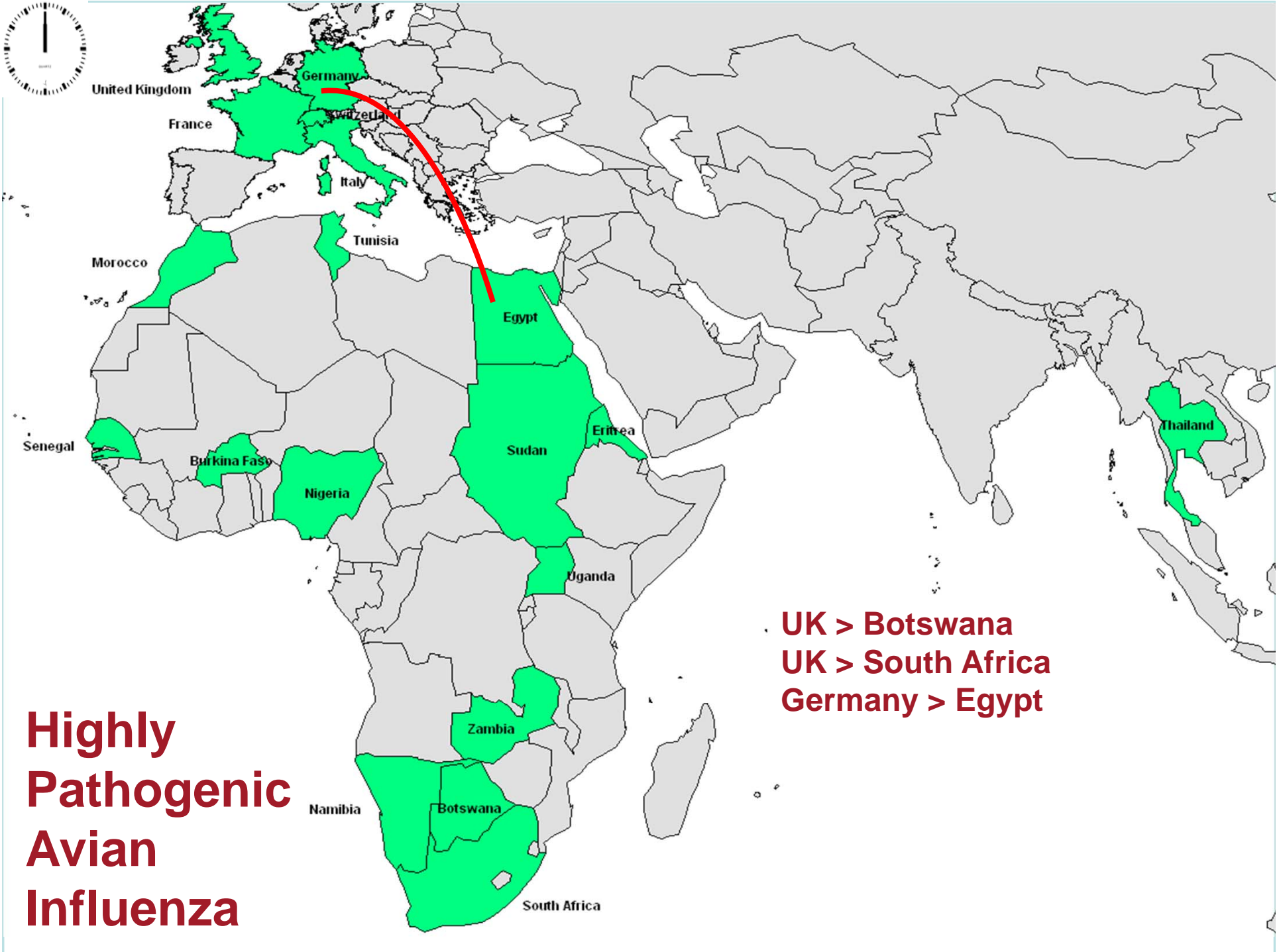




**Highly
Pathogenic
Avian
Influenza**

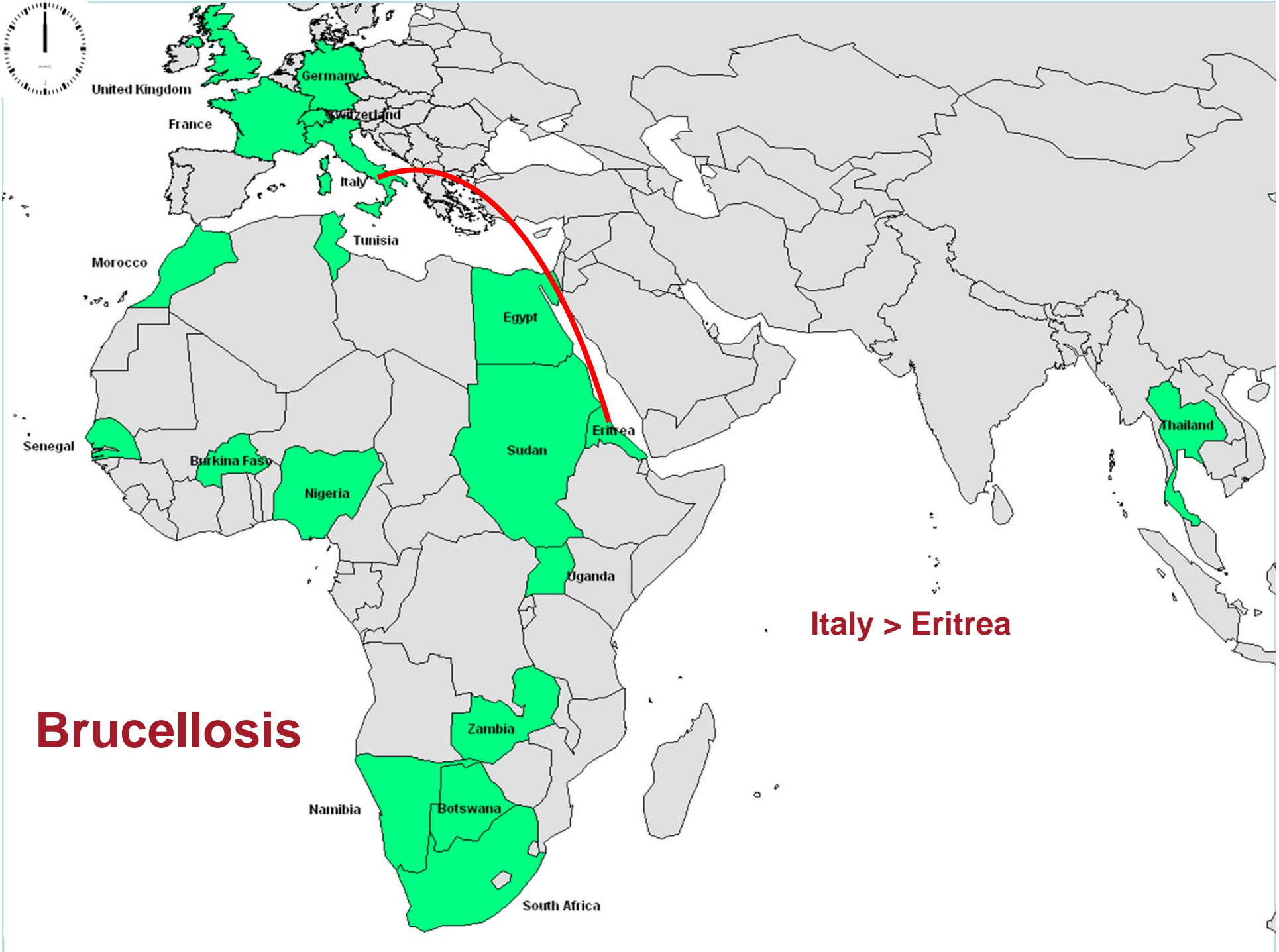


**Highly
Pathogenic
Avian
Influenza**

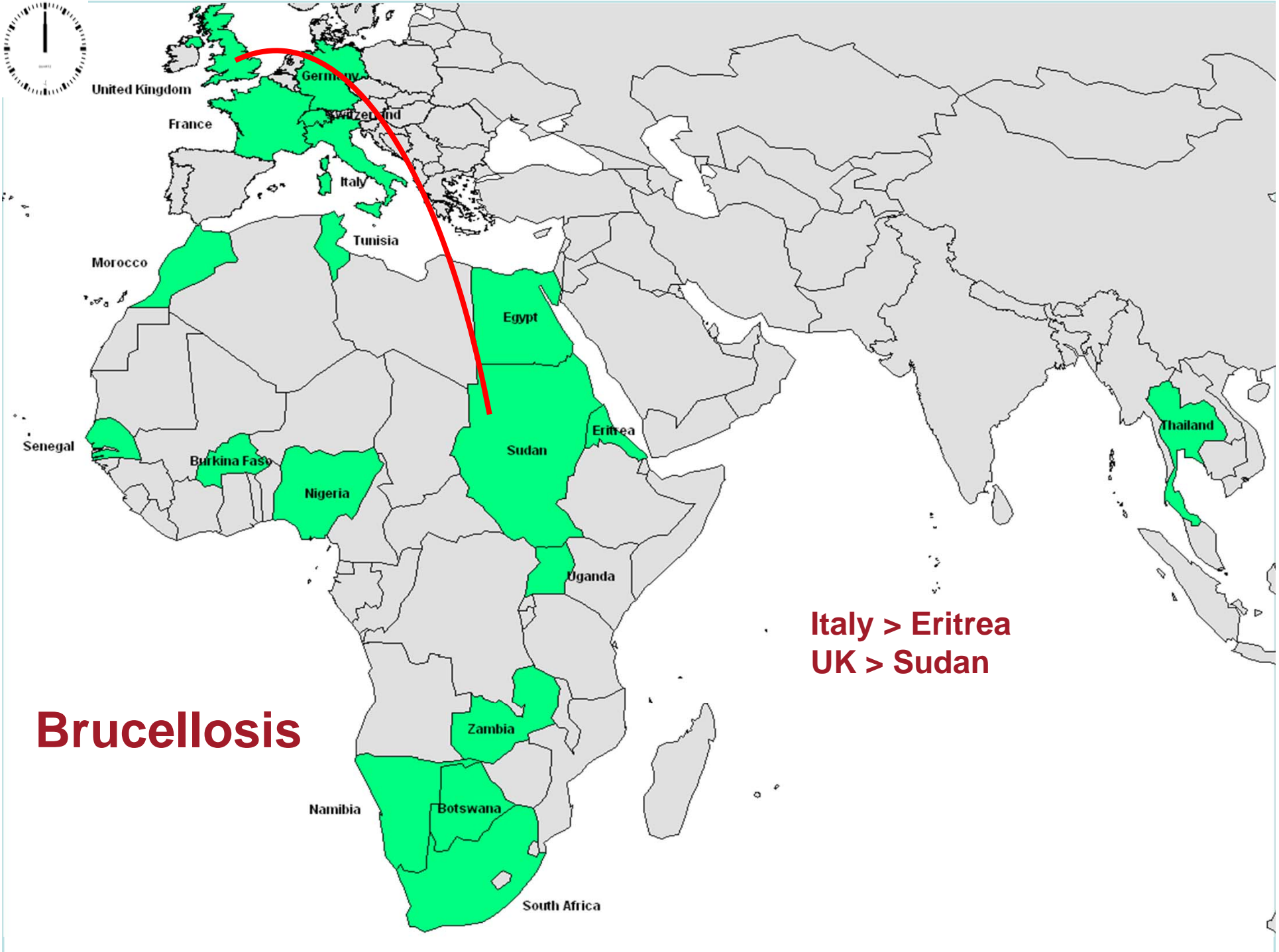


