## TABLE OF CONTENTS

1	MANAGEMENT SUMMARY	12
2	TERMINAL OPERATING SYSTEMS	14
2.1	Terminology clarification	14
2.2	TOS functional areas	16
3	ARTIFICIAL INTELLIGENCE IN PORT TERMINALS	20
3.1	Artificial intelligence - a new reality at TOS	20
3.2	Integration and synchronisation	24
3.3.	Opportunities and challenges through AI	26
3.4	Conclusion	27
4	TOS USERS' PERSPECTIVE	28
4.1	Selection process	28
4.2	Expectations on artificial intelligence	29
4.3	Key performance indicators	29
4.4	Accuracy of planning and forecast	30
4.5	Interfaces and IT systems	30
5	TOS PROVIDERS' PERSPECTIVE AND PRODUCT OVERVIEW	34
5.1	AI developments in TOS products	34
5.2	Overview of TOS products	35
5.2.1	Input / Output	38
5.2.2	Internal Transport	42
5.2.3	Storage	47
5.2.4	Administration	52
5.2.5	Management and IT	56
6	BIBLIOGRAPHY	60

