

# CONTENTS

Acknowledgements .....	5
Table of contents .....	9
List of figures .....	13
List of tables .....	15
Summary .....	17

## *Part One (Theoretical Research)*

1 Introduction and Overview .....	21
1.1 Introduction .....	21
1.1.1 Contingency theory .....	22
1.1.2 Business policy .....	23
1.1.3 Purpose .....	24
1.2 Overview .....	28
1.2.1 Strategic planning .....	28
1.2.2 Portfolio management .....	30
1.2.3 A systematic approach to strategic planning .....	31
1.2.4 Requirements for a systematic approach to strategic planning .....	32
1.3 Setting of the problem: what <i>are</i> the problems? .....	33
1.3.1 The problem of change .....	33
1.3.2 The problem of learning .....	35
1.4 Methodology and structure .....	38
1.4.1 Methodology .....	38
1.4.2 Structure .....	40
Annex Notes .....	43
2 Literature and Definitions .....	53
2.1 Introduction .....	53
2.2 The contingency approach .....	54
2.3 The systems approach .....	56
2.3.1 The term "system" .....	56
2.3.2 Attributes of systems .....	57

<b>2.4</b>	<b>The concept of organization.....</b>	<b>59</b>
<b>2.4.1</b>	<b>The term "organization".....</b>	<b>59</b>
<b>2.4.2</b>	<b>The organization as an integrated system.....</b>	<b>60</b>
<b>2.5</b>	<b>The concept of management .....</b>	<b>61</b>
<b>2.5.1</b>	<b>The term "management" .....</b>	<b>61</b>
<b>2.5.11</b>	<b>Management as an economic resource .....</b>	<b>62</b>
<b>2.5.12</b>	<b>Management as a task.....</b>	<b>62</b>
<b>2.5.13</b>	<b>Management as a class.....</b>	<b>63</b>
<b>2.5.14</b>	<b>Management as a system of authority .....</b>	<b>63</b>
<b>2.6</b>	<b>The concept of policy .....</b>	<b>65</b>
<b>2.6.1</b>	<b>The terms "policy" and "strategy" .....</b>	<b>65</b>
<b>2.6.2</b>	<b>What <i>is</i> strategic management?.....</b>	<b>66</b>
<b>2.6.3</b>	<b>Purpose of planning .....</b>	<b>69</b>
<b>2.6.4</b>	<b>Practice of planning .....</b>	<b>70</b>
<b>2.6.41</b>	<b>Time dimension.....</b>	<b>71</b>
<b>2.6.42</b>	<b>Process dimension .....</b>	<b>72</b>
<b>2.6.5</b>	<b>Tools and techniques .....</b>	<b>73</b>
<b>2.7</b>	<b>Portfolio management.....</b>	<b>74</b>
<b>2.7.1</b>	<b>What <i>is</i> portfolio management? .....</b>	<b>76</b>
<b>2.7.2</b>	<b>Strategic market segmentation .....</b>	<b>77</b>
<b>2.7.3</b>	<b>Strategic business-unit (SBU) .....</b>	<b>80</b>
<b>2.7.4</b>	<b>Competitive advantage .....</b>	<b>82</b>
<b>2.8</b>	<b>Concluding comments .....</b>	<b>84</b>
<b>Annex</b>	<b>Notes .....</b>	<b>87</b>
<b>3</b>	<b>Theoretical Framework.....</b>	<b>101</b>
<b>3.1</b>	<b>Introduction .....</b>	<b>101</b>
<b>3.2</b>	<b>Components of the conceptual framework .....</b>	<b>103</b>
<b>3.2.1</b>	<b>Business environment .....</b>	<b>103</b>
<b>3.2.2</b>	<b>Organization .....</b>	<b>104</b>
<b>3.3</b>	<b>The three rings of management.....</b>	<b>105</b>
<b>3.3.1</b>	<b>Process management.....</b>	<b>105</b>
<b>3.3.2</b>	<b>People management.....</b>	<b>106</b>
<b>3.3.3</b>	<b>Policy management.....</b>	<b>106</b>
<b>3.4</b>	<b>Definition of overlapping areas .....</b>	<b>107</b>
<b>3.4.1</b>	<b>Culture.....</b>	<b>107</b>
<b>3.4.2</b>	<b>Policy .....</b>	<b>109</b>
<b>3.4.3</b>	<b>Structure .....</b>	<b>110</b>
<b>3.4.4</b>	<b>Management.....</b>	<b>110</b>
<b>3.5</b>	<b>Summary .....</b>	<b>111</b>
<b>Annex</b>	<b>Notes .....</b>	<b>113</b>

## *Part Two (Empirical Research)*

4	Managerial Aspects of International Airline Services.....	123
4.1	Introduction .....	123
4.2	The commercial aviation system.....	129
4.2.1	Air passenger transportation as part of the tourism system .....	131
4.3	The nature of the service product.....	132
4.3.1	Key features of services .....	132
4.3.2	Key features of air services.....	132
4.3.3	Air services as a process in a systemic perspective .....	135
4.4	The airline "product" .....	138
4.5	Airline planning.....	142
4.5.1	Overview .....	142
4.5.2	Past and present planning efforts.....	146
Annex	Notes .....	149
5	Description of Field Study Results .....	161
5.1	Overview .....	161
5.2	Subjects and procedure .....	162
5.3	Field work details .....	165
5.4	Research method .....	165
5.5	Empirical findings: an annotated summary .....	167
5.5.1	Description of key results related to the three rings of management .....	168
5.5.11	Summary of findings on the three rings of management.....	177
5.5.2	Description of key results related to present planning efforts .....	177
5.5.21	Summary of findings on present planning efforts .....	182
5.6	Preliminary conclusions.....	183
Annex	Notes .....	187

