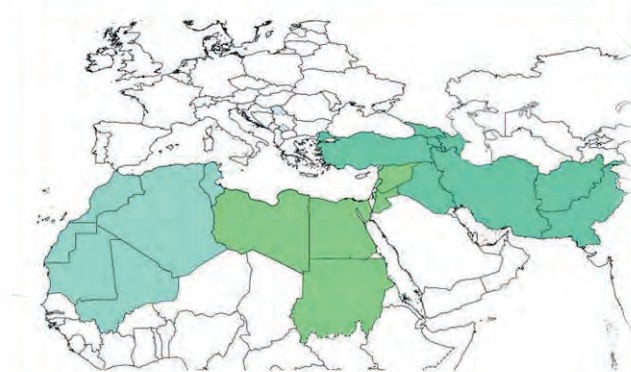




FMD situation in the European neighbourhood and risks for the EU

Fabrizio Rosso
European Commission for the Control of Foot-and-Mouth Disease



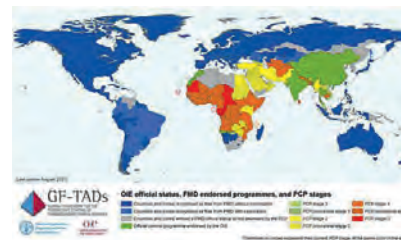
Bruxelles, 21 June 2023

EuFMD workprogramme

Pillar 1: improve preparedness for FAST diseases in Member Nations and across Europe as a whole

Pillar 2 Reduce FAST diseases risk for MNs from the neighbourhood

Pillar 3 Sustain and enhancing progress in the roll out of the Global FMD control strategy



