



WORLD ORGANISATION FOR ANIMAL HEALTH  
*Protecting animals, preserving our future*

WEBINAR

## Regional Training of National OIE Focal Points for Wildlife

Intermediate cycle training  
round

20 - 25  
September | **2021**

**Paolo TIZZANI**

World Animal Health Information  
and Analysis Department

# Features and opportunities of the new OIE-WAHIS system, with regard to wildlife diseases



## Summary



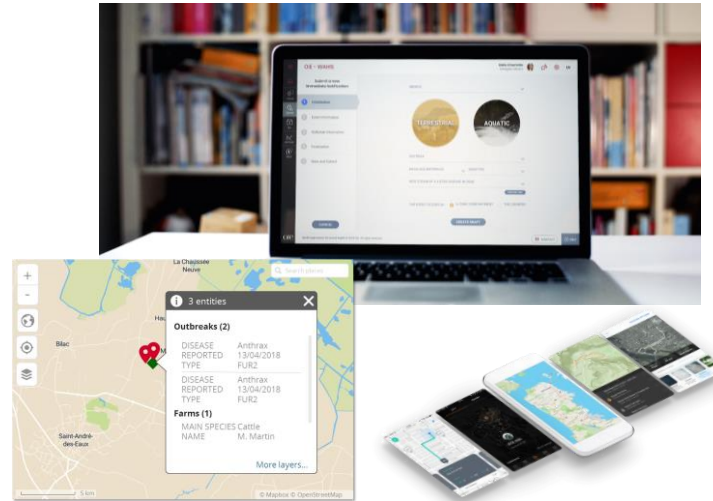
- Features and opportunities of the new OIE-WAHIS system
- Disease reporting and link to six-monthly reports
- Future strategy for reporting on non OIE-listed diseases
  - Disease prioritization
  - Technical disease cards on non OIE-listed diseases
  - Decision tree for reporting non OIE-listed diseases to the OIE
  - Excel table for data collection

# Summary



- **Features and opportunities of the new OIE-WAHIS system**
- **Disease reporting and link to six-monthly reports**
- **Future strategy for reporting on non OIE-listed diseases**
  - **Disease prioritization**
  - **Technical disease cards on non OIE-listed diseases**
  - **Decision tree for reporting non OIE-listed diseases to the OIE.**
  - **Excel table for data collection**

- User friendly, intuitive, time-efficient
- High resolution dynamic mapping
- Interoperability, integration and connectivity with other data and systems
- Open access of OIE-WAHIS data

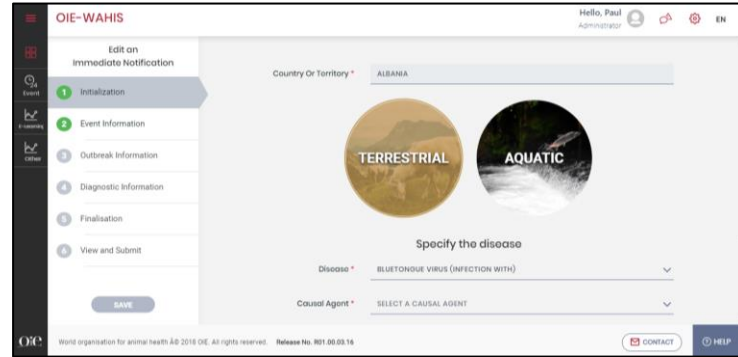


<https://wahis.oie.int>

Facilitating reporting, promoting the use of data




**OIE-WAHIS** : A modern and dynamic platform to report the animal health situation





9 March  
2021

## RELEASE 1

- Main Core Modules:  
Immediate notifications, 6 monthly reports, public interface
- Integration of historical data from 2005 (WAHIS) 
- E-learning



2021-2022  
and  
beyond

## TO BE RELEASED SOON

- Standard Interconnection
- Smartphone App
- Further bug fixes and evolutions

## FURTHER RELEASES

- Additional Core modules:  
Annual report, wild annual report, Public Wildlife Interface
- New module: Local report
- E-learning (*new modules*)
- Smartphone App (*new features*)
- Future innovations



## Better follow-up of events

- > Weekly FUR reports in one click



## 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

## New mapping system

## Display dynamic content

The screenshot shows the OIE-WAHIS interface. On the left is a sidebar menu with options: Home, Event, E-learning, and Other. The main content area is titled 'Edit an Immediate Notification' and has three steps: 1. Initialization, 2. Event Information, and 3. Outbreak Information. The central part of the interface is a map titled 'Identify the outbreak'. A popup window is open over the map, showing '3 entities':

