

World Animal Health Information System (WAHIS)

Dr Gounalan Pavade
Scientific Coordinator
WOAH

WOAH Regional Expert Group Meeting for diseases of poultry in Asia and the Pacific Region, Geelong, Australia
31 October - 2 November 2022

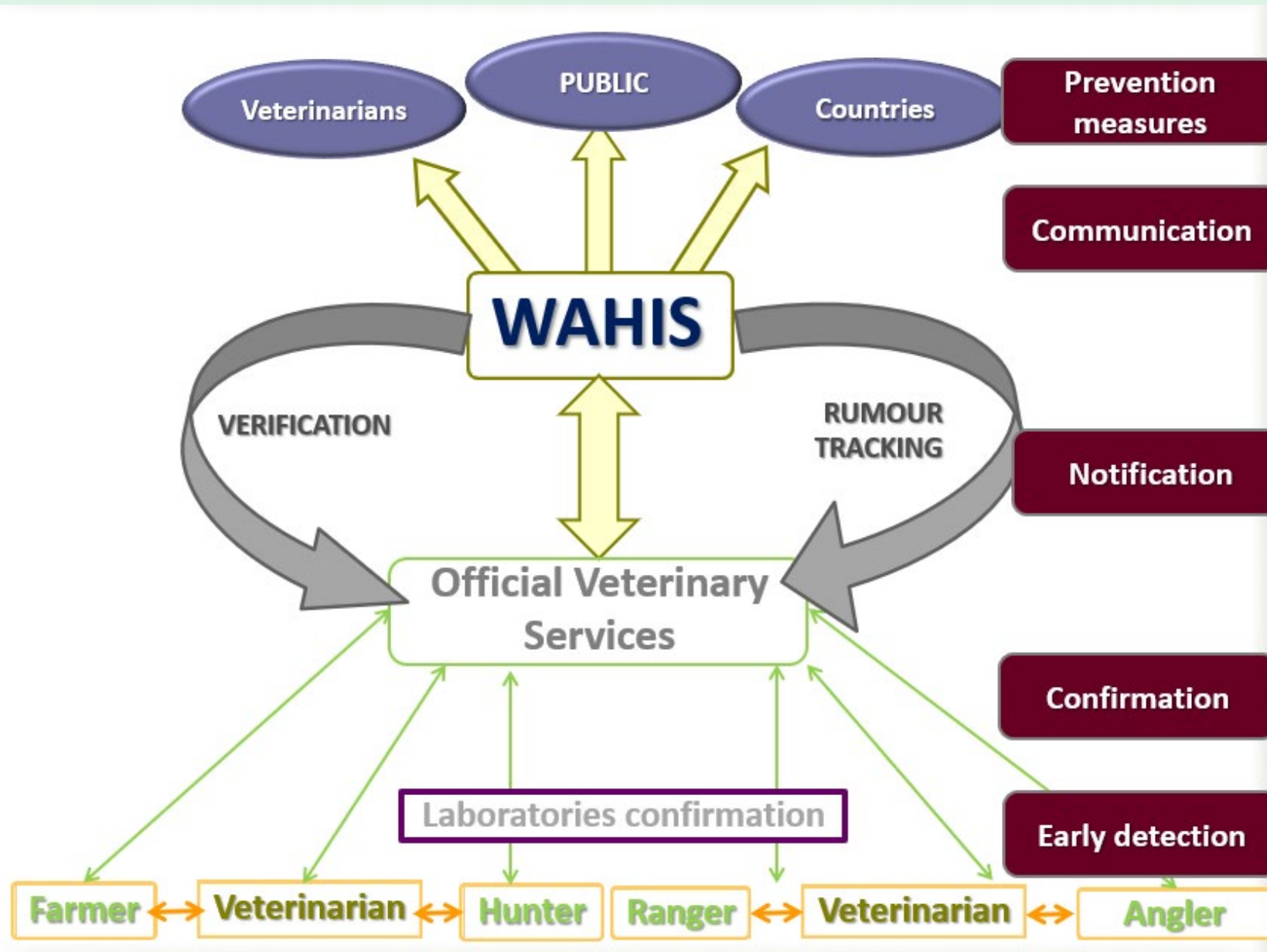


World
Organisation
for Animal
Health

Organisation
mondiale
de la santé
animale

Organización
Mundial
de Sanidad
Animal

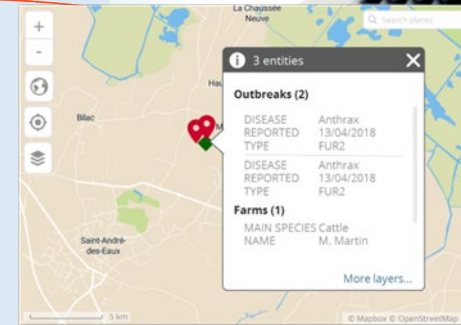
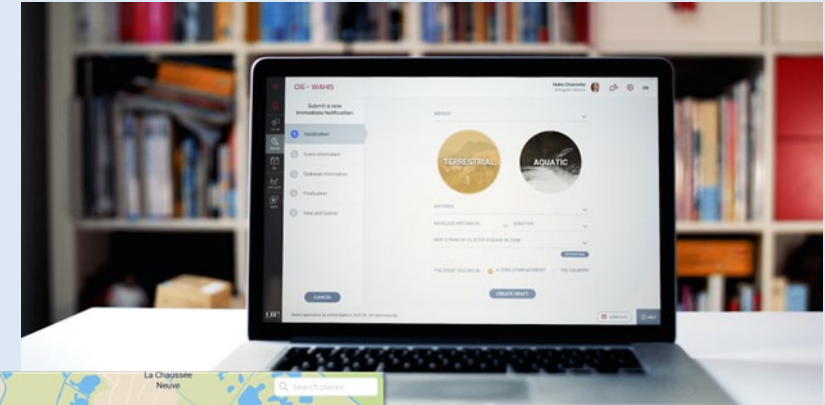
- Legal obligation for all Countries and territories to report to the WOAHA
- One of the main missions of the WOAHA is to ensure transparency of worldwide animal disease situation including zoonosis
- WAHIS is a unique comprehensive database through which information on the animal health situation worldwide is reported and disseminated throughout the world.
- WAHIS data reflects the information gathered by the Veterinary Services from OIE Members and non-Members Countries and Territories on OIE-listed diseases in domestic animals and wildlife, as well as on emerging diseases and zoonoses.





