
Contents

Foreword	xi
Preface	xv
Acknowledgments	xxvii
Introduction	xxix
Chapter 1. Looking Backwards To Look Forwards: Why a Change of Civilization?	1
1.1. What is a civilization?	1
1.2. The great waves of civilization in history	1
1.2.1. The notion of dominant activity	2
1.2.2. The characteristic domains of each era	3
1.2.3. The evolution grid	4
1.2.4. The era of creation and communication.	10
1.3. Considerations on the evolution of civilizations	18
1.3.1. An exponential evolution.	18
1.3.2. From mass duplication to customized production	21
1.3.3. Questions around the creation–communication era	22
1.3.4. Evolution and fragmentation of value systems and representations of the world.	25
1.3.5. The couple as a matrix of societal transformations	29
1.3.6. The alternative of blocking or fleeing.	31
1.3.7. Moving towards the future	32

Chapter 2. Creation and Communication as the Basis of the Civilization of the Future	35
2.1. The value of otherness	35
2.2. The creative strategy	40
2.3. Personal development, knowing how to create and communicate around our vocation: the mutation of professions	45
2.4. Information literacy and creativity	48
2.4.1. Freeing up time to be	49
2.4.2. Differentiation of ego, personality and genius in the creative process	49
2.4.3. The three levels of consciousness	51
2.4.4. Materialism and idealism back to back	53
Chapter 3. The Transformation of Organizations Towards More Collective Intelligence	55
3.1. Let human imagination and inspiration take over	55
3.1.1. The evolution of human beings' position and their reference points	57
3.1.2. The four relational principles	58
3.1.3. Culture, management, systems and structures	59
3.1.4. Evolution of companies	61
3.1.5. Missions of the human resources function	62
3.1.6. Attitudes towards the customer	62
3.1.7. Old laws and avant-garde organization	63
3.2. Mimicry and singularity	65
3.2.1. Mimicry, a still under-exploited force	65
3.2.2. A mimicry that benefits the leader, but for how long?	67
3.3. Singularity and creative strategy	69
3.3.1. Ideological enterprises	70
3.3.2. How can we develop creative emergences?	71
3.3.3. The leader between mimicry and singularity: the art of overcoming paradoxes	72
3.4. The extended enterprise	74
Chapter 4. International Foresight on Innovative Ecosystems	77
4.1. Why a forward-looking view?	79
4.2. Why innovation?	79
4.3. Why have an international foresight institute on innovative ecosystems?	83
4.4. Introduction to innovative ecosystems	84
4.5. The importance of startups and venture capital	93
4.6. Criteria for measuring innovative startup ecosystems	94
4.6.1. Rankings to measure the dynamics of territorial innovation	96

Chapter 5. A Global Overview of Innovative Ecosystems	97
5.1. Silicon Valley, the digital capital.	97
5.1.1. Spectacular and preserved nature	98
5.1.2. An international reference and an outstanding position	98
5.1.3. The largest concentration of start-ups and venture capital in the world	100
5.1.4. Focus on Palo Alto	101
5.1.5. The home of GAFAM	103
5.1.6. Focus on San Francisco	103
5.1.7. The cradle of an emerging culture: a culture of adventure and exploration	104
5.1.8. The cost of living and soaring real estate prices	104
5.2. New York: the capital of the world of finance, media, art, publishing and advertising	104
5.2.1. History	106
5.2.2. General description	107
5.2.3. Museums.	108
5.2.4. Talents	109
5.2.5. Universities	110
5.3. London, capital of the British Empire	111
5.4. Beijing: capital of the Chinese Empire.	113
5.5. Boston: the capital of strategy and consulting.	116
5.6. Berlin: capital of the German Empire	117
5.7. Shanghai: the international capital of Asia	119
5.8. Los Angeles: the film capital of the world.	121
5.9. Seattle: capital of the Microsoft empire	123
5.10. Paris: capital of culture, humanism and luxury	124
5.11. Singapore: the financial capital of Asia	127
5.12. Tokyo: capital of Japan	129
5.13. Stockholm: capital of perfectionism	130
5.14. Munich: the capital of expertise.	131
5.15. Copenhagen: capital of happiness.	134
5.16. Taipei: capital of manufacturing	136
5.17. Geneva: the international capital of NGOs.	139
Chapter 6. Learning from Global Innovation Systems	143
6.1. Digitalization: technological convergence and artificial intelligence	143
6.2. Concentration	143
6.3. The Triad: epicenter of global innovation	144
6.3.1. North America	144
6.3.2. Western Europe	145
6.3.3. East Asia	146