- Outbreaks (2)**

DISEASE REPORTED TYPE	Anthrax
	13/04/2018 FUR2
DISEASE REPORTED TYPE	Anthrax
	13/04/2018 FUR2
- Farms (1)**

MAIN SPECIES	Cattle
NAME	M. Martin

At the bottom of the popup is a 'More layers...' link. The map shows various countries with colored markers representing outbreaks. A 'CONTACT' button and a 'HELP' button are visible at the bottom right of the interface.



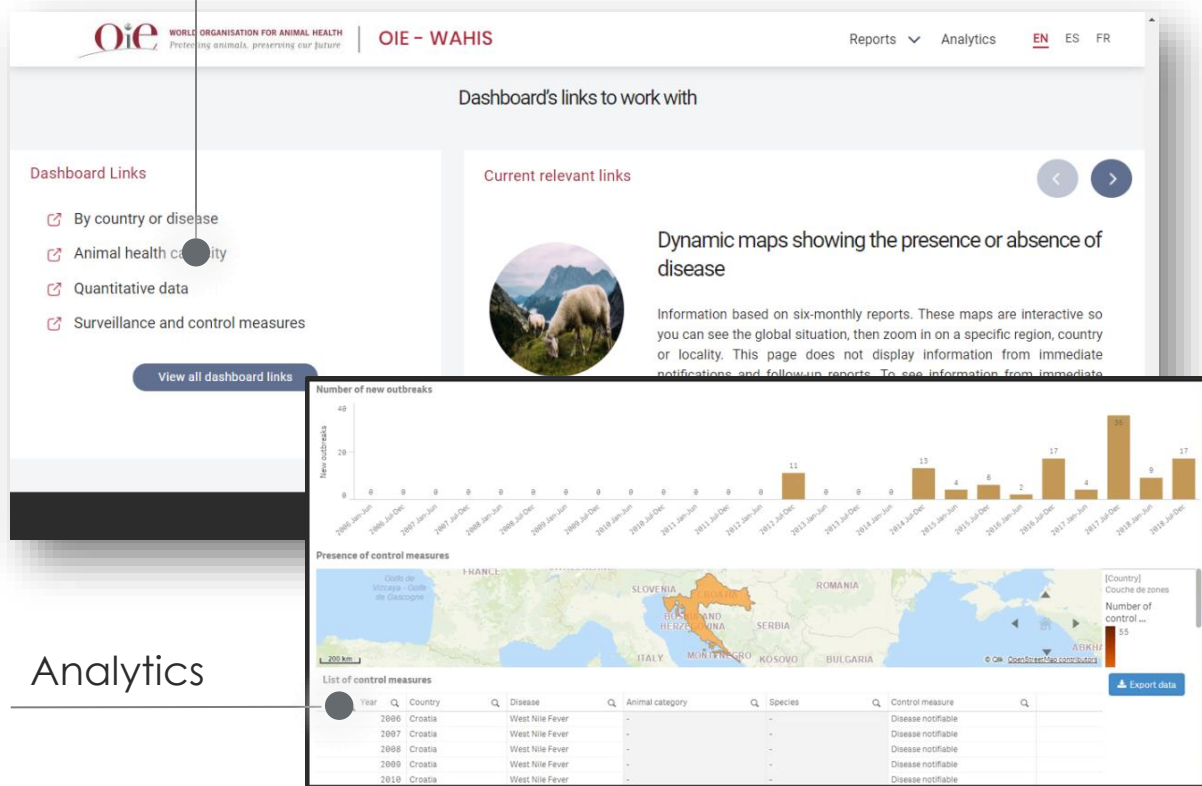
A dedicated interface for consulting users allowing for better visibility, exposure and transparency

> Standard report for country information available in one click (quick and simple)

> Pre-formatted and personalized dashboards

> National/regional animal health situations can be instantly monitored by consulting users