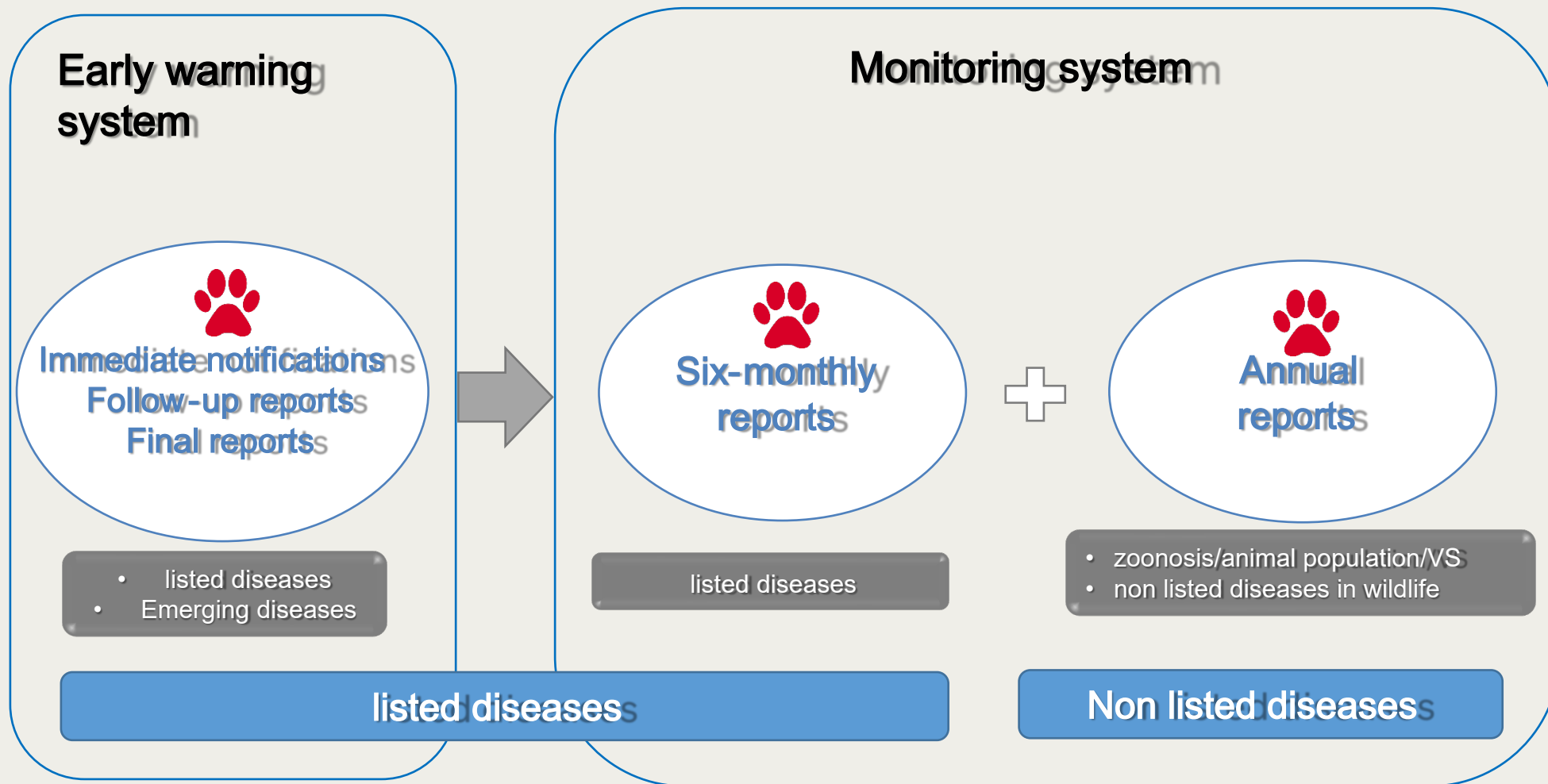
Reporting information to WOAAH


- 117 WOAAH-listed diseases & emerging diseases
- Official national information communicated through early warning & monitoring systems
- Focal points under the responsibility of the Delegate, can submit information to the WOAAH
- Interoperability, integration and connectivity with other data and systems
- This new public interface includes data extraction tools, interactive mapping tools and dashboards to support data consultation, visualization and extraction of officially validated animal health data.