Risk monitoring

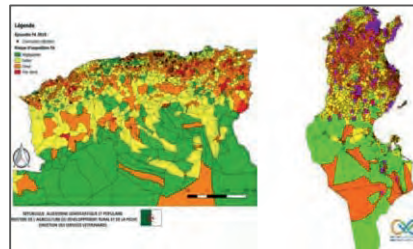
FMD quarterly report



FAST quarterly report



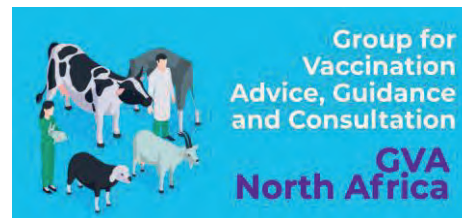
Risk Mapping



Country missions



PVM studies



Networks – meetings



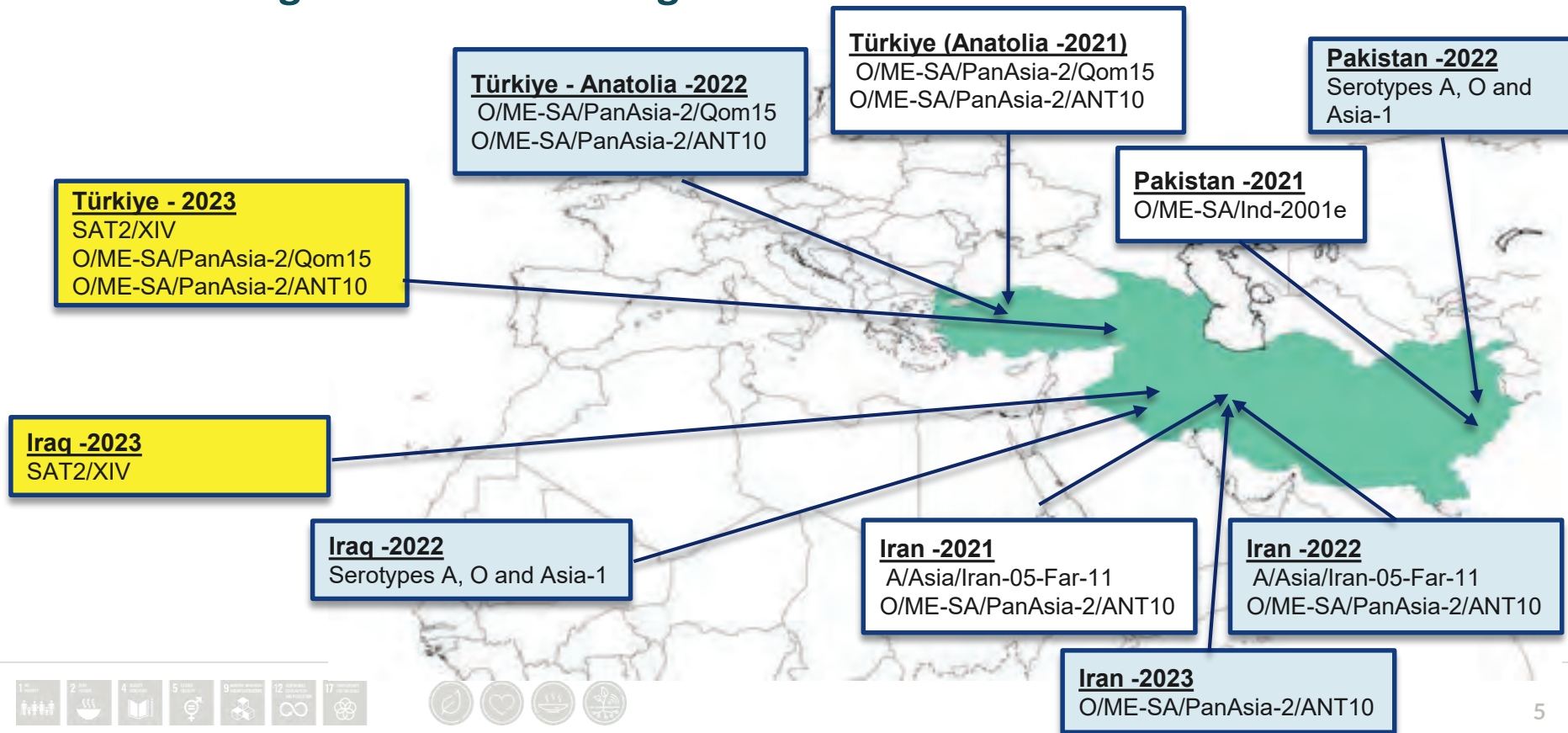
Global/Regional Surveillance



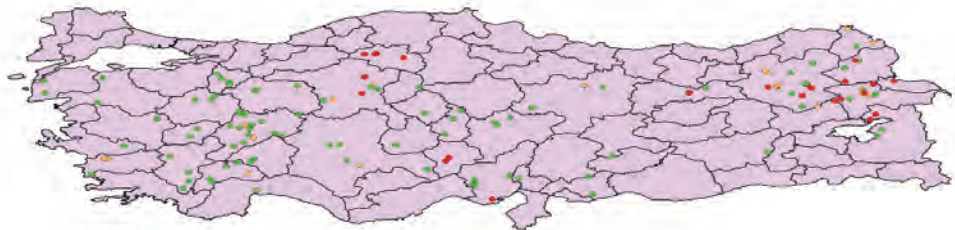
Country agreements



FMD circulating viruses in SEEN region 2021-2023



FMD Outbreaks in 2023



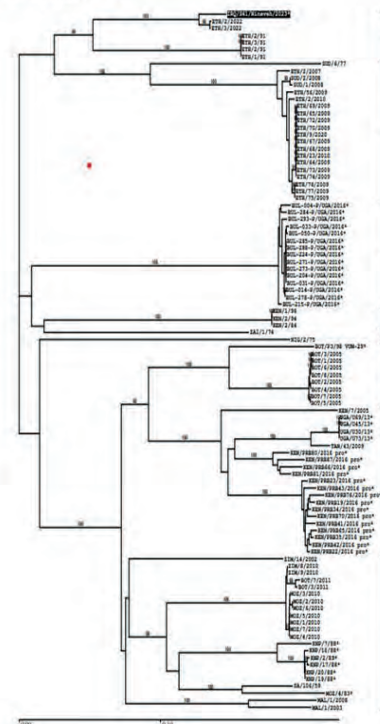
Lejand
adis-fmd.2023.1q
● Not typed
● O
● SAT 2
■ Turk Province

* 130 outbreaks
O: 57
SAT2: 23
Not Typed: 20

- **Serotype O** and SAT2 (since 8th March) circulating.
- Sublineages,
 - **For Serotype O:** mainly Qom15 and rarely ANT10 belong O/PanAsiall
- **There has not been detected Serotype A and Aisa1 since 2018 and 2015** respectively.
- **Thrace region has been free with FMD where vaccination practiced since 2010**



