

Food and Agriculture Organization of the United Nations



Regional project (TCP) for ASF Preparedness in the Balkans

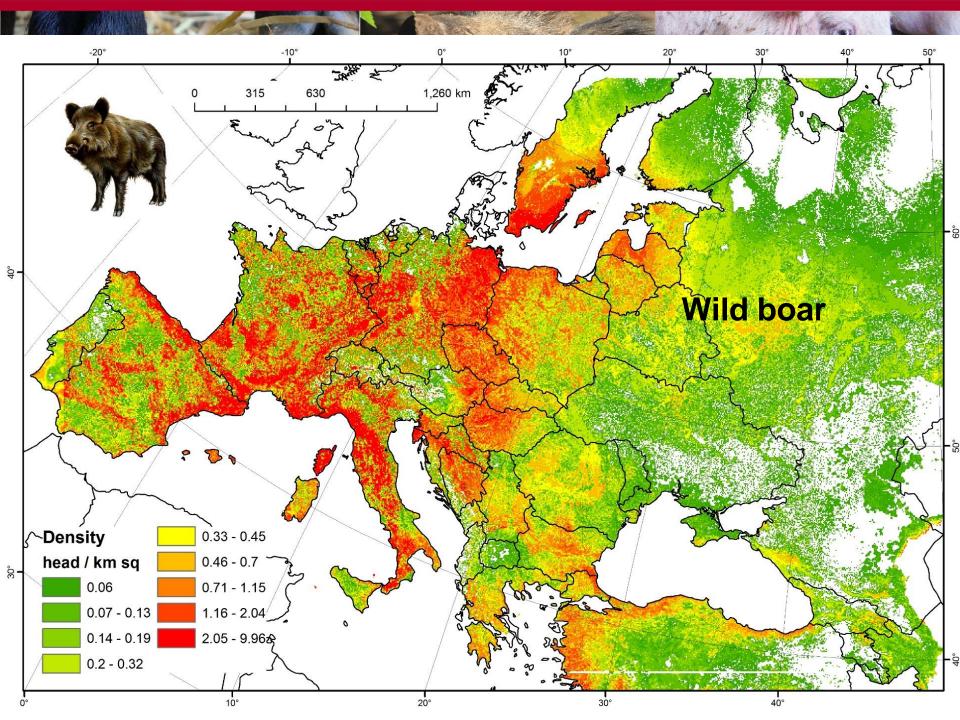
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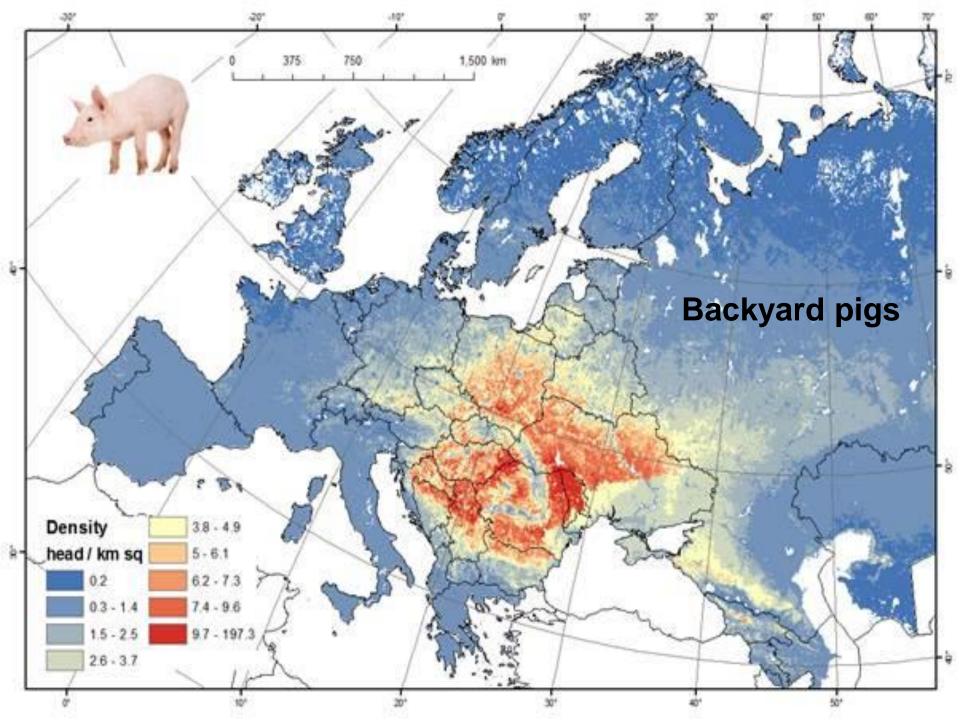
11th SGE ASF, Warsaw, 25 September 2018