Facilitating reporting, promoting the use of data

<https://wahis.woah.org/#/home>





 Events management
 See on the map

<input type="checkbox"/>	Country	Report number	Disease	Genotype/ Serotype/ Subtype	Reason	Start date	Report date	
<input type="checkbox"/>	 Namibia	FUR_2	Mycoplasma mycoides subsp. mycoides SC (Inf. with) (Contagious bovine pleuropneumonia)		Recurrence of an eradicated disease	2022/02/28	2022/09/26	 ...
<input type="checkbox"/>	 Portugal	FUR_3	Influenza A viruses of high pathogenicity (Inf. with) (non-poultry including wild birds) (2017-)	H5N1	Recurrence of an eradicated disease	2022/07/27	2022/09/26	 ...
<input type="checkbox"/>	 Namibia	FUR_1	Mycoplasma mycoides subsp. mycoides SC (Inf. with) (Contagious bovine pleuropneumonia)		First occurrence in a zone or a compartment	2022/05/16	2022/09/26	 ...
<input type="checkbox"/>	 Russia	FUR_3	Influenza A viruses of high pathogenicity (Inf. with) (non-poultry including wild birds) (2017-)	H5N1	Recurrence of an eradicated disease	2022/05/26	2022/09/23	 ...
<input type="checkbox"/>	 Italy	IN	High pathogenicity avian influenza viruses (poultry) (Inf. with)	H5N1	Recurrence of an eradicated disease	2022/09/22	2022/09/23	 ...
<input type="checkbox"/>	 Norway	IN	Paenibacillus larvae (Inf. of honey bees with) (American foulbrood)		Recurrence of an eradicated disease	2022/09/16	2022/09/23	 ...
<input type="checkbox"/>	 South Africa	FUR_48	High pathogenicity avian influenza viruses (poultry) (Inf. with)	H5N1	Recurrence of an eradicated disease	2021/03/04	2022/09/23	 ...
<input type="checkbox"/>	 Romania	FUR_66	African swine fever virus (Inf. with)		Recurrence of an eradicated disease	2021/02/12	2022/09/23	 ...
<input type="checkbox"/>	 United Kingdom	FUR_11	Contagious equine metritis		Recurrence of an eradicated disease	2022/06/27	2022/09/22	 ...
<input type="checkbox"/>	 United Kingdom	FUR_32	Influenza A viruses of high pathogenicity (Inf. with) (non-poultry including wild birds) (2017-)	H5N1	First occurrence in a zone or a compartment	2022/01/11	2022/09/22	 ...

Facilitating reporting, promoting the use of data

WAHIS Early Warning module optimisation



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New features



New design – more user-guided and user-friendly

Improved **quality of reporting**

Facilitated **visualization of information**

Better Data management

Updated Event management page on Public interface and Back Office

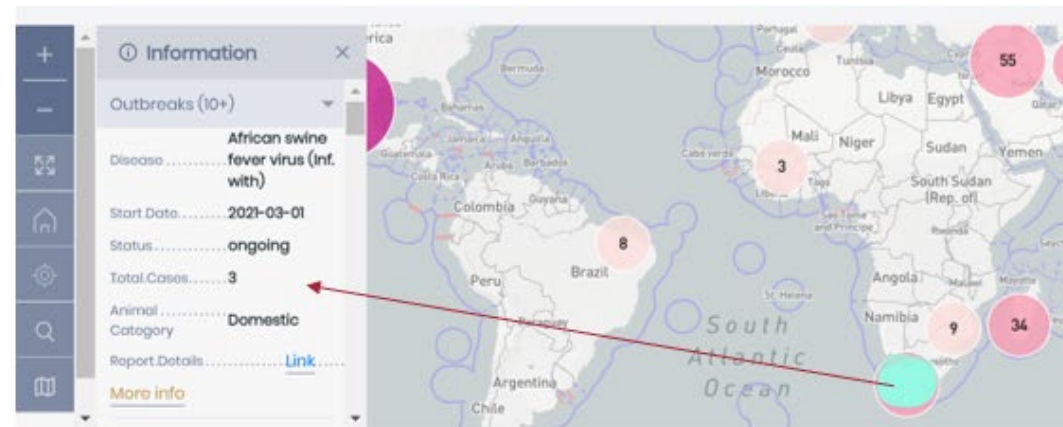
Enhanced **performance**

New features – Enhanced mapping



Easier **localization** of outbreaks and better **data display**

- Mapping system completely re-designed and interactive
- Dynamic display of outbreak and background information
- Improved GIS functionalities, more accurate localization
- Outbreak details directly available on the map



New features – Analytics



Analytics: for better data visibility, exposure and transparency

- national/ regional animal health situation can be instantly monitored
- better understanding of the distribution, impact and dynamics of animal diseases
- extraction of collected data since 2005 in a wide range of formats
- simple data sharing and the use of data for analytical purpose outside platform

