







FAO AND OIE INTERNATIONAL CONFERENCE FOR THE

CONTROL AND ERADICATION OF PESTE DES PETITS RUMINANTS (PPR)

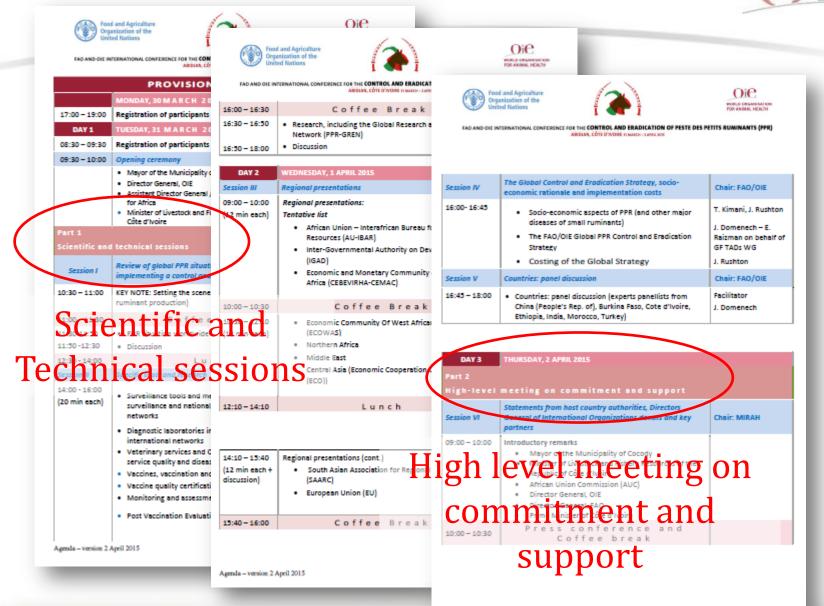
ABIDJAN, CÔTE D'IVOIRE
31 MARCH – 2 APRIL 2015

Objective of the conference

The conference objectives are to present and adopt the global control and eradication strategy prepared by the GF-TADs Working Group on PPR.

Expected outcomes

Commitment of member countries, donors and other to support the FAO-OIE Global PPR Control and Eradication Strategy and its implementation at country, regional and global levels.



page 3

300 participants (70 countries along with representatives from donor agencies, the scientific community, the private sector and civil society)









FAO AND DIE INTERNATIONAL CONFERENCE FOR THE CONTROL AND ERADICATION OF PESTE DES PETITS RUMINANTS (PPR
ARIDAR, CÔTE D'IVOIRE II MARDIN 2 APRE 2015

FAO and OIE International Conference for the Control and Eradication of Peete des Petits Ruminants (PPR) Abidian 31 March – 2 April 2015

Recommendations

Considering that

- Livestock is an important component in mutrition and food security, income generation, agriculture production and soul fertilization, livelihoods of pastoralists and small holders and in the alleviation of hunger and poverty. In subsistence livestock production systems and their associated value chains, millions of people, especially women and their families, depend on small ruminants to generate nutrition for their families and revenue for their daily life;
- Impact of infectious diseases of small ruminants can severely affect and disrupt community livelihoods and regional and international trade in live animals and their products causing significant financial damage. In developing countries these diseases undermine access to quality nutritional products, food security and economic development, at the level of village smallholders and the entire production chain;
- Since PPR was first identified in Côte d'Ivoire in 1942, it has spread to around 70 countries in Africa, the Near and Middle East and Asia that are home to over 80 percent of the world's sheep and goat and to more than 330 million of the world's poorest people who depend on them for their livelihoods. Economic losses caused by PPR and its ever increasing threat of spreading to non-infected areas, further cripple already vulnerable livelihoods as well as national and regional livestock production opportunities:
- Globalization of trade with rapid and long distance movements of animals and animal products increases the risk of major pathogens spreading from one country or region to another;
- Controlling transboundary animal diseases (TADs), such as PPR, at their source is a shared interest between infected and uninfected countries and should be considered as Global Public Good:
- In response to a resolution voted by the World Assembly of Delegates of the OIE and recommendations of FAO's Committee on Agriculture (COAG) and the Council of FAO, the GF-TADs Working Group on PPR has developed a PPR Global Control and Eradication Strategy, that has been presented at the FAO and OIE International Conference for the Control and Eradication of Peste des Petits Ruminants held in Abidjan (Côte d'Ivoire), from 31 March to 2 April 2015:

- Part II
 Recommendations to countries

Part I → 'Declaration'

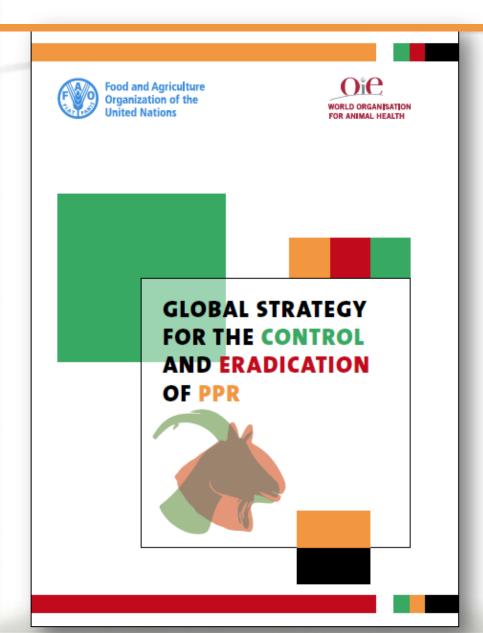
The Conference and in particular the Honourable Ministers, donors and national and international high level participants

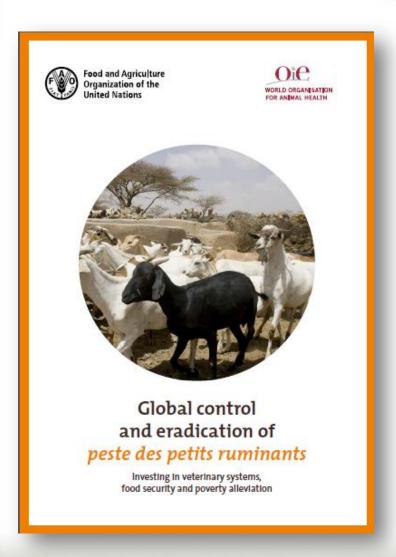
Declare that the control and eradication of PPR worldwide is officially and solemnly launched during the 'Abidjan Conference' with the vision of a world free of PPR by 2030. PPR is expected to be the second animal disease eradicated from the globe after the success of rinderpest eradication in 2011