Risk to the Balkans

- High and imminent \rightarrow Essential to start in next 3-6 months
- Potential impact:
 - May spread rapidly due to the relatively dense wild boar population and highly prevalent backyard sector
 - Effects on rural livelihoods
 - Economic costs of disease control plus trade implications
- The Balkans have never been exposed to ASF, which implies:
 - Low awareness level among all stakeholders
 - Low technical knowledge of the disease
 - Absence of contingency/surveillance plans in place
- Awareness, Prevention & Preparedness to allow prompt detection and control are KEY







Recent FAO activities relevant to the Balkans



Manuals

- ASF Detection and diagnosis (EN, RU, Chinese, Serbian) <u>http://www.fao.org/documents/card/en/c/bd35c569-752e-4b57-892e-e3e2e0ee0c9c/</u>
- Good practices for biosecurity in the pig sector (EN, FR, SP, RU) <u>http://www.fao.org/docrep/012/i1435e/i1435e00.pdf</u>
- Preparation of ASF contingency plans (EN, FR, SP, RU, GEO, ARM) <u>ftp://ftp.fao.org/docrep/fao/012/i1196e/i1196e00.pdf</u>
- GFTADs Handbook on wild boar management







Šta mogu lovdi da urade i doprinesu spriječavanju širenja bolesti?

Urtzičnim po dručjima, lovci treba da obrate pažnju na mrtve ili bolesne druje arinje i odim ah obavljette o tome. Svaki slučaj glinuka druje arinje mora biti prjavljen i u laboratoriji primjenom odgovarajučih dijagnostičkih ispitivanja isključena pojava atričke kuge svinja. U područjimapogočenimafričkom kugem svinja značajan rizki od daljeg žirmja infekcije predstavljaju proizvodi od drujih svinjal trokeji. Zbog toga su svi lovci dučni da posebnu pažnju obrate na higijenske mjere prlikom kora u pogođenim oddručima:

- Ne ostavljajte ostatke ukvljene divlje svinje u čumi.
- Izbjegavajte kontakt sa domaćim svinjama nakon lova na divlje svinje.
- Uvjerile se da suodječa i oprema (npr. noževi, auto) koji mogu biti zapadeni krvlju divjih svinja, dobro očišćeni i dezintlikovanii da neće svinje doči u kontakt sa njima.

Šta bi držaoci/vlasnicitrebali da urade u dlju zaštite svojih svinja?

Ostatke hrane koji sadrže meso (na primjer pomije) ne treba davati svinjama, a u slučaju upotrebe obavezno ih treba prokuhati.

- Ako primjetite bilo kakve kliničke znake bolesti, uključujući iznenadno uginuće svinja, odmah h prijavite nadležnoj veterinarskoj službi.
- Svinje treba stalno držati u zatvorenom prostoru, ne dozvoljavajuči im da stupe u kontakt sa drugim svinjama ili divljim svinjama.
- Kupujte svinje od provjerenog izvora i držite ih odvojene o dvaših životinja tokom dvije sedmice (karantin).
- Izbjegavajte nepotrebne kontakte posjetiocasa vašim svinjama.

a iz drugi h zemalja esti

Lodf

čke kuge svinja kao i osite meso ili mesne sebno ne iz onih zaraženih noraju baciti ostatke svoje uojima svinje i divlje svinje

Šta je afrička kuga svinja (ASF)?

