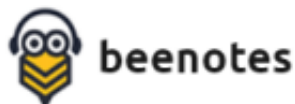# Beenotes™ Apiary Management Solution

Name of the Organisations Involved

- Beenotes Plus

Challenges Identified

Keeping notes in life is a good practice. Taking notes on beekeeping is even better. Some beekeepers apply this practice reverently, maintaining detailed .xls files that document the order of frames, the observed brood, and the type and percentage of pollen. Others use a paper-based system, providing a structured way to record their observations, so that when they visit the apiary, they have a clear idea of what to expect when they open the lid. Some beekeepers mark their hive lids with a marker or simply open the lid to check.

What is certain is that 90% of beekeepers feel the need to document their activities in some way. The younger and fewer bees they have, the more detailed they are. The digitalization of this process and the development of a related tool have been progressing slowly for a few years. Recent developments have caught up, and a new recording app has emerged that is so effective that it cannot be ignored.

Goals and Solution

The Beenotes Apiary Management Software addresses the challenges faced by beekeepers when taking notes, particularly those who prefer using their smartphones for this purpose.

BeeNotes™ software offers beekeepers the ability to take voice notes, collect and analyze hive data, and accurately plan their work, all while maintaining a comprehensive history of their beekeeping actions. Every beekeeper understands the importance of complete and detailed data recording during inspections, but it can be challenging, especially when hands are covered with gloves or occupied with tools. Beenotes solves this problem by automating the recording process, leaving the beekeeper's hands free for work, and eliminating the need for papers, pencils, markers, and other tools.

Essentially, it is a mobile phone application that utilizes voice recognition technology. The application records and converts the voice into digital data, capturing responses to pre-selected questions that the beekeeper customizes based on the season, geographical area, and the pace of hive inspections. Upon completion of the inspection, the data is automatically uploaded to the BeeNotes database.

After each inspection, all the collected data per hive and apiary, including the number of hives, frames, food availability, queen colour, harvest, etc., is displayed directly on the computer or tablet screen, providing a comprehensive overview of the bees' progress. Here, the producer can easily refer back, review, and edit the recordings in greater detail. For instance, if there are recordings from multiple hives, users entering the platform have the option to filter various characteristics, such as identifying the best or worst hives and pinpointing those facing issues, enabling informed decisions about honey production.

Actions Taken

Beenotes is a tool that ensures beekeepers the ability to do their work easier, faster and with better results, i.e. more production. It allows:

- **Voice Guided Inspections**
  Use of the app to easily record what happens on site. Open a dialogue with beehives in 2 ways:
    - With standard questions,
    - With your comments.
- **Group hives according to data**
  Form groups of hives depending on which bee colony needs more space, which queen bee needs replacement, which bees need feeding or treatment, and which beehive is ready for production.
- **Plan actions**
  Plan work on a hive or a group of hives in time and with accuracy. Check the history of your actions and improve your methods and productivity.

Benefits and Impact

A unique and valuable tool for

- Versatile voice inspections,
- Control of bee health and productivity,
- Scheduling made easy leading to efficient apiary management,
- Complete history of actions for as many apiaries and beehives as you want.

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Application Area
☒ Livestock

Digital Technology in the Value Chain
☒ Agronomic Services

Digital Technologies
☒ IoT

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