Declare that, as a consequence, they officially endorse the FAO-OIE Global Control and Eradication Strategy (GCES) with its three components and encourage all national competent authorities, the international community, the veterinary profession and all stakeholders as a whole to commit to its implementation and thereby take the necessary political, technical and financial means to ensure that this Vision is accomplished in a timely manner

Part III → Recommendations to OIE and FAO (9)

- 14. The OIE and FAO develop a full-fledged GCEP aligned with the GCES, learning from the Global Rinderpest Eradication Programme (GREP), Pan African Rinderpest Campaign (PARC) and Pan African Control of Epizootics (PACE) programme experience, these last under AU-IBAR leadership and using north-south and south-south cooperation and OIE and FAO multi-lateral trust funds to implement the Global Strategy
- 13. The FAO and OIE put in place the proper GF-TADs governance for the implementation of the GCES and the subsequent Global Control and Eradication Programme (GCEP), including a global joint FAO-OIE PPR Global Secretariat and joint fund raising agreements as well as strong collaborations with regional and sub-regional organizations





Rationale

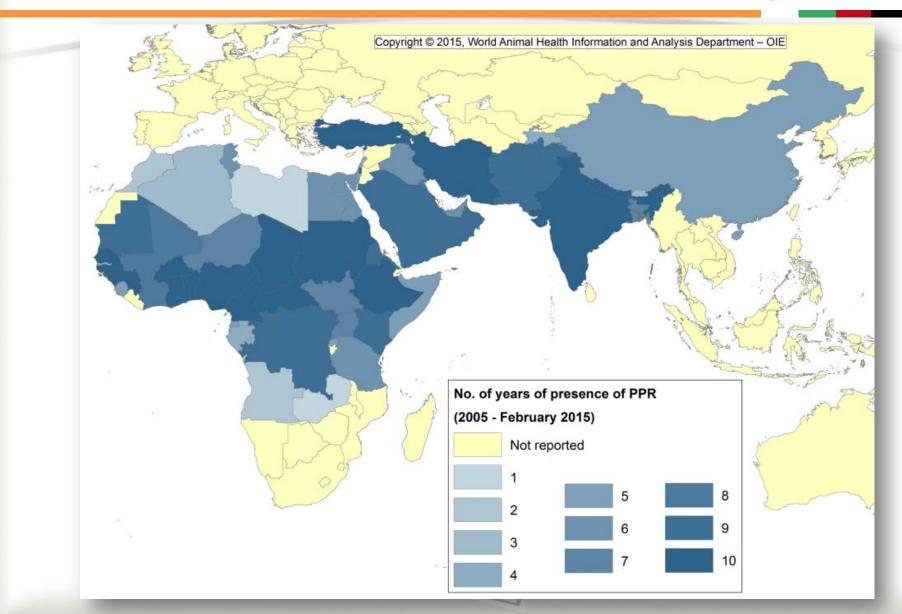


Why invest in the control and eradication of peste des petits ruminants?

- More than 1.7 billion sheep and goats over 80% of the global small ruminants population – are in Africa and Asia
- PPR is a highly contagious viral animal disease affecting small ruminants. Once introduced, the virus can infect up to 90% of a flock and the disease can kill anywhere from 30 to 70% of infected animals.
- PPR causes an estimated USD 1.45 billion to USD 2.1 billion in economic losses each year
- PPR has dramatically expanded in the last 15 years reaching previously non-infected regions
- From 2000 to 2030 demand for meat and milk from small ruminants in Africa and Asia will rise between 137% and 177%

Rationale



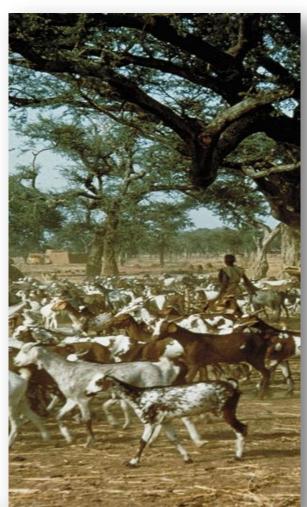


Rationale



PPR is a good candidate disease for eradication

- One serotype
- No carrier state after infection
- No reservoir outside domestic small ruminants
- Vaccine with long live immunity after a single dose, cheap to produce
- thermo-stable vaccine to come
- Diagnostic tests available
- Many of the tools required for progressive control and monitoring already available



Overall and specific objectives



The overall objective is a small ruminant sector contributing to global food security and nutrition, human health and economic growth, particularly in developing countries, thereby alleviating poverty, increasing income generation and improving the livelihoods of smallholder farmers and general human wellbeing.

 The purpose is to establish the capacity of stakeholders and VS to control and eradicate PPR and control other small ruminant diseases.

Overall and specific objectives



The specific objectives of the Global Strategy are:

- The eradication of PPR by 2030, which requires:
 - In infected countries, achieving a progressive reduction of the incidence and spread, leading to final eradication of PPR
 - In non-infected countries, maintaining the officially recognised PPR free status

While at the same time:

- Reinforcing Veterinary Services
- Improving animal health globally by reducing the impact of other major infectious diseases



Main principles



- National, regional and global levels
- Combination of vertical (disease specific) and transversal / horizontal (VS strengthening) approaches
 - Component 1 PPR
 - Component 2 Veterinary Services
 - Component 3 Combined disease control (mainly small ruminant diseases)