**Highly
Pathogenic
Avian
Influenza**

**UK > Botswana
UK > South Africa
Germany > Egypt**

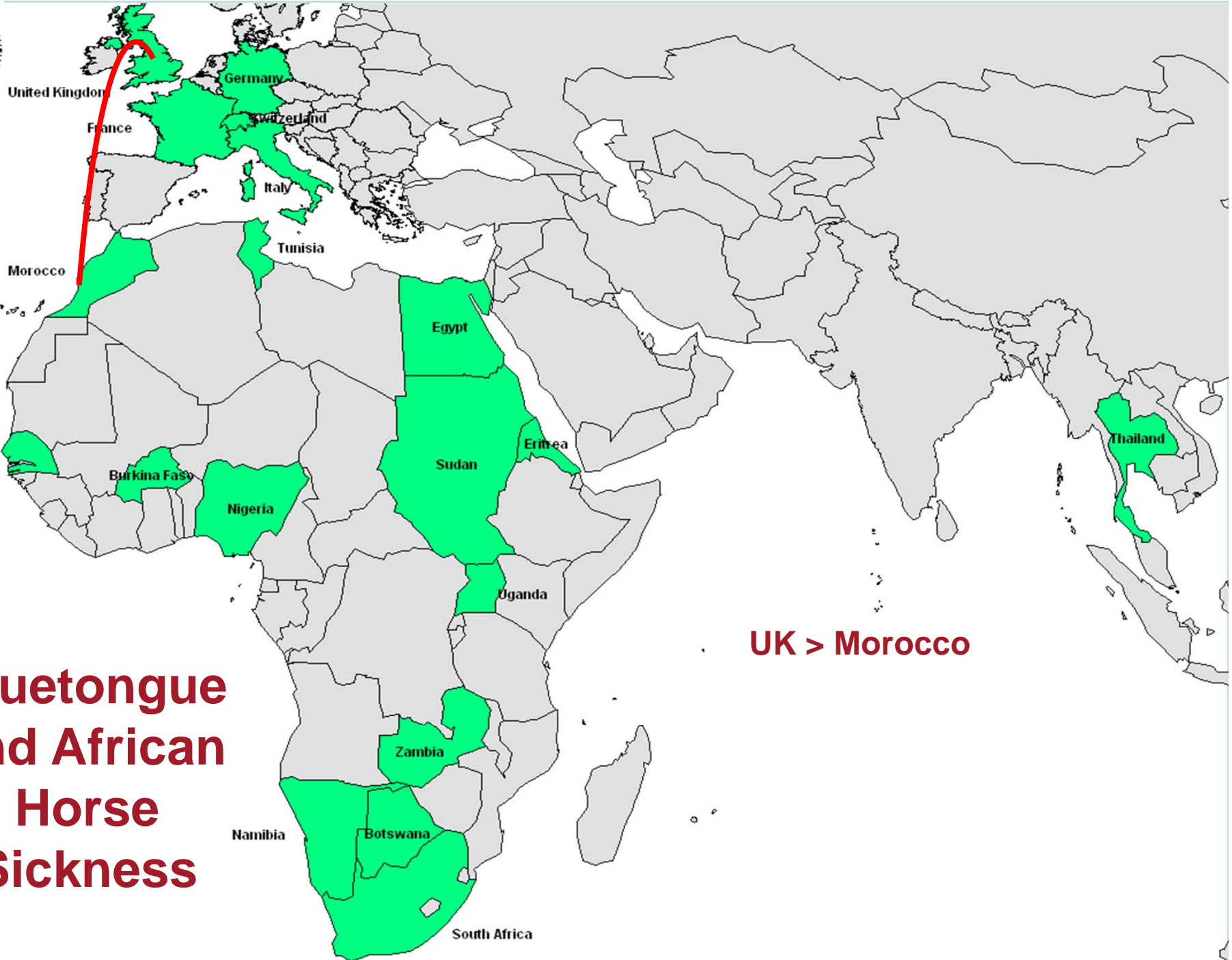


Brucellosis



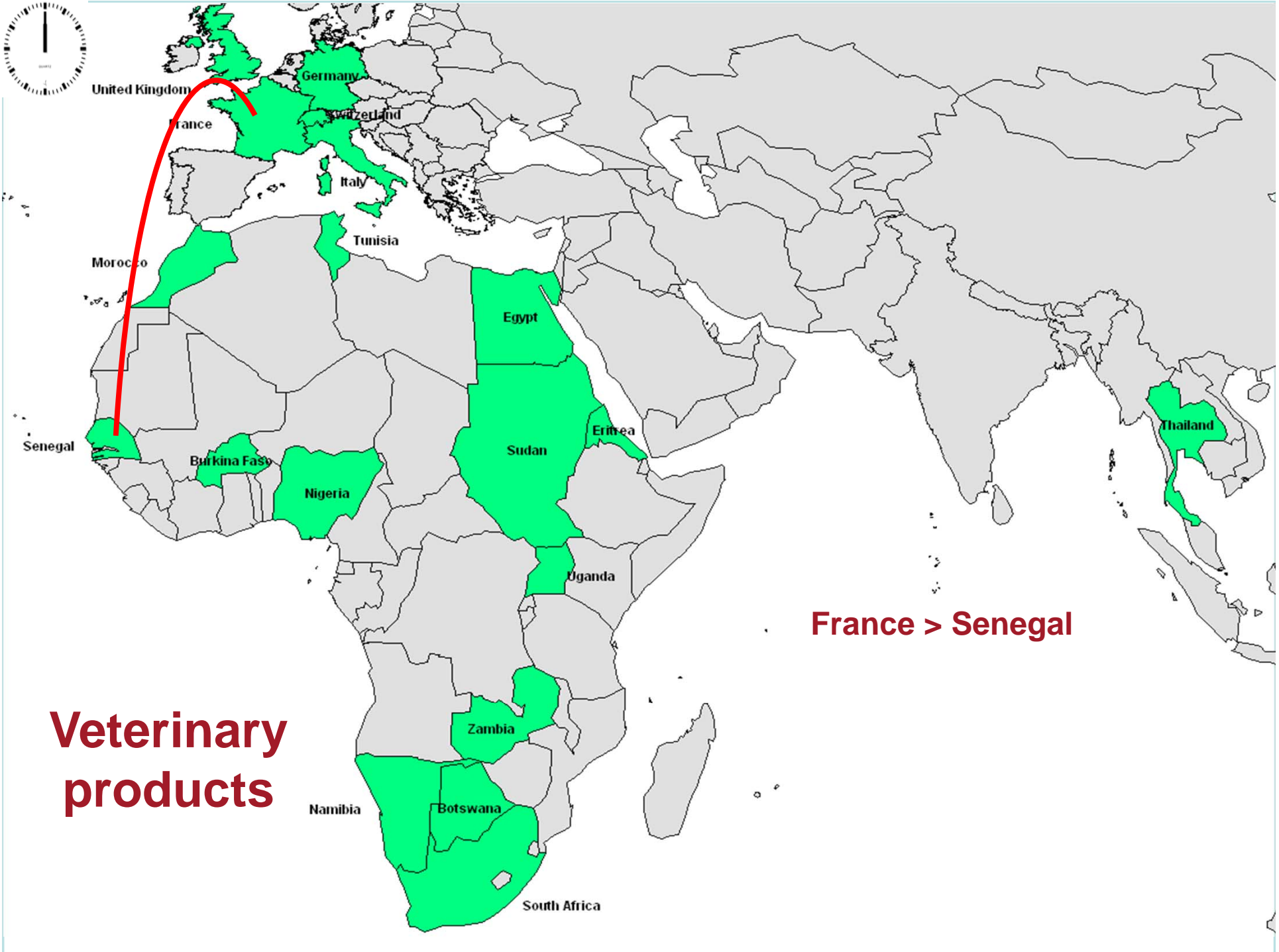
Brucellosis

Italy > Eritrea
UK > Sudan



