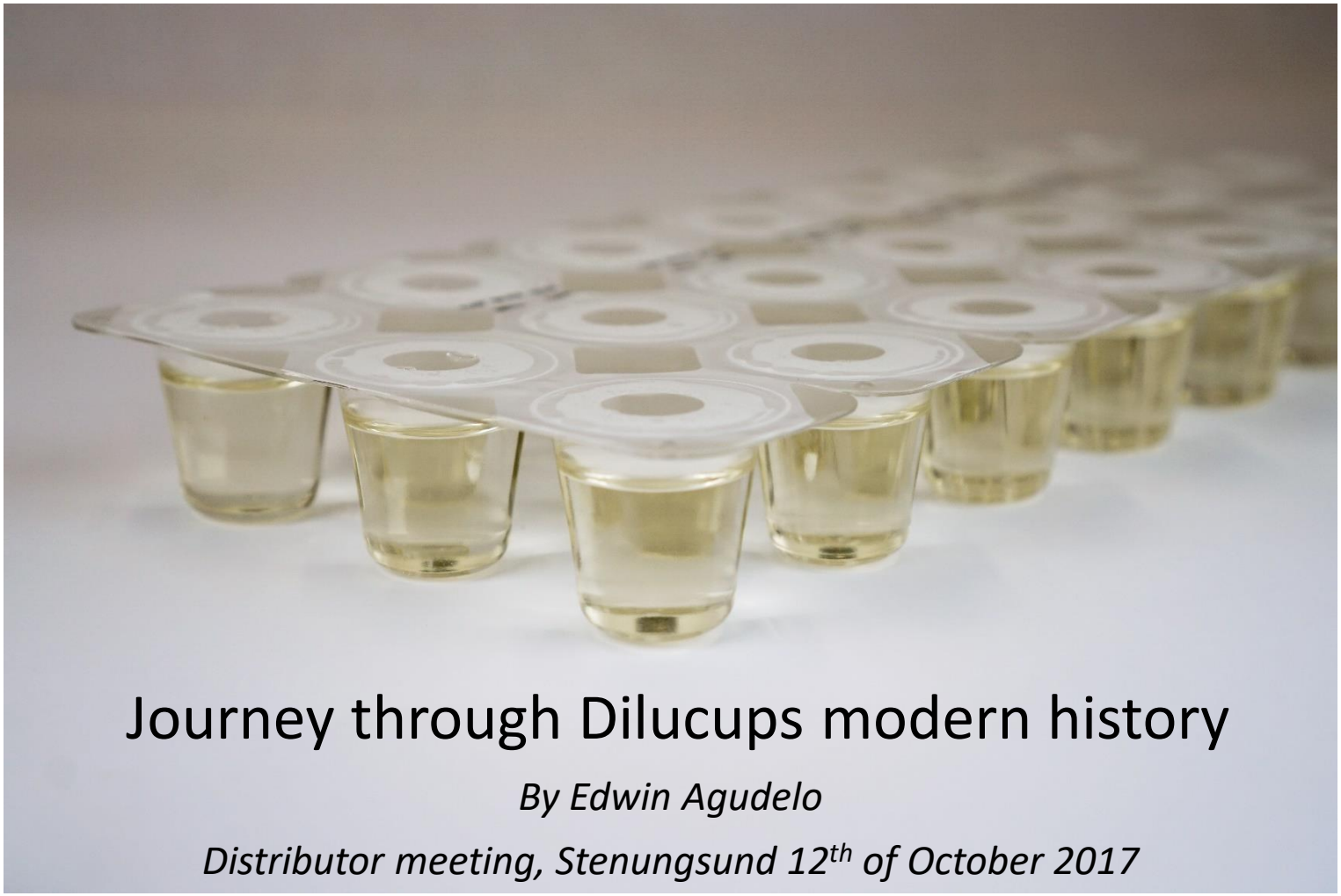
Dilucup Elegance



Journey through Dilucups modern history

By Edwin Agudelo

Distributor meeting, Stenungsund 12th of October 2017

Lab Robot Dilucup Serial Dilution System™

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Agenda

- Learning HOW to produce industrialized Dilucup.
- Producing Dilucup.
- Improvement of Dilucup.
- Going beyond limits.

Learning HOW to produce industrilized Dilucup

- To build a team to produce Dilucup.
- Get into the patent specification.
- Knowing our ”new” 20 years old machine:
  - *Standarized electronic components.*
  - *Unique plastics compositions working together in our machine with just one sealing station.*
  - *Easy to understand its functionality.*
  - *Difficult to fine-tune it.*

Producing Dilucup

- Producing Dilucup with plastic films from special suppliers.
- Oursourcing production steps.
- Servicing our machine.
    - *The manufacter of the machine doesn't have every part in stock.*
    - *Restore spare parts.*
    - *Looking for spare parts all around the world.*
- Understanding our situation at that moment. Accepting it?