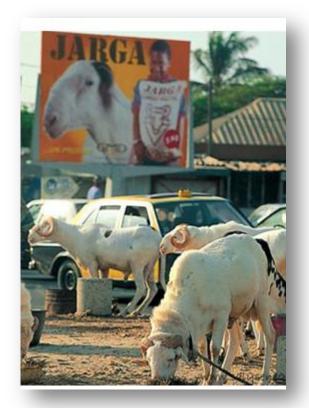
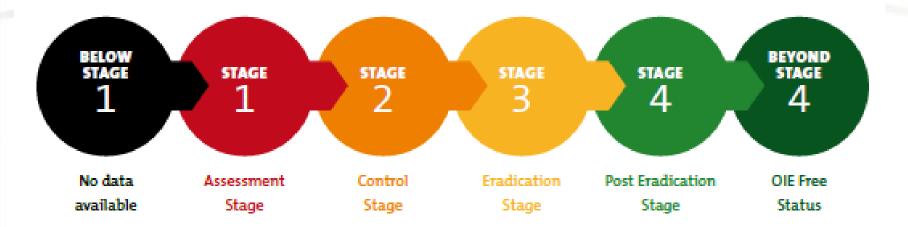


Photo credit: CIRAD

The Progressive Step-wise Approach for the prevention and control of PPR





From

Stage 1 – where the epidemiological situation is being assessed

To

Stage 4 – where there is no virus circulation either at zonal or national level (country ready to apply for the OIE official status of PPR freedom)



National level

Focuses according to the stage



	STAGE 1	STAGE 2	STAGE 3	STAGE 4
	Assessment	Control Stage	Eradication	Post-eradication
	Stage		Stage	Stage
FOCUS	To gain a better	To control both PPR clinical	To achieve PPR eradication	To build evidence that there is no
	understanding on the presence of PPR	disease and infection in a specific zone or production system	throughout the national territory	clinical disease nor virus circulation

 $\begin{bmatrix} 1-3 \text{ years} \end{bmatrix}$ $\begin{bmatrix} 2-3 \text{ years} \end{bmatrix}$ $\begin{bmatrix} 2 \text{ to 5 years} \end{bmatrix}$ $\begin{bmatrix} 2 \text{ to 3 years} \end{bmatrix}$

Characterisation of the stages



Aspects addressed for each PPR stage

Epidemiological situation **Enabling** Focus of the environment Stage (objective and Prevention and expected & control of results specific to other SR this stage) diseases PPR Stage **Specific** Tools objectives (focused use in the specific context of linked to the 5 the stage) technical elements **PPR Outcomes** and Activities

 Five technical elements characterise each stage



Legal framework



Surveillance



Diagnostic



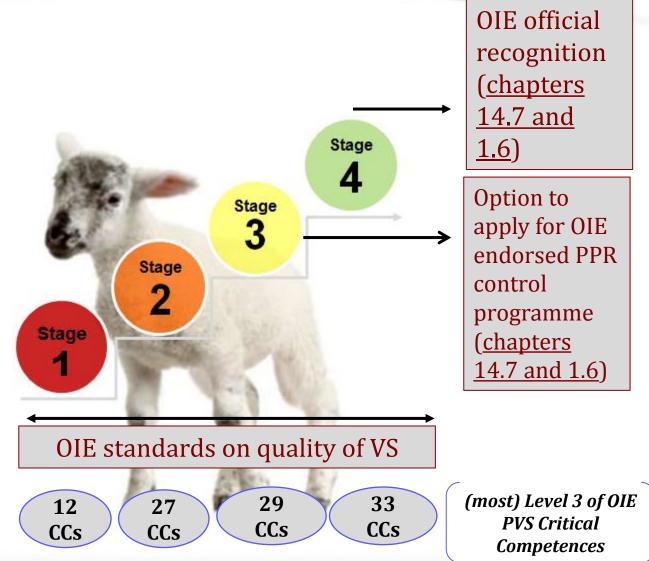
Prevention and Control



Stakeholder involvement

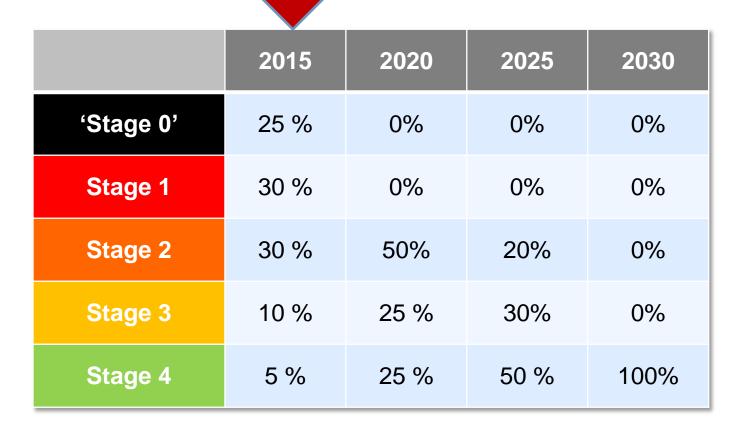
Linking the PPR step-wise approach to the quality of VS

Capacity of VS considered as the 'Enabling Environment' (compliance with OIE Standards as well)



Expected results





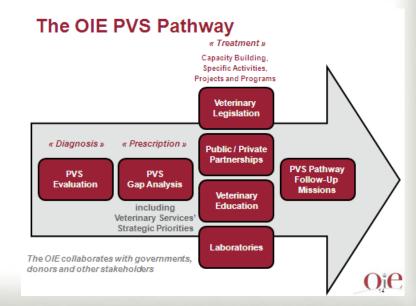
Expected progression of PPR infected countries in % overtime

Tools to be used



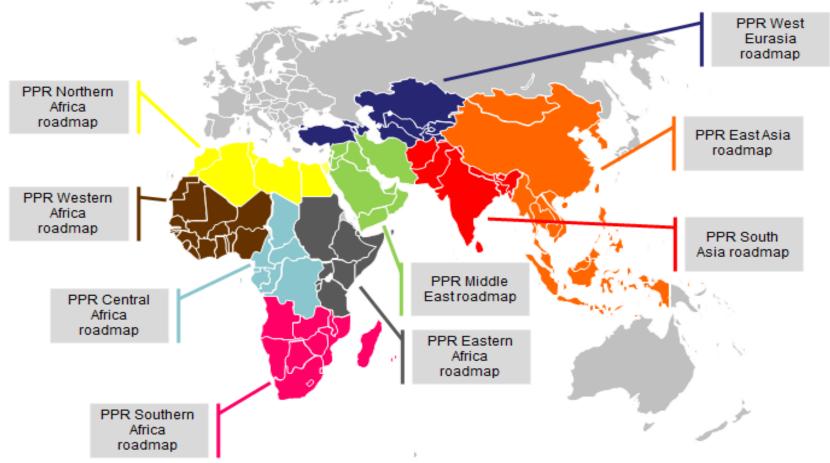
- Generic tools:
 - OIE PVS Pathway, OIE standards, Diagnostics laboratories, Epidemiology Centers/teams, WAHIS, GLEWS, and their Regional and International Networks...
- Specific PPR tools: PMAT, PVE, Vaccines, regional vaccine banks, OIE PPR standards, diagnostics assays, PPR-GREN





