

Table of Contents

Introduction	xi
Nicholas LESCA	
Chapter 1. Sustainable Development: a Vague and Ambiguous “Theory”	1
Yvon PESQUEUX	
1.1. Introduction.	1
1.1.1. The origins of the notion	2
1.1.2. The extensiveness of the notion	3
1.1.3. Milestones of the institutionalization of sustainable development.	4
1.2. Sustainable development as a “vague” theory	6
1.2.1. Sustainable development and “principles”	6
1.2.2. Conceptual dimensions and sustainable development	7
1.2.3. Sustainable development and its indicators.	8
1.2.4. The organizational dimension of sustainable development	8
1.3. Company actions justified by reference to the notion of sustainable development: consequentialism tested by modern deontology	9
1.3.1. The chronological stages of taking ecological stakes into account	10
1.3.2. The management stakes of sustainable development	11
1.4. The dimensions of ambiguity of the notion	14
1.4.1. The associated references	14
1.4.2. The “tensions” associated with the notion	16
1.4.3. Ambiguities of the meaning of sustainable development	17
1.4.4. The ambiguity of company attitudes vis-a-vis sustainable development.	18

1.5. Conclusion: calling into question managerial references in relation to sustainable development	19
1.5.1. Provisional detour via the markets: the “right to pollute”	20
1.5.2. The return of politics and regulation.	21
1.6. Bibliography	22
Chapter 2. Parameters and Particularities of Sustainable Development-oriented Strategic Scanning	25
Marie-Laurence CARON-FASAN	
2.1. Introduction.	25
2.2. Strategic scanning	26
2.2.1. Strategic scanning activities.	26
2.2.2. Strategic scanning and its different facets	27
2.2.3. Sustainable development-oriented scanning and its different facets	32
2.3. Applying a sustainable development-oriented strategic scanning process	36
2.3.1. Strategic scanning as a process of gathering information	36
2.3.2. Strategic scanning as a cybernetic system	40
2.3.3. Strategic scanning as a project	41
2.4. Conclusion	44
2.5. Bibliography	45
Chapter 3. Sustainable Development of Large Network Service Companies: Inhabiting Territories via Middle Managers, Strategic Scanners	47
Alain Charles MARTINET and Marielle Audrey PAYAUD	
3.1. Introduction.	47
3.2. The foundation of modeling	48
3.2.1. The objective: a heuristic model	48
3.2.2. Epistemology: the re-evaluation of practical reasoning and the science of design	49
3.2.3. The method favors research-intervention and long-term immersion	50
3.2.4. The content: taking into account a forgotten element of research in strategic management – the territory	51
3.2.5. A paradoxical aim: the sustainable company in a liquefied world	51
3.3. The architecture of the model	52
3.3.1. Large service companies that are territorialized	53
3.3.2. Technically disparate sector.	54
3.3.3. Relatively fragmented territory.	55

3.3.4. A production capacity strategic formula	57
3.3.5. Company or group	59
3.3.6. A management style inspired by investor and developer configurations.	60
3.4. Middle managers: key players of sustainable development.	62
3.4.1. Network, territory and middle managers	62
3.4.2. Recognition of dispersal and features is via scanning-strategist middle managers	64
3.4.3. The role of middle managers according to the strategic formula	65
3.4.4. The binding of a group.	68
3.5. Conclusion	71
3.6. Bibliography	72
Chapter 4. Small Business and Sustainable Development	77
Michel MARCHESNAY	
4.1. Introduction.	77
4.2. The favored SD fields.	77
4.2.1. The ecosystem.	78
4.2.2. Healthcare	78
4.2.3. Ethics and social responsibility.	79
4.3. SB: a multiple identity	79
4.3.1. The ideal type of SB	79
4.3.2. ... responds to the diversity of SB types....	80
4.3.3. ... and the entrepreneurs' reasons for action	81
4.3.4. A typology of entrepreneurs/SD	82
4.4. Strategic scanning in SBs: a specific approach	84
4.4.1. The foundations of the specificity	84
4.4.2. An appropriate grid of analysis.	86
4.5. Types of entrepreneurs, strategic scanning and SD	87
4.5.1. The militant	87
4.5.2. The organizer	89
4.5.3. The eco-enthusiast	92
4.5.4. The opportunist	96
4.6. Conclusion	98
4.7. Bibliography	99
Chapter 5. Human Resources Scanning: a Tool for the Implementation of Sustainable Development?	101
Marie-Christine CHALUS-SAUVANNET	
5.1. Introduction.	101

