Contents

Foreword	5
Abbriviations	6
Contents	7
1. Introduction	9
Visualization	11
2. Product development (PD)	17
Product development drivers	18
3. The governance system	21
Command and control	25
Andon	27
Governance; the whole picture	28
4. Knowledge gaps (k-gaps)	31
There are four kinds of k-gaps	34
Knowledge gap handling	35
5. Visual planning	39
Traditional planning of development projects	40
Visual planning (VP)	42
Benefits from Visual Planning	50
6. Interface management	51
7. Noise reduction	57
8. Synthesis—bringing it all together	61
9. Project room	65
10. Multi-project management	73
11. Resource management	75
12. Methods & Tools	77
A3 reports	84
"Visible knowledge"	87
13. Organization	91
14. Rules of thumb	93
Use pull, instead of push	93
In every moment do the most important	94

Focus on the process, not the result	95
The user—not the customer	95
Switch between tasks—do not rely on a specific prepl sequence	anned 98
Make many small, and few large decisions	99
Be like flowing water	101
Identify and focus on the main problem	102
Identify primary and secondary demands	102
Make sure that the primary and secondary demands seach other	support 102
Maximize functional-, sensuous-, and image values	103
Switch between totality, module, and detail	103
Simultaneously develop in parallel the product concept goals	ot and 103
The 80/20 rule	104
Taking notes—keeping a diary	106
Design and verify concurrently	107
Create a vision and rely on coarse long term planning rolling detailed short-term plan	with a 109
Weekly reporting	110
Colocation	110
Make use of the walls	112
Use projects for product development	112
Designing with extremes	115
Use BAD-PAD-MAD	116
Abstract the task	118
Reinvent the wheel!	120
Use creative dialog often	120
Identify primary and secondary demands	122
15. Principles	123
16. Transformation to LPD	127
Kaizen and hansei—improve and reflect	129
17. References	133
18. Appendix 1	138
19. Appendix 2	144
20. Appendix 3	145