Evaluation and country PPR stage ranking

Regional PPR roadmaps - PMAT - regional Advisory Groups



Costing



Estimated **maximum** cost for the 15-year global PPR eradication period (Comp 1) = **USD 7.6 and 9.1 billion**, with the first five years costing between **USD 2.5 and USD 3.1** billion.

An investment of USD 7.6 billion over 15 years will eliminate the negative socio-economic impact of PPR permanently, and will result in financial savings of USD 1.8 billion per year

The investment will be recovered within the first five years after eradicating the disease

More...









FAO AND DIE INTERNATIONAL CONFERENCE FOR THE CONTROL AND ERADICATION OF PESTE DES PETITS RUMINANTS (PPR)
ABIDJAN, CÔTE D'IVOIRE 31 MARCH - 2 APRIL 2015

[Français]

- > BACKGROUND
- > OBJECTIVE
- > PROGRAMME
- > DOCUMEN
- > MEDIA
- > RECOMMENDATIONS
- > PRESENTATIONS



Documents of the conference

Advocacy document

Global Strategy for the control and eradication of PPR (document without annexes)

Global Strategy for the control and eradication of PPR (document with annexes)

Book of abstracts





"We have a plan, the tools, the science, and the partners. Eradication of PPR is not only within reach, but also in our hands. With OIE, we have agreed to establish a joint secretariat for the implementation to be hosted by FAO".

FAO Director-General José Graziano da Silva

OJE Sixth Strategic Plan The strategic Plan Conference Centre Albert Borschette - Rue Froissart 36 - Bruvelles, CCAR-AC SANTE Opening. A.E. Fuessel acting Head of Unit G2 Animal Health - DG I Information on the EU position and developments at 83 of OTE General Session. Statement on Avian influenza Epdate on arian to in the EU and worldwide SANTE GO Rabies subgroup of the Tast: Force on the eradication of minut diseases; SANTE GO Rabies subgroup of the Task Force on the eradication of animal diseases SANTE (om the Latrian Presidency AGRI Workshop Biosecurity at farm level challenges for d'agriculture content interactive monkshop-biosecurity-es res events 20150505 wildlife conference en hun





MAIN CHALLENGES FACED BY THE OIE

Global and External Challenges



- Recurring sanitary concerns (PPR, CBPP, Rabies, FMD...)
- Emergent of re-emergent diseases: AI, MERs, Ebola
 - Impact on the productivity
- Environmental risks
 - Impact on Animal/Public Health, biodiversity ..., climate changes,
- Societal challenges
 - Food security / population growth
 - Changes in consumption patterns / animal proteins
 - Changes in production systems / AW, vegetarianism
 - New technologies

Structural and Internal Challenges



- Scientific excellence : experts, ref Lab network, OIE staff
 - quality relevance accuracy
- Information
 - transparency, timeliness, quality, adaptation to users expectations
- Governance and organisational needs
 - efficiency performance policies and procedures



Finally, the objectives are to preserve:

- the effectiveness
- the legitimacy
- the credibility

of the Organisation for the benefit of its Member Countries





RESPONSES PROPOSED BY THE OIE

Responses



- to contribute to the good global sanitary governance
- to promote the Veterinary Services as key players
- to support the OIE MC in their efforts to strengthen the national VS
- to permanently improve the OIE procedures and policies

Responses



- By setting up relevant standards on Animal Health and Animal Welfare, Guidelines and Recommendations
- By designing and implementing Global Control strategies against major diseases / partnerships
- By implementing the OIE PVS Pathway / thanks to donors
- By organising training seminars / national focal points
- By encouraging the networking among the OIE
 Reference Centres + twinnings





THE 6TH STRATEGIC PLAN 2016 - 2020

Chronology for inputs in 2015 an 18 months process



OIE Council meetings

October 2013 Meeting of the OIE Council in Paris

February 2014 Delivery of final text to Members for 60 days comments

May 2014

- OIE Council Meeting in Paris
- 82nd General Session

October 2014

Specific OIE Council meeting (Paris)

Chronology for inputs in 2015



Conferences of Regional Commissions

November 2013

• Asia, Far East and Oceania ► Cebu(Philippines)

September 2014 • Europe ► Bern (Switzerland)

November 2014

Americas ➤ Guadalajara (Mexico)

February 2015 Africa in ➤ Rabat (Morocco)

Chronology for inputs in 2015



February 2015 Meeting of the OIE Council in Paris

March 2015 Delivery of final text to Members for 60 days comments

May 2015

 Adoption of the Sixth Strategic Plan during Administrative Session of the 83rd General Session



OIE'S GLOBAL VISION

OIE's global vision is expressed as "Protecting animals; preserving our future", leading to economic prosperity and social and environmental well-being.

