

# Pig Health Info System: Development of an app for health data recording



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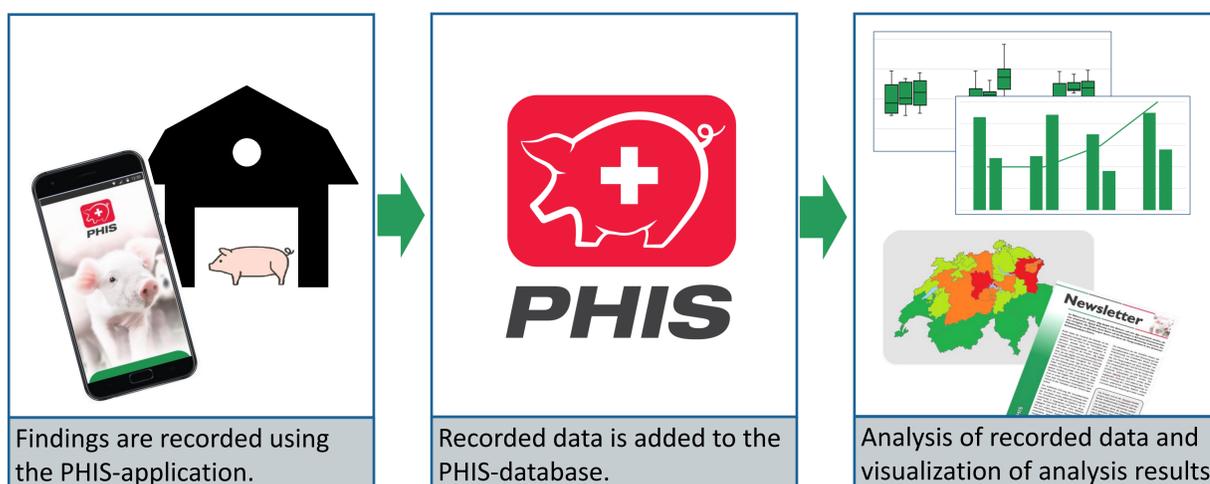
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## Background and Objectives

Data regarding the current health situation in Swiss pig husbandry is hardly available and does neither in quality nor in quantity suit for a nationwide monitoring. However, such an overall monitoring of animal health data would be of high value in relation to health surveillance and early recognition of infectious disease outbreaks.

To supply this need, in the course of the «Pig Health Info System» (PHIS)-project, a system is developed which allows digital recording, storage and analysis of pig health data.

## PHIS - Project



Simplification of work processes, information availability and information transfer

Improved health monitoring and early recognition of infectious disease outbreaks

**Positive impact on animal health in single herds as well as nationwide**



## Summary

An app is developed that supports veterinarians in recording their findings in a consistent and structured manner.

The entirety of data that has been recorded using the app is then available for prompt analyses. These analyses will reveal any temporal or local accumulation of certain symptoms and are supposed to improve nationwide health monitoring and early recognition of infectious disease outbreaks.

**On the one hand, the app is intended to support veterinarians in their daily work, and on the other hand, the analysis of the recorded data should lead to an improvement in national animal health.**

## PHIS - Mobile App

- The veterinarians are provided with an application running on their smartphones, which is used to record findings while examining a farm.
- The application does not only cover symptoms and diagnoses but also observations on surroundings and management.
- The veterinarians decide case-related about the extent of their documentation.
- Before the documentation can be started, the correct farm has to be selected on the map.
- Having completed the recording of a new data set, a report is generated and automatically sent to the farmer and the veterinarian.
- So far, the application can be used to document a normal examination or information about general management. The integration of further elements such as the documentation of laboratory examinations is planned or is already being implemented.
- The application is currently available in German only.



### Video 1:

The most important information recorded using the mobile app includes symptoms or diagnoses, affected animal categories and prevalence. A three-stage diagnostic key, which has already been developed for other projects, is used to record symptoms and diagnoses.



### Video 3:

Information regarding surroundings and management can also be entered in the corresponding section. This information is always related to the current health problem. The veterinarians specifically select the relevant topics depending on the problem.

### Video 2:

In addition to the symptoms and diagnoses, information on the anamnesis can also be recorded. The farmer's observations, the duration since the symptoms appeared, morbidity and mortality, results of former examinations or potential pre-treatments can be documented.



### Video 4:

Various background information, e.g. number of animals per animal category, vaccinations, feeding or water supply, can be entered in the general management section. In this way, this information is always available; but can also be adjusted at any time.



Cooperation partners



Funded by



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