

FAO work in Eastern Europe: tools and practical lessons for the Americas

10th Meeting of the Regional Steering Committee of the GF - TADs for the Americas

Daniel Beltran-Alcrudo & Mark Hovari
FAO Regional Office for Europe and Central Asia, Hungary

Panama, 17 September 2019



Coordination in Europe - First there were *Ad hoc* meetings

- 3-4 Feb 2011, EU-FMD & GFTADs, Budapest, Hungary:
 1st Veterinary Forum for South East Europe
- 21-23 Mar 2011, Kyiv, Ukraine: Cross-border cooperation between veterinary services (Russian Federation and Ukraine) for ASF control and prevention
- 4-5 Dec 2012, Budapest, Hungary: Threat of ASF spread in Eastern Europe: Urgent need for international collaboration under GF-TADs Europe
- 22 Sept 2014, Bern Switzerland Standing Group of Experts on African swine fever in the Baltic and Eastern Europe Region





Standing Group of Experts on ASF in Europe (SGE ASF)

- http://web.oie.int/RR-Europe/eng/Regprog/en_GF_TADS%20-%20Standing%20Group%20ASF.htm
- Since 2014
- Under the GF-TADs
- Comprises decision makers, experts, EC, OIE and FAO
- Main objective is to strengthen mid-term regional cooperation through:
 - Regular exchange of information on ASF situation and control measures
 - Regular review of national control strategies with a view to harmonize control policies and building a regional control strategy
 - Collaboration on lab diagnostics
 - Collaboration on awareness raising campaigns in affected countries
- Thematic meetings every few months (12 so far)





Technical Cooperation programs (TCPs)

- 1-2 years
- ≈ USD 300,000-500,000
- Most common activities:
 - Trainings
 - Purchase of equipment
 - Awareness (leaflets/booklets)
 - Surveillance
 - Small research projects
 - Legislation and regulatory issues
 - Decision support tools
 - Simulation exercises
 - Information systems







Technical Cooperation programs (TCPs)

Finalized:

- National TCPs: Georgia, Armenia, Ukraine, Belarus
- TCPf: Moldova (2016-17)

Ongoing:

- Emergency Regional TCP in the Balkans (2018-2020)
- Regional TCP in South-East Asia
- TCPf Kosovo* (2019-2021)



Emergency Technical cooperation project in the Balkans

- Target countries: Albania, Bosnia and Herzegovina, Montenegro, North Macedonia and Serbia
- Plus a parallel project with the same objectives in Kosovo*
- Objective: Increase prevention and preparedness
- Timeline: Nov 2018 Nov 2020 (24 months)
- There is room for flexibility





(Belgrade, 18-21 March 2019)

- Major objectives:
 - To present the project objectives, outputs and activities
 - To discuss and fine-tune the project activities and timeline, in synergy with ongoing activities at country level
 - To provide training on key aspects of ASF prevention, preparedness and control
 - To establish a baseline in terms of preparedness and risk pathways:
 - ASF preparedness checklist (to guide discussions on preparedness and gaps)
 - Rough assessment of the risk of introduction of ASF into each country through each of the major pathways







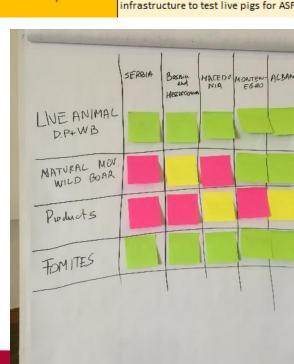


Emergency Preparedness Checklist for African swine fever

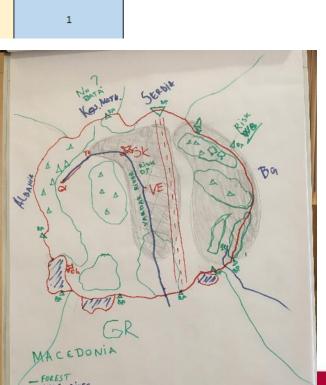
For each statement, indicate the status: Yes (green), In progress/Ongoing (yellow), No (red), Unknown (white)
List the gaps, the necessary actions to undertake, the responsible office(s) to follow up the action and provide a deadline for completion.

