

FarmTracking – context aware tracking and alerts using wearables

Problem: Data and information will not help you if you can't see it when you need it. Solution: FarmTracking aims to provide the farmer with a unique opportunity for receiving practice-aimed information and decision support delivered at the right place at the right time. FarmTracking is a concept and a system that uses GPS equipped and wireless connected personnel devices such as wearable's (Google Glass, Smart Watches) or a smartphone. Especially wearable's are interesting as such devices knows what users want before they want it.

A generic framework for a context aware system has been developed, which provide the user with his or her personal data from Danish Field Database or other databases made available at the time and in the place where they are most needed. The FarmTracking system takes into account contextual information in order to adapt operations to the current context without explicit user intervention. For example – if the farmer is close to a manure tank and it is time for him to update compulsory logbook for this tank, FarmTracking will alert him and offer an on the spot opportunity for updating the logbook after he have inspected the crust on the manure.

Our expectations are, that farmers will find it both labor saving and thereby a help to increase efficiency by - as appropriate - receiving information and reminders, so that he can quickly correct any deficiencies. It will help to strengthen the individual farm productivity growth and competitiveness while respecting environment and nature.