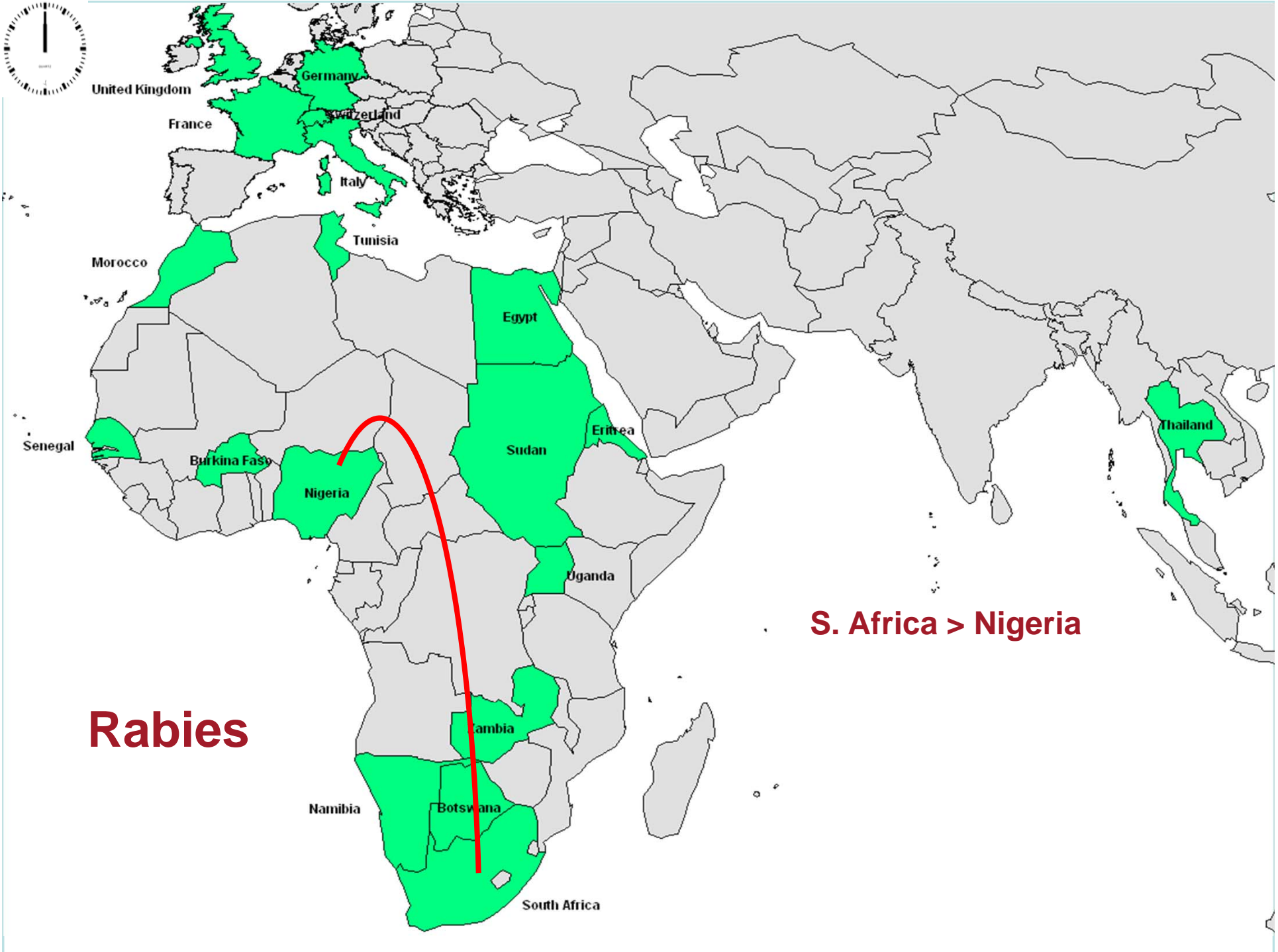
Bluetongue and African Horse Sickness

UK > Morocco



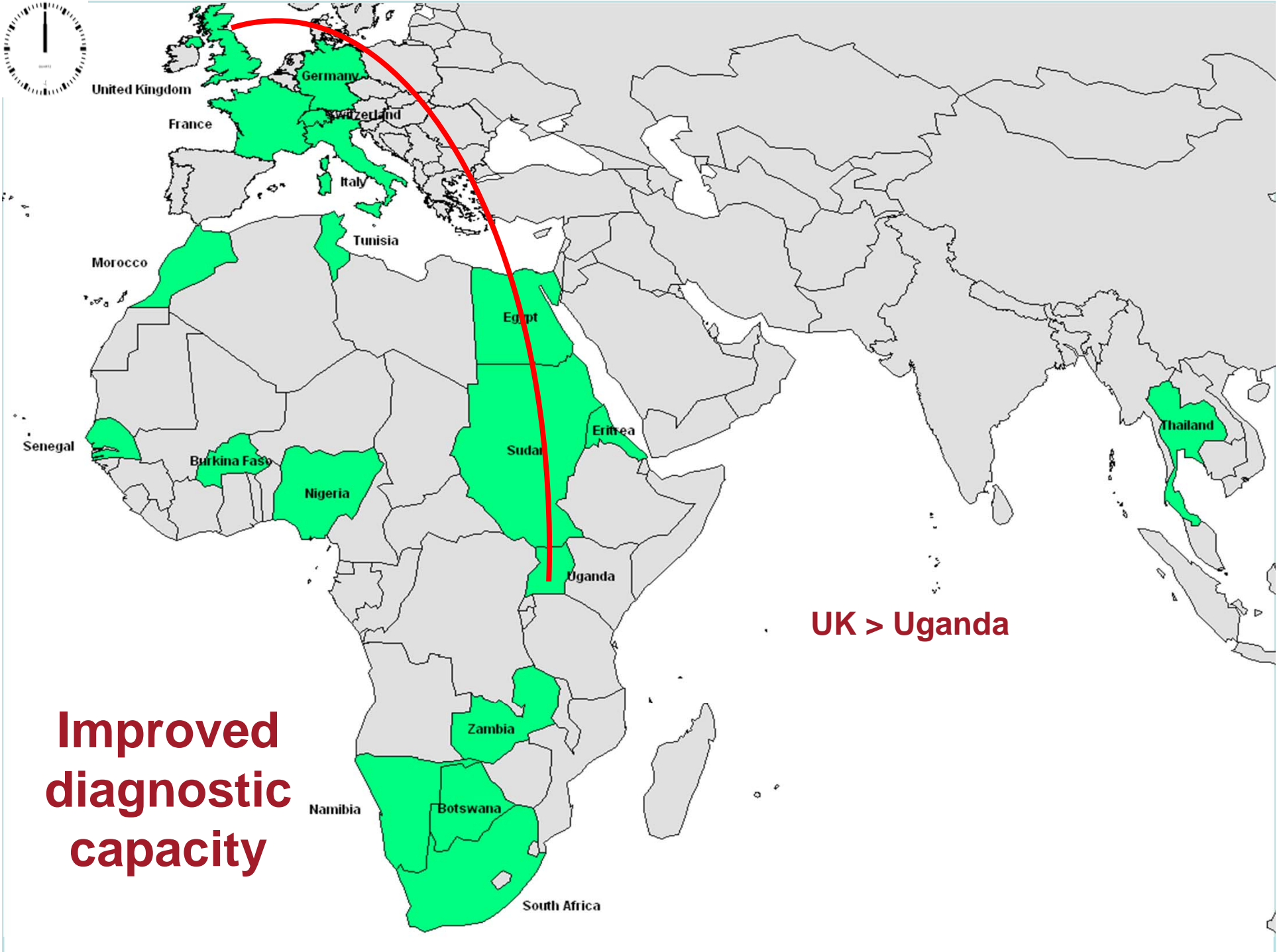
Veterinary products

France > Senegal



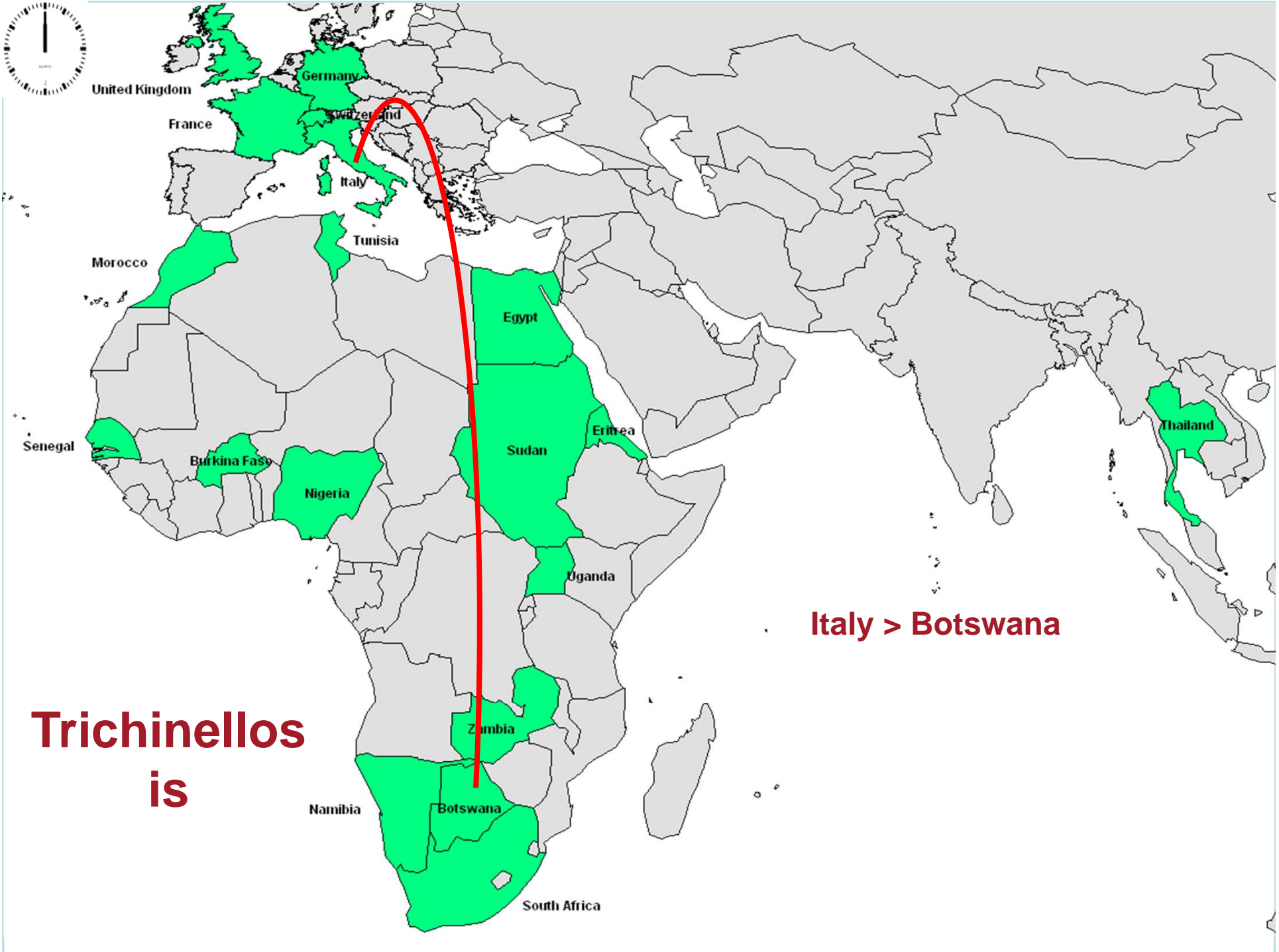
