

# FAO: Using the EIOS system to monitor and track animal and zoonotic diseases

Cristina Rojo Gimeno, Julio Pinto, Fairouz Larfaoui

FAO AGAH/GLEWS Team, Animal Health Service, Food and Agriculture Organization of te United Nations Headquarters



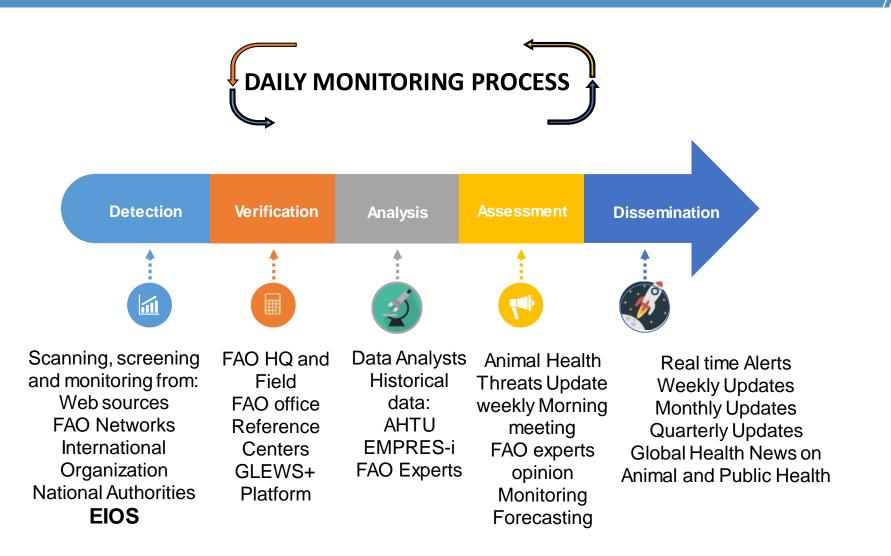
#### FAO Animal Health Service (AGAH) mandate:

FAO works with countries to develop capacity to **prevent**, **detect**, **respond** and recover from high-impact animal diseases, zoonoses, and other threats of animal origin.

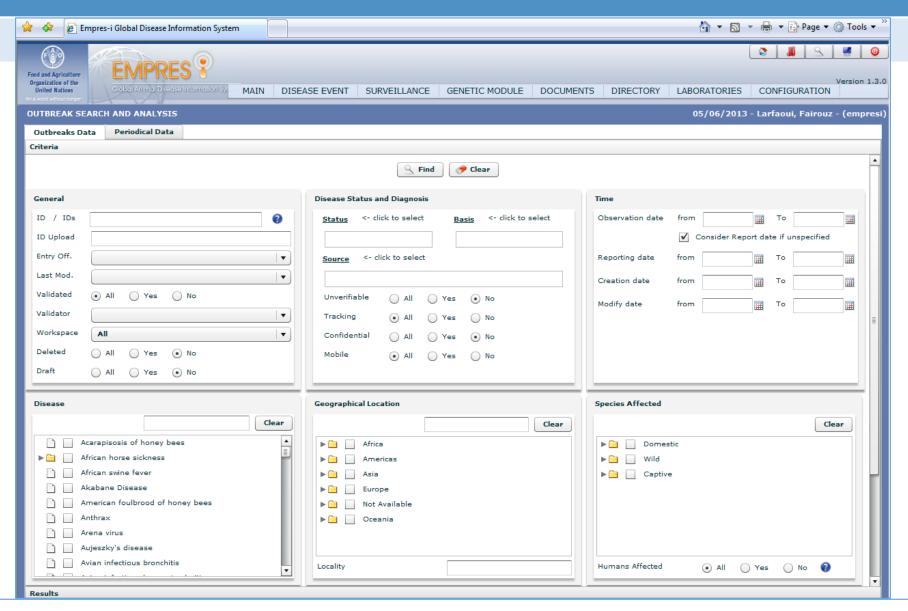
Protecting livestock against diseases and preventing their spread is one of the keys to fighting hunger, malnutrition and poverty