## Several dashboards



## Analytics



# Update on OIE-WAHIS module for wildlife

**Annual report on wildlife non-OIE listed diseases: development expected in 2022**

1 Initialization  
2 Editing  
3 Review  
4 Translation

Comments

GENERAL CONTROL MEASURES		B.WAR_03
Agent causing chronic wasting disease (CWD)		F.WAR_101
Infection with Babesia spp. (new or unusual occurrences)		B.WAR_02
Infection with Avian Paramyxoviruses (other than those listed by the OIE)		
Infection with Yersinia pseudotuberculosis		F.WAR_101
Infection with Baylisascaris procyonis		
Infection with Fasciola gigantica		
Infection with Yersinia pestis		
Infection with Borrelia spp.		F.WAR_14
Infection with Yersinia enterocolitica		
Infection with circoviruses		
Infection with Trichomonas spp. in birds and reptiles		
Infection with Toxoplasma gondii		
Infection with Theileria spp. (new or unusual occurrences)		
Infection with encephalomyocarditis virus		

**Terrestrial and aquatic**

N non OIE listed diseases

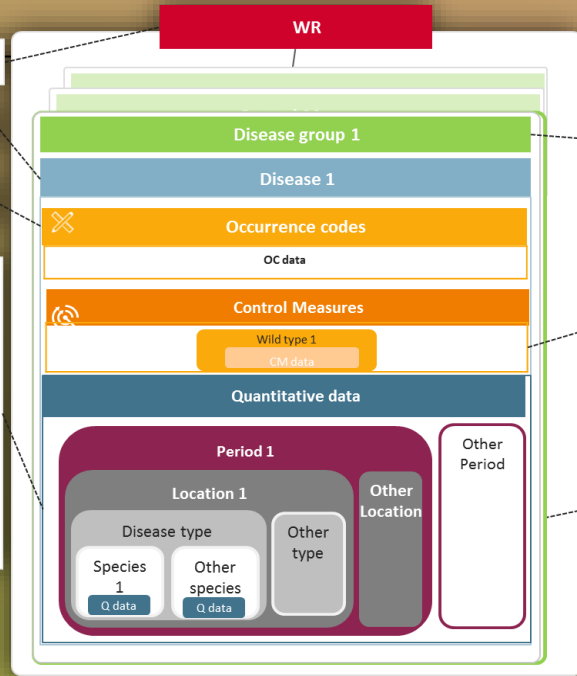
1 occurrence code for each disease

1 set of quantitative data based on:

- Reporting period
- Reporting location

Disease types can include strains.

Species are organized through different sub-levels. For example: wildtype / order / family / species



M disease groups

1 set of control measures data for each wild type for each disease.

The quantitative data are composed of:

- Measuring units,
- Susceptible,
- Cases,
- Deaths,
- ...

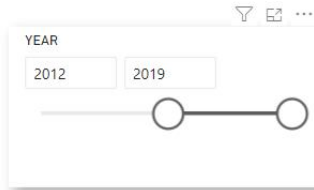
# Summary



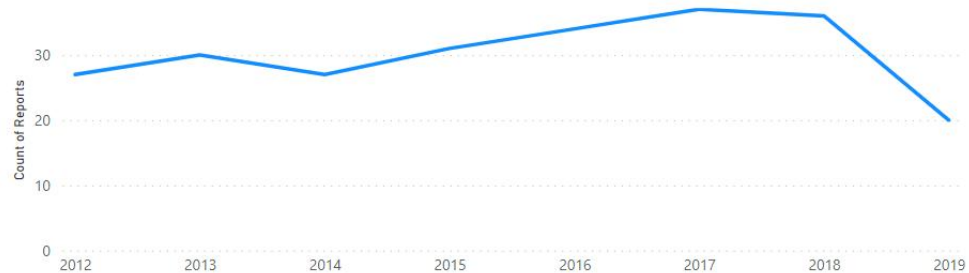
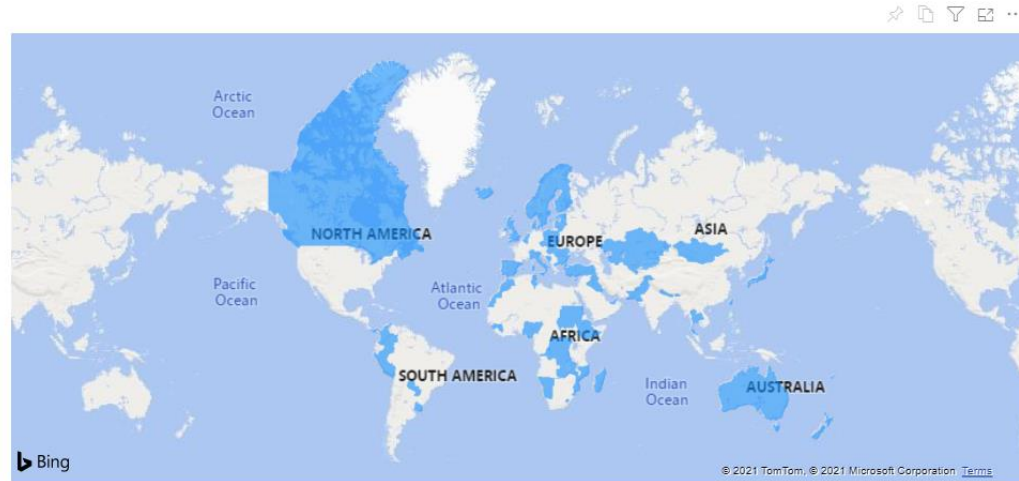
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# Disease reporting and link to six-monthly reports