Afričia kuga svihja (ASF) je zarazna virusna bolest svihja i divljih tvrhja isoja prouzokuje tečike ekonomske gubitle u sektoru prožuvdnje svihja. Prvobitno je bila ograničena na Afrika, a 2007. godine unijeta je u diruzija, odaške se raširila na zapad (obuhvatajući istočnu i Centralnu Evropu) ina štok. Pojiva bolesti je prijavljena u Mađarskoji Rumuniji, što ozbiljno ugrdave države Baliana.

Kako se prenosi bolest?

Divlje svinje i srinje se mogu međusobno infisirati dretinim kontaktom, posebno kada je prisutna i infisiratikonzumiranjem nedovoljno termički obrađenih protovoda sa svinjskim mesom, bilo stviharenjem ili stiranom nekulnarim pomijama. Do njihove tridkcije može doči i nakon istrane infisiranim mesom Ei kševa, Ei putem kontaminiranog alata i opreme (odjeća, igle, vosta, itd.).



Gjanara plavo ljubičasta polja na vrhovima ušiju

Koje vrste životinje mogu oboljeti?

Virus afričke kuge svinja škijučivo mole izazvati infekciju domaćih i divljih svinja.

Da li ljudi mogu biti inficirani virusom?

Ne.

Ko je uzočni ka fričke kuge svinja?

Bolest je uzrokovana virusom koji je veoma otporani može preživjeti duži vremenski petiod u spoljažnjoj sredini, žki injesecima, u fecesu, mesnim pobivodina (zamrznutim, soljenim i dimljenim ili nedovoljno termičiki obrađenim) i leševima uginulih životinja. Međutim, virus etikasno uništavaju dezintekciona sredstva, kao što je 1% formaldehid, 2% NADH ili pasafeni fenol.

Koji su klinički znad bolesti?

Infikcija može proteci sa ratifičitim kiničkim znacima bolesti. Oboljele svinje obliho umiru. Na malim gradinstvima može se uočiti da svinje gube apetit i brzo znenada uginu. Rijetko se pojavljuju drugi klinički znaci. Na većim komerciplinim farmama, može se uočiti potšženosti živofinja, gubitak tjelsem težine, krasenja na koži (vrhovi učiju, rep., noge, grudi i stomak), težko kritanje i pobačalj kod supranih krmača. Klinički znaci se teže uočavaju kod divljih svinja usljed njihovih dugačkih tamnih dekinja.



Kreavi pestivi crvena polja na koli vesta, grudi i nogu



Krvavi limfri čratovi



Uvedana slezina

Food and Agriculture Organization of the United Nations

Afrička kuga svinja prijeti Balkanu



Capacity building efforts

- **Epidemiology Trainings:** Ukraine: (May 2009; > 50 participants); and Belarus (May 2009; > 20 participants)
- Lab Trainings: Ukraine (March 2010; 16 diagnosticians from Belarus, Moldova and Ukraine); and Kazakhstan (with CISA-INIA; Sept 2013; 10 participants)
- **Collection & identification of** *Ornithodoros* **ticks:** Georgia, June 2013 (with CIRAD): 10 participants from Georgia (2), Armenia (1), Kazakhstan (1), Russia (2), Bulgaria (2), and Ukraine (1)
- **Epi & Diagnosis:** Italy, Nov 2013 (with IZS-UM): 9 participants from Georgia (1), Armenia (2), Belarus (2), Russia (1), Moldova (1), Ukraine (2) and Serbia (1)
- Contribute to EC's BTSF GF-TADS workshops



Training on ASF management in wild boar

- <u>http://www.fao.org/europe/events/detail-</u> <u>events/en/c/1051367</u>
- Kaunas, Vilnius, 22-23 Nov 2017
- Participants: Belarus, Moldova, Ukraine, Bulgaria, Estonia, Germany, Hungary, Latvia and Lithuania, FAO, OIE, DG SANTE, and FACE
- Day 1 Technical presentations
- Day 2 Field day at a hunting ground.