Improvement of Dilucup

- Evaluating, testing and producing with plastic films from different suppliers.
- Testing, adjusting and producing production settings. Internal/external.
- Servicing / adapting new, restored or old components on our machine.
    - *Periodicity of services.*
    - *Reliability on our machine.*
    - *Stress on production team.*
    - *Enviromental footprint.*
- To realize the imminent threats with our current machinery and processing routines at that time. Risks of cross contamination.
- Dilucup 2016 project.

Going beyond limits

- Data and experiences were available and we were willing to use them.
- Moving to new facilities. Logistics and production flow have improved.
- Designing (dreaming) the new machine we needed.
- Enviromental footprint. Less raw materials and less waste.
- The expertise we and our suppliers had… It was not enough.
- It’s more than material improvements.
- Dilucup moved into a new epoch.

Going beyond the limits

- Producing 2 pallets Dilucup Elegance in 6 hours.
- Aseptic filling.
- Cleanroom ISO class 7 with ISO class 5 air flow over filling area.
- Electron-beam radiation.
- Standardized production line.
- Semi automatized production flow.
- Weight control in line.

Going beyond limits



Going beyond limits



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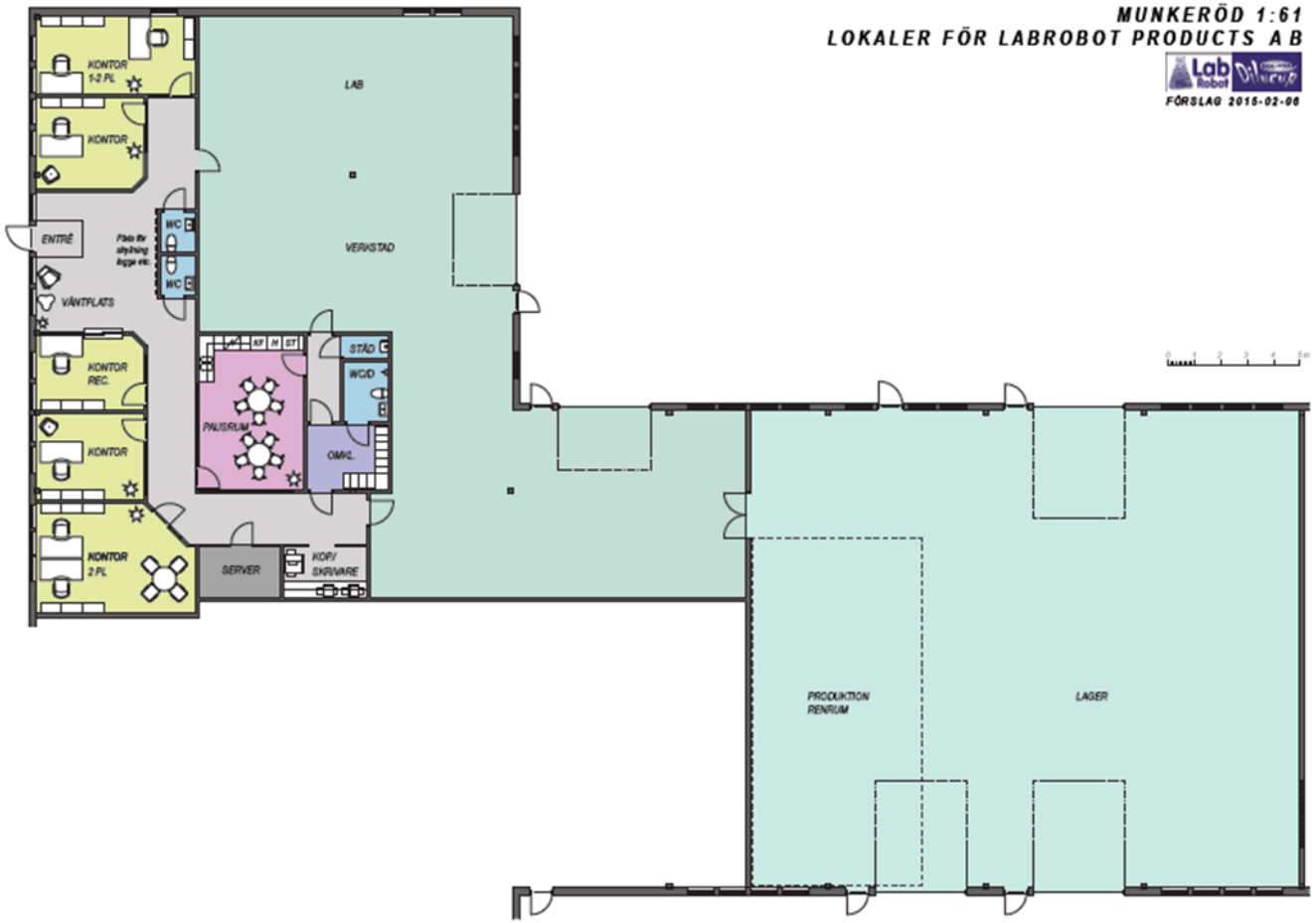
Going beyond limits



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Going beyond limits



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Going beyond limits



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Thank you for listening



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