

LIST OF CONTENT

ABSTRACT.....	ii
APPROVAL PAGE.....	iii
ORIGINALITY STATEMENT SHEET.....	iv
PREFACE.....	v
LIST OF CONTENT.....	vi
LIST OF FIGURES.....	x
LIST OF TABLES.....	xi
LIST OF APPENDIX.....	xii
Chapter I INTRODUCTION.....	1
I.1 Background.....	1
I.2 Problem Formulation.....	8
I.3 Research Objective.....	8
I.4 Research Limitation.....	8
I.5 Research Benefits.....	9
Chapter II Literature review.....	10
II.1 Previous research.....	10
II.2 Theoretical Review.....	15
II.2.1 GenAI in Companies.....	15
II.2.2 Enterprise Architecture.....	16
II.2.3 Reference Architecture.....	16
II.2.4 Archimate.....	17
II.2.5 The Open Group Architecture Framework.....	17
II.2.6 Content Validity Index (CVI) Scale.....	19
II.3 Chosen Method/Framework.....	20

II.3.1	Reason for choosing TOGAF.....	20
II.3.2	Reason for Choosing ArchiMate.....	22
II.3.3	Reason for Choosing DSR Methodology.....	22
Chapter III	Research Methodology.....	24
III.1	Conceptual Framework	24
III.1.1	Environment.....	25
III.1.2	Research.....	25
III.1.3	Knowledge.....	25
III.2	Systematization of Problem Solving	25
III.2.1	Problem Identification.....	26
III.2.2	Solution Goal Setting.....	27
III.2.3	Design Development.....	27
III.2.4	Demonstration.....	27
III.2.5	Evaluation.....	27
III.3	Data Collection Method	27
III.4	Data Process Method	28
III.5	Evaluation Method	31
Chapter IV	Problem resolution.....	32
IV.1	Case Description	32
IV.1.1	Research Object Profile.....	32
IV.1.2	Service / Product.....	32
IV.1.3	Consumers.....	32
IV.1.4	Vision and Mission.....	33
IV.1.5	Organizational Structure.....	33
IV.1.6	Current Problem.....	34
IV.1.7	As-Is Architecture.....	35

IV.2	Target Architecture	38
IV.3	Systematic Literature Review	39
IV.3.1	SLR Design.....	40
IV.3.2	SLR selection.....	41
IV.3.3	Synthesis.....	43
IV.3.4	SLR result.....	44
IV.3.5	Expert Interview.....	49
Chapter V	Analysis and evaluation results.....	51
V.1	Preliminary Phase	51
V.1.1	Principle Catalog.....	51
V.2	Architecture Vision	52
V.2.1	Goal/Objective/Requirement Diagram.....	53
V.2.2	Value chain diagram.....	56
V.2.3	Solution Concept Diagram.....	57
V.3	Business Architecture	60
V.3.1	Functional Decomposition Diagram.....	61
V.3.2	Business Interaction Matrix.....	64
V.3.3	Actor Identification Matrix.....	65
V.3.4	Business Footprint Diagram.....	69
V.4	Application dan Data Architecture	71
V.4.1	Application Requirement Catalog.....	71
V.4.2	Application Use Case Diagram.....	72
V.4.3	Application Portfolio Catalog.....	79
V.4.4	Application Interface Catalog.....	79
V.4.5	Application Organization Matrix.....	80
V.5	Technology Architecture	82

V.5.1	Technology Standards Catalog.....	82
V.5.2	Technology Portfolio Catalog.....	83
V.5.3	Environment Location Diagram.....	83
V.6	Evaluation	85
Chapter VI	Conclusion and suggestions.....	88
VI.1	Conclusion	88
VI.2	Suggestion	89
BIBLIOGRAPHY.....		90
Appendix.....		97