## *Part Three (Applied Research)*

6	A Portfolio Approach to Strategic Airline Planning .....	195
6.1	Recapitulation .....	195
6.1.1	Implications for practice .....	196
6.1.2	The strategic problem .....	197
6.2	Portfolio classification models.....	198
6.2.1	Introduction .....	198
6.2.2	Growth-share matrix.....	200
6.2.21	Key characteristics.....	200
6.2.22	Possibilities .....	205
6.2.23	Limitations .....	206
6.2.24	Concluding comments .....	208

6.2.3	The BCG approach to strategic airline planning.....	209
6.2.31	Benefits .....	209
6.2.32	Limitations .....	211
6.2.33	Concluding comments .....	214
6.2.4	Refinements of the growth-share matrix .....	214
6.2.41	Sales-growth-share-gain chart .....	214
6.2.42	Portfolio trajectory matrix.....	216
6.2.43	Analysis of competitors' product portfolios .....	216
6.2.44	Competitive advantage matrix .....	218
6.2.45	Generic strategies matrix .....	219
6.2.46	Profitability analysis matrix .....	221
6.2.47	Profitability-growth-change matrix .....	221
6.2.48	Concluding comments .....	223
6.2.5	Extensions of the growth-share matrix .....	223
6.2.51	General Electric-McKinsey portfolio planning matrix.....	223
6.2.52	Arthur D. Little life-cycle-portfolio matrix .....	228
6.2.53	Shell Chemicals directional policy matrix.....	231
6.2.54	Concluding comments .....	232
6.3	Implications of a portfolio-based business policy – Summary .....	236
6.3.1	Usefulness and risks.....	236
6.3.11	Definition of SBUs .....	237
6.3.12	Interdependencies among SBUs .....	238
6.3.13	Pitfalls in assumptions .....	239
6.3.14	Resource allocation guidelines.....	240
6.3.15	Resource constraints .....	241
6.3.16	Operationalization of dimensions.....	242
Annex	Notes .....	245
7	Concluding Remarks and Suggestions for Further Research .....	257
7.1	Epilogue .....	257
7.2	The next steps.....	264
7.2.1	Observations, explanations, and limitations of this study .....	264
7.2.2	Future research possibilities .....	267
7.3	A final remark .....	271
Annex	Notes .....	275
Glossary	.....	279
Bibliography	.....	295
Appendices	.....	341

## LIST OF FIGURES

1-1	The contingency approach as an eclectic management theory.....	23
1-2	Development of world scheduled revenue traffic .....	34
1-3	A macro to a micro treatment of managerial aspects.....	37
2-1	The organization as an open transformation system .....	61
2-2	The organization as a pyramid of hierarchical levels of authority .....	64
2-3	Elements and levels of management activity .....	64
2-4	The strategic management process as a closed loop system .....	67
2-5	Levels of planning .....	68
2-6	Product-market segment dimensions for air passenger services.....	78
2-7	Strategic market segmentation.....	79
3-1	The organizational system .....	102
4-1	"Hub-and-spoke" system.....	125
4-2	Typical "in-line" network .....	125
4-3	Typical "grid" routenet .....	125
4-4	Advantages and disadvantages of each route network.....	125
4-5	Selected articles in relation to selected journals (1990–93).....	127
4-6	The airline organization as an open transformation system .....	129
4-7	The civil aviation system .....	130
4-8	Air traffic freedoms .....	134
4-9	Major building blocks of the "airline factory" .....	137
4-10	Essential inputs and outputs of a commercial airline organization .....	137
4-11	Customer experience preflight, inflight, and postflight .....	139
4-12	Core and supplementary activities of a diversified airline .....	143
4-13	Development of world scheduled revenue traffic (passenger-km) .....	144
4-14	Development of world scheduled revenue traffic (passengers carried) .....	144
4-15	Operations versus marketing focus .....	145
4-16	Divisional planning areas in a typical airline .....	148
5-1	Core competencies of Singapore Airlines .....	170
5-2	World airline prices .....	173
5-3	World airline yields .....	173
5-4	World airlines' financial results .....	173
6-1	Strategic planning and technique relationships .....	199
6-2	Standard BCG growth-share matrix .....	202
6-3	Desired movements of SBUs and cash flows in the BCG growth-share matrix .....	202
6-4	Experience curve: inflation corrected raw data (Singapore Airlines)...	204
6-5	Experience curve: log relative cost in relation to cumulative output ...	204
6-6	Corporate portfolio of a typical international airline .....	210
6-7	Aggregation/disaggregation example.....	210

6-8	Sales-growth-share-gain matrix .....	215
6-9	Portfolio trajectory matrix .....	215
6-10	Competitors' product portfolios.....	217
6-11	Competitive advantage matrix .....	217
6-12	Relationships between ROI and market share .....	220
6-13	Generic strategies matrix .....	220
6-14	Profitability analysis matrix.....	222
6-15	Profitability-growth-change matrix .....	222
6-16	Revised BCG charts as a set .....	224
6-17	GE-McKinsey portfolio planning matrix.....	226
6-18	ADL life-cycle-portfolio matrix.....	229
6-19	Shell Chemicals directional policy matrix .....	229
6-20	The essence of portfolio management (selective resource allocation) .	235
7-1	Overview of the experience curve/product-life-cycle relationship.....	259
7-2	"Old style" versus "new style" company .....	259

## LIST OF TABLES

5-1	Multi-factor screening model: absolute figures 1989–93.....	164
5-2	Multi-factor screening model: top rankings .....	164
6-1	Method of quantifying business strength and industry attractiveness...	226
6-2	Data on Singapore Airlines for relative unit cost and tkm regression ..	375
6-3	Part of the output from the S-Plus program (Version 3.2) for cost and tkm regression.....	375