Report on FMDV SAT2 in Iraq in 2023
Batch: WRLMEG/2023/0004



*, not a WRLFMD Reference Number

FMD outbreaks in Iraq SAT2 2022-2023

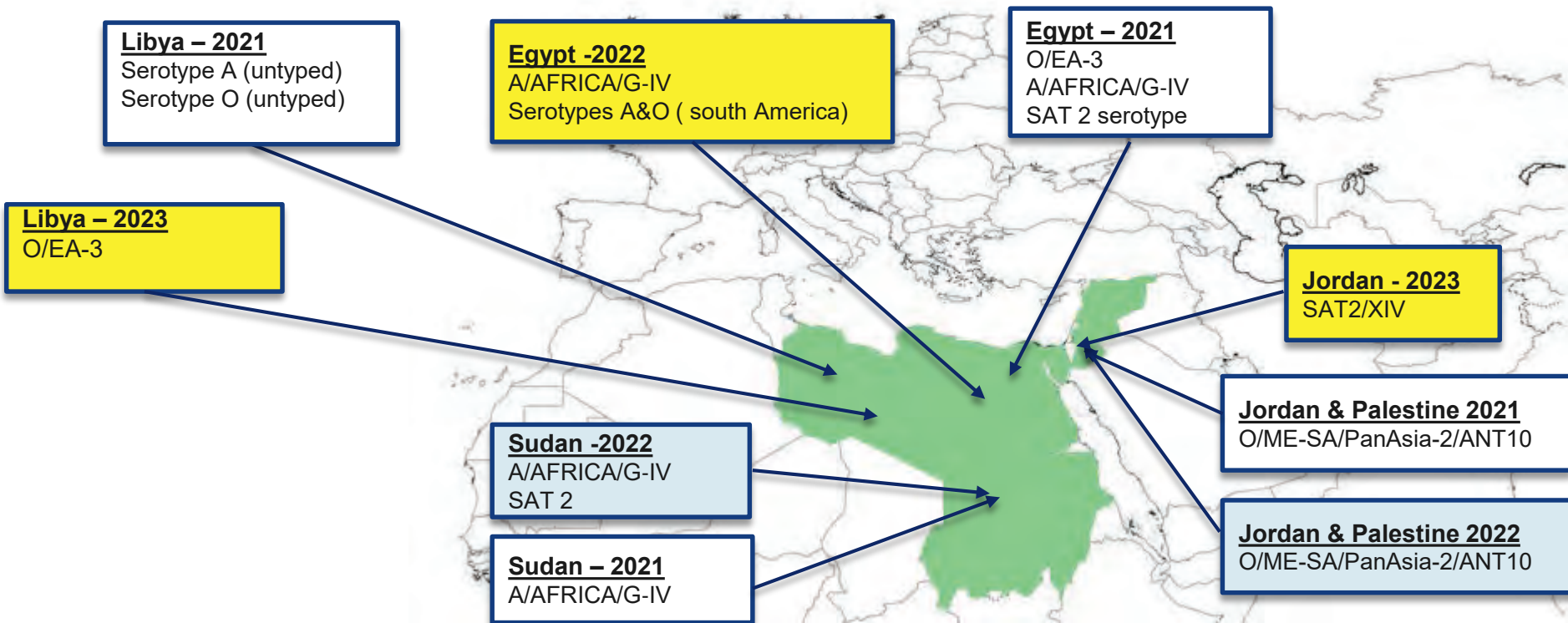
Date: 2/5/2023



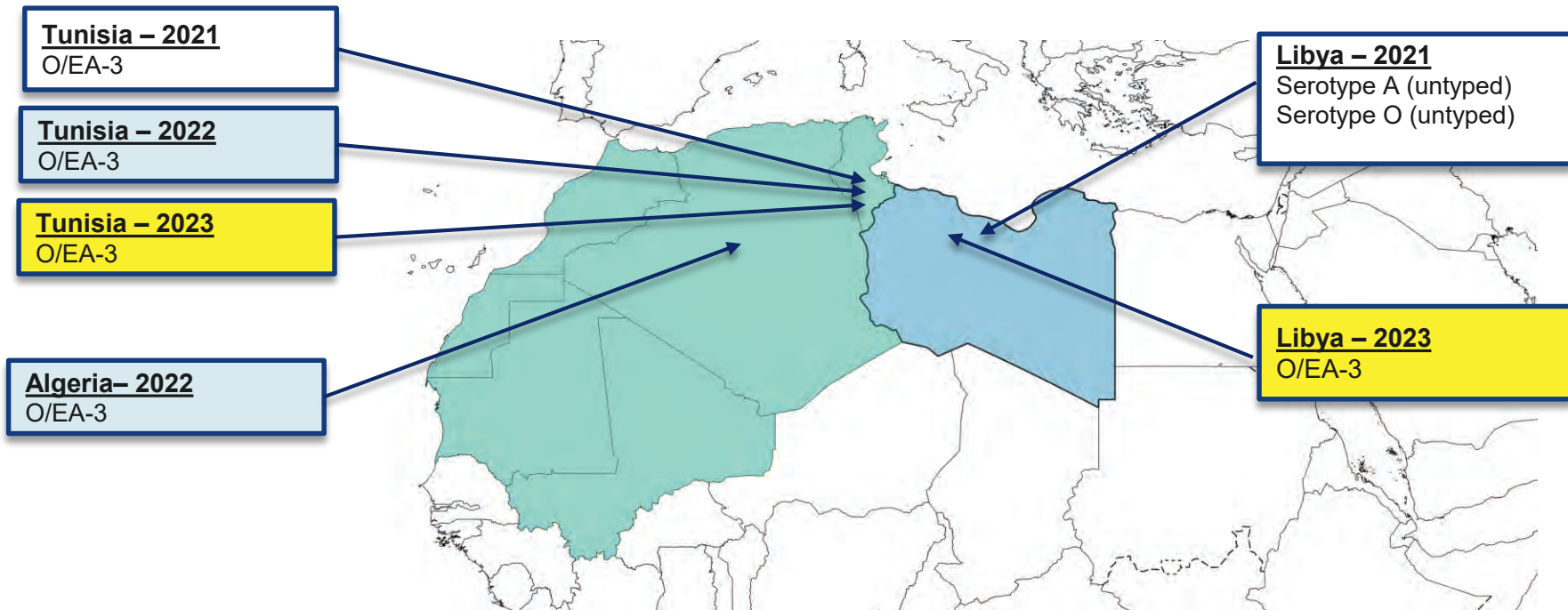
Legend
★ "مناطق شريان الازار العراق 2023" Events

Kilometers
0 45 90 180 270 360
Y: Hudhaifa/GIS/ Epi dep./vet directorate

FMD circulating viruses in ME region 2021-2023