	Does your country have the following preparedness measures in place to manage the disease?	Status	Gaps	Actions	Responsible office(s)	Deadline
1	Requirement for veterinarians, paraprofessionals, farmers, and others to report suspected cases in place.	Neni 19 I ligit per sh/veterinary Urdheri nr335, date 3.12.2012. Per miratimin e modelit te formularit te laimerimit te semundieve ne kafshe.			Estmetet, Veterioetet edisat, veterioetet zvitare dhe AKompetent	
2	Protocol and framework support (such as a reporting hotline/website) for reporting suspected cases from the field to the CVO in place.	Ectnulari A dhe B I raportimit te semundiexe.Sitemi alert i Raportimit ne Ruda. Nr telefoni jeshil per informimin e AK.			Extracet Veterineret erixat veterineret zwitare specetoret e sistemit "RUDA" dhe Autoriteti Kompetent	
3	Local animal health officers stationed throughout the country to respond to suspected cases or to outbreaks.	Agjensite Rajonale te sherbimit veterinar dhe mbrojtjes se bimeve mbulojne gjithe territorin e vendit.			Sherkimi veterinary raismal Veterineret e autorizuar	
4	Framework and mechanism for rumor tracking in place.	Ligij nr.10465, date 29.09.2011 "Per sherbimin veterinary ne RSH.			Autoriteti competent ARSH&MB	
5	National surveillance and laboratory framework to collect and package samples for analysis in place.					
6	National incident management system and framework in place to respond (To include rapid response teams, incident command, and incident coordination through an animal health emergency operations center).	Plani Kontigjences per kontrollin e MKD e MAD				
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No	Questions	Weight	Criteria	Answer	Risk level	
1	Does your country officially import live pigs or live wild boar from currently infected countries?	1	Yes = 1 No = 0	0	Low	
2	Is there a value chain of live pigs study/available? (this question will not be considered for risk profiling)		Yes No	0		
3	How many pigs or wild boar have been officially imported during the past year from the infected countries? (this question will not be considered for risk profiling)		Value	0	no zones accepted in infected countries. Pl	
4	Is the health status of the source farms/imported pigs known and acceptable?	1	Yes = 0 No = 1	0	yes, very rigid one. Blood testing, certifical	
5	Which quarantine measures are applied in your country for imported pigs? - A. No quarantine - B. Quarantine < 7 days - C. Quarantine > 7 days or ASF laboratory testing	1	A = 1 B = 0.5 C = 0	0		
6	Are there veterinary inspectors who have been trained on ASF at border inspection points?	0.5	Yes = 0 No = 1	0		
7	Do the border inspection points have the capacity and infrastructure to test live pigs for ASF?	0.75	Y = 0 N = 1	1		
LNE ANIMAL D.P+WB NATURAL MOV WILD BOAR				Les Justs	Stepht Boy	









1.1: Assessment missions

Missions	Dates
Serbia	8 – 10 May 2019
Bosnia and Herzegovina	19 – 20 June 2019
Montenegro	10 – 11 September 2019
Kosovo*	18 September 2019
N. Macedonia	Week of 14 October 2019
Albania	TBD





- Assessing detection, prevention and preparedness of the competent authorities
- Risk assessment on entry and spread
- Recommendations for improvement (reports)
- Will be followed by preparedness simulation exercises in each country



2.3 Train-of-trainer programs

Missions	Dates	Participants
Bosnia and Herzegovina	18 June 2019	Bosnia and Herzegovina (5), Serbia (3) and Montenegro (3)
Kosovo*	17 September 2019	Albania (3), Kosovo* (5) and North Macedonia (4)

- One day intensive training of Core Trainers (by FLI)
 - Course assessment
 - Materials handed out to participants in Serbian & Albanian
- Core trainers to replicate in their countries





2.2 On-line Training Course

- Under development
- Material created by FAO & FLI experts
- Collaboration with EuFMD to convert materials to on-line content
- Pilot training course in English with 120 participants planned before end of the year
- Serbian translation and roll out of the course is planned after the pilot

