

## Summary

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#### **Experiences with the development of a Computer-aided herd management system in connection with a mobile data acquisition on basis of a transponder reader**

Computer-assisted herd management systems are in today's modern agricultural animal breeding and mast enterprises basis for an effective and economic management. The data capture and data supply close to animal by means of mobile data recording equipments signifies an essential extension of the computer-aided herd management.

The purpose of this project was the development and testing of a mobile herd management system on basis of an industrial hand computer with transponder reader. An industrial hand computer was chosen on account of the robust construction and the possibility of the of the transponder collection for the animal identification for this project. The advantages of a mobile herd management system in the comparison to the conventional data acquisition should be represented.

The system was used at the fertility management of a cattle farm into Brandenburg. Because in the approach no documentation on EDP base took place in this attempt company, a direct comparison of the different kinds of the documentation guidance was to be carried out very well.

In this project the advantages of a mobile herd management system were clearly shown concerning time savings, reduction by mistakes in the documentation and improved management by documentation close to animal. By the production and application of the mobile herd management system requirements could be defined which should fulfil such a system. They were summarized into a Product requirement specification.