OIE Strategic objectives



- Strategic objective 1: securing animal health and welfare by Appropriate risk management
- Strategic objective 2: establishing trust through transparency and communication
- Strategic objective 3: ensuring the capacity and sustainability of Veterinary Services

The cross-cutting areas 2016 – 2020

A: scie

PARTNERSHIPS

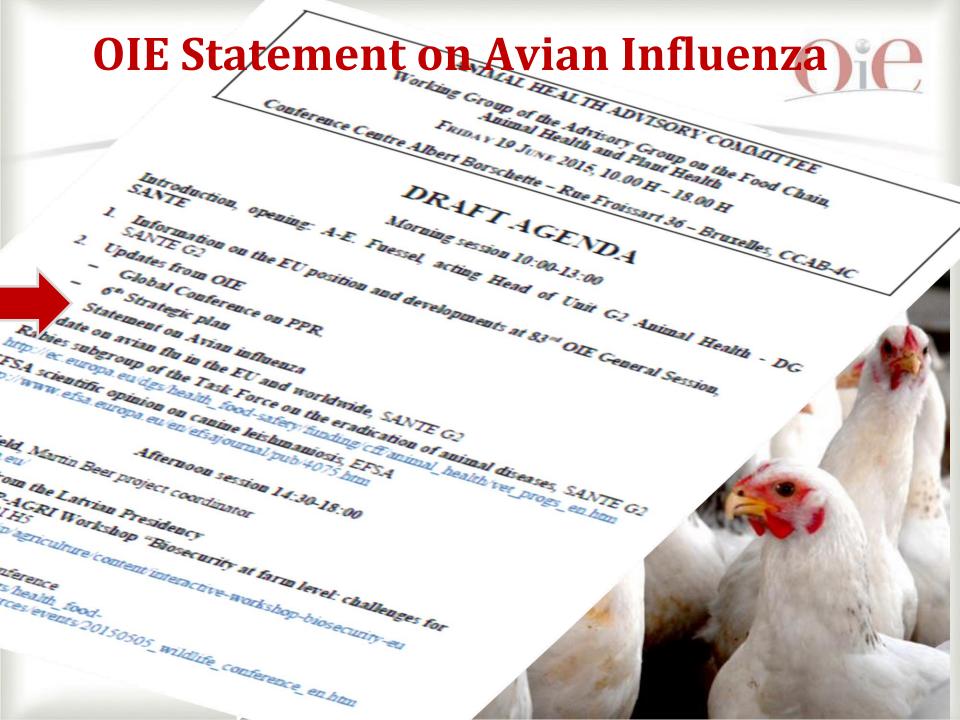
B: dive transp

The Organisation will continue to develop synergies and strong engagement with international institutional partners including the World Health Organization, the Codex Alimentarius Commission, the Food and Agriculture Organization of the United Nations (FAO), the World Bank, the World Trade Organization, etc., in areas of common interest and continue to explore additional partnerships with other organisations as warranted. It will continue to work with FAO and WHO, in the framework of the tripartite partnership, in programmes such as the Global Framework for the progressive control of Transboundary Animal Diseases (GF-TADS), eradication of PPR and canine Rabies, global control of FMD, the alignment of the PVS with the International Health Regulations (IHR), and the continuing programme for Rinderpest material sequestration (with FAO).

C: gove

The Organisation will strengthen its relations with the international security community such as Interpol in areas of common interest related to the prevention, preparedness, response and recovery from the deliberate use of animal pathogens to cause harm and natural disasters, measures to enhance the control of counterfeit drugs and the detection of fraud, and to contribute to international programs designed to promote integrated approaches to the management of health risks at the human-animal interface such as the Global Health Security Agenda (GHSA).

The OIE has entered into more than 60 Cooperation Agreements with external partners representing professional, academic, private and civil organizations. It will establish a process of monitoring these agreements to ensure that they remain strategically valid and that they further the aims of the Organization.



OIE Statement on Avian Influenza

The OIE recommends stronger farm biosecurity measures to curb the spread of avian influenza worldwide

Since early 2014, outbreaks of avian influenza ("bird flu") involving different strains of the virus have been reported in more than 35 countries around the globe. Tens of millions of poultry have died as a result of these outbreaks, either naturally or due to the application of stamping out measures. While it is not unusual for the avian influenza virus to circulate, particularly among wild birds, the recent upsurge in outbreaks worldwide reaffirms the need for better implementation of the intergovernmental standards adopted by the OIE's 180 member countries on avian influenza surveillance, early detection, rapid response to outbreaks and prevention and control, especially farm biosecurity and, where appropriate, poultry vaccination.

Made in response to the international poultry sector concerns



COIE K. Hamilton



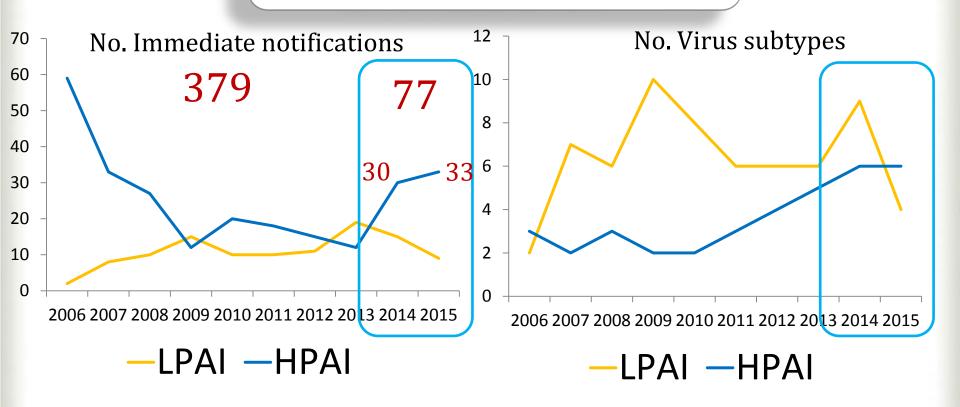
Paris, 19 May 2015 – The global epizootic (epidemic outbreak in animals) of avian influenza subtype H5N1 that emerged in early 2004 resulted in the death of tens of millions of poultry. Several hundred human cases* were also detected, more than half of which proved fatal. Back then, this essentially animal epidemic was widely publicised for fear of the strain mutating into a form easily transmissible from person to person, which might have led to a global spread of the disease in humans.