MODULES

Brief Introduction to ASF (Module 1)

The disease in domestic pigs and wild boar (Module 2)

Laboratory diagnosis (Module 3) followed by joint discussion

Epidemiology and epidemiological investigation (Module 4)

Prevention and biosecurity (Module 5)

Response and Control (Module 6)

ASF in wild boar (Module 7)

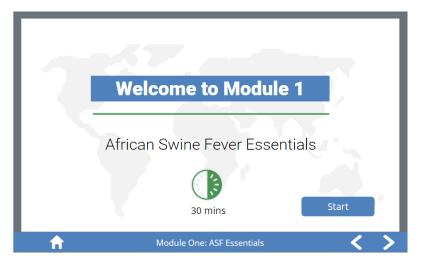


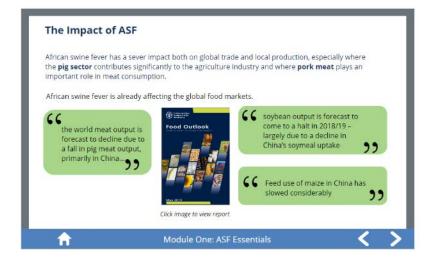


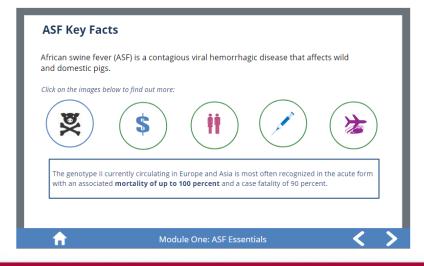


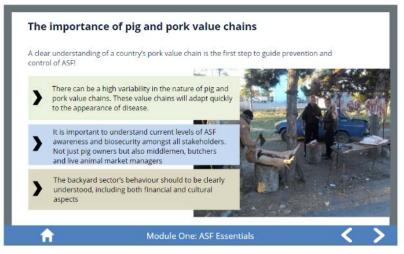


2.2 On-line Training Course











2.4 Workshops on wild boar and hunting biosecurity

Missions	Dates	
Serbia	24 May 2019	
Montenegro	19 - 20 September 2019	
Kosovo*	26 - 27 September 2019	
N. Macedonia	Week of 14 October 2019	
Bosnia and Herzegovina	TBD	REDIMI MOTE A PRO MI DUAL CAMERA



- Strategic round table discussions with all stakeholders (vet services, competent authority on wild boar management/hunting, and hunters)
- Sharing experience managing ASF in wild boar
- Awareness raising for hunters and capacity building on hunting biosecurity
- Recommendations for improvement (reports)



Regional African Swine Fever (ASF) Wild Boar Management Workshop (Balkan-focused)

- Belgrade, Serbia, 21-23 May 2019
- Sponsored by the Czech Republic
- Participants:
 - state vet services from the Balkans, plus countries with ASF experience (Czech Republic, Georgia, Hungary, Lithuania, Russia and Ukraine)
 - agencies in charge of wild boar management, hunting
 - hunting associations
 - experts in wild boar biology or related fields
 - international agencies (OIE and EFSA)
- Objective: To improve participants knowledge and discuss in an open forum the most challenging issues faced when it comes to ASF prevention and control in wild boar and the best strategies to tackle them in the specific context of the Balkans.
- http://www.fao.org/europe/events/detail-events/en/c/1194316/



Regional African Swine Fever (ASF) Wild Boar Management Workshop

Theory (2 days) + Practice (1 day in a hunting ground)





4.1 Awareness and technical materials are developed and adapted

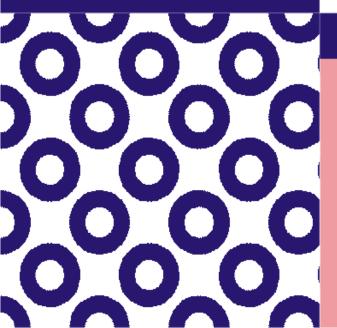
- http://www.fao.org/index.php?id=94206
- Fully editable format (PowerPoint) that allows to quickly adapt, translate, add logos, change pictures, etc. when faced with an animal health emergency.
- The leaflets are now available in English, Bosnian, Bulgarian, Montenegrin, Serbian.
- Additional languages and formats (e.g. posters and videos) will be uploaded as they become available.