Several dashboards

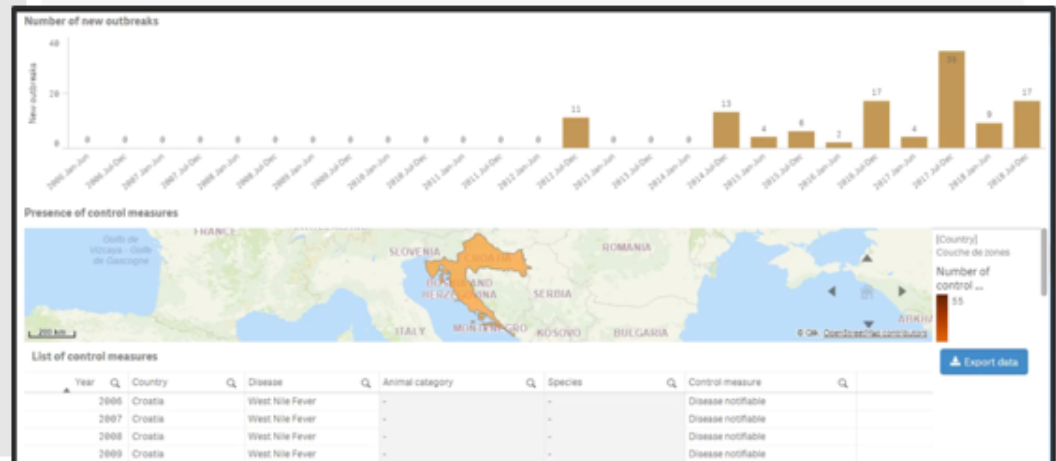
Export Data

Disease situation >

Animal health capacity >

Quantitative data >

Surveillance and control measures >



New features – event management page

Reorganized left menu

Improved display – one line per event with latest information

Responsive design – adapts to screen size

The updated Event management page on Public Interface and Back Office allows access in one click to all information of the event and easier following of events evolution

The screenshot displays the AHIS Event management interface. At the top right, it shows the user's name 'Hello, Cedric Administrator' and the language 'EN'. Below this are buttons for '#Download', 'See on the map', and 'Create immediate notification'. The main content is a table of events with the following columns: #Country, #ID, #Disease, #Subtype, #Reason of notification, #Number, #Status, #Start date, and #Submission date. The table lists several events, all from France, with various diseases and subtypes. A left sidebar menu contains icons for 'Event', 'Sit', 'e-learning', and 'Other'. The footer includes the World Organisation for Animal Health logo, a 'CONTACT' button, and a 'Help' button.

#Country	#ID	#Disease	#Subtype	#Reason of notification	#Number	#Status	#Start date	#Submission date
France	4184	Influenza A viruses of high pathogenicity (Inf. with) (non-poultry including wild birds) (2017-)	H5N1	First occurrence in a zone or a compartment	FUR_2	Validated	2021/12/14	2022/01/26
France	4061	Brucella melitensis (Inf. with)		Recurrence of an eradicated disease	FUR_1	Validated	2021/10/12	2022/01/19
France	4035	Anthrax		Recurrence of an eradicated disease	FUR_3	Validated	2021/10/23	2021/12/31
France	3944	Influenza A viruses of high pathogenicity (Inf. with) (non-poultry including wild birds) (2017-)	H5N8	Recurrence of an eradicated disease	FUR_4	Validated	2021/09/04	2021/12/22
France	3982	West Nile Fever		Recurrence of an eradicated disease	FUR_4	Validated	2021/09/26	2021/11/30
France	3387	High pathogenicity avian influenza viruses (poultry) (Inf. with)	H5N8	Recurrence of an eradicated disease	FUR_24	Validated	2020/11/07	2021/09/03
France	3626	Influenza A viruses of high pathogenicity (Inf. with) (non-poultry including wild birds) (2017-)	H5N1	New strain in the country	FUR_10	Validated	2021/03/17	2021/08/30
France	3519	Influenza A viruses of high pathogenicity (Inf. with) (non-poultry including wild birds) (2017-)	H5N3	First occurrence in a zone or a compartment	FUR_11	Validated	2021/01/18	2021/08/30
France	3486	Low pathogenic avian influenza (poultry) (2006-2021)	H5N3	Recurrence of an eradicated disease	FUR_14	Validated	2021/01/07	2021/08/30
France	3424	Influenza A viruses of high pathogenicity (Inf. with) (non-poultry including wild birds) (2017-)	H5N8	First occurrence in a zone or a compartment	FUR_23	Validated	2020/11/18	2021/08/30

New features – improved filtering of events

More user-friendly filter functionality

Easy management of favorite filters

Enriched functionalities for each event

Users can experience an improved performance on the filter selection with a more intuitive filter interface, while the menu on the right allows to directly perform different actions on the event.

The screenshot displays the WAHIS Event management interface. On the left, a sidebar contains navigation icons for 'Event', 'Six', 'E-learning', and 'Other'. The main area is titled 'Event management' and features a 'Filters' panel on the left with fields for eventStatus, country, eventid, disease, subType, eventStartDate, reason, reportStatus, submissionDate, reportNumber, and animalType. The 'reportStatus' field has a '1' next to it. The main table shows a list of events with columns: #Country, #ID, #Disease, #Subtype, #Reason of notification, #Number, #Status, #Start date, and #Submission date. The table is filtered by 'country: France' and 'reportStatus: Validated'. A context menu is open over the last row, showing options: 'Preview last report', 'Edit report', and 'Create follow-up report'. At the top right, there are buttons for '#Download', 'See on the map', and 'Create immediate notification'. The user 'Hello, Cedric Administrator' is logged in. The footer includes the World Organisation for Animal Health logo and text: 'World organisation for animal health © 2020 OIE. All rights reserved. Release No. R01.00.05.145'.

