

## **Animal Data Exchange Working Group Update.**

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### **Summary**

The dairy industry has seen the rapid adoption of new technologies. Some of these new products such as parlor systems, animal monitoring systems generate large amounts of data that are used by the dairy farmer to make daily decisions on individual or groups of cows. Not only are farms responsible for generating large dataset, milk analysis labs, genomic testing labs are but a few examples of industries generating data. As a result of the explosion in data the interest in using this data for research, product and services development has also increased. ICAR has played an active role in developing data and recording standards for the dairy industry, however the development of data exchange standards has not kept pace. Traditional methods for data exchange have served the dairy industry well, however with the increased volume and complexity of data generated the need for a modern infrastructure to transmit data from point to point that can traverse geographical boundaries is a growing need.

The ICAR Animal Data Exchange (ADE) working group consisting of fourteen industry professionals representing a cross section of the dairy industry are pursuing the development of standards for the exchange of animal data. The group focusses mainly on three aspects of standardization: 1) semantics/ontology (worldwide usable datadictionary) 2) the technical implementation (standardized data exchange in XML and/or JSON API's) and 3) promote the standards (make people aware and stimulate new implementations).

These standards can be adopted by equipment manufacturers, milk recording organizations, dairy record processing centers, herd management software providers, etc.

This presentation will provide an update on the current status, adoption and future efforts of the working group.

*Keywords: data exchange, standards, information management*