Rabies

S. Africa > Nigeria



UK > Uganda

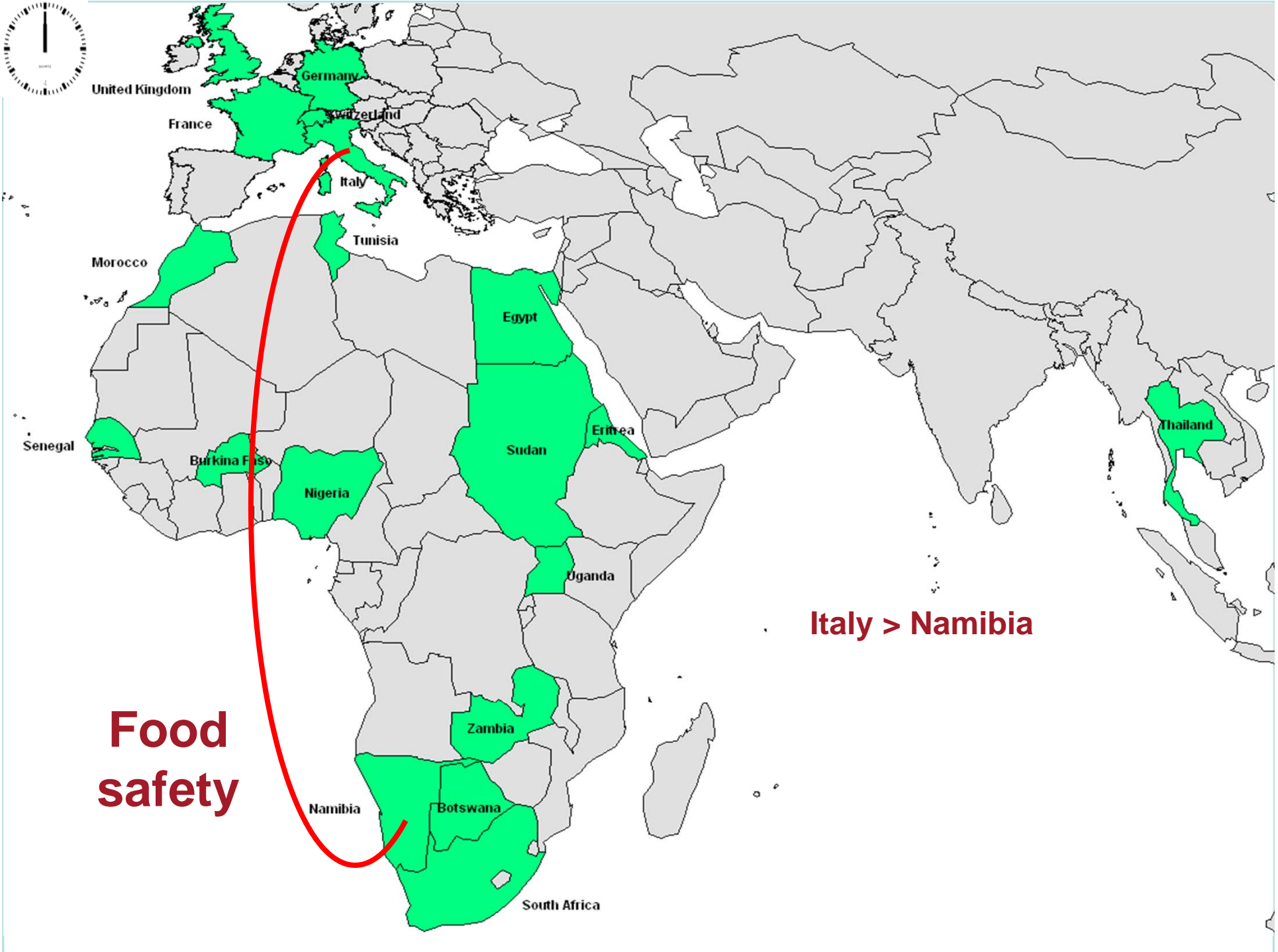
Improved diagnostic capacity

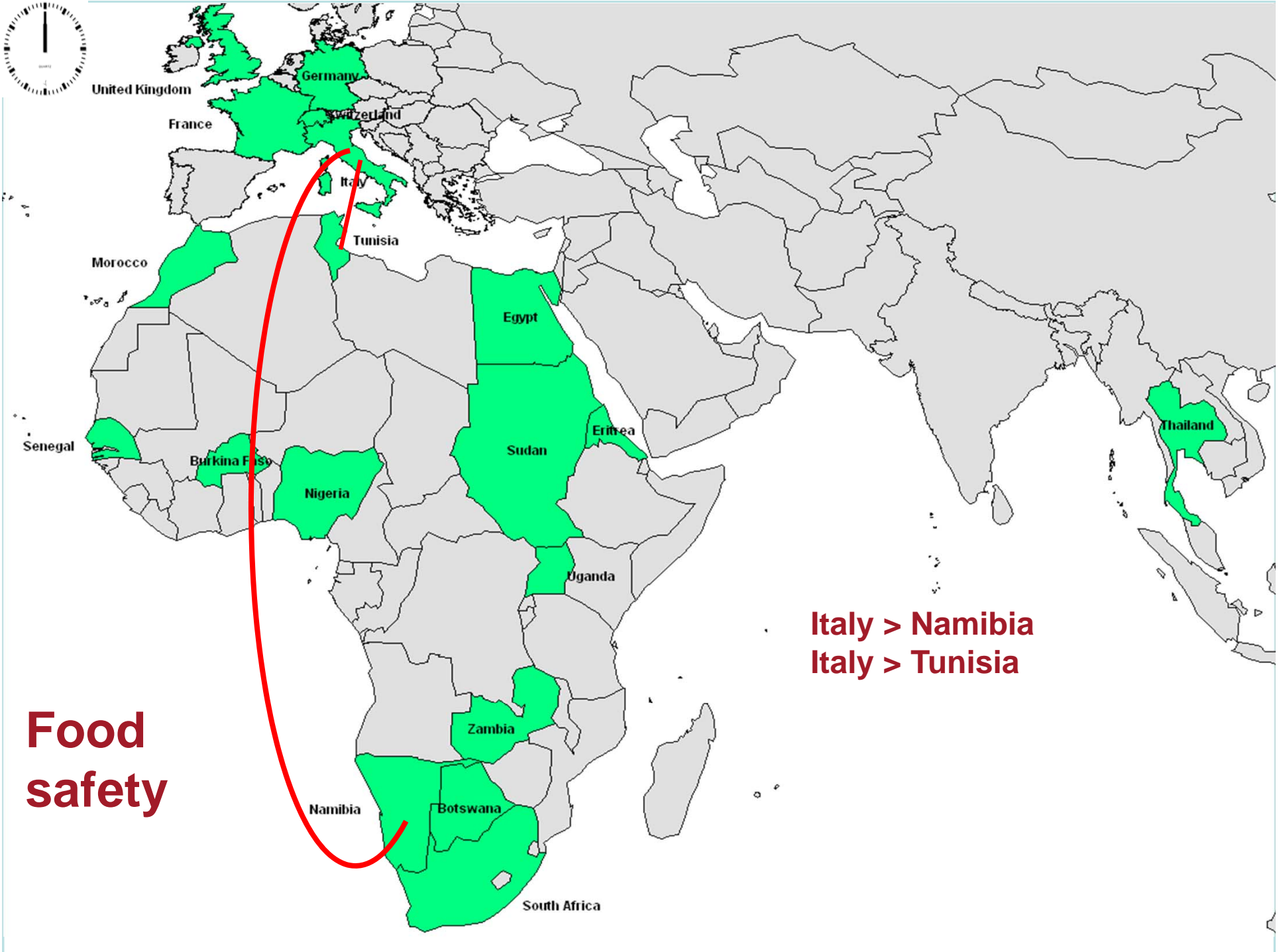


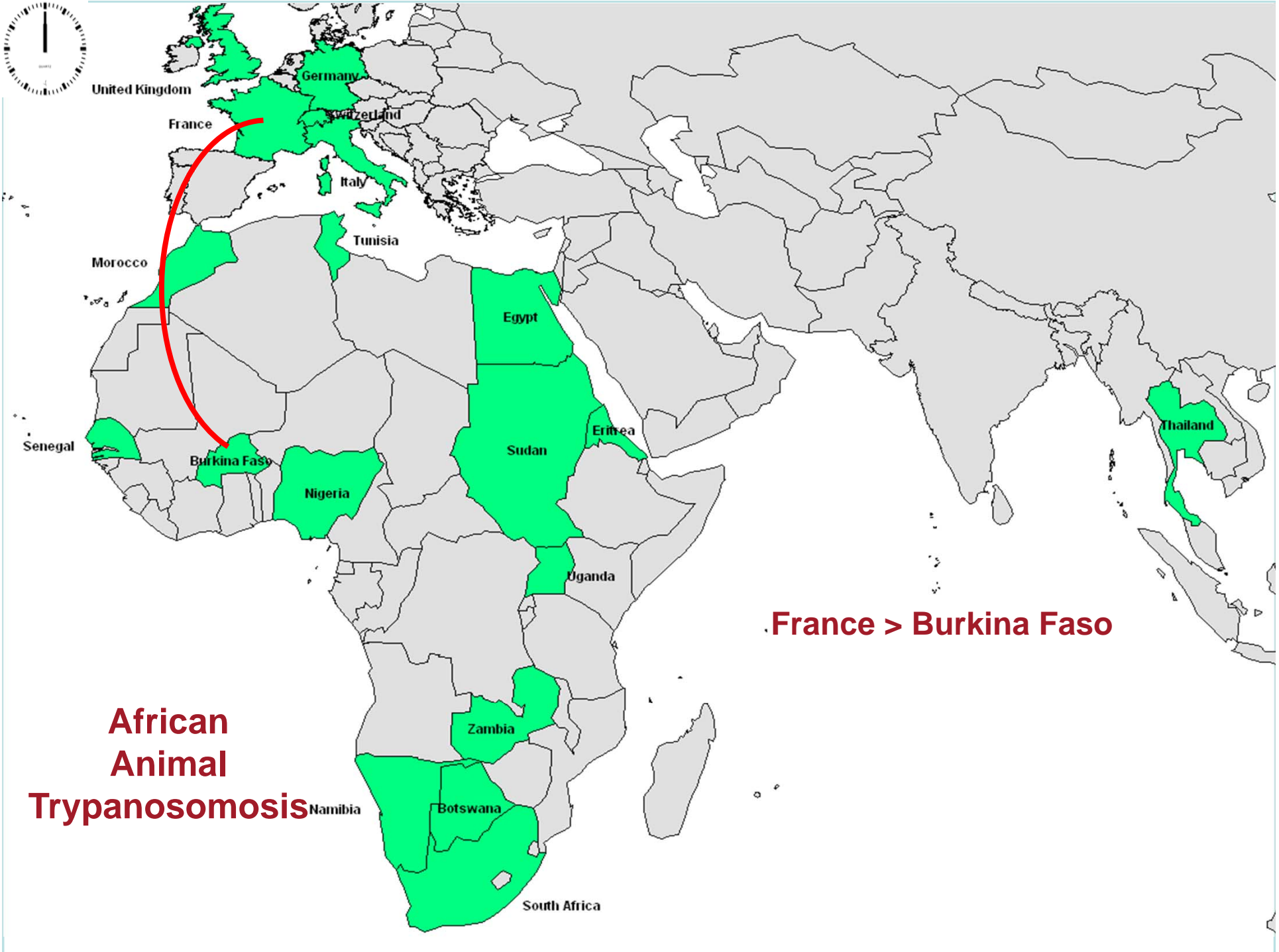
Trichinellosis