What can hunters do to prevent the spread of the disease?

In at risk areas, hunters should look out for dead or sick wild boar and notify immediately to [ENTER TELEPHONE NUMBER]. Each dead wild boar should be reported and ASF ruled out by laboratory diagnostic tests.

In affected areas, wild boar products, leftovers and trophies pose a significant risk of being infected. This is why all hunters are required to place particular emphasis on hygiene measures when hunting in affected areas:

- Do not leave any leftovers from the hunted wild boar in the forest.
- Avoid getting in contact with pigs after hunting a wild boar.
- Ensure that the clothes worn, tools and equipment used (e.g. knives, car) that may be contaminated by blood while hunting are cleaned and disinfected and don't get in contact with pigs.



What should people who raise pigs do to protect their pigs?

- Left-overs fed to pigs that may contain meat (i.e. swill feeding) should be boiled before.
- If you notice any clinical signs, including sudden death in your pigs, you should immediately report it to the [ENTER OFFICAL NAME OF VETERINARY SERVICES].
- Pigs should be kept indoors all the time, not allowing them to comingle with other pigs or wild boar.
- Buy your pigs from a trusted source and keep them separated from your animals during two weeks (quarantine).
- Avoid unnecessary visitors getting in contact with your pigs.

Is there a vaccine or treatment?

No vaccine. No effective treatment either.

Bringing back meat products from other countries can result in the spread of the disease

To prevent the incursion of ASF and other animal diseases, do not bring back home meat or meat products from other countries, particularly those infected with ASF.

Travelers should always make sure that food waste is only discarded in closely sealed waste containers where pigs and wild boar will have no access.

Go to http://www.fao.org/3/a-i7228e.pdf for additional information. [CHECK NEXT LINK IF YOU NEED THE MANUAL IN A DIFFERENTLANGUAGE: http://www.fao.org/documents/card/en/c/bd35c569-752e-4b57-892e-e3e2e0ee0c9c/]





What is African Swine Fever (ASF)?

African swine fever (ASF) is a contagious viral disease of pigs and wild boar that causes severe economic losses to the pig sector. Originally restricted to Africa, it was introduced into Georgia in 2007, from where it spread westwards (reaching Eastern and Central Europe) and eastwards within Europe. The disease has now been reported in China, seriously threatening countries in East and Southeast Asia.

How is the disease transmitted?

Wild boar and pigs can infect each other by direct contact, particularly when blood is present.

Healthy animals can also get infected when they consume undercooked pork products, either while scavenging or when fed uncooked swill. They can also become infected by feeding on infected pork or carcasses, or through contaminated tools and equipment (clothes, needles, vehicles, etc.).



Cyanosis (bluing) at the tips of ears

Which animals can be affected?

The ASF virus exclusively infects suids, e.g. pigs and wild boar.

Can humans be infected with the virus?

No.

What causes ASF?

The disease is caused by a virus that is very resistant and can survive for long periods, even months, in feces, meat products (frozen, salted and smoked or undercooked), and carcasses of dead animals. The virus, however, can be killed with several disinfectants such as 1% formaldehyde, 2% NaOH or paraphenylphenolic disinfectants.

What are the clinical signs of the disease?

Infection can cause a wide range of clinical signs. Sick pigs usually die.

In the backyard sector, pigs show a lack of appetite followed by sudden death. Rarely other clinical signs are observed.

In commercial farms, you may also see depression, weight loss, hemorrhages in the skin (tips of ears, tail, legs, chest and abdomen), lameness and abortion in pregnant sows.

Clinical signs may be more difficult to see in wild boar because of their long dark hair.