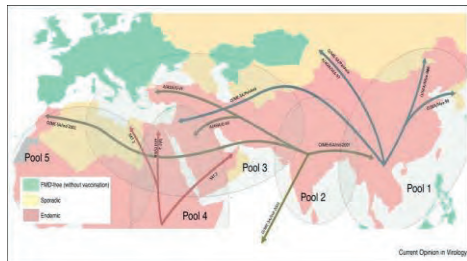


FMD circulating viruses in NA region 2021-2023



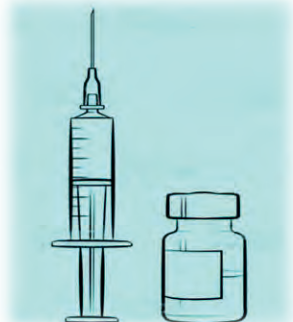
Difficulties in FMD Control in the Mediterranean region

Trans-pool movement



Active transboundary movement of live livestock or livestock product, leading to emerging or re-emerging novel genotypes

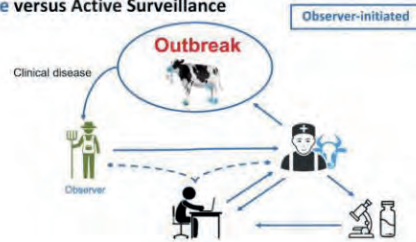
Vaccine security (quality & quantity)