No. immediate notifications and virus subtypes for AI



Significant increase in 2014 and 2015



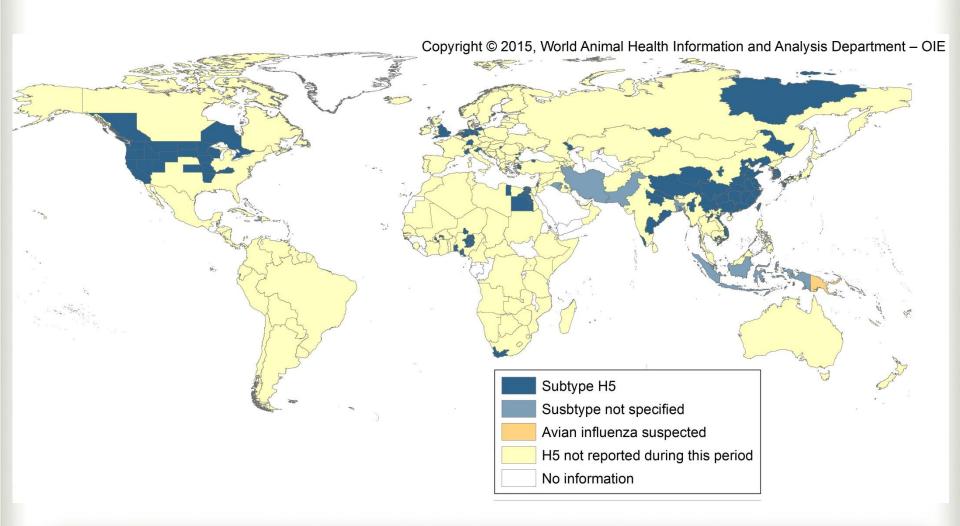
[China: 6; Germany: 5]

No. immediate notifications and virus subtypes for AI

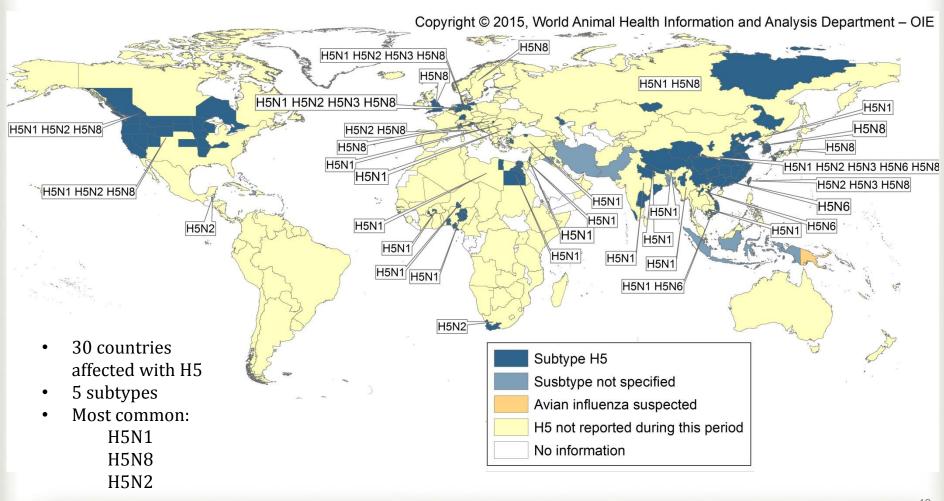


H5N1: recent outbreaks in Africa, Israel and Palestine; endemic in Egypt H7N9: emerged in 2013 in China; first time that a LPAI in poultry can affect humans H5N8: emerged in 2014 in China, Korea and Japan; then India, Europe and Northern America (Canada and USA) → role of migratory birds H5N2: recently in USA (suggested recombination between H5N8 and local stains)

