Outlook of Latvian beekeeping – facts and figures

Facts and figures 20 min.

Digital transformation and Voice enabled colony records BeeKing

23/03/2019

RAKVERE

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Content

- Purpose
- Voice of beekeeper
- Minimum requirements
- Project
- Demo
- Challenges
- Next steps

Need for efficient and user friendly digital hive records

Options

Hivelog

beenotes
listening to beekeepers

HiveTracks
KNOW YOUR BEES

BeePlus

beetight

Digital transformation and influence on the beekeeping

Gap between traditional and digital hive records is huge

Gap

- Too different
- Requires extra time
- Requires internet access

Hivelog

beenotes
listening to beekeepers

HiveTracks
KNOW YOUR BEES

BeePlus

beetight

Voice of beekeeper

Current practices and variety

N=560
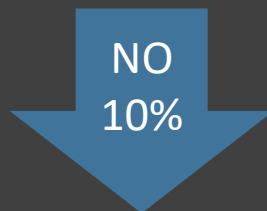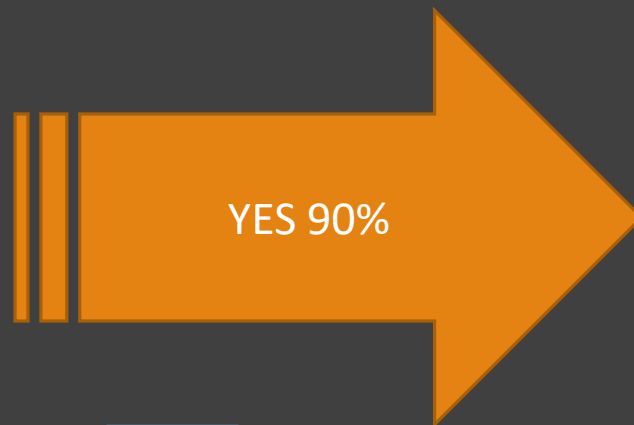Takes notes:
- regular 44%
- irregular 47%
- not at all 9%

Gap:
- Habits
- Skills
- Vocabulary
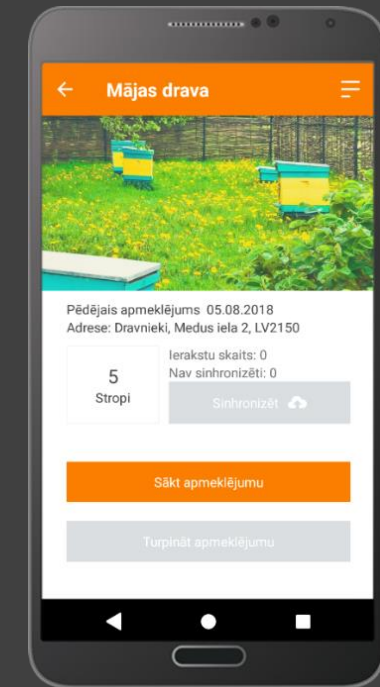- Devices

Digital hive records

Voice of beekeeper

Readiness for change

YES 90%

NO 10%

- Easy to use
- Efficient
- Brings benefits

Minimum requirements for a project

- Easy and intuitive to use
- Voice enabled – terminology
- Inspection-able without internet
- Multiuser
- Marks and Tasks can be assigned
- Latvian & multilanguage ready
- On-line support and onboarding available