## ANNUAL REPORT OF NO-OIE LISTED DISEASES IN WILDLIFE



YEAR	Number of reports
2017	37
2018	36
2016	34
2015	31
2013	30
2012	27
2014	27
2019	20
<b>Total</b>	<b>242</b>



# Summary



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# Disease prioritization

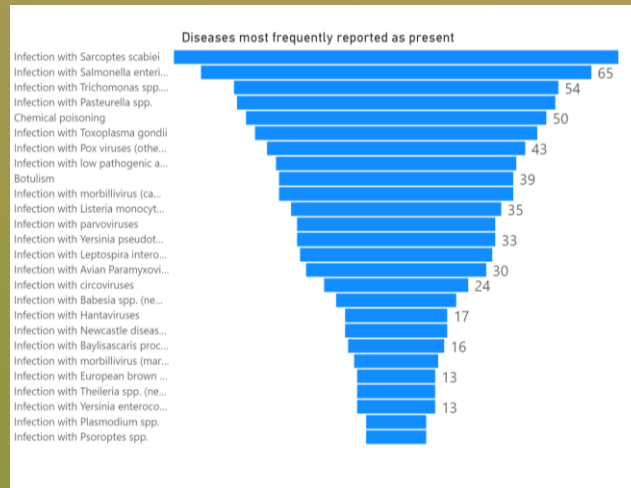
## Analysis of 3 years of WAHIS data (2017 – 2019)

### Disease status

### Reported diseases

### Disease surveillance

Disease name	Present	Absent	Noinfo
Agent causing chronic wasting disease (CWD)	3%	85%	11%
Algal toxicosis	5%	59%	36%
Botulism	29%	50%	21%
Chemical poisoning	28%	36%	36%
Equine influenza (wild equidae)	2%	77%	21%
Infection with Alcelaphine herpesvirus 1 or Ovine herpesvirus 2	1%	64%	35%
Infection with Avian Paramyxoviruses (other than those listed by the OIE)	21%	46%	33%
Infection with Babesia spp. (new or unusual occurrences)	17%	58%	25%
Infection with Baylisascaris procyonis	10%	66%	24%
Infection with Borrelia spp.	6%	57%	37%
Infection with circoviruses	21%	46%	33%
Infection with Crocodylpepox virus (Papillomatosis in crocodiles)	0%	64%	36%
Infection with elephant endotheliotropic herpesviruses (EEHV)	5%	60%	35%
Infection with encephalomyocarditis virus	3%	54%	44%
Infection with European brown hare syndrome virus	8%	67%	25%
Infection with Fasciola gigantica	4%	62%	35%
Infection with Fascioloides magna	5%	53%	41%
Infection with feline leukaemia virus (FeLV)	13%	57%	30%
Infection with filoviruses	3%	76%	22%
Infection with flavivirus (causing louping ill)	0%	63%	37%
Infection with flavivirus (causing tick borne encephalitis)	3%	64%	33%
Infection with Flavivirus (causing yellow fever)	1%	66%	33%
Infection with Hantaviruses	11%	56%	33%
Infection with Henipaviruses (Hendra viruses)	2%	61%	37%