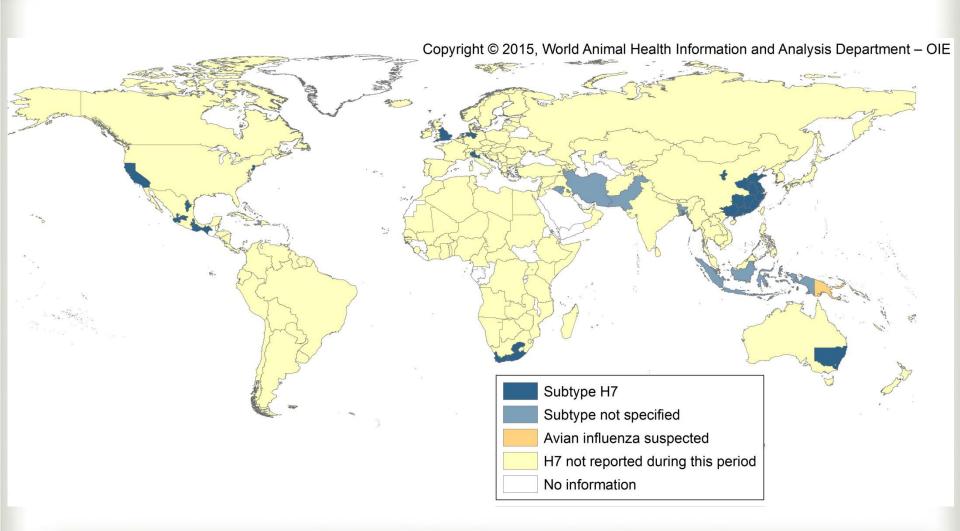




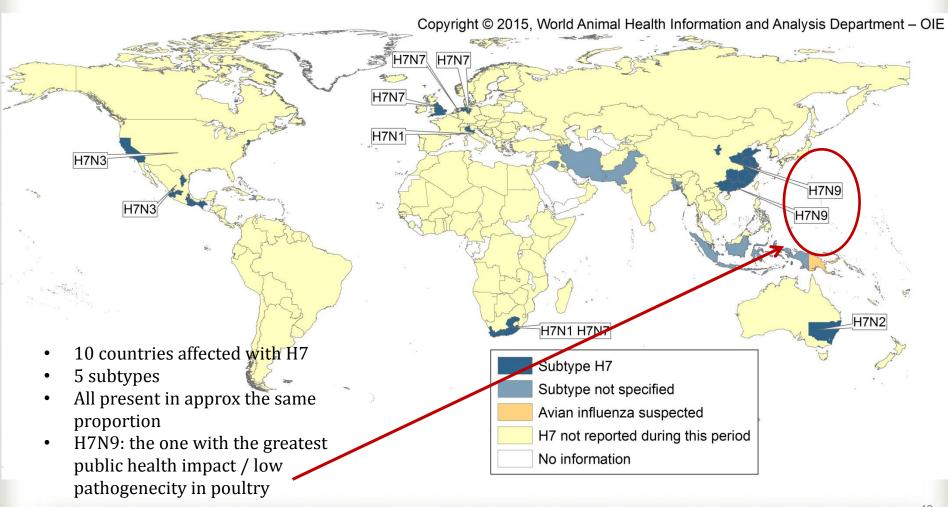






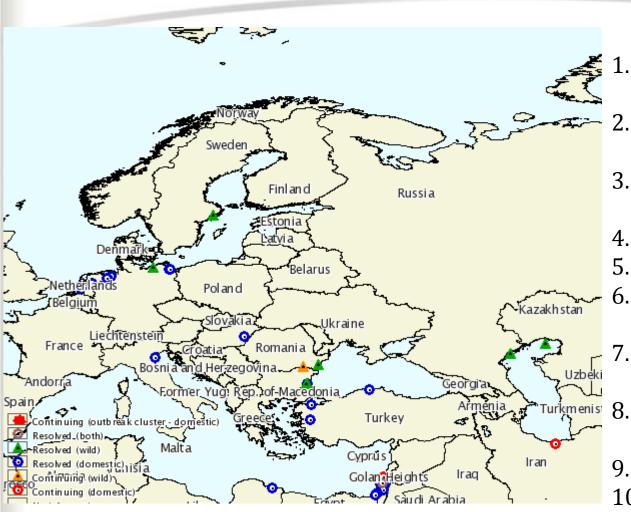






HPAI in Europe (2015)





1er janvier – 15 juin 2015 (HPAI)

- 1. Bulgaria (22/01/2015; H5N1)
- 2. Germany (04/11/2015; H5N8)
- 3. Hungary (23/02/2015; H5N8)
- 4. Israel (14/01/2015; H5N1)
- 5. Italy (15/12/2014; H5N8)
- 6. Kazakhstan (12/05/2015; H5)
- 7. The Netherlands (14/11/2014; H5N8)
- 8. Romania (25/03/2015; H5N1)
- 9. Russia (17/04/2015; H5N1)
- 10. Sweden (18/02/2015; H5N8)
- 11. Turkey (23/04/2015; H5N1)





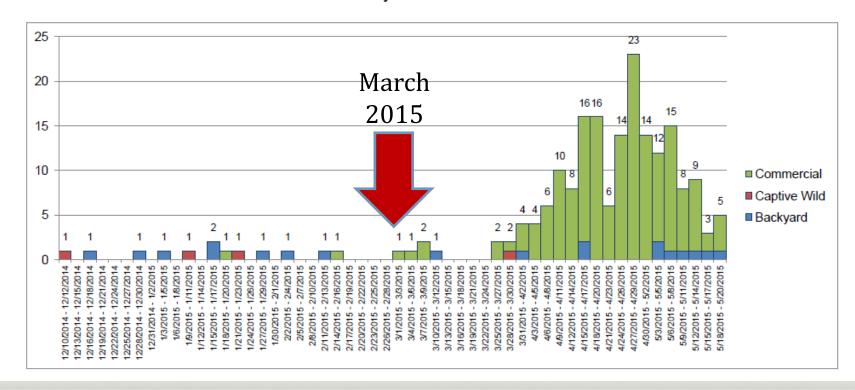


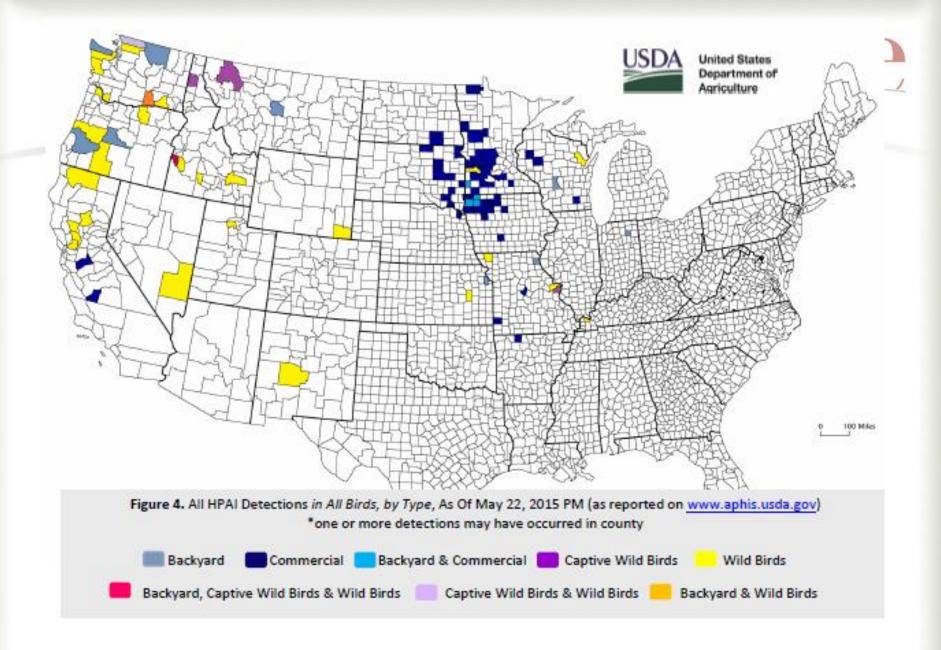
HPAI in the United States



H5N8 H5N2

Figure 2. Premises Detected for ALL STATES 12/10/14 to 5/21/15
Captive Wild, Backyard, Commercial
By 3-DAY INTERVAL





Analysis of WAHIS data



Which is the spatial dynamic of avian influenza? Is it related to virus subtype?

Methodology

Localization of the starting points and related outbreaks



Distance between the points (Haversine formula)





Spread

Progressive distance from the starting point(km)

Speed

Ratio between 'distance from starting point' and 'days after the start of the event' (km/day).