is

Italy > Botswana



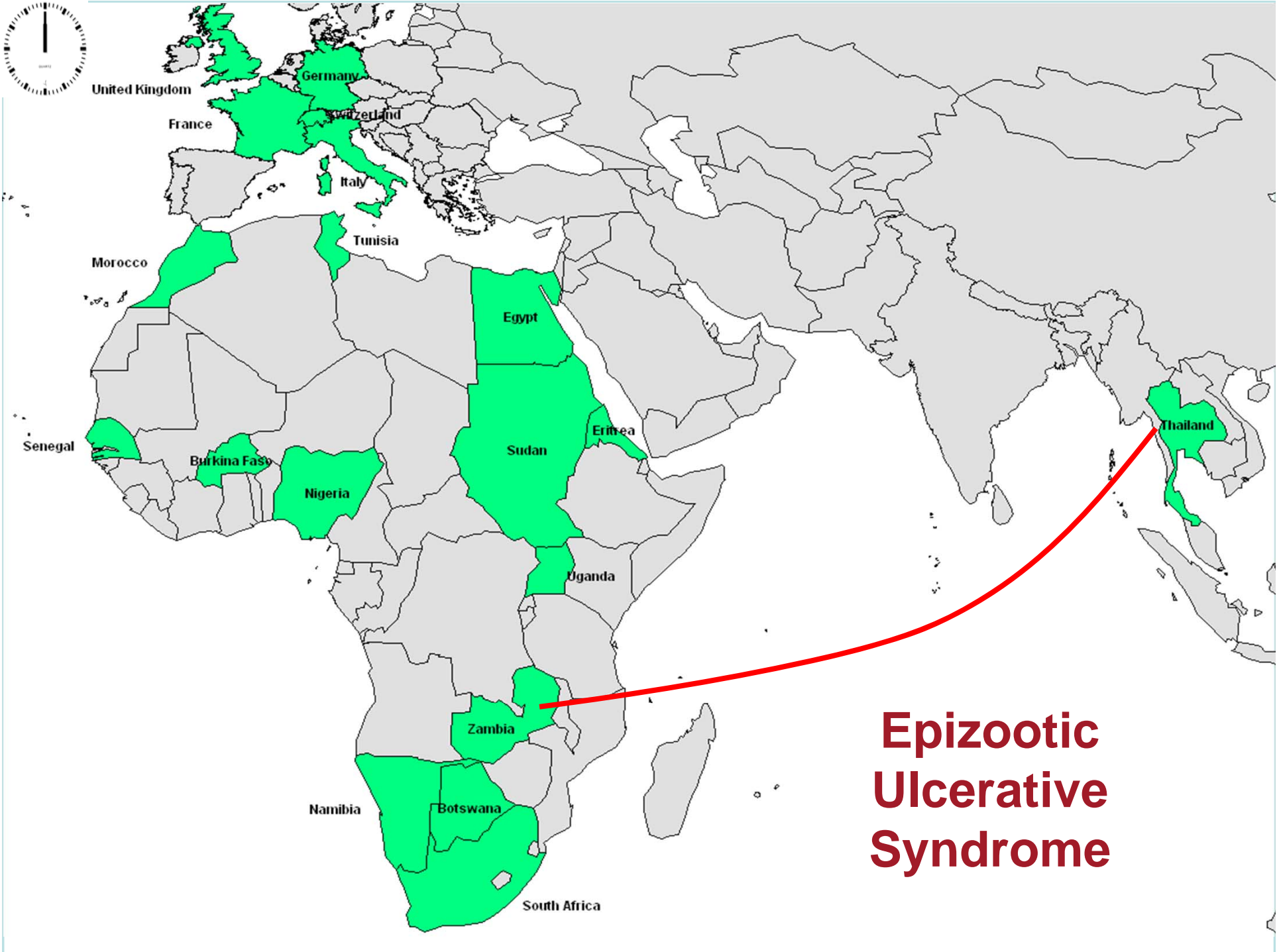






**African
Animal
Trypanosomosis**

France > Burkina Faso



**Epizootic
Ulcerative
Syndrome**



Conclusion

- Diseases of honey bees are increasingly becoming important and veterinary services have to develop institutional capacity to conduct surveillance, early disease identification and rapid response.
- Twinning candidate institution(s) within southern Africa should be identified and a programme initiated with the parent lab to develop this capacity which is under demand



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Thank you for your attention

World Organisation
for Animal Health

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de la santé animale

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de Sanidad Animal

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