



Food and Agriculture Organization
of the United Nations

Global Animal Disease Information System (EMPRES-i): Focus on African swine fever



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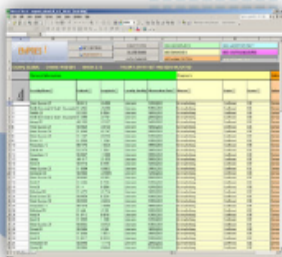
DATA ENTRY: DATA ARE ENTERED MANUALLY
(COMPUTER AND/OR MOBILE PHONE)



MOBILE PHONE APPLICATION
TO PROVIDE AND/OR ACCESS
DISEASE OUTBREAK INFORMATION



VALIDATION:
DATA ARE VERIFIED AND
VALIDATED BEFORE BEING
OFFICIALLY PUBLISHED
BY FAO



AUTOMATED DATA UPLOAD:
A SPECIAL EXCEL FILE APPLICATION FACILITATES
THE UPLOAD OF LARGE AMOUNTS OF DATA INTO
THE SYSTEM

MY EMPRES-I:

USER PREFERENCES SET UP FOR DIFFERENT SECTIONS
INCLUDING DISEASE OUTBREAKS (BY SELECTING A
DISEASE, A PERIOD AND A GEOGRAPHICAL AREA), CVOS,
LABORATORIES AND NEWSLETTERS.

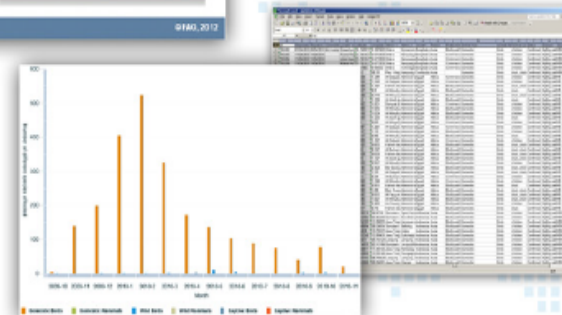
INTERACTIVE MAP:

ACCESS TO EPIDEMIOLOGICAL AND LABORATORY
INFORMATION FROM AN OUTBREAK LOCATION



ADDITIONAL LAYERS:
LAYERS SUCH AS LIVESTOCK POPULATION
AND PRODUCTION, BIOPHYSICAL,
SOCIO-ECONOMIC, ANIMAL HEALTH STATUS
OR TRADE (FAO - GLIPHA)

ANALYSIS TOOL:
DATA IS PRESENTED IN TABLES, CHARTS OR
GRAPHS AND CAN EASILY BE DOWNLOADED IN CSV
OR XLS FORMAT FOR FURTHER ANALYSIS