Lack of immunogenicity and PVM studies – sharing results

Difficulties in reporting and surveillance

Passive versus Active Surveillance



Under-reporting, sensitivity/optimization of surveillance

Diagnostic capacities



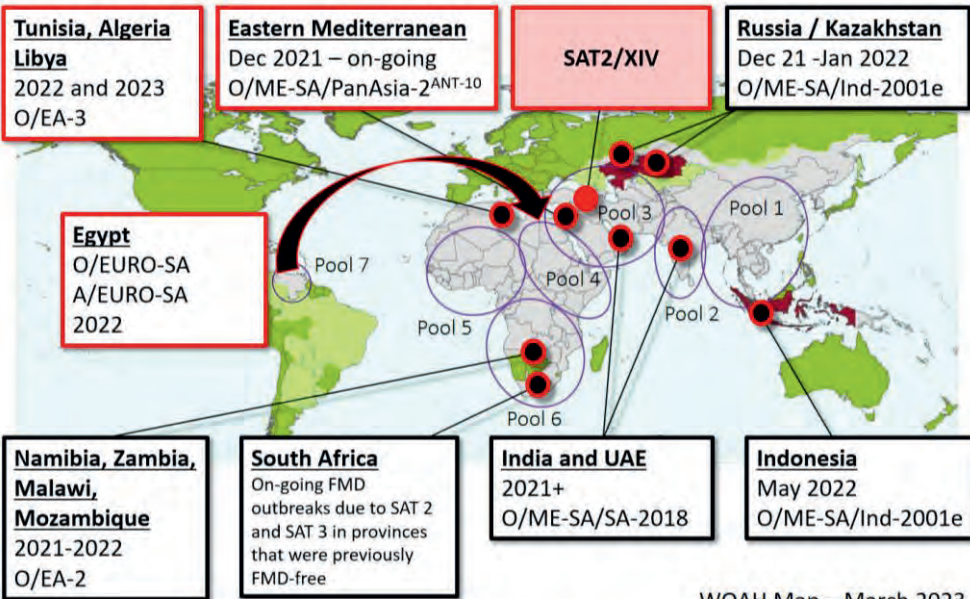
Molecular diagnostic capacity

Investment in control



Cost/benefits analysis

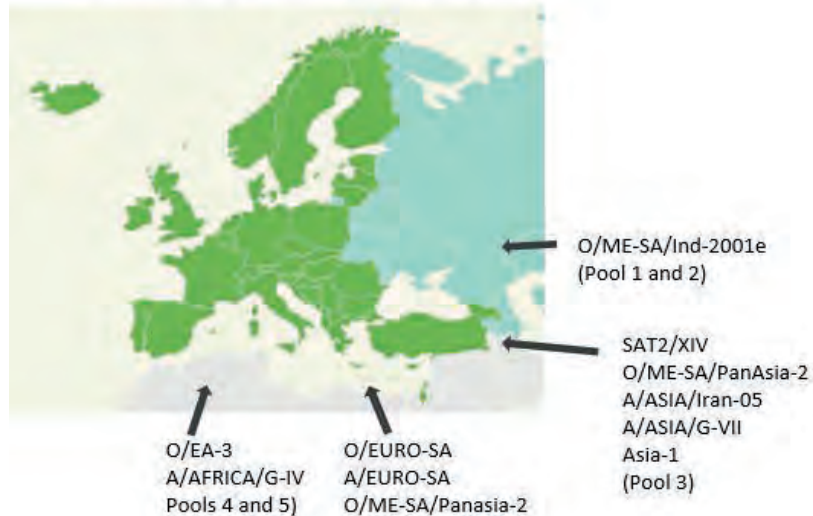
Headline global events (2021/23)



WOAH Map – March 2023

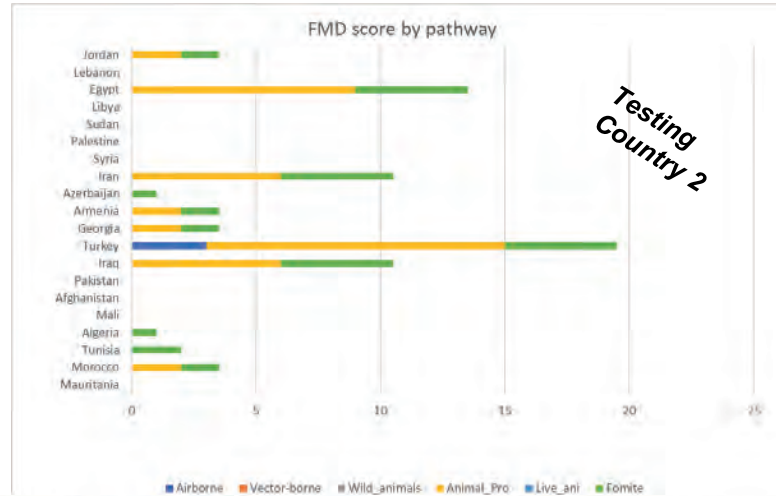
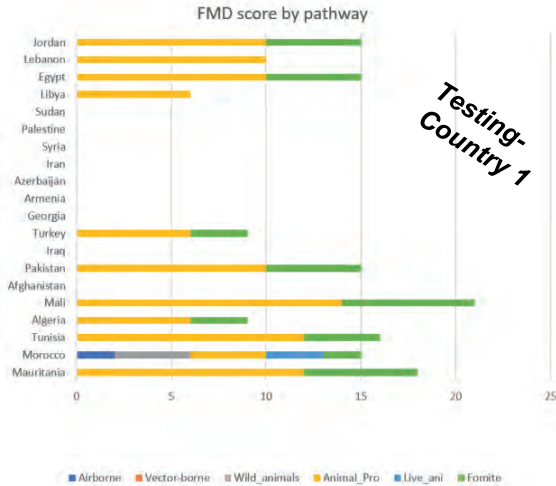
www.pirbright.ac.uk

