

Workshop on "Harmonisation of data collection on the African Swine Fever (ASF) virus"

> 23 -25 November 2015 Parma, Italy







MEETING FOR SIMPLIFYING AND CODING

3-4 November 2015

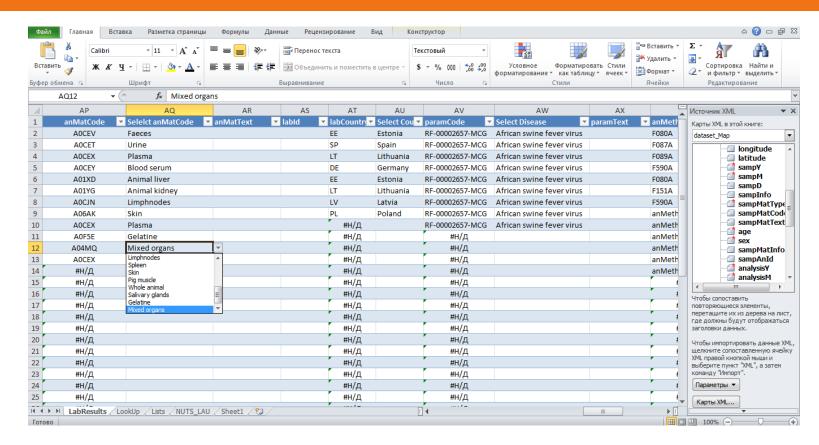
- Suitability of the Data Collection Framework for data collection
- Possible structure of the template for dada collection (Elements and Codes, Terminology, Identifiers)

Conclusions

- The DCF is an acceptable platform facilitating a harmonised data collection
- The DCF will not be used for collection of data on wild boar and domestic pig population, and on the epidemiological investigations of ASF outbreaks
- Revision of codification of samples, tests and results of analysis is needed
- The DCF will be used by MS for data collections next year



LAB MONITORING TEMPLATE







EXISTING DATA SETS

Data on laboratory monitoring

- Previous data sets Jan 2014/Feb 2015 (provided by MS for EFSA Scientific Opinion on ASF, 2015)
- Updated data sets Mar-Sept 2015





DATA SETS COMPARISON

ESTONIA (LIMS)	LITHUNIA	LATVIA	POLAND	New template
ID Sample ID Sample No Submission date No_animals Test_reason	Sample code Department Date of sample received Hour of sample received	TESTING_REPORT_NUM BER LABEL ID Date found/shot Found dead/shot/car	date of adoption Local Admin Unit1 Local Admin Unit Species Status (reason of sampling)	localOrgId progLegalRef sampStrategy progType sampMethod sampPoint progInfo sampIdldingId sampId sampCountry sampArea (NUTS3)
Sample_type Method_code Method_name Method_type Animal_category Result County Municipality Location Sampling point Name Species Animal_ID Sample_text Result_date Test_protocol_No	Region Type of samples No of samples Results ASF Ab (ELISA) ASF Ab (IPT) ASF Ag (PCR)	accident Shot ill Age Sex Admin Unit1 Amin Unit2 X,Y Results ELISA result serology IP serology result PCR virology	Results PCR ELISA IB IPT Type of sample (Blood, Serum, Lymph node, Tonsils, Spleen, Kidney, Lung, Marrowbone)	sampLAU, sampLAU2 Longitude Date of sampling sampInfo sampMatType sampMatCode sampMatText Age Sex sampMatInfo sampAnId analysisDate anMatCode anMatText labId labCountry paramCode paramText anMethCode Select method anMethText resId specificity sensitivity resVal resQualValue resType resInfo ADNSId





DATA SETS COMPARISON

	Lithuania	Estonia	Latvia	Poland
Date of sampling	-	-	+	-
Date of analysis	-	+	-	-
Species	+	+	+	+
Age	-	±	+	-
Sex	-	-	+	-
Long, Lat	-	-	±	-
NUTS3, LAU1, LAU2	+ (LAU1)	+	+	+
Hunted/found dead	-	+	+	+
Type of sample	+	+	+	±
Method	+	+	+	+
Result ID	-	+	-	-





EXISTING DATA SETS (LABMONITORING)

Availability

- Date of analysis (or sampling, or submission)
- Location (NUTS3, LAU1 and LAU2 level)
- Species
- Type of sample
- Method
- Results
- 1 row= 1 method=1 result (≠ 1animal)





COMBINED DATABASE (LT, EE, LV)