Disease name	Active	Passive
Agent causing chronic wasting disease (CWD)	8%	41%
Algal toxicosis	1%	27%
Botulism	7%	37%
Chemical poisoning	4%	31%
Equine influenza (wild equidae)	1%	36%
Infection with Alcelaphine herpesvirus 1 or Ovine herpesvirus 2	2%	27%
Infection with Avian Paramyxoviruses (other than those listed by the OIE)	2%	27%
Infection with Babesia spp. (new or unusual occurrences)	1%	31%
Infection with Batrachochytrium salamandrivorans sp.	0%	20%
Infection with Baylisascaris procyonis	2%	29%
Infection with Borrelia spp.	1%	24%
Infection with Calicivirus in marine mammals	0%	24%
Infection with circoviruses	4%	27%
Infection with Crocodylpepox virus (Papillomatosis in crocodiles)	1%	26%
Infection with elephant endotheliotropic herpesviruses (EEHV)	1%	18%
Infection with encephalomyocarditis virus	1%	19%
Infection with European brown hare syndrome virus	1%	28%
Infection with Fasciola gigantica	1%	25%
Infection with Fascioloides magna	1%	24%
Infection with feline leukaemia virus (FeLV)	1%	29%
Infection with filoviruses	1%	32%
Infection with flavivirus (causing louping ill)	1%	26%
Infection with flavivirus (causing tick borne encephalitis)	1%	29%
Infection with Flavivirus (causing yellow fever)	1%	33%

# Technical disease cards

## Agent causing chronic wasting disease (CWD)

Agent causing chronic wasting disease (CWD)

[Technical disease card](#)



### CHRONIC WASTING DISEASE

[Aetiology](#) [Epidemiology](#) [Diagnosis](#) [Prevention and Control](#)  
[Potential Impacts of Disease Agent Beyond Clinical Illness](#) [References](#)

#### AETIOLOGY

##### Classification of the causative agent

Chronic wasting disease (CWD) is a contagious prion disease of free-ranging and captive deer, elk, and moose. The cellular prion protein (PrP<sup>C</sup>) serves as the normal host-encoded cellular prion protein. It is when PrP<sup>C</sup> directly binds to the misfolded isoform PrP<sup>Sc</sup> that PrP<sup>C</sup> adopts the disease-associated conformation. Normal prion proteins can be found most abundantly in the brain and spinal cord.

CWD is a member of the transmissible spongiform encephalopathy (TSE) family of prion diseases, and it is believed there are multiple strains within the United States as well as a strain unique to Norway.

##### Resistance to physical and chemical action

Temperature:	Highly resistant to heat and radiation (UV, microwave, ionising); inactivation by autoclaving at 134°C (273°F) for 18 minutes at 30 lb/in <sup>2</sup> is suitable, but parameters may vary pending type of sample contaminated.
pH:	Bioavailability of the CWD prion in soil is greater when pH>6.6.
Chemicals/Disinfectants:	Highly resistant to chemical inactivation and few disinfectants effectively inactivate them; primarily, 50% concentrated household bleach with a contact time of 30-60 minutes or sodium hydroxide for 60 minutes are recommended, but concentrations and contact times may vary pending the type of sample contaminated.
Survival:	Remains viable for long periods in fluids, faeces and tissues; persists in soil; partially resistant to protease digestion and can accumulate within neurones, eventually causing neuronal death.

#### EPIDEMIOLOGY

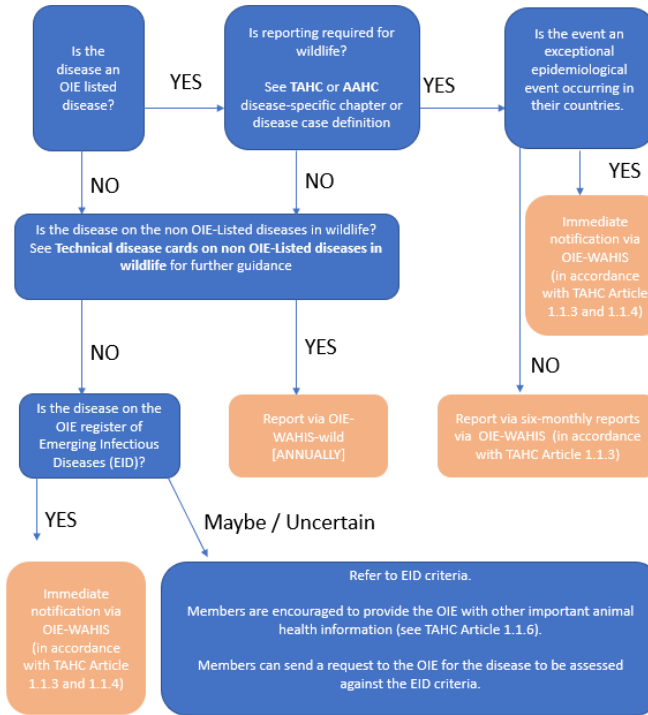
##### Hosts

- It is known to affect multiple cervid species including but not limited to: elk (*Cervus canadensis*), moose (*Alces alces*), mule deer (*Odocoileus hemionus*), white-tailed deer (*Odocoileus virginianus*), and reindeer (*Rangifer tarandus*).