Project

- February 2018 – requirements ready development started
- August 2018 – trial started (Latvia, 100+ beekeepers)
- January 2019 – beekeeper on-boarding started (Latvia)
  - Training
  - Support
  - Feedback based development
- April 2019 – active usage period started for Android
- April 2020 – «**colony lifecycle**» reports use for **COLOSS**
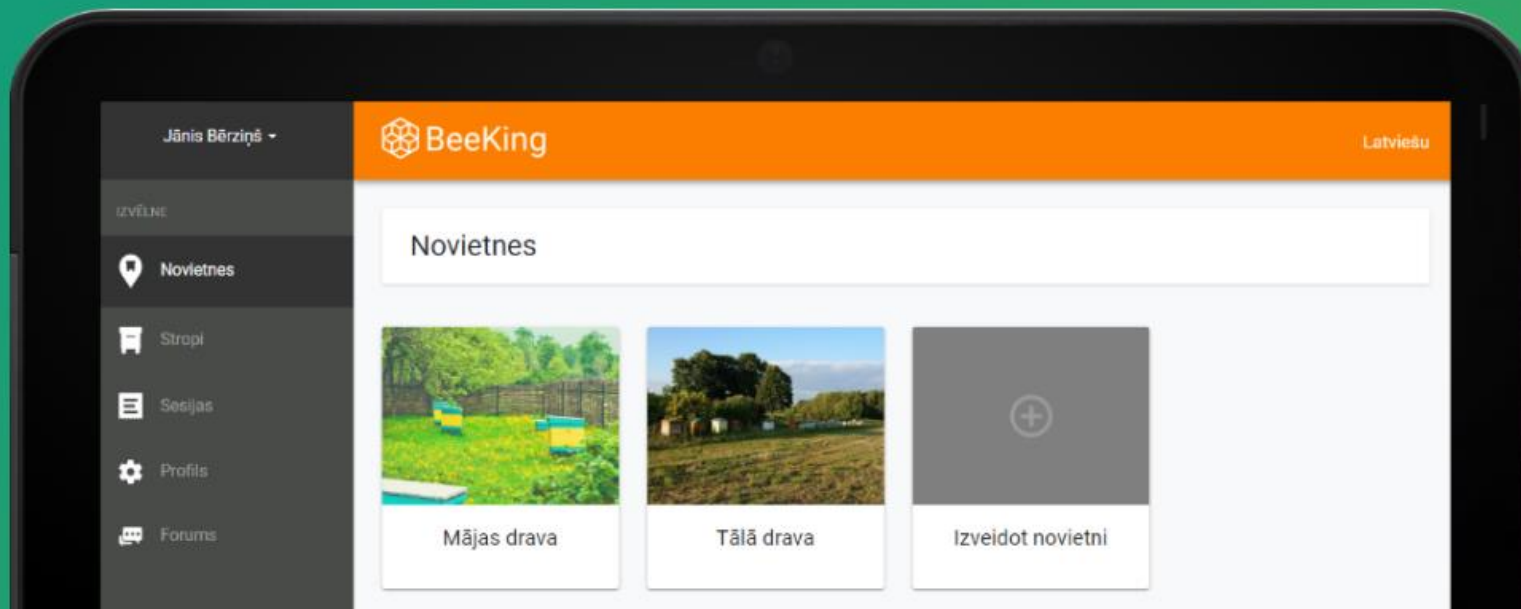
Demo – current functionality

- Languages: Latvian (all) / English (app)

- Recordings in apiary: Hands-free & manual voice, text

- Main sections: Apiary, Hive, Sessions, User Profile, Forum

- Access types: -Web browser (registration, administration, monitoring)
  -Android Mobile App (inspections, history, tasks)

- Support: Service desk and «On-line» forum / knowledge base

Beeking.eu

Current challenges

- To keep focusing on:
  - Simplicity
  - Valuable functionality
  - <u>Colony lifecycle</u> approach
- Voice recognition updates
- Beekeeper efficient on-boarding

Next steps

- **Continuous development**
  - BeeKing for iOS users
  - Analytics (colony, volume, efficiency)
  - 5G capability assessment and Hive monitoring
- **Roll-out outside Latvia**
  - Beekeeper organizations

Thank you!

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Queen rearing using modular hives

23/03/2019

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Practical demonstration guided with pictures on slides about:

- Modular system;

- Filling up NUCs;

- Breeding;

- Merging NUCs.