







KBVCT Automation Project Introduction









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- * 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)

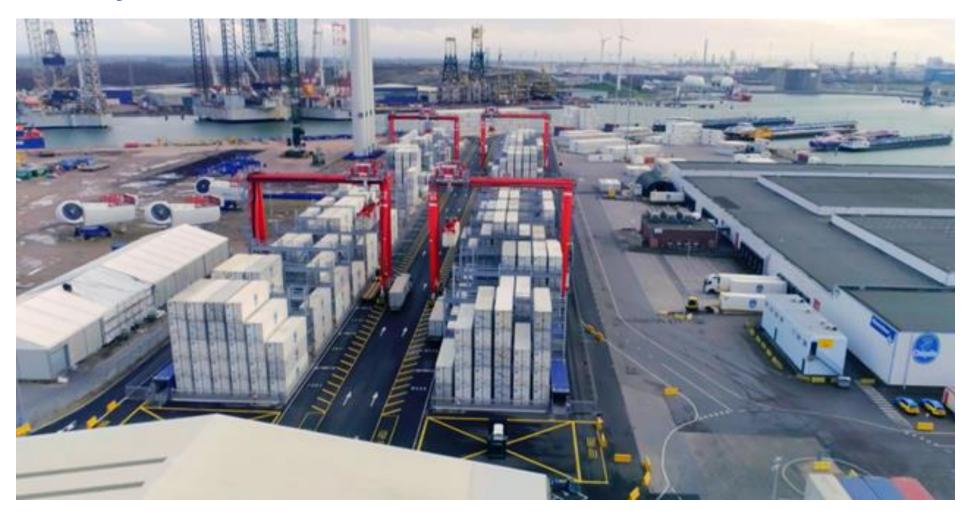
- * 2a. 4 automated RTGs + New TOS (2018 2020)
 - * First brainstorms in April 2018
 - RTG Tender finished in April 2019
 TOS Tender finished in June 2019
 - * Training and emulating TOS September 2019 March 2020
 - * Testing and implementing TOS September 2019 June 2020 Testing and implementing RTGs 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!

