

TABLE OF CONTENTS

A. EXECUTIVE SUMMARY	4
B. INTRODUCTION, SCOPE, AND STRUCTURE OF THE STUDY	12
B.1 Introduction	13
B.2 Scope of the study	14
B.2.1 Geographical scope	14
B.2.2 Product segments	16
B.2.3 Transport segments	19
B.2.4 Market accessibility	19
B.3 Structure of the study	23
C. CURRENT RAIL SUPPLY MARKET	24
C.1 Installed base 2025	25
C.1.1 Introduction	25
C.1.2 Rolling stock	26
C.1.3 Infrastructure	35
C.2 World rail supply market – status quo in 2023-2025	38
C.2.1 Introduction	38
C.2.2 Rolling stock market	43
C.2.3 Infrastructure market	59
C.2.4 Services market	72
C.2.5 Rail control (Control Command and Signalling) market	79
C.2.6 Turnkey market	91
C.2.7 Conclusion	91
D. TRENDS AND DYNAMICS IN THE RAIL INDUSTRY	92
D.1 Introduction	93
D.2 Liberalisation and market opening	94
D.3 Digitalisation	99
D.3.1 Introduction	99
D.3.2 Future Railway Mobile Communication System (FRMCS)	101
D.3.3 Automatic Train Operations	106
D.3.4 Predictive maintenance in the rail industry	110
D.3.5 Cybersecurity for connected rail systems	112
E. WORLD MARKET FOR THE RAIL SUPPLY INDUSTRY – FORECAST UNTIL 2031	116
E.1 Introduction	117
E.2 Market forecast by segment	125
E.2.1 Rolling stock market	125
E.2.2 Infrastructure market	138
E.2.3 Services market	148
E.2.4 Rail control (Control Command and Signalling) market	155
E.1.5 Turnkey market	166
F. CONCLUSION	168
APPENDIX	172
Forecast methodology	173
List of figures and tables	177
Glossary	181
Bibliography	186
Contact persons for the study	191