#Country	#ID	#Disease	#Subtype	#Reason of notification	#Number	#Status	#Start date	#Submission date	
France	4184	Influenza A viruses of high pathogenicity (Inf. with) (non-poultry including wild birds) (2017-)	H5N1	First occurrence in a zone or a compartment	FUR_2	Validated	2021/12/14	2022/01/26	Preview last report
France	4061	Brucella melitensis (Inf. with)		Recurrence of an eradicated disease	FUR_1	Validated	2021/10/12	2022/01/19	Edit report
France	4035	Anthrax		Recurrence of an eradicated disease	FUR_3	Validated	2021/10/23	2021/12/31	Create follow-up report
France	3944	Influenza A viruses of high pathogenicity (Inf. with) (non-poultry including wild birds) (2017-)	H5N8	Recurrence of an eradicated disease	FUR_4	Validated	2021/09/04	2021/12/22	
France	3982	West Nile Fever		Recurrence of an eradicated disease	FUR_4	Validated	2021/09/26		
France	3387	High pathogenicity avian influenza viruses (poultry) (Inf. with)	H5N8	Recurrence of an eradicated disease	FUR_24	Validated	2020/11/07		
France	3626	Influenza A viruses of high pathogenicity (Inf. with) (non-poultry including wild birds) (2017-)	H5N1	New strain in the country	FUR_10	Validated	2021/03/17		
France	3519	Influenza A viruses of high pathogenicity (Inf. with) (non-poultry including wild birds) (2017-)	H5N3	First occurrence in a zone or a compartment	FUR_11	Validated	2021/01/18	2021/08/30	
France	3486	Low pathogenic avian influenza (poultry) (2006-2021)	H5N3	Recurrence of an eradicated disease	FUR_14	Validated	2021/01/07	2021/08/30	
France	3424	Influenza A viruses of high pathogenicity (Inf. with) (non-poultry including wild birds) (2017-)	H5N8	First occurrence in a zone or a compartment	FUR_23	Validated	2020/11/18	2021/08/30	

New features – event dashboard page

Event history management

Indicators on outbreaks

Global overview of event information

The event dashboard page displays all information about a specific event. From this page users can manage their reports by reviewing or editing them, or create a new Follow-up report

WAHIS

UAT Hello, Cedric Administrator EN

← Return to event list

EVENT 3387

Resolved France - Highly pathogenic avian influenza (poultry)

See on the map Contact card

Open last report >

Causal agent Highly pathogenic avian influenza virus	Genotype/Serotype/Subtype H5N8	Animal type TERRESTRIAL	Disease category OIE-listed	Reason for notification Recurrence
Event occurs in A zone/compartiment	Event start date 2020/11/07	Event confirmation date 2020/11/16	Event end date 2021/08/04	Date of last occurrence 2017/10/27

HISTORICAL REPORTS		CONTROL MEASURES	QUANTITATIVE DATA	EPIDEMIOLOGICAL COMMENTS		
<input type="checkbox"/>	Report number	Report ID	New outbreaks	On-going outbreaks	Total outbreaks	Reporting date
<input type="checkbox"/>	FUR_24	151477	0	0	488	2021/09/03
<input type="checkbox"/>	FUR_23	151010	1	0	488	2021/08/05
<input type="checkbox"/>	FUR_22	150872	0	1	488	2021/07/26
<input type="checkbox"/>	FUR_21	150463	0	1	488	2021/06/25
<input type="checkbox"/>	FUR_20	150358	0	1	488	2021/06/16
<input type="checkbox"/>	FUR_19	150123	0	1	488	2021/05/31
<input type="checkbox"/>	FUR_18	149964	6	1	488	2021/05/18
<input type="checkbox"/>	FUR_17	149172	0	0	488	2021/03/19
<input type="checkbox"/>	FUR_17	149742	87	25	488	2021/05/07

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New features – event indicators

Three tabs of indicators to easily follow-up the evolution of the disease situation of the event, the Control Measures applied and Epidemiological comments of the reports

Indicators on disease evolution

Global overview of event information

WAHIS

See on the map | Contact card

Event

Six

E-learning

Other

UAT

Hello, Cedric Administrator

EN

Open last report >

Causal agent Highly pathogenic avian influenza virus	Genotype/Serotype/Subtype H5N8	Animal type TERRESTRIAL	Disease category OIE-listed	Reason for notification Recurrence
Event occurs in A zone/compartiment	Event start date 2020/11/07	Event confirmation date 2020/11/16	Event end date 2021/08/04	Date of last occurrence 2017/10/27

HISTORICAL REPORTS CONTROL MEASURES **QUANTITATIVE DATA** EPIDEMIOLOGICAL COMMENTS

Birds

Line
Bar

- SUSCEPTIBLES
- CASES
- DEATHS
- KILLED AND DISPOSED OF
- SLAUGHTERED/KILLED FOR COMMERCIAL OR OWN USE

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CONTACT

Help

New features – event editing

Event information overview

Easy management of outbreaks

All information of the event accessible at once

The event overview page allows users to edit the event in a more straightforward, user-friendly way while maintaining an overview of the entered information at one glance.