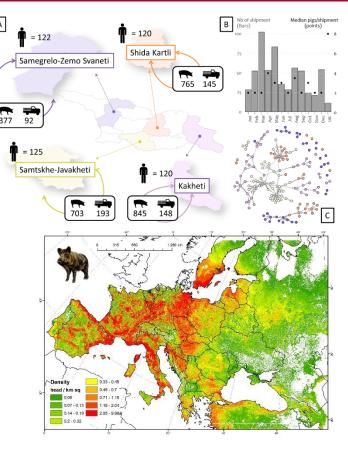


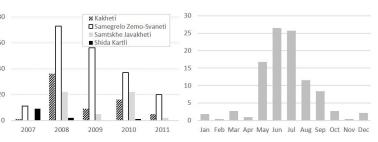




Research

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- Casal J, Allepuz A, Miteva A, Pite L, Tabakovsky B, Terzievski D, Alexandrov T, Beltran-Alcrudo D. 2018. <u>Economic cost of Lumpy Skin Disease (LSD) outbreaks in three Balkan</u> <u>countries: Albania, Bulgaria and the Former Yugoslav</u> <u>Republic of Macedonia (2016-2017)</u>. Transbound Emerg Dis. 2018;00:1–9.
- Pittiglio C, Khomenko S, Beltrán-Alcrudo D. 2018. <u>Wild boar</u> <u>mapping using population-density statistics: from polygons</u> <u>to high resolution raster maps</u>. PloS one. 2018 May 16;13(5):e0193295.
- Kukielka EA, Martínez-López B, Beltrán-Alcrudo D. 2017.
 <u>Modeling the live-pig trade network in Georgia: Implications</u> for disease prevention and control. PLoS One 12(6): e0178904







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
- **Past TCPs on ASF:** Georgia, Armenia, China, Ukraine, Belarus and Moldova (TCPf) (all finalized)







Proposed TCP

- **Title:** ASF emergency preparedness in the Balkans
- **Recipient countries (8):** Albania, Bosnia and Herzegovina, Croatia, Bulgaria, Kosovo, The former Yugoslav Republic of Macedonia, Montenegro and Serbia.
- Duration: 18 months
- Budget: 400,000 USD

Enhanced legal, regulatoryNationalStrengthenedASF awarenessregulatoryveterinarydiseaseamong allpreparednessserviceintelligencestakeholderandpersonnelcapacities forlevels createdcoordination fortrained in ASFASFASF at nationaldetection,intelligencelevelprevention andintelligencecontrolcontrol	Regional coordination
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	Enhanced legal, regulatory preparedness and coordination for ASF at national
OUTPUT 1	level.

ACTIVITIES for achieving output 1

- 1.1 Strengths and weaknesses of the national veterinary and diagnostic services are assessed, i.e. from capacities, to organigram, competences and functions. Within this task, existing legal powers and strategy documents are assessed, improved and developed as needed (in line with international standards), such as contingency and national control plans, surveillance plans, etc. Specific stress on strategies and protocols related to wild boar management, e.g. hunting strategies, surveillance, carcass removal, and how to adapt them according to the ASF status and risk
- **1.2 Simulation exercises** on ASF to ensure appropriate emergency preparedness are organized. A series of country-level desktop simulation exercises involving all relevant government agencies are organised to test the different components of the contingency plan in realistic outbreak scenarios (one per country).
- 1.3 Descriptive reports of the pig sector and wild boar hunting are prepared. Within each country, all available information will be compiled on the structure, actors, production systems, flows, numbers, distributions/densities, etc. Surveys may be conducted on specific countries to look specifically at the backyard sector.