## Disease Intelligence Workflow



### **Global Animal Disease Information System – EMPRES-i**



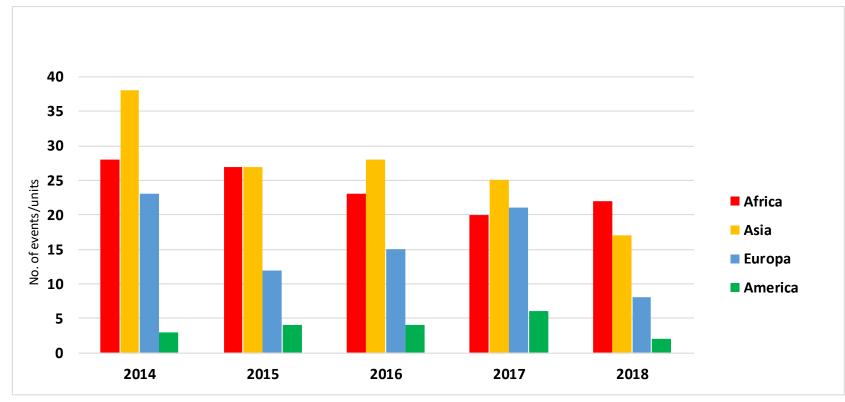
### **Global Animal Disease Information System – EMPRES-i**

#### Number of events recorded in EMPRES i

100 000 records (AI, RVF, ASF, FMD and more);

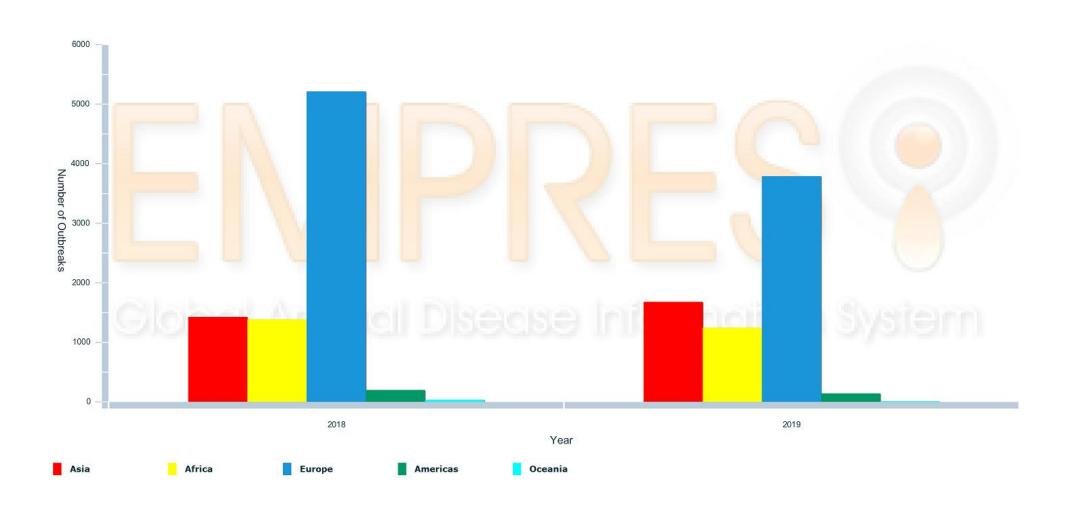
- ✓ 100 Diseases
- ✓ 189 countries

Disease status of events monitored (2010-2018)



### **Global Animal Disease Information System – EMPRES-i**

#### Number of events recorded in EMPRES i



## Priority diseases that are monitored and tracked

Rift Valley Fever

Unknown disease

African Swine Fever

Lumpy Skin Disease

Peste des Petits Ruminants

Foot-and-Mouth Disease

Avian influenza

Middle East Respiratory Syndrome Coronavirus Virus

any new emerging disease event (e.g. Ebola in a new affected country)

### **Information Sharing - Global**

#### Global – Disease Updates

- ✓ Animal Health Threats Update
- ✓ Global Health News on Animal and Public Health
- ✓ Real-time alerts (Rift Valley Fever, African Swine Fever, Highly Pathogenic Avian Influenza, Foot-and-Mouth disease)
- ✓ Food Chain Crisis Early Warning Bulletin
- ✓ Early Warning Early Action Bulletin

#### Global- Collaboration to FAO AGAH reports/updates

- ✓ Middle East Respiratory Syndrome Coronavirus situation Update
- ✓ Global and Regional AI Updates (Sub-Saharan Africa HPAI; H5N8 HPAI; H7N9)
- ✓ Risk Assessment (RVF)
- √ Focus On
- ✓ EMPRES Watch



