FAO’s support to the region on ASF surveillance and management

Daniel Beltran-Alcrudo
Animal Health Officer
FAO Regional Office for Europe and Central Asia

Major activities

1. Regional coordination
2. Emergency & Assessment missions
3. Development projects
4. Capacity building
5. Dissemination, awareness & publications
6. Research
7. ASF Reference Centers
8. Tools
Regional coordination

Standing Group of Experts on ASF in the Baltic and Eastern Europe Region (SGE ASF)

- Set up under the GF-TADs to build up a closer cooperation
- 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 by experts with a view to harmonizing control policies and building a regional control strategy
  - Collaboration on laboratory diagnostics
  - Collaboration on awareness raising campaigns in the affected countries

- Meet every few months (depending on the situation):
  - Kick-off meeting: Sept. 2014, Bern, Switzerland
  - SGE ASF1: Dec. 2014, Minsk, Belarus – on ASF situation in wild boar
  - SGE ASF2: Feb. 2015, Tallinn, Estonia - on biosecurity in domestic pig
  - SGE ASF3: March 2016, Russia
  - SGE ASF4: May 2016, Paris, France
  - SGE ASF5: Sept 2016, Lisbon, Portugal
  - SGE ASF6: Nov. 2016, Vilnius, Lithuania
  - SGE ASF7: May 2017, Paris, France
  - SGE ASF8: Sept 2017, Chisinau, Moldova
Emergency & Assessment Missions
Mandate

Provide **Rapid response**
to transboundary animal diseases (TADs)
and emerging animal disease (EIDs) threats

When CMC deploys
- Newly infected country
- Country at high risk of infection
- Country affected by significant epidemiologic change
  - Upon government request

Current Partners

- OIE
- WHO
- Others
  - EC
  - USDA
  - USAID
  - DAFF (Australia)
  - *France Vétérinaire International (FVI)*
  - Ministère de l’Agriculture De l’Agro-Alimentaire et De La Forêt (France)
84 missions in 45 countries
(approx. 46% HPAI, 20% Zoonoses and 34% other TADs)

October 2006 – September 2016

FAO Rapid Assessment missions on ASF

- **CMC rapid missions**
  - Joint FAO/OIE/EC to Georgia (June 2007)
  - Joint FAO/OIE/EC to Armenia (September 2007)
  - FAO/OIE to Belarus (May 2010)
  - FAO/OIE to Tanzania (November 2011)
  - FAO to Côte d'Ivoire (October 2014)

- **EMPRES assessment mission** to Ukraine (July 2010)
in the field

• Support immediate response
  – assess and investigate
  – disease control and surveillance
  – sample collection and shipment
  – crisis communication
• Promote cross-border dialogue
• Facilitate coordination
  – authorities
  – donors
  – technical agencies
• Mobilize resources
  – concept notes and TCPs
  – emergency funding package
• Provide immediate support and recommendations
  – emergency action plan
  – emergency funding package
  – in-country debrief

Viet Nam – PRRS

Morocco – PPR

Development projects
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

- TCPs: Georgia, Armenia, China, Ukraine, Belarus (all finalized)
- TCPf: Moldova (2016-17)


- Improving contingency plans at national and sub-national level:
  - 6 regional simulation exercises in Kyiv, Poltava, Zhytomyr, Lutsk, Kharkiv and Dnipropetrovsk
- Strengthening the laboratory diagnostic capacity
- Improving the knowledge and awareness of local veterinarians
- Raising the awareness of smallholders, small and medium-sized pig farmers on ASF - awareness materials and training for mass media experts

1. Enhancing ASF surveillance capacity locally
   ✓ Strengthened monitoring in endemic areas
   ✓ Capacity development of lab diagnostics (equipment, kits, training)
   ✓ Hands-on training/field visits on sampling and biosecurity measures for at least 150 veterinary students graduates of universities

2. Strengthening private sector resilience to ASF-related risks
   ✓ Recommendations on zoning and compartmentalization for the purpose of surveillance, prevention, control, and pork trade
   ✓ Continue the dialogue with the private sector, the government and national veterinary authorities with a focus on promoting public-private compensation schemes, contingency planning and compartmentalization, etc.
   ✓ Six capacity-development events – training and simulation exercises 2017-2018
   ✓ Provide recommendations on potential preventive measures such as pig substitutions schemes to help mitigate negative socioeconomic effects of ASF outbreak/spread

3. Awareness-raising with local media and rural communities
Past ad-hoc 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**

Dissemination, awareness & publications
Early warnings and assessments:

- 2007 - ASF in Georgia -
- 2009 - ASF spread in the Russian Federation and the risk for the region
- 2010 - FAO takes a close look at the threat of ASF introduction into Eastern Europe
- 2012 - ASF recent developments - timely updates
- 2013 - ASF in the Russian Federation: risk factors for Europe and beyond

Awareness materials adapted to different countries

Manuals

- Good practices for biosecurity in the pig sector (EN, FR, SP, RU)
  http://www.fao.org/docrep/012/i1435e/i1435e00.pdf
- Preparation of ASF contingency plans (EN, FR, SP, RU, GEO, ARM)
- Recognizing ASF - A Field manual (EN, RU, Chinese)
  http://www.fao.org/documents/card/en/c/bd35c569-752e-4b57-892e-e3e2e0ee0c9c/
- Next? On wild boar management?
Research

Global ASF Research Alliance

- Launched April 2013
- **Mission:** To establish and sustain global research partnerships that will generate scientific knowledge and tools to contribute to the successful prevention, control and where feasible, eradication of ASF
- Open membership
- 3 meetings so far:
  - March 2013, Plum Island, USA
  - November 2014, Pretoria, RSA
  - September 2016, Ploufragan, France
- Updates and gap analysis
ASFORCE Research Consortium

- EC Research Consortium under the 7th Framework Programme (FP7)
- On a targeted research effort on ASF
- Follow-up of ASFRISK
- 36 months and 5 million EUR
- 18 partners (universities, research institutes, SMEs & FAO)
- 5 themes:
  - Theme 1 - Coordination and management
  - Theme 2 - Prevention, control & eradication models
  - Theme 3 - Pig-wild boar-Argasidae interactions
  - Theme 4 - Development of vaccines and diagnostics
  - Theme 5 - Training and knowledge transfer

Host population mapping/modelling

Wild boar

- Wild boar distribution range and densities
- Model now available for the whole of Europe and North Eurasia

Domestic pigs

- Low and high biosecurity sectors

Other mapping products

- Overlay of the two above to detect most likely areas of interaction
IAEA Coordinated Research Project (CRP) for Early and Rapid Diagnosis and Control of ASF

- 2014-2019 (1st Meeting on 7-11 July 2014, Vienna, Austria)
- Participating countries:
  - Burkina Faso, Cameroon, China, Côte d'Ivoire, Germany, Nigeria, Russian Federation, Senegal, Uganda, Zambia
- Topics covered:
  - Serology
  - Molecular diagnostics
  - Epidemiology and sequencing
  - Immunization and Immunology

FAO Reference Centres
FAO Reference laboratories/ centres in ASF

- **ARC-OVI** (Agricultural Research Council, Onderstepoort Veterinary Institute), South Africa
  - FAO and OIE
- **CISA-INIA** (Centro de Investigación en Sanidad Animal - Istituto national de investigación y tecnología agraria y alimentaria), Spain
  - FAO and EU

Tools
EMPRES-i platform– from data entry to data analysis

Thanks for your attention