OUTPUT 2

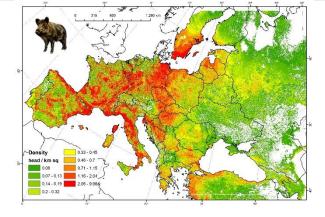
National veterinary service personnel trained in ASF detection, prevention and control

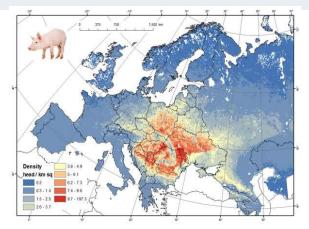
ACTIVITIES for achieving output 2

- 2.1 **Epidemiology training** activities. At three levels:
 - 1. Regional training (back-to-back with the inception workshop) to cover: 1) depopulation of large pig farms (culling and disposal options); 2) wild boar management; and 3) how to deal with backyard settings.
 - 2. A 2-day training workshops in each country to increase skills and educate epidemiologists from veterinary services. The workshops will cover ASF epidemiology, surveillance, disease recognition, outbreak investigation, sampling and shipping, control operations, etc.
 - 3. An on-line training module on ASF covering the above topics.
- 2.2 Train-of-trainer program for field veterinarians on ASF recognition; Farm and personal biosecurity; Outbreak investigation; Sample collection and submission; Executing and managing quality control of depopulation – safe disposal of infected carcasses; Cleaning and disinfection procedures.
- 2.3 Workshop on wild boar management and hunting biosecurity (2 days). The training will involve veterinary services, but also representatives from forestry agencies (or those in charge of wildlife management) and hunter associations.



OUTPU	Τ3	Strengthened disease intelligence capacities for ASF		
ACTIVITIES for achieving output 3				
3.1	work	on entry, spread and establishment of ASF is assessed . This will be done through a training shop on risk assessment with relevant stakeholders (i.e. government officials, forestry ces, hunters, farmers/farmer associations and middlemen).		
3.2	A cos	st-benefit analysis on different ASF outbreak control options is performed.		
3.4		ing on effective risk communication (to media, general public, retailers, farmers, hunters, One training would be conducted for all countries at the Inception Workshop.		







OUTPUT	4	ASF awareness among all stakeholder levels created			
ACTIVITI	ACTIVITIES for achieving output 4				
4.1	Developing an	awareness strategy document targeting the most relevant stakeholders.			
4.2	needs. Awaren social media p	nd adapting awareness and technical materials to meet different stakeholder mess materials, such as leaflets, posters, infographics, presentation, papers and posts will be developed and translated into relevant languages. The existing ASF ther relevant documents will be translated and printed.			
4.3	Stakeholder w Dissemination hunters throu	tivities to reach farmers and hunters: orkshops of awareness raising materials to farmers (both commercial and backyard) and gh National NGOs and professional associations. I media, local rural newspapers, farmer and hunter magazines and other.			



OUTPUT 5	Regional coordination				
ACTIVITIES fo	ACTIVITIES for achieving output 5				
5.1	 Inception workshop (2 days) to support project coordination and cooperation and coordination on ASF prevention and control in the region. 1) coordinate the implementation of prevention and control actions; 2) present the results of ASF-related activities and provide updates on the disease situation; 3) provide a forum for discussions and exchange of ideas. 				
5.2	 Final workshop to 1) present project results to coutries donors, international institutions; 2) discuss potential follow-up to the project 				



Final remarks

- Need to closely coordinate with other programs/projects to synergize efforts while avoiding overlap
- Each country will need an individualized approach and set of activities
- Final set of activities will be finalized and the project approved in the next few weeks
- There is room to adapt activities as the project evolves, to adapt to the situation
- Any inputs at a later stage can be communicated at <u>daniel.beltranalcrudo@fao.org</u>



Thanks for your attention