WAHIS Hello, Cedric Administrator EN

On-going EVENT 3776 / [REPORT_155253](#)

FRANCE - Brucella suis (Inf. with)

Visualiser sur la carte Commentaires Traduction Consulter le rapport Soumettre

SOURCE DE L'INFECTION **MESURES DE LUTTE**

#Domestic #Wild

Disinfection Applied

Traceability Applied

Ante and post-mortem inspections Applied

Screening Applied

#OUTBREAKS #All statuses #Search

Reference	Administrative division	Location	Epidemiological Unit	Cluster count	Started on	Ended on
<input type="checkbox"/> 2021-38 (ob_86950)	Bayonne	SUHESCUN	Farm		11/05/2021	
<input type="checkbox"/> 2021-42 (ob_87705)	Condom	Castéra-Verduzan	Farm		14/06/2021	

Items per page: 3 1 - 2 of 2

#DIAGNOSTIC METHODS

Necropsy

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New features – outbreak editing

Outbreak information overview

Easy management of species

User-friendly input of data

Outbreak overview page works the same way as the Event overview page, allowing user to easily edit data while maintaining an overview of the entered information.

WAHIS

On-going EVENT 3776 / REPORT 155253 /

← 2021-38 (ob_86950)

Spécifiez la référence du foyer 2021-38

Spécifiez le statut du foyer #Continuing

Localisation 43.235699,-1.196576

#First administrative division Nouvelle-Aquitaine

#Second administrative division Pyrénées-Atlantiques

#Third administrative division Bayonne

Le foyer a débuté le 2021/05/11

Le foyer a été clos le -

Localisation du foyer SUHESCUN

Unité épidémiologique Farm

Précisez le nombre de foyers dans le groupe -

#Detailed characterization -

#SPECIES #Search

<input type="checkbox"/>	Species	Measuring unit	Susceptible	Cases	Deaths	Killed	Commercial use	Vaccinated
<input type="checkbox"/>	Swine	Animal	471	19	0	0	98	0

#DIAGNOSTIC METHODS

Diagnostic test

#CONTROL MEASURES

Ante and post-mortem inspections

Disinfection

Screening

Slaughter

Stamping out

Traceability

Movement control

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New features – guided Immediate notification report creation

Guided Immediate Notification creation

#Causal agent	#Sub - type	#Animal type	#Disease category
Bacillus anthracis	-	#Terrestrial	OIE-listed
#Reason	#Event occurs in	#Report reference	#Report number
Recurrence of an eradicated disease	#The country	-	0
#Event start date	#Event confirm date	#Event end date	#Last occurrence date
-	-	-	2021/12/20

Free input of data for Follow-up Reports

SOURCE DE L'INFECTION

MESURES DE LUTTE

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CONTACT

Help

User-guided creation of Immediate Notification and simplification of the editing process of Follow-up reports, allowing users to skip the steps where no changes are to be applied.

New features – outbreaks display per status

Easy management of outbreaks

Filters on outbreaks statuses

The screenshot displays the WAHIS interface for managing outbreaks. A dropdown menu is open, showing filters for outbreak statuses: #All statuses, #Continuing, #Resolved, #New/Updated outbreaks, and #Old outbreaks. The table below lists various outbreaks with columns for Reference, Epidemiological Unit, Cluster count, Started on, and Ended on. A sidebar on the left contains navigation icons for Event, Six, e-learning, and Other. The top right shows user information (Hello, Cedric Administrator) and a language selector (EN). A yellow highlight on the left side of the image reads 'Change screenshot for something more appealing'.

Reference	Epidemiological Unit	Cluster count	Started on	Ended on
NUM-0000445 (ob_103437)	Farm		18/05/2022	18/05/2022
NUM-0000412 (ob_100752)	Farm		18/03/2022	06/05/2022
NUM-0000386 (ob_98095)	Other		14/02/2022	04/03/2022
NUM 0000340 (ob_96465)	Farm		14/01/2022	04/03/2022
2021-12-09-32450 (ob_94116)	Other		09/12/2021	02/03/2022
2021-10-25-58270 (ob_93030)	Other		25/10/2021	28/02/2022
2021-12-17-04110 (ob_94651)	Farm		17/12/2021	28/01/2022
2021-11-22-03340 (ob_94501)	Other		11/11/2021	20/12/2021
ob_91405	Farm		28/09/2021	08/01/2022

3 – Limitations (expected for next releases)

Limitation (not available yet)	Possible workaround
Import a file to create or update one or more outbreaks	Functionality to be delivered in a further release
Export one or more outbreaks in csv format	Ask WAHIS support desk to provide extraction
Email notifications when the status of a report changes	Emails will be sent manually by a WAHIAD staff member member in case clarifications are required. Please check WAHIS to follow the status of your report.
Submit the name of a new disease, species, test or laboratory which is not referenced yet by WAHIS	Country needs to send new values via email to WAHIS support desk before processing the report
Export the report with the associated map in a single document	Manually open and screen capture the map and send it separately from the report
Export several reports at once	Reports to be exported one by one
Close multiple outbreaks at once	Outbreaks to be closed one by one
PDF improvements	Please contact WAHIS support for assistance
Deletion of report	Please contact WAHIS support for assistance

How will WOAAH support you in notifying data?

