



KBVCT Automation Project Introduction



Contents

- ❄ Short introduction
- ❄ The project
- ❄ Continuous improvement
- ❄ Factors for success



The Project (1/2)

- ❄ 3 Phases
 - ❄ 1. Automated Gate + Empty Depot (2018 – 2019)
 - ❄ First brainstorms in April 2018
 - ❄ Procurement finished in December 2018
 - ❄ Building and testing finished in May 2019
 - ❄ Go-live in June 2019



The Project (2/2)

- ❄ 2a. 4 automated RTGs + New TOS (2018 – 2020)
 - ❄ First brainstorming in April 2018
 - ❄ RTG Tender finished in April 2019
TOS Tender finished in June 2019
 - ❄ Training and emulating TOS September 2019 – March 2020
 - ❄ Testing and implementing TOS September 2019 – June 2020
Testing and implementing RTGs January 2020 – July 2020
 - ❄ Civil works August 2019 – April 2020
 - ❄ TOS Go-live in June 2020
RTG Go-live in July 2020

- ❄ 2b. 2-4 automated RTGs (202? – 202?)

- ❄ 3. Autonomous transport (2020 – 202?)



RTG yard



Continuous optimization

❄ Operational processes

- ❄ TOS training
- ❄ TOS configuration
- ❄ TOS functionality testing
- ❄ EDI
- ❄ Flow improvement

❄ Technical improvements

- ❄ Crane systems (ECS, BMS, CMS)
- ❄ Crane sensors / scanners
- ❄ Changes to the gate



Factors for succes

- ❄ **From signing the contracts to go live in 13 months!**
 - ❄ Teamwork and effort, go the extra mile!
 - ❄ Company willing to invest and take risks.
 - ❄ New product for the RTG solution.
 - ❄ Surround yourself with knowledge.
 - ❄ Use the local community that is affected by the changes at your terminal
 - ❄ Invest in proper consultancy on all levels
 - ❄ Prepare your organization.
 - ❄ Inform the people in your place of work even if they have nothing to do with the project.
 - ❄ Train your staff properly and don't rush it.
 - ❄ Manage the expectations, first day will not be fun.



Thank you for your attention!