Analysis of WAHIS data

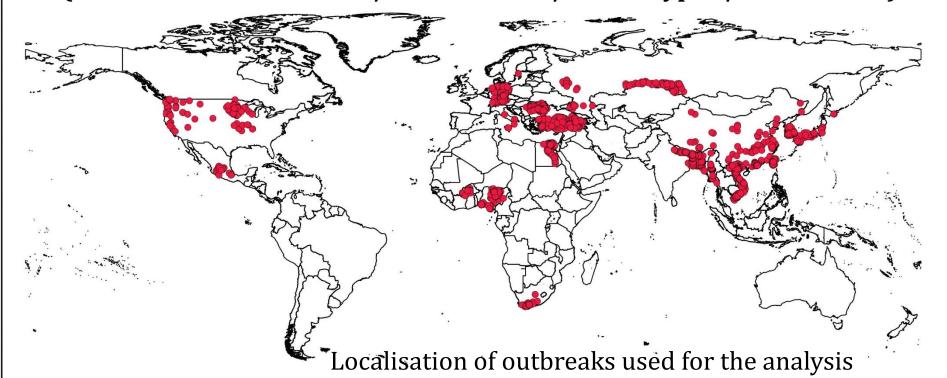


Methodology

Only events with more than 10 outbreaks

Data between 1 January 2005 and 19 May 2015

(In total: 5910 outbreaks / 21 countries / 10 subtypes / LPAI + HPAI)



Results at local level (within the same country / all subtypes)



Maximum spread after the start of the event reached after

five months:

- mean 985 km minimum 54 km LOCAI
- maximum 1 745 km



dynamics

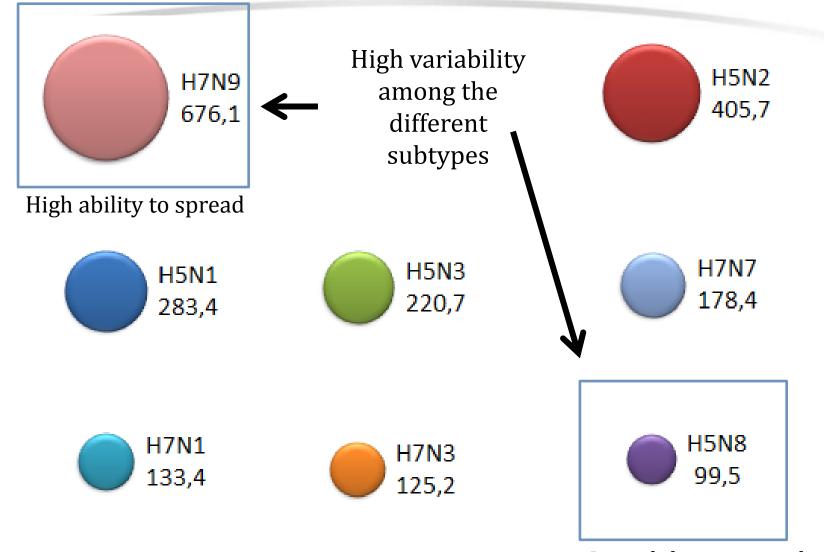
Maximum speed registered in the first week post event:

- mean 18 km/day
- minimum 5 km/day
- maximum 58 km/day



Spread at local level





Low ability to spread

Speed at local level (speed 10x)



H7N1 (0,4 KM / Day)





H7N3

H5N1 H5N3



H5N2 H5N8 H7N7

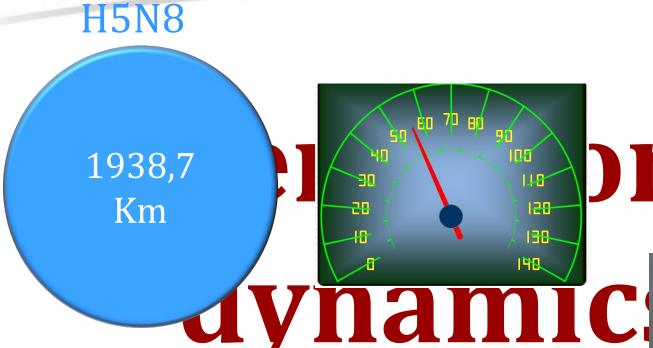




H7N9 (13,2 KM / Day)

Spread and speed at international level (based only on H5N8 and H7N9)





H5N8 → capacity to jump to other countries (migratory birds)

698,9 Km





Importance of AI (HPAI + LPAI)



Economic impact

Public health consequences

HPAI events

User Name

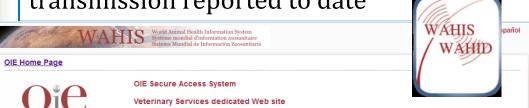
Password

Login

Delegates' site

(January 2014 to 19 May 2015)

35 countries **57 724 590** susceptible **H5N8**: most severe impact (15,4 Million birds destroyed) / no human transmission reported to date



Welcome to the OIE Secure Access System.

Access to this site is only available to authorised users: namely, the Delegates of Member Countries, their designated nominees Focal points

The secure access system provides access to two main areas of the OIE secured web site

- The World Animal Health Information System (WAHIS) secured web site. Access to this application allows users from Member Countries namely Delegates or their nominees, to electronically submit standard notification reports (immediate notification and follow-up reports six-monthly reports and annual reports) to the OIE. This system not only provides countries with a simpler and quicker method of sending notifications and reports on disease information but also allows them to benefit from the new analysis capabilities put in place to produce essential and useful information without delays

- The Delegates' Site. This site has been updated to provide secure access to material and information intended only for OIE Delegates

H5N1 (as of May 2015)

16 countries

840 cases in

humans

447 deaths

H7N9 (as of February 2015)

2 countries

602 cases in

humans

227 deaths



Conclusions AI



- Existing measures laid down in the OIE Terrestrial Animal Health Code are sufficiently robust to manage outbreaks and to facilitate safe trade
- Importance of biosecurity measures at farm level, in live bird markets and in commerce
- Importance for countries to monitor the situation in domestic and wild animals, considering the high recombination and mutation of AI virus (and the high variability of subtypes in some countries) → priority to strengthen monitoring systems
- Importance for countries to comply with reporting obligations reminder:
 - HPAI: mandatory reporting in poultry and wild birds
 - LPAI: mandatory reporting in poultry
 - LPAI: voluntary reporting in wild birds (*WAHIS-wild; since 2013*)*
- On-going analysis of data (spread; speed capacity) which are useful to understand the virus dynamics (very different according to the subtypes) and follow the spatiotemporal evolution of the disease
- In turn, this will allow member countries to increase their capacity to manage the disease and limit devastating effects