## FAO community in EIOS



## GLEWS + community- Tripartite

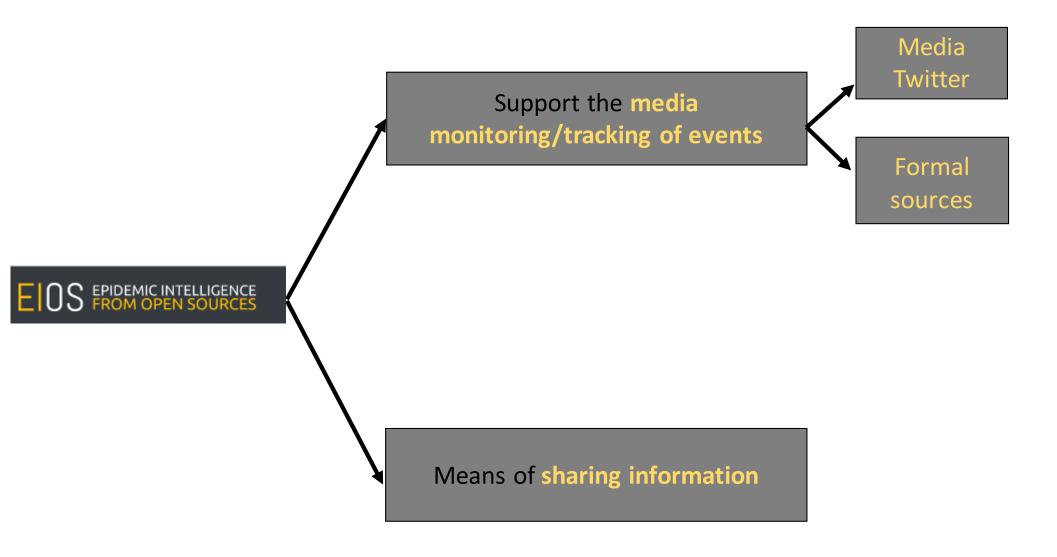
## GLEWS + community (15 users)