Bloody diarrhoea and distinct hyperaemic (red) areas on skin of neck, chest and extremities



Haemorrhagic lymph node



Enlarged spleen

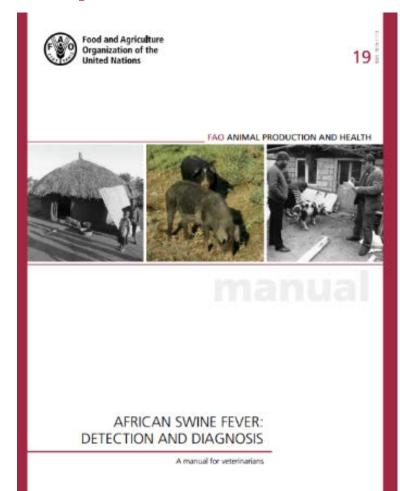


4.1. Awareness and technical materials are developed and adapted

Recognizing ASF - A Field manual

http://www.fao.org/documents/card/en/c/bd35c569-752e-4b57-892e-e3e2e0ee0c9c/

- Translated to Albanian
 Macedonian and Serbian
- Copies printed and distributed to all Balkan countries





GF_TADs Manual on African Swine Fever in wild boar – ecology and biosecurity

- Technical, but practical
- Compendium of information about hunting management, biosecurity and wild boar carcass disposal
- Briefly describes range of practical management and biosecurity measures or interventions.
- To be translated into Serbian
- http://www.fao.org/3/ca5987en/ca5 987en.pdf







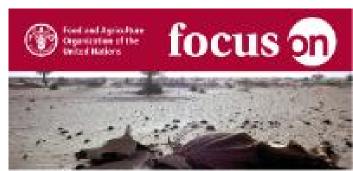
African swine fever in wild boar ecology and biosecurity





On carcass management

- Carcass management for small and medium scale livestock farms
 - Practical considerations
- English, French, Romanian, Russian, Serbian and Ukrainian, http://www.fao.org/documents/car d/en/c/CA2073EN





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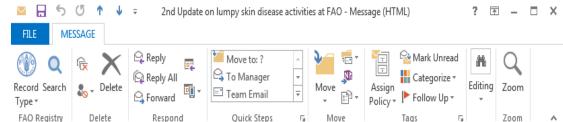


Addressed to:

- Vet services
- Academia
- Producers
- Pharmaceuticals

Worldwide

To be added, email me at: daniel.beltranalcrudo@fao.org



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Wed 3/7/2018 5:58 PM

BeltranAlcrudo, Daniel (REUT)

2nd Update on lumpy skin disease activities at FAO

Τo

Bcc Raizman, Eran (AGAH); Rozstalnyy, Andriy (REU); Cowan, SharonLee (REU); Szucs, Tibor (REUT); Plantek, Lea (REUT); 'tuppurainene@gmail.com'; 'Tsvyatko Alexandrov'; 'BROGLIA Alessandro'; 'CORTINAS ABRAHANTES José'; 'Nadège Leboucq'; Tsviatko Alexandrov'; 'Kris De Clercq'; 'Burkhard Bauer'; 'Alberto Oscar Allepuz Palau'; 'Jordi Casal Fàbrega'; 'LAMIEN, Charles Euloge'; 'CATTOLI, Giovanni'; 'I.Naletoski@iaea.org'; '; 'edi.ferro@bujqesia.gov.al'; Kipi, Arben (FAOAL); 'Ledi Pite'; Chadikovska, Lidija (FAOMK); 'Valdet.Giinovci@rks-gov.net'; 'vesna.dakovic@mpr.gov.me'; 'budimir.plavsic@minpoli.gov.rs';

1 You forwarded this message on 3/7/2018 5:59 PM.

Dear Colleagues,

We would like to update you about the new FAO initiatives/news since the January 2018 update (see below). Please click in the hyperlinks for further information:

- FAO has started a Technical Cooperation Project (TCP) to address preparedness for LSD in Belarus, Moldova and Ukraine. Activities are expected to start in the coming months;
- FAO has **shipped copies of the LSD Manual** to countries in the Balkans. Additional copies will be shipped to Central Asian and Eastern Europe at risk countries in the coming days;
- A <u>manual on RVF surveillance</u> is now available on-line. Rift Valley fever may be the next cattle disease following the steps of LSD into the region;
- FAO organized a <u>Training on participatory epidemiology principles and techniques in Georgia</u> applied to ruminants between September and December 2018, and developed a ruminant surveillance system, which integrates participatory disease surveillance and current on-going surveillance activities.

