How to successfully introduce automation into a container terminal

UNECE WP 24 workshop on automation,19 October 2022

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INTRODUCTION

- ➤ Patrick Terminals Auto strads

- ➤ Patrick Terminals ARMGs

- ➤ Automation at other container stevedores in Australia

- ➤ Other operators have chosen AGVs instead of straddles

- ➤ Addressing workshop topics

- ➤ Conclusions

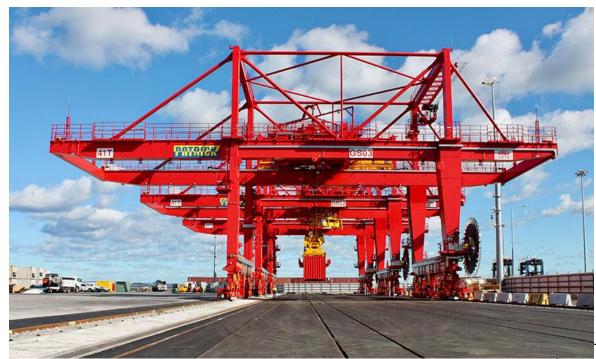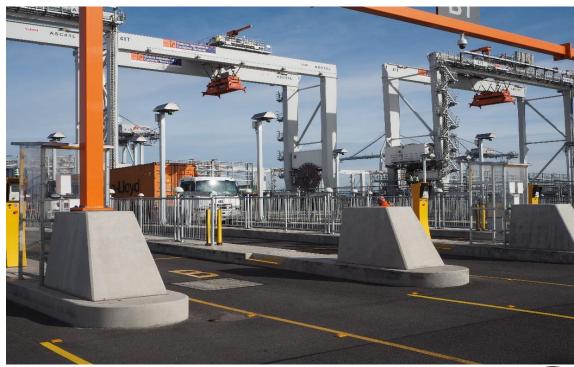# DRIVERLESS STRADDLE CARRIERS

PATRICK TERMINAL SYDNEY AUTOMATED RMGS OVER RAIL

AUTOMATION AT OTHER CONTAINER TERMINALS IN AUSTRALIA

OTHER OPERATORS HAVE CHOSEN AGVs

WORKSHOP TOPICS

➢ How to introduce automation successfully

➢ Safety, liability and cybersecurity in automation

➢ Interoperability of data exchanges

➢ Efficiency gains in automation (ROI)

➢ Pitfalls in introducing automation

➢ Any standards in automation

➢ Possibility for SMEs to take up automation

➢ Conclusions

CONCLUSIONS

➢ Automation is happening across all links in the supply chain

➢ Some technical issues still to be resolved

➢ Connectivity and cybersecurity are major issues

➢ Impact on the labour force

➢ Artificial Intelligence will speed up introduction of increased automation

➢ Difficult if autonomous equipment operates in part manual/part automated environment