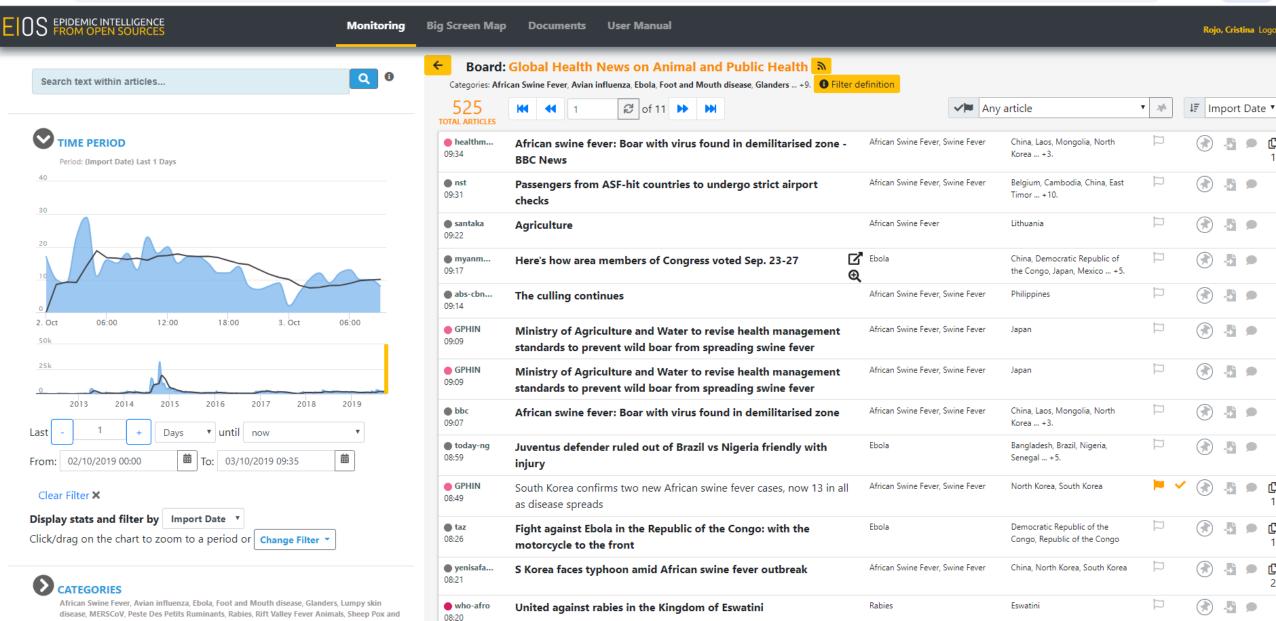




### **Epidemic Intelligence from Open Sources (EIOS)**

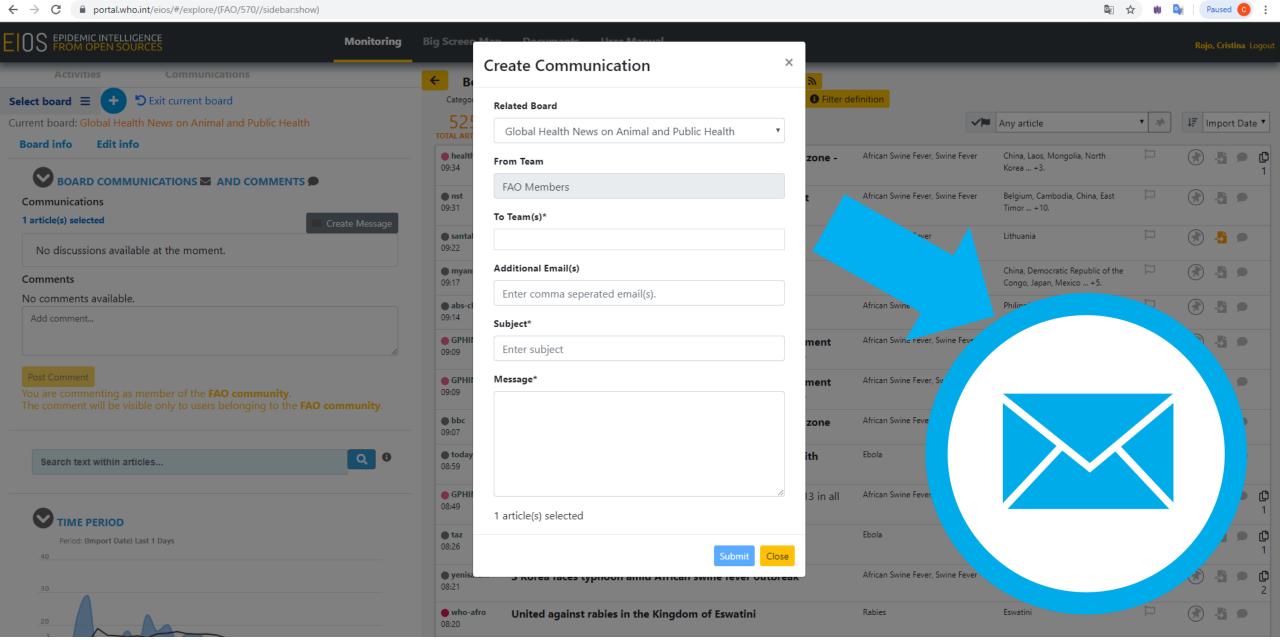






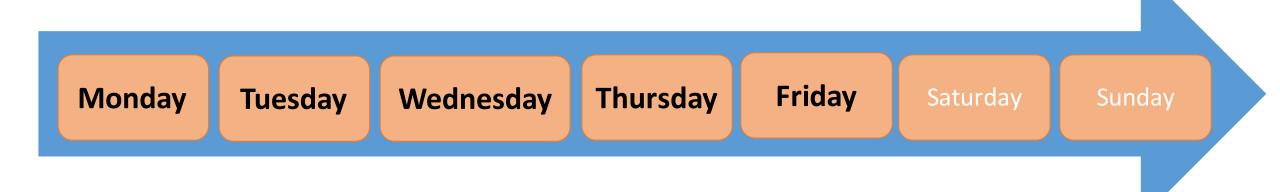
Goat Pox, Unknown Disease Animals, Foot and Mouth disease, Rabies