Within the laint FAO/IAFA areason, the following estivities have been conducted:



4.3 Stakeholder workshops: Biosecurity

Missions	Dates
Serbia	7 May 2019
Bosnia and Herzegovina	21 June 2019
Montenegro	12 September 2019
Kosovo*	19 September 2019
N. Macedonia	16 October 2019
Albania	TBD



- Focus on biosecurity and how to prevent entry
- Awareness raising for pig farmers and private veterinarians on ASF



Current tools being developed

- 3.1 Risk assessment on entry, spread and establishment of ASF is assessed
- 3.2 A tool for cost-benefit analysis of ASF outbreaks and alternative management options

Plus a survey to profile husbandry, biosecurity and value chain is currently ongoing in North Macedonia

- Targeting pig farmers (commercial, family farms and backyard), live animal markets and hunters
- Through the veterinary Chamber of North Macedonia
- Electronic surveys (EpiCollect) available on request



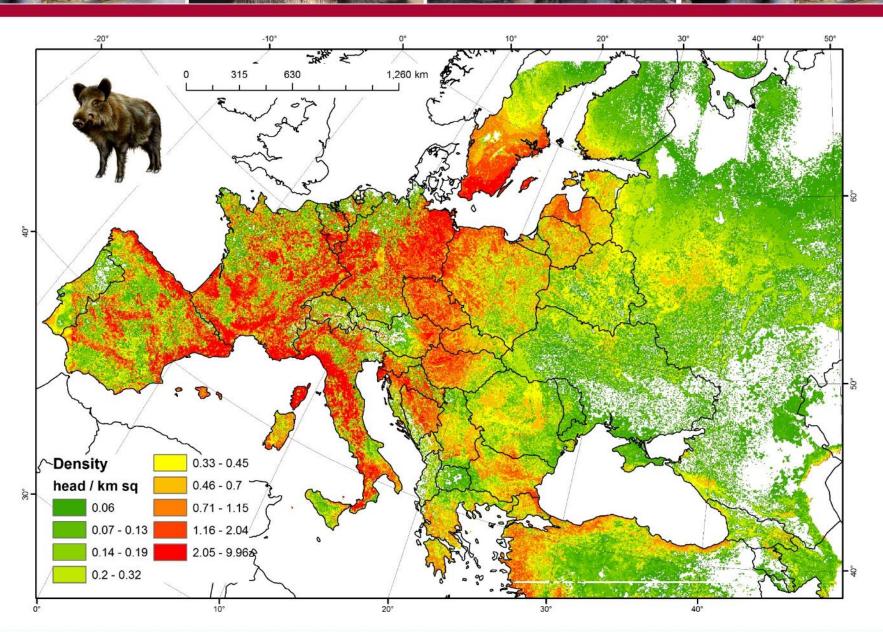
Wild boar mapping in Europe and North Eurasia



 Pittiglio C, Khomenko S, Beltrán-Alcrudo D. 2018. Wild boar mapping using population-density statistics: from polygons to high resolution raster maps. PloS one. 2018 May 16;13(5):e0193295.

- Disaggregate and map wild boar population-density statistics to produce high resolution maps
- Using average bioclimatic and environmental variables for suitable habitat by admin unit
- From spatially heterogeneous administrative units (polygons) to high resolution raster maps (5 km)







Lessons learnt from Europe

Awareness:

- Awareness of all involved stakeholders as early as possible is key. Not just official vets and large farms.
 - Ensuring the cooperation of backyard farmers and hunters is challenging, but critical for early detection and improved biosecurity
 - Particularly important to target travelling population, e.g. tourists, foreign workers
 & students, etc.

Coordination:

- Need for an international forum for countries and international agencies to periodically meet, exchange info and coordinate.
- Importance to ensure coordination early on between vet services and wild boar-related agencies (forestry, hunters).

Capacity building:

TOTs and online training can reach many in a short time



Thanks for your attention