6.3.4. What do the poles of the Triad have in common?	147
6.4. Center and periphery	147
6.4.1. Africa	148
6.4.2. South America	149
6.4.3. India	149
6.4.4. Australia	150
6.4.5. Living in the ocean?	151
6.4.6. The conquest of space: colonizing the Moon and Mars	152
6.5. The shared values of the Triad	152
6.5.1. Think global and act local	152
6.5.2. Team and process	153
6.5.3. The importance of the pitch	154
6.6. The “11 Fs” culture	154
6.6.1. The “5 F’s” according to Rosabeth Moss Kanter	155
6.6.2. The other “Fs” observed	158
6.6.3. The dark side of the “Fs”	160
6.7. The middleground	161
6.8. The triple helix	162
6.8.1. Repetitive innovation	164
6.8.2. From closed to open innovation	164
6.8.3. From technological innovation to systemic innovation	165
6.8.4. From individual innovation to collaborative and interdisciplinary innovation	165
6.8.5. From spontaneous to systematic innovation	166
6.8.6. From exchange-based innovation to co-creation in innovation spaces	167
6.8.7. Innovation projects with common innovation cultures	167
6.9. The one-man band	168
Chapter 7. Systemic Risks and the Emergence of the New Civilization	169
7.1. Demography, urbanization and economic disparities	169
7.2. The Anthropocene	172
7.3. The end of oil	173
7.4. Global governance and the rise of extremes	174
7.5. The limits of planetary resources	176
7.6. Evolutionary scenarios	178
7.6.1. The scenarios of decline	181
7.6.2. Scenarios that do not have an environmental priority	181
7.6.3. Voluntary scenarios with an environmental priority	181

Chapter 8. The Beginnings of the New Civilization	183
8.1. How should we respond to existential systemic risks?	183
8.2. Towards a clash of civilizations or a new civilization?	184
8.3. Draw me a happy and sustainable humanity	185
8.3.1. Infinite exponential growth?	188
8.3.2. Present and future manifestations of the crisis	191
8.3.3. What can be done?	191
8.3.4. Imagining a new sustainable social and ecological economic system	192
8.4. Six axes of development for an ecological civilization.	195
8.4.1. Radically increase raw material productivity	195
8.4.2. Practicing production models inspired by nature: biomimicry	195
8.4.3. Establishing a service and rental economy	196
8.4.4. Investing in natural capital	196
8.4.5. Dematerialization of production	196
8.4.6. Digital virtualization	197
8.5. Reconciling economic, social and ecological objectives	197
8.6. A plural interpretation of the civilization of the future	199
8.7. Innovative ecosystems as the cradle of the new civilization, but how?	200
8.8. The new civilization: a puzzle in the making	201
8.8.1. Seventeen goals for sustainable development	201
8.8.2. Auroville	201
8.8.3. Information society	202
8.8.4. Biomimicry	202
8.8.5. Circular economy	204
8.8.6. Sharing economy	205
8.8.7. Complementary and alternative currencies	205
8.8.8. Basic income	207
8.8.9. Club of Rome	207
8.8.10. Fondation 2100	208
8.8.11. Drawdown organization	209
8.8.12. Global Ecovillage Network (GEN)	209
8.8.13. Transhumanism	210
8.8.14. Burning Man	212
8.8.15. The Factory of the Future	213
8.8.16. Tellus Institute	214
8.8.17. Mosaic	214
8.8.18. Université Catholique de Lille	215
8.9. The new civilization: a patchwork of eclectic personalities	215
8.9.1. Sri Aurobindo	215
8.9.2. Pierre Teilhard de Chardin	216
8.9.3. Alvin Toffler	216
8.9.4. Edgar Morin	217

8.9.5. Ervin László	218
8.9.6. Manuel Castells	218
8.9.7. Jarett Diamond	219
8.9.8. Duane Elgin	219
8.9.9. Gunter Pauli	219
8.9.10. Bruno Latour	220
8.9.11. Joël de Rosnay	220
8.9.12. Jeremy Rifkin	220
8.9.13. Paul Hawken	221
8.9.14. Kenneth Wilber	222
8.9.15. Yuval Noah Harari	223
Conclusion	225
References	245
Index	263