PLATFORM
 2022

Regular
releases



Training activities
after Go-Live

Support material

- F.A.Q.
- Video tutorials

One-on-one training support

- Deepen understanding of new functionalities
- Highlight best practices between Focal Points
- Share difficulties with the trainers

SUPPORT

A hotline is available to help you in case of difficulties :

<https://wahis-support.woah.org/>
wahis-support@woah.org



Optimised Immediate notification and Follow-up module (IN/FUR) went live on 20/09

Major improvement:

- User friendly data entry
- Enhanced performance
- Better data coherency
- Event based reporting
- More stabilised module



Event management

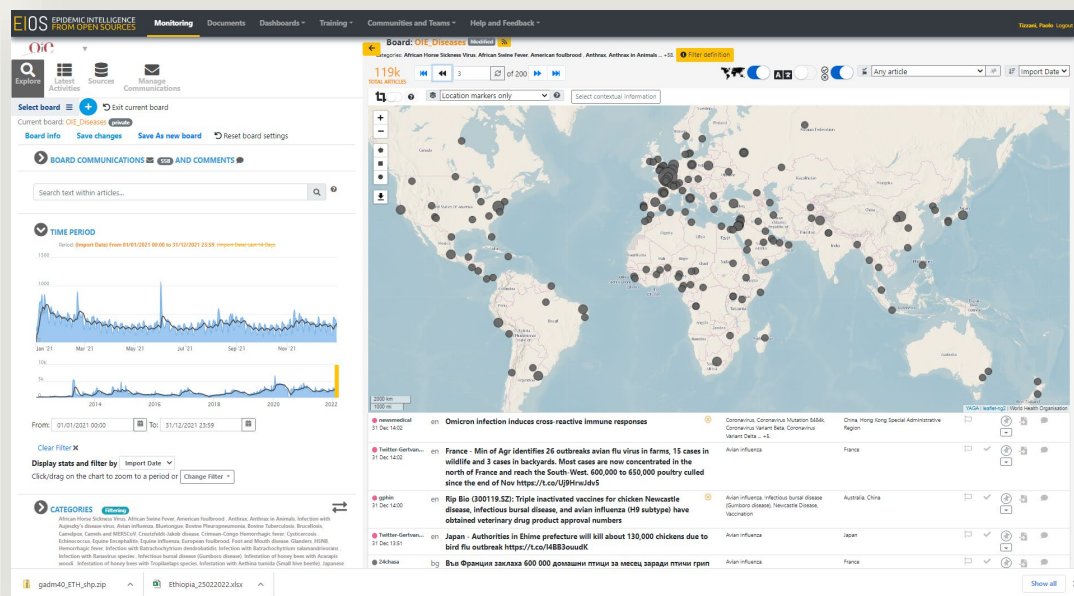
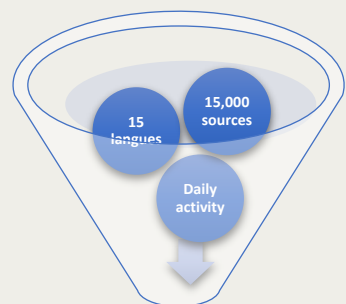
[#Download](#) [#See on the map](#) [Create immediate notification +](#)

reason: Première apparition dans le pays reportNumber: IN

<input type="checkbox"/>	#Country	#ID	#Disease	#Subtype	#Reason of notification	#Number	#Status ^	#Start date	#Submission date	
<input type="checkbox"/>	Aruba	6111	Acarapis woodi (Inf. des abeilles mellifères par)		Première apparition dans le pays	IN	Validé	2022/08/18	2022/08/18	
<input type="checkbox"/>	Bolivie	6094	Fièvre charbonneuse		Première apparition dans le pays	IN	Validé	2022/08/17	2022/08/17	
<input type="checkbox"/>	Bolivie	6090	Peste équine (Inf. par le virus de la)	2	Première apparition dans le pays	IN	Validé	2022/08/01	2022/08/01	
<input type="checkbox"/>	Cité du Vatican	5865	Agalaxie contagieuse		Première apparition dans le pays	IN	Validé	2022/08/01	2022/08/01	
<input type="checkbox"/>	Sainte-Lucie	5504	Nodavirus de Macrobrachium rosenbergii (Inf. par le) (Maladie des)		Première apparition dans le pays	IN	Validé	2022/03/03	2022/07/20	

➤ User support provided via support desk <https://wahis-support.woah.org/> and training materials

Search for unofficial information



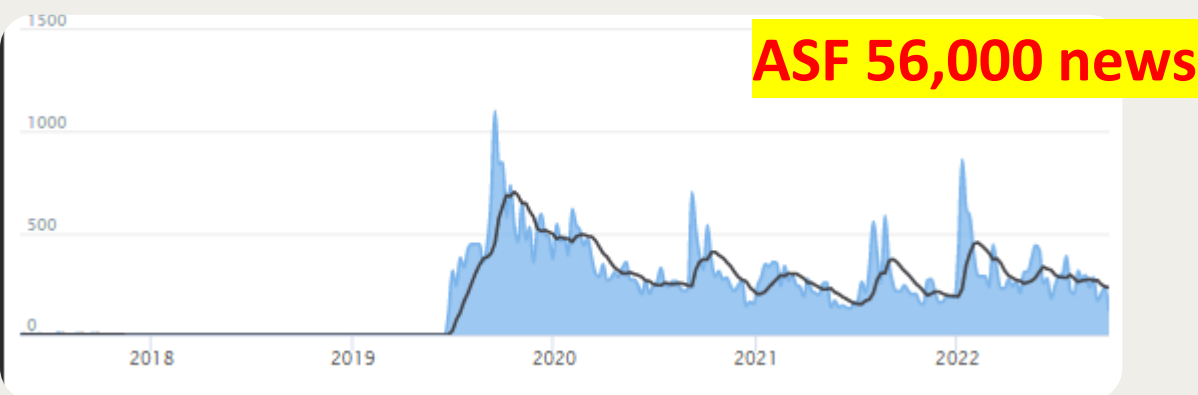
GLEWS platform
Global Early Warning and Response System for Major Animal Diseases, including Zoonoses