##### Transmission

# Decision tree

## OIE Decision Tree for Reporting Terrestrial or Aquatic Wildlife Diseases



Tip 1: Reporting may be "blocked" for wildlife in OIE-WAHIS. Examples: Equine influenza & Newcastle Disease in wild animals can not be reported in OIE-WAHIS.

Tip 2: Some diseases are on the OIE list and the non OIE-List.. Reporting will be dependent on the pathotype/host species infected.







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# Thanks for your attention

If you have further questions, please contact  
us at: [information.dept@oie.int](mailto:information.dept@oie.int)

**Paolo TIZZANI**

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# OIE-WAHIS: Reporting to the OIE and training resources

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**Matteo MORINI**

**Madison WIMMERS**

World Animal Health Information  
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# CONTENTS

- Role of the Focal Point on Wildlife in disease reporting
- OIE-WAHIS reports
- OIE-WAHIS training resources

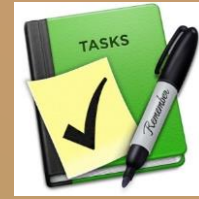


# CONTENTS

- **Role of the Focal Point on Wildlife in disease reporting**
- **OIE-WAHIS reports**
- **OIE-WAHIS training resources**



# Role of the Focal Point on Wildlife in disease reporting



Support collection and submission of wildlife disease information to the OIE:

- OIE-listed diseases in wildlife
- non-OIE listed diseases in wildlife

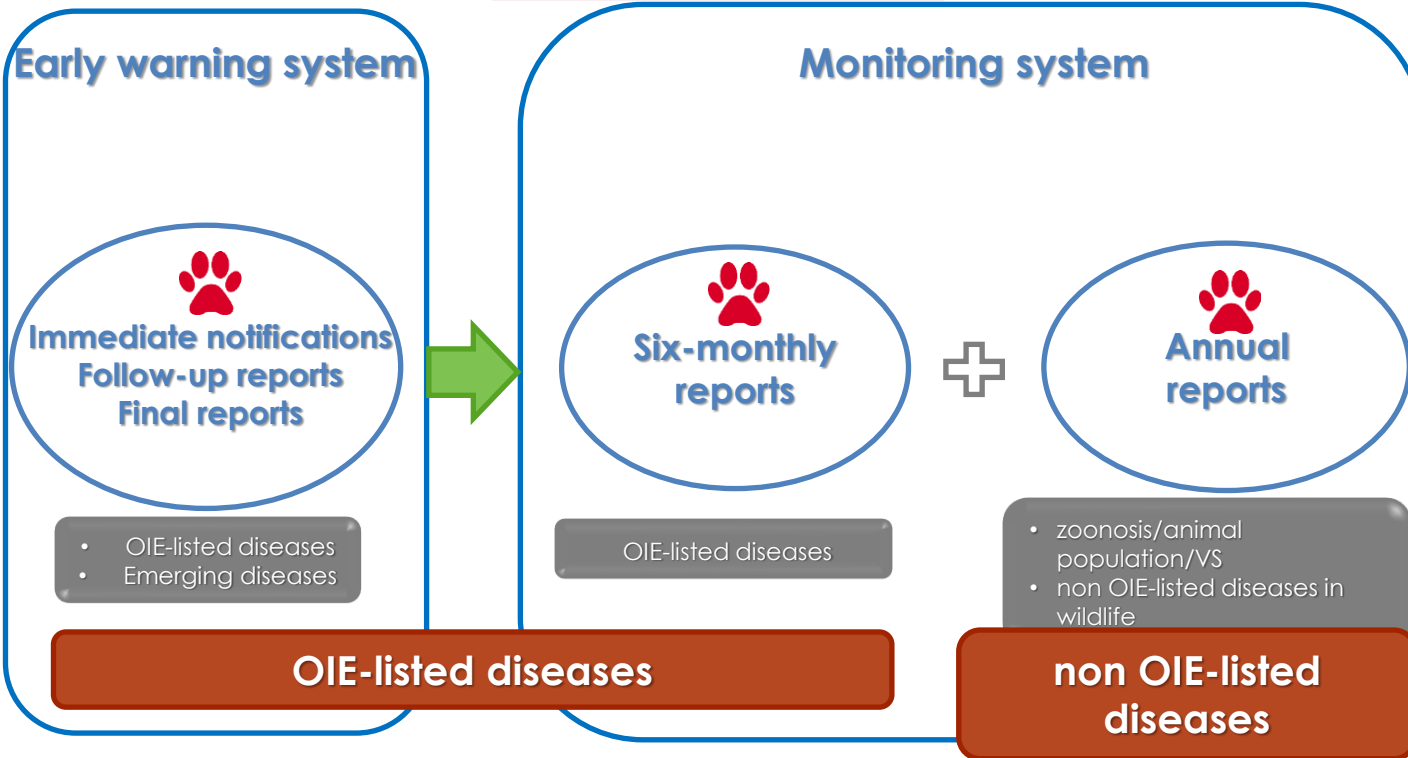
**Establish a network in the country**

# CONTENTS

- Role of the Focal Point on Wildlife in disease reporting
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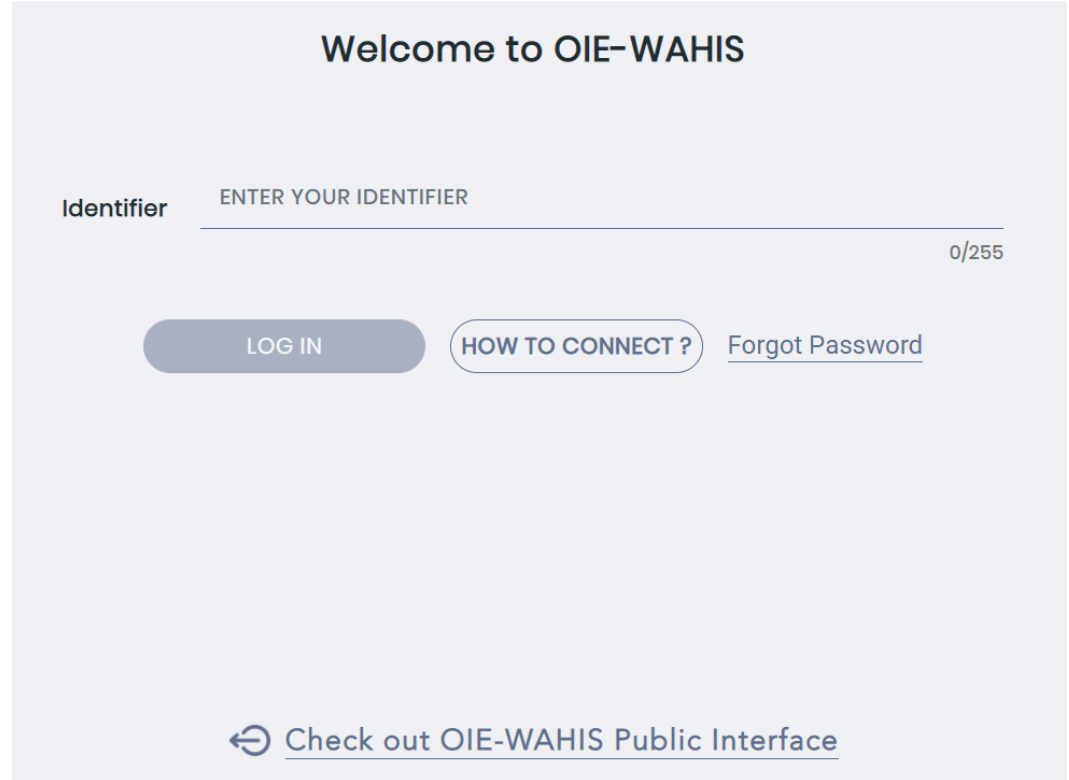


# OIE-WAHIS



# How to access OIE-WAHIS?

<https://wahis.oie.int/#/login>



The screenshot shows the OIE-WAHIS login interface. At the top, it says "Welcome to OIE-WAHIS". Below this is a form with a label "Identifier" and a text input field containing the placeholder "ENTER YOUR IDENTIFIER". To the right of the input field is a character count "0/255". Below the input field are three buttons: a dark blue "LOG IN" button, a light blue "HOW TO CONNECT ?" button, and a link "Forgot Password". At the bottom of the page, there is a link with a back arrow icon: "Check out OIE-WAHIS Public Interface".