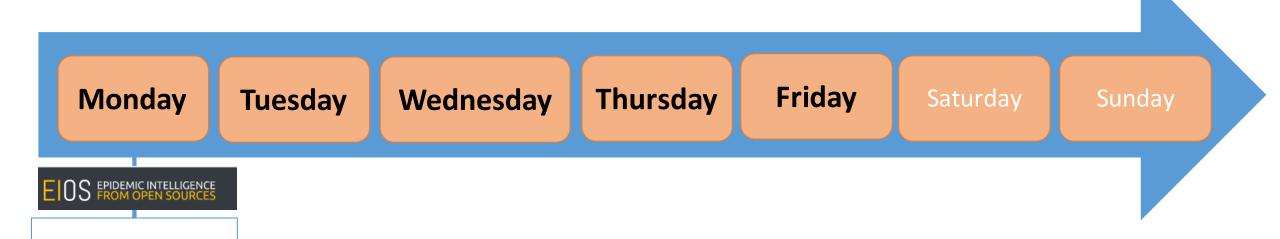




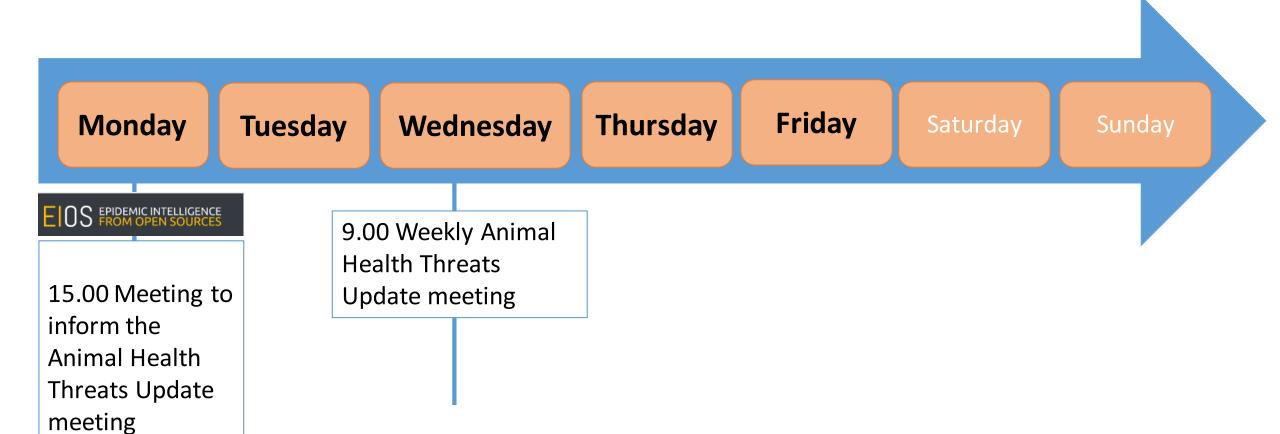
## Daily activities with EIOS

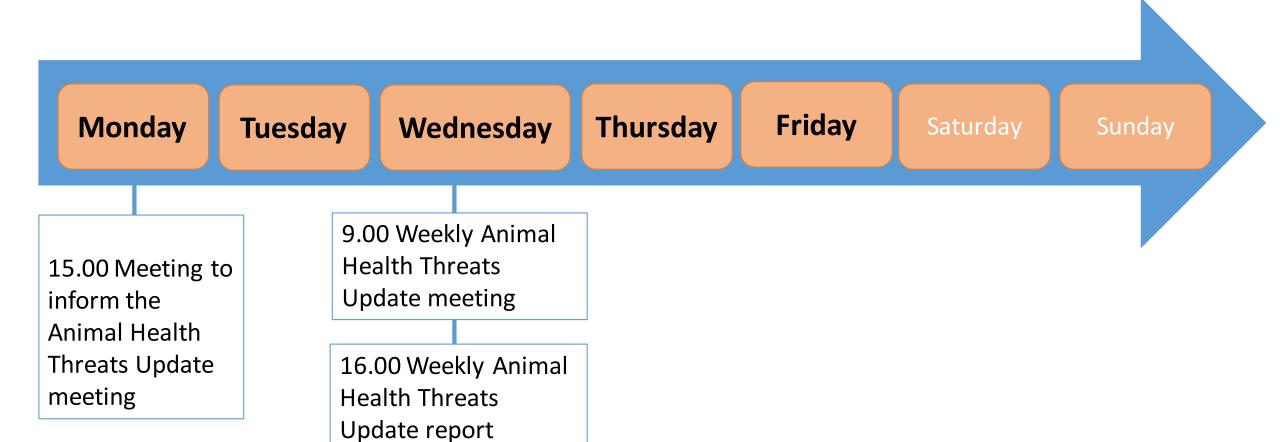
- Monitor daily 10 boards capturing information about priority diseases and also unknown diseases
- New boards are created when a new signal is detected in a particular country (e.g. African swine fever Thailand)
- Flagging relevant articles and pinning to boards to follow up
- Sending communications to members of the GLEWS team with attached articles
- Production of reports with articles to inform weekly Animal Health Threat Update Meeting and Global News on Animal and Public Health
- Verification of signals and/or sharing information with other experts at FAO and regional and country offices and partners

