

## The online database "infoSM" for notifiable animal diseases in Switzerland

Schwermer H (1), Kurmann M (1), Buser R (2), Reist M (1)

(1) Federal Veterinary Office, Schwarzenburgstrasse 155; CH-3003 Bern, Switzerland (2) Federal Office of Topography swisstopo, Seftigenstrasse 264; CH-3084 Wabern, Switzerland

In Switzerland, the Federal Veterinary Office (FVO) has to publish cases of notifiable animal diseases have by regulation. Additionally, such records are needed for reports to the OIE on a 6-monthly basis. Therefore a web application (infoSM) was developed with the main aims (1) to eliminate all data breaks in the case notification process, (2) to minimize the workload both at the FVO and the whole Swiss veterinary service (SVS), (3) to used the most recent technology e.g. SOAP and Mapfish for the Web-GIS, (4) to be as flexible as possible in the future for extending the application functionally and spatially.

Reports of notifiable diseases are imported daily from the software ISVet, that is used by the SVS for all business cases on a routine basis. After a check for plausibility (both by machine and hand) they are released for publication and access in infoSM. Each report is spatial references by geographic coordinates in the Swiss national System CH1903.

For the public, cases of notifiable disease from 1991 onwards are accessible through infoSM. Additionally, reports from the voluntary reporting of equine diseases and total numbers of diagnostic tests for certain diseases are accessible on a cantonal basis. The application offers queries on a monthly basis and county as spatial unit. Disease and animal species are more selection criteria, that can be made even more specific for certain serotypes and production branches. All information can be visualized on maps using the integrated Web-GIS application. Data is presented as aggregated data on the county level, and various backgrounds, such as pixel map, aerial photo map or height data can be selected. Additional information, for example bird and wildlife sanctuaries, from other Federal Offices is integrated using web-mapping service (WMS). Custom layers, for example restriction zones, can be uploaded as kml-files.

For closed users from the SVS, point maps can be created and all queries and map settings as well individual reports can be stored and shared. For reports concerning livestock, farm details can be retrieved. Custom layers can be restricted to be only visible for closed users.

The planed next steps are to integrate background data from other European countries and disease notification data from the EU-ADNS system as well as from the OIE-WAHIS system when it gets available. For the 6 monthly reporting to the OIE WAHIS system, we plan an export option for semi-automatic data exchange. For national data, the use of kml-files should be extended to upload flexible additional information, e.g. suspect cases, cases in species not included in the regulations.

In the first part, the structure and technical solutions of the application will be presented. In the second part, workflows will be presented by examples (online if possible).