# CONTENTS

- Role of the Focal Point on Wildlife in disease reporting
- OIE-WAHIS reports
- OIE-WAHIS training resources



# Notification procedures

- Harmonised with the Codes
- Available on the OIE Delegate website and OIE-WAHIS

If you need these procedures:

Contact us: [information.dept@oie.int](mailto:information.dept@oie.int)



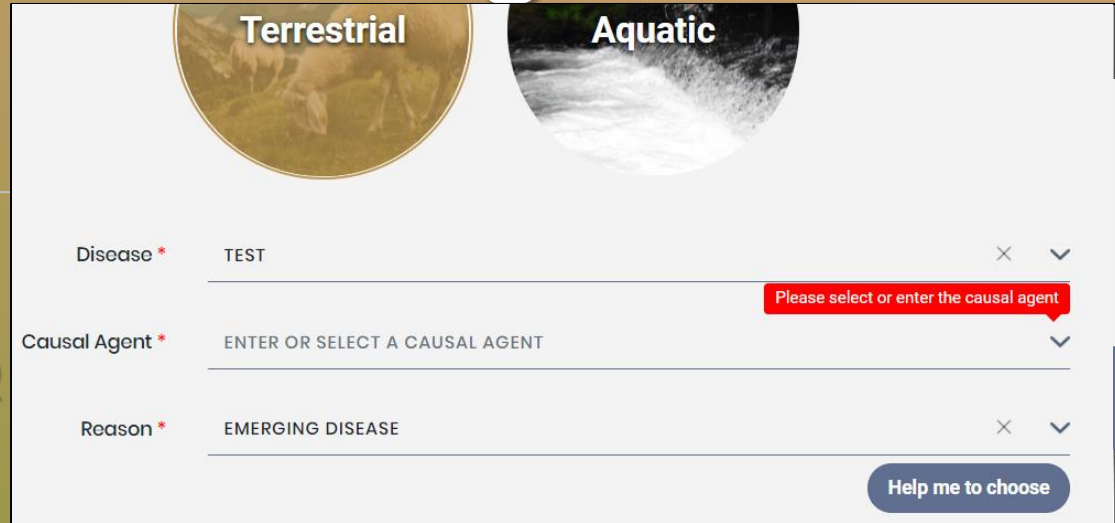
# OIE-WAHIS training resources

- User guide
- Tooltips
- E-learning
- Face to face training co
- Direct support wahis-sup



# OIE-WAHIS training resources

- User guides
- Tooltips & FAQ
- E-learning
- Face to face training courses & webinars
- Direct support ([wahis-support@oie.int](mailto:wahis-support@oie.int))



The screenshot displays the OIE-WAHIS search interface. At the top, there are two circular icons: 'Terrestrial' (showing a herd of animals) and 'Aquatic' (showing a waterfall). Below these are three search fields:

- Disease \***: Contains the text 'TEST'. To the right of the input field are an 'x' icon and a dropdown arrow.
- Causal Agent \***: Contains the text 'ENTER OR SELECT A CAUSAL AGENT'. To the right is a dropdown arrow. A red tooltip message 'Please select or enter the causal agent' is visible above the field.
- Reason \***: Contains the text 'EMERGING DISEASE'. To the right are an 'x' icon and a dropdown arrow.

At the bottom right of the form is a blue button labeled 'Help me to choose'.

# OIE-WAHIS training resources

- User guides
- Tooltips
- E-learning
- Face to face training courses
- Direct support [wahis-support@oie.int](mailto:wahis-support@oie.int)



(EN) 2 - Immediate Notification

This module will take around 3 hours to complete.



(EN) 3 - Follow-Up Report

This module will take around 3 hours to complete.



(EN) 4 - Six Monthly Report

This module will take around 3 hours to complete.



Detailed practical exercises  
Case studies  
Bonus data entry exercises

# OIE-WAHIS training resources

- User guides
- Tooltips
- E-learning
- Face to face training courses & webinars
- Direct support ([wahis-support@oie.int](mailto:wahis-support@oie.int))

# Conclusions

- OIE-listed and non OIE-listed diseases
- OIE-WAHIS training resources
- We still need you...



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