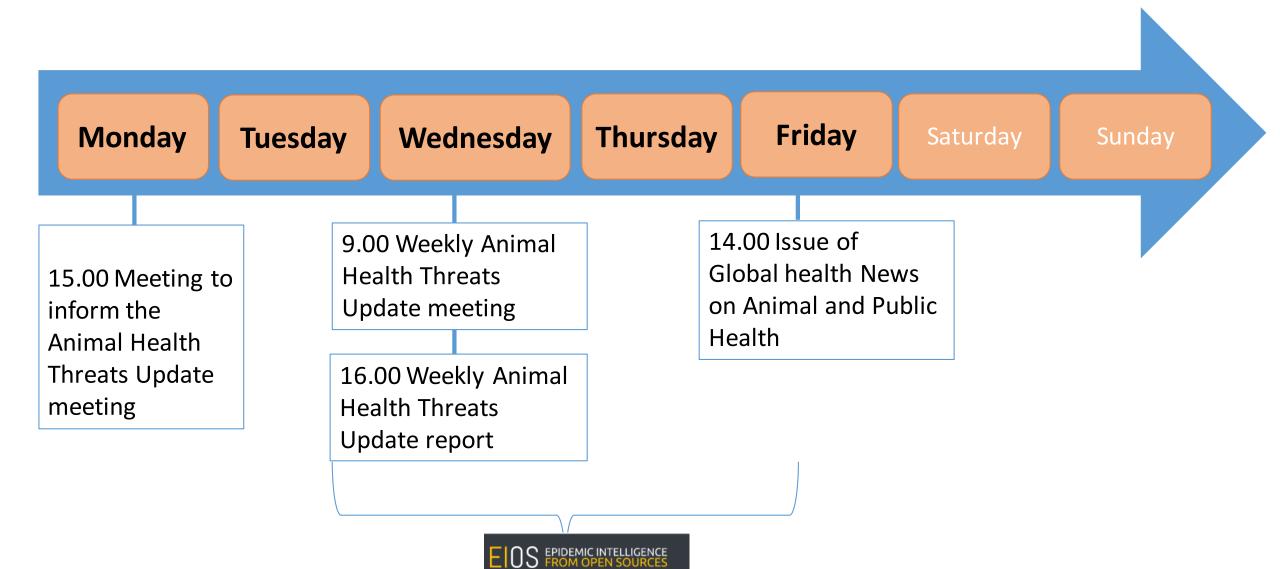




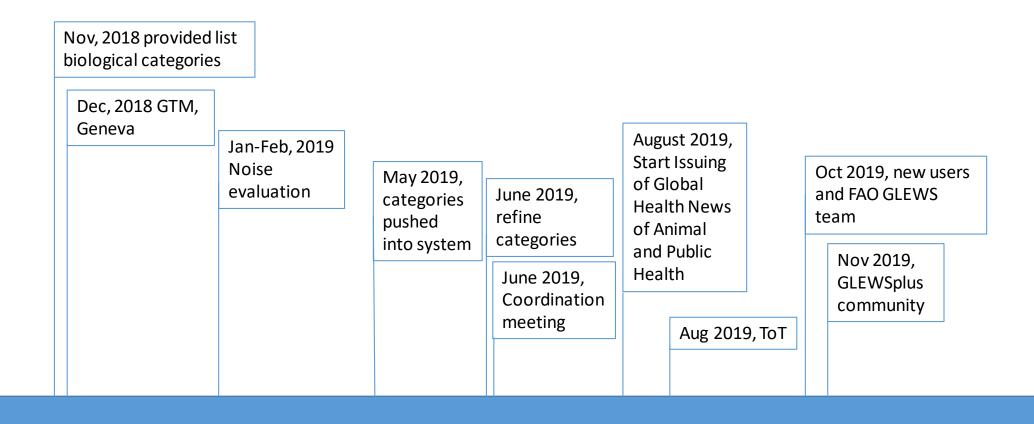
15.00 Meeting to inform the Animal Health Threats Update meeting







### Milestones of the experience with EIOS



2017

## Acknowledgements

- Thanks to Elisa Palamara, Mirko Bruni,
- Thanks to the EIOS core team for the support to participate in the 2019 EIOS Global Technical Meeting

# Thank you



Protecting people, animals, and the environment everyday

Contact: <a href="mailto:Cristina.rojo@fao.org">Cristina.rojo@fao.org</a>

FAO Global Early Warning System: FAO-GLEWS@fao.org