CONTENTS

ACKNOWLEDGEMENTS I

SYNOPSIS II

CONTENTS IV

LIST OF IMAGES & DIAGRAMS VII

LIST OF TABLES VII

INTRODUCTION 1

1 CONTEXT OF URBAN TOMORROWS 9

1.1 THE URBAN – OUR COMMON FORTUNE 10

1.1.1 FROM BABYLON TO METROPOLIS 10

1.1.2 RHYZOMATIC GROWTH & URBAN METABOLISMS 12

1.1.3 TECHNOCRACY, TECHNOPHOBIA & TECHNOPHILIA 16

1.2 TOMORROWS – FUTURES, VISIONS & CONTESTATIONS 20

1.2.1 TIME & FLUCTUATION 21

1.2.2 VISIONS & COUNTER-VISIONS 24

1.2.3 MAKING TOMORROWS 28

1.3 SYNTHESIS – VISIONS OF COMPLEXITY GALORE 31

2 INFORMED GUESSING 37

2.1 UNDERSTANDING & PROJECTING 39

2.1.1 FROM CENTRAL PLACES TO DYNAMIC MODELING 40

2.1.2 BIG DATA & REAL TIME SENSING 43

2.2 ENVISIONING & DESIGNING AS SPECULATIVE FORECASTING 48

2.3 SYNTHESIS – UNDERSTANDING, IMAGINARY & PLACE 55

3 PUZZLING URBAN TOMORROWS TODAY 60

3.1 THE COMPENDIUM IDEA – ORIENTATION & OVERVIEW 61

3.1.1 STUDENT WORKSHOPS & SUMMERSCHOOLS 64

3.1.2 EXPERT INTERVIEWS – IMAGINEERS LEADING THE DEBATE 65

3.1.3 SYMPOSIUM AS INPUT 71

3.1.4 CROWD-SOURCING A BROADER PERSPECTIVE 73

3.2 REVIEW & LIMITATIONS 75

4 VISIONS OF CITIES 2030 80

4.1 NEXT ECOLOGICAL VISIONS 87

4.1.1 GREEN CITY 89

4.1.2 ANTHROPOCENE & NEW FRONTIERS 91

4.1.3 (SUSTAINABLE) RESILIENT CITY 94

4.2 NEXT ECONOMIC VISIONS 96

4.2.1 CIRCULAR ECONOMY 97

4.2.2 SHARING ECONOMY 98

4.3 NEXT SOCIETAL VISIONS 100

4.3.1 DIGITAL SOCIETY – CYBORGS & INTERNET OF THINGS 101

4.3.2 EDUCATIONAL CITY 103

4.4 NEXT TECHNOLOGICAL VISIONS 106

4.4.1 SUBTERRANEAN/UNDERGROUND CITY 107

4.4.2 HIGH-RISE, HIBRID, MEGASTRUCTURES 110

4.4.3 INTELLIGENT, SMART, TECH-CITY 113

4.5 NEXT OTHER VISIONS 115

4.5.1 INDEPENDENT CITY STATES 115

4.5.2 MEGALOPOLIS, ECUMENOPOLIS & SUBURBIA 116

4.5.3 CO-CITY – PARTICIPATORY, ALTERNATIVE CITIES 118

4.6 SYNTHESIS – WHERE TO? 121

5 REALITIES 2030 124

5.1 RESEARCH - DESIGN - ACTION 126

5.1.1 (UN)CERTAINTY, (RE)ASSURANCE & EASE 127

5.1.2 CO-MAKING FLEXIBLE PLURALITIES 132

5.2 A QUEST FOR NEW TOOLS 141

5.2.1 URBAN DESIGN COMMUNICATION 142

5.2.2 DEMOCRACY IN THE CLOUD ? 145

5.3 FUTURE URBANISTS 151

5.4 OUTLOOK: TIME FOR NEW MANIFESTOS? 157

REFERENCES 161

ANNEX I – WORKSHOPS & SUMMERSCHOOLS 181

1 LOOP CITY (2011) 181

2 GREEN MOABIT (2012) 181

3 MILITARY URBANISM (2012/13) 182

4 REGIONAL CITY – THE FUTURE OF PERIPHERY (2013) 182

5 PLURAL PRODUCTION & FABRICATION (2014) 183

6 INTERDISCIPLINARY FUTURES – PROJECTIONS 2030 / METASIP 2014 183

ANNEX II – INTERVIEW GUIDE 184

ANNEX III – CROWD-SOURCING 185

LIST OF IMAGES & DIAGRAMS

FIGURE 1: DMC-12 DELOREAN TIME-MACHINE 2

FIGURE 3: FINDING KNOWLEDGEABLE ORACLES 67

FIGURE 4: SYMPOSIUM POSTER 70

FIGURE 2: RESEARCH PROCESS OVERVIEW 79

FIGURE 5: POSSIBLE CHARACTERIZATION OF VISIONS 81

FIGURE 6: SATELLITE IMAGE OF DELHI 86

FIGURE 7: EDEN PROJECT 93

FIGURE 8: MOTHERBOARD 105

FIGURE 9: HIGH-RISES IN SHIBAM 112

FIGURE 10: ECUMENOPOLIS 118

FIGURE 11: SATELLITE IMAGE OF PARTS OF THE UNITED ARAB EMIRATES 122

FIGURE 12: RESEARCH - DESIGN - ACTION 140

FIGURE 13: DATA PROCESSING WORKFLOW IN THE PLANNING PHASE 191

FIGURE 14: FINAL FLOW OF INFORMATION IN THE SOCIAL MEDIA PROCESS PIPELINE. 194

LIST OF TABLES

TABLE 1: INTERVIEWEES 68