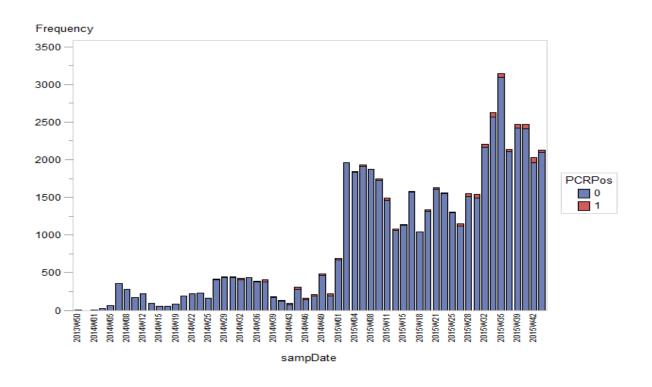
Some examples and short overview

- EE, LV +LT
- SAS to perform statistical analysis



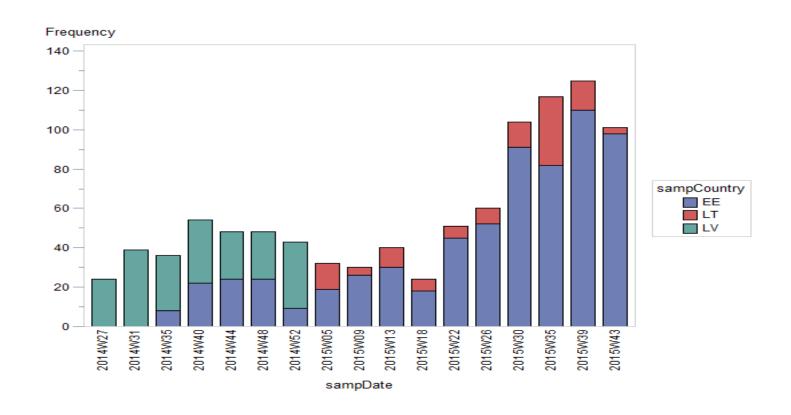
European Food Safety Authori

WEEK OF TESTING





PCR POSITIVE RESULTS BY WEEK AND COUNTRY







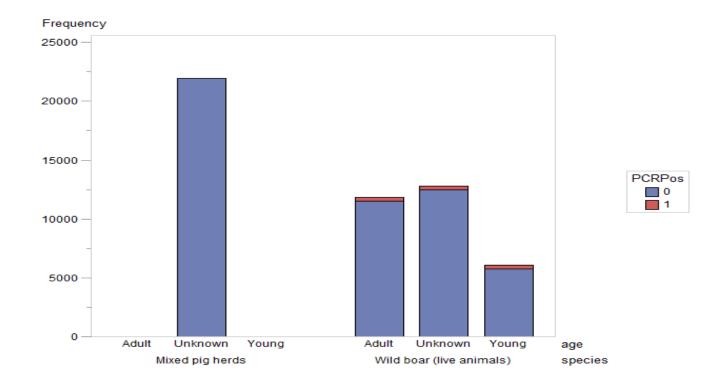
NUMBER OF PCR-POSITIVE SAMPLES

				COUNT_of_PCRPos
sampCountry	species	age	sex	SUM
EE	Wild boar (live animals)	Adult	F	117
EE	Wild boar (live animals)	Adult	M	84
EE	Wild boar (live animals)	Adult	U	84
EE	Wild boar (live animals)	Unknown	F	1
EE	Wild boar (live animals)	Unknown	M	2
EE	Wild boar (live animals)	Unknown	U	159
EE	Wild boar (live animals)	Young	F	76
EE	Wild boar (live animals)	Young	M	68
EE	Wild boar (live animals)	Young	U	67
LT	Mixed pig herds	Unknown	U	37
LT	Wild boar (live animals)	Unknown	U	76
LV	Wild boar (live animals)	Adult	F	11
LV	Wild boar (live animals)	Adult	M	9
LV	Wild boar (live animals)	Adult	U	28
LV	Wild boar (live animals)	Unknown	F	1
LV	Wild boar (live animals)	Unknown	M	0
LV	Wild boar (live animals)	Unknown	U	48
LV	Wild boar (live animals)	Young	F	25
LV	Wild boar (live animals)	Young	M	25
LV	Wild boar (live animals)	Young	U	58





SPECIES DEMOGRAPHICS

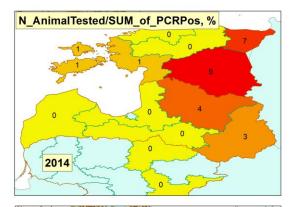


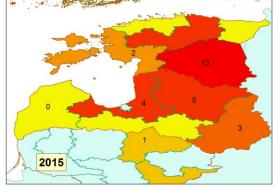




SPATIAL ANALYSIS

- NUTS3 level
- LAU 1 and LAU2 in future

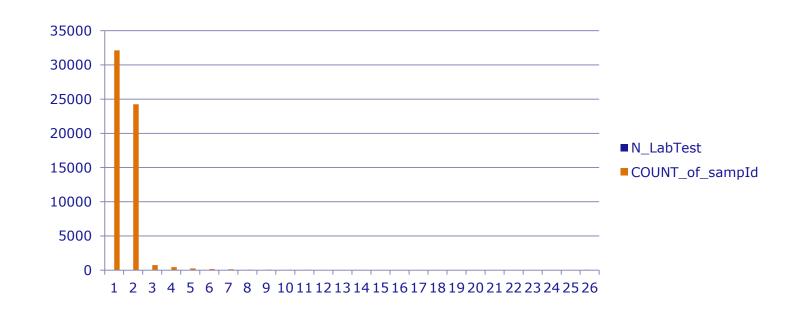








SAMPLE ID







COMBINED DATA SETS

Preliminary conclusions

- Quality of data is not high enough
- Data sets have to be "cleaned out" (IDs, exclude replications) and
- Amended by additional data (if needed)
- Spatial resolution has to be improved (LAU1) and 2 levels)
- Background information is needed





PURPOSES

Project

- Provide a descriptive epidemiological analysis, including a spatio-temporal analysis
- Carry out a molecular epidemiological analysis
- Assess the possible risk factors for the transmission of ASFV
- Assess the risk of endemicity in the affected wild boar population

Workshop

- Identify what type of analysis can currently be done on the data collected by the Member States. Do they meet the objectives of the project?
- Identify which additional analysis could be useful and what data would be needed for those?
- Discuss the feasibility (additional costs?) of potential additional data collection
- Agree on a common database structure, including potential additional data





TOPICS FOR DISCUSSION

- Data quality and reliability
- Identify additional data needs to achieve pre-set objectives of epidemiological analysis
- Discuss feasibility of completing database
- Determine the availability of resources
- New structure of database: agreement on data-model
- Sharing of data-confidentiality
- Future: need for epidemiological analysis workshop/training.