Threats to Europe (2023)



Risk monitoring

Risk Monitoring tool



Risk score = disease risk * sum across pathways (pathway effectiveness * connection strength for that pathway)

Disease burden *minus* mitigation

Airborne, vector, wildlife, animal product, live animals, fomites

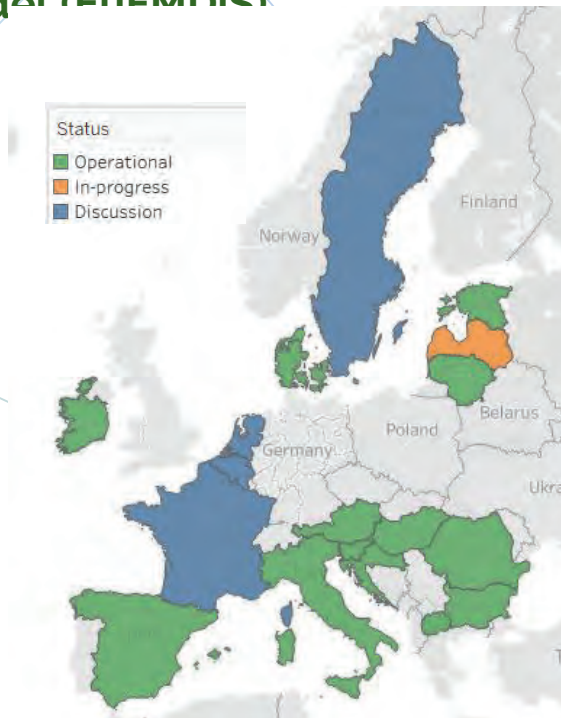
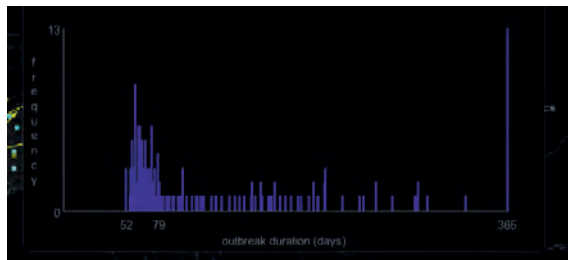
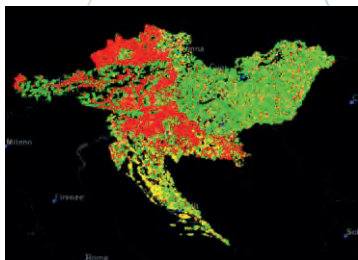
Geographic proximity, import live animals, import animal products, illegal importation of animal products, transport connection by land/air/sea, high livestock density near border

Modeling to assist contingency planners and decision makers

European Foot-and-Mouth Disease Spread Model (EuFMDiS)

EuFMDiS assists contingency planners and decision makers to:

- Compare control strategies.
- Assess post-outbreak management options.
- Assess the spill-over of disease (wildlife to livestock).
- Assess the required resources, vaccine doses, and logistics.
- Evaluate the impacts of shared pasture.
- Assess the epidemiological and economic impacts of the multi-country spread of FMD (including trade ban).
- Evaluate the impacts of a new virus type introduced in a country or region.



Thank you !



Funded by
the European Union

SUSTAINABLE
DEVELOPMENT
GOALS: SDGs
EufMD's
programme has
a main focus on



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eufmdvirtual.com

[EuFMD Trello board](#)

Move FAST

Foot- and- mouth And Similar
Transboundary animal diseases