<http://empres-i.fao.org>

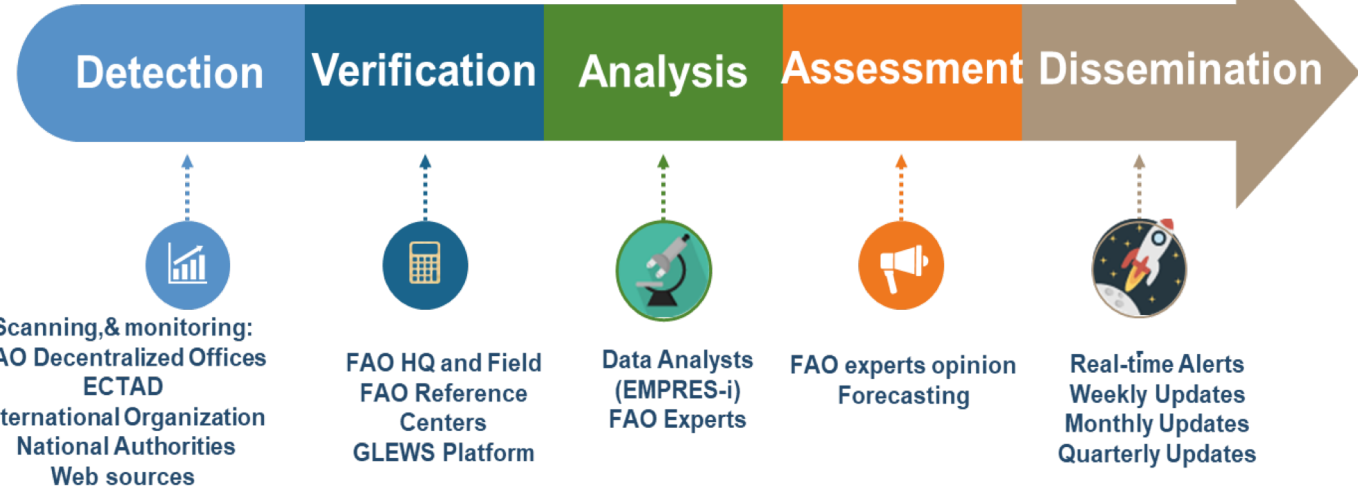


Disease Intelligence: picking up first signals



Global data in EMPRES-i Global Animal Disease Information System

- ✓ Over 100 000 records
- ✓ 100 diseases (AI, RVF, ASF, FMD, ...)
- ✓ 189 countries
- ✓ Multiple sources (OIE, FAO References Centres, Projects, National authorities, Media...)



Validated	Tracking	From ID	Reported from	From ID	Region	Country	Address	Address	Locality	Latitude	Longitude	Obs. Date	Report Date	Surveillance	Status	Disease	Genotype	Hostname	Animal Type	Animal Species	Age	Sex	
✓		No	012	294520	Europe	Spain	Almeria	Almeria	Almeria	37.07462	-2.91963	2019/07/20	2019/07/20	Confirmed	Confirmed	African swine fever	No	Wild	Wild boar				
✓		No	012	294521	Europe	Spain	Almeria	Almeria	Almeria	37.07462	-2.91963	2019/07/20	2019/07/20	Confirmed	Confirmed	African swine fever	No	Wild	Wild boar				
✓		No	012	294522	Europe	Spain	Almeria	Almeria	Almeria	37.07462	-2.91963	2019/07/20	2019/07/20	Confirmed	Confirmed	African swine fever	No	Wild	Wild boar				
✓		No	012	294523	Europe	Spain	Almeria	Almeria	Almeria	37.07462	-2.91963	2019/07/20	2019/07/20	Confirmed	Confirmed	African swine fever	No	Wild	Wild boar				
✓		No	012	294524	Europe	Spain	Almeria	Almeria	Almeria	37.07462	-2.91963	2019/07/20	2019/07/20	Confirmed	Confirmed	African swine fever	No	Wild	Wild boar				
✓		No	012	294525	Europe	Spain	Almeria	Almeria	Almeria	37.07462	-2.91963	2019/07/20	2019/07/20	Confirmed	Confirmed	African swine fever	No	Wild	Wild boar				
✓		No	012	294526	Europe	Spain	Almeria	Almeria	Almeria	37.07462	-2.91963	2019/07/20	2019/07/20	Confirmed	Confirmed	African swine fever	No	Wild	Wild boar				
✓		No	012	294527	Europe	Spain	Almeria	Almeria	Almeria	37.07462	-2.91963	2019/07/20	2019/07/20	Confirmed	Confirmed	African swine fever	No	Wild	Wild boar				
✓		No	012	294528	Europe	Spain	Almeria	Almeria	Almeria	37.07462	-2.91963	2019/07/20	2019/07/20	Confirmed	Confirmed	African swine fever	No	Wild	Wild boar				
✓		No	012	294529	Europe	Spain	Almeria	Almeria	Almeria	37.07462	-2.91963	2019/07/20	2019/07/20	Confirmed	Confirmed	African swine fever	No	Wild	Wild boar				
✓		No	012	294530	Europe	Spain	Almeria	Almeria	Almeria	37.07462	-2.91963	2019/07/20	2019/07/20	Confirmed	Confirmed	African swine fever	No	Wild	Wild boar				
✓		No	012	294531	Europe	Spain	Almeria	Almeria	Almeria	37.07462	-2.91963	2019/07/20	2019/07/20	Confirmed	Confirmed	African swine fever	No	Wild	Wild boar				
✓		No	012	294532	Europe	Spain	Almeria	Almeria	Almeria	37.07462	-2.91963	2019/07/20	2019/07/20	Confirmed	Confirmed	African swine fever	No	Wild	Wild boar				

African swine fever data in EMPRES-i
 Time period: 1958-2020
 16, 407 records
 72 countries



EMPRES-i limitations and next Step..

- **EMPRES-i modernisation**

- ✓ Technology

- **Improve Analysis for Forecasting**

- ✓ Enhance risk analysis modeling and forecasting

- ✓ Improve the visualization of data/maps

- **Interoperability**

- ✓ Information systems global and national (Genetic, Laboratory, Livestock movement, prices, water points, markets...)





Food and Agriculture
Organization of the
United Nations

SUSTAINABLE
DEVELOPMENT
GOALS

Thank you!

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