EIOS EPIDEMIC INTELLIGENCE FROM OPEN SOURCES

Source

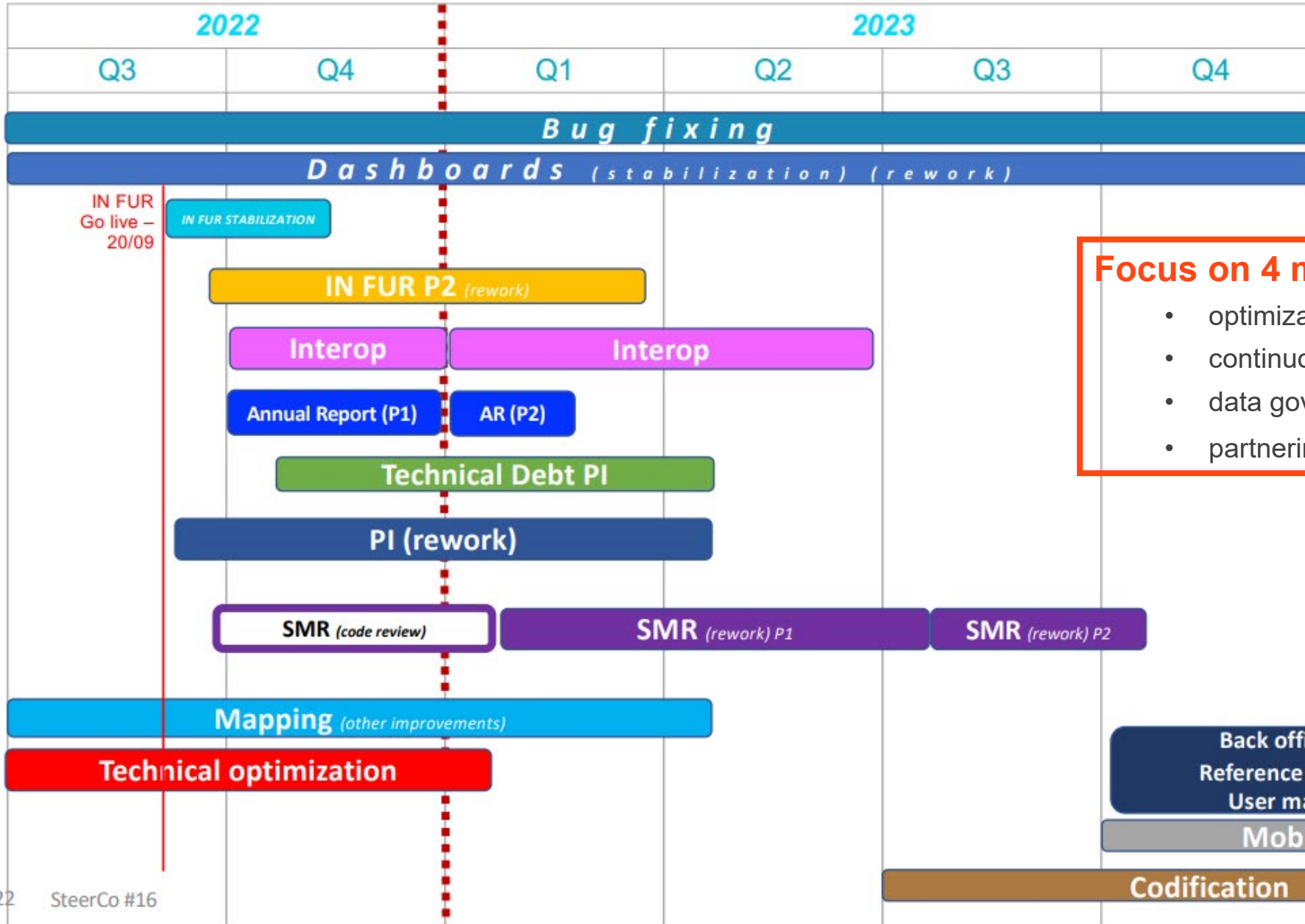
Intelliriver Source

Reference laboratories (OIE network)





WAHIS further development



- Focus on 4 main principles:**
- optimization and evolutive maintenance,
 - continuous improvement (new development)
 - data governance and consistency
 - partnering with global health



Additional information

- **WAHIS platform:** <https://wahis.woah.org>
- **User support provided via support desk** <https://wahis-support.woah.org/> **and training materials**
- **Guiding tour video:** <https://www.youtube.com/watch?v=M5PuNtcBh14>



- Legal obligation for animal diseases notification through WAHIS
- WAHIS is an early warning system & monitoring system; it provides other official national information on Veterinary Services
- With official validated information provided by WOAHA Members, WAHIS re-enforces its role as the reference database for animal and zoonotic disease information
- Focal points for animal diseases notification are a critical link between World Animal Health Information and Analysis department and Members
- WAHIS data gains value as an essential component of the big data approach through interconnection and combination with other external data
- WAHIS continue to be a key component of the global fight against animal and human diseases

Thankyou

12, rue de Prony, 75017 Paris, France

T. +33 (0)144 15 19 49

F. +33 (0)142 67 09 87

woah@woah.org

www.woah.org



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Organisation
for Animal
Health

Organisation
mondiale
de la santé
animale

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