5.2. Theoretical approach, explanations and the link between HRS and SD	102
5.2.1. The choice of human resources.	102
5.2.2. Characteristics of HRS.	103
5.2.3. HRS in terms of SD	105
5.3. Research methodology	109
5.3.1. The choice of methods for data collection	109
5.3.2. Presentation of information about the companies studied	109
5.3.3. Information sought and research progress	111
5.4. Results and discussion	111
5.4.1. Which SD and which HRS practices were used?	112
5.4.2. Links between HRS and SD	114
5.5. Conclusion	124
5.6. Bibliography	125
Chapter 6. Sustainable Scanning in a Network: an Ambitious Project for Company/territory Synergies Creation	129
Magalie MARAIS, Solange HERNANDEZ and Olivier KERAMIDAS	
6.1. Introduction.	129
6.2. Sustainable scanning within RPISED: a “chameleon” concept locally orchestrated.	131
6.2.1. Sustainable scanning: a tool at the heart of tensions and opportunities in the organizational project of sustainable development.	131
6.2.2. RPISED: a relay structure or leverage for efficient implementation of sustainable scanning?.	137
6.3. An empirical study of sustainable scanning in the RPISED: a methodological approach	140
6.3.1. Three case studies in the PACA region	140
6.3.2. The methodology of gathering and processing data.	142
6.4. Empirical contributions to the theory: presentation of the main results	143
6.4.1. Scanning in terms of sustainable development: companies’ point of view	143
6.4.2. The role of RPISED in the improvement of sustainable development-oriented scanning	148
6.5. Conclusion	156
6.6. Bibliography	157

Chapter 7. The Greenhouse Gas Inventory: a Scanning Tool in the Fight Against Climate Change	161
Odile BLANCHARD	
7.1. Introduction.	161
7.2. Methodology for constructing a GHG inventory	163
7.2.1. Scope of the inventory	164
7.2.2. Collection of data	167
7.2.3. Collection or estimation of emission factors	168
7.2.4. Calculation of emissions.	169
7.2.5. Specificity of the carbon footprint of a product	171
7.2.6. Guidelines for the construction of a GHG inventory	172
7.3. The GHG inventory as a strategic scanning tool	173
7.3.1. The emissions inventory as an internal strategic scanning tool	173
7.3.2. The emissions inventory as an external strategic scanning tool	177
7.3.3. Summary	179
7.4. Conclusion	180
7.5. Bibliography	182
Chapter 8. Targeting “Sustainable Scanning”: a Methodology Based on Logistics and Supply Chain Management	185
Nathalie FABBE-COSTES, Christine ROUSSAT and Jacques COLIN	
8.1. Introduction.	185
8.2. Sustainable development: multiple logistical stakes	186
8.3. Relevance of logistics and SCM to anticipate evolutions linked to sustainable development and imagine strategic directions: examples	191
8.4. The logistics intelligence process to target sustainable scanning	196
8.5. Confronting LIP and sustainable development: a first test based on secondary data	203
8.6. Conclusion	207
8.7. Bibliography	208
Chapter 9. Our Actions and Projects, their Risks and Impact on the Environment: using the Weak Signal Concept to Explore Unforeseen and Unexpected Possibilities	213
Nicolas LESCA	
9.1. Introduction.	213
9.2. The future: a field of possibilities	215
9.2.1. People, their actions and their responsibilities	215
9.2.2. Limitations of “forecast” methods to anticipate	219
9.2.3. The future: a field of possibilities	224
9.3. Detecting weak signals and early (warning) signs in order to explore unexpected possibilities	229

9.3.1. Signals	229
9.3.2. Signs	233
9.3.3. Weak signals and early (warning) signs.	236
9.3.4. Strength of signals and signs and trajectory of a possibility	239
9.4. Conclusion	244
9.5. Bibliography	244
Chapter 10. Sustainable Chemistry and Weak Signals: CO₂ as a Raw Material to Value	249
Humbert LESCA	
10.1. Introduction	249
10.1.1. Context of the intervention and hypothesis of the approach	250
10.1.2. The challenges of the intervention	251
10.1.3. Modalities of the intervention.	253
10.2. First step: lead the committee to discover the field of sustainable chemistry themselves	253
10.2.1. Phase 1: choice of a field in which to carry out the experiment.	253
10.2.2. Preparation of information to be used during the collective session	254
10.2.3. Session of collective creation of meaning within the committee	259
10.3. Collective construction of puzzles during the session concluding the four-month delay	262
10.3.1. Characteristics of the experimental anticipative strategic scanning device.	263
10.3.2. Learning to detect potential weak signals	264
10.3.3. Access to field information	266
10.3.4. Preparation of information in order to construct the puzzle	266
10.4. Example of a puzzle constructed towards the end of the final collective creation of meaning	267
10.5. Conclusion	269
10.6. Bibliography	269
Glossary	271
List of Authors	285
Index	287