

IFR Business
Contradiction Matrix

		R&D Capability	R&D Cost	R&D Time	R&D Risk	R&D Interfaces	Productivity/Manufacturability	Production Costs	Production Time	Production Risk	Production Interfaces	Supply Means	Supply Cost	Supply Time	Supply Risk	Supply Interface	Product Reliability	Support Cost	Support Time	Support Risk	Support Interfaces	Customer Feedback	Amount of Information	Communication Flow	System Affected Harmful Effects	System Generated Harmful Effects	Convenience	Adaptability/Versatility	System Complexity	Control Complexity	Tension/Stress	Stability
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1	R&D Capability		2 4 15 38	21 38 35 23	3 9 24 23	3 13 24 33	23 29 35 4	37 35 10 3	35 6 10 2	3 5 10 2	5 7 37 1	6 2 35 25	15 6 1 5	2 3 12 26	11 39 30 31	11 26 2 5	36 11 2 35	15 35 28 25	5 2 6 27	15 27 40 12	11 2 5 9	14 13 22 7	37 13 25 10	6 25 31 29	11 25 2 26	25 29 2 37	15 35 25 16	30 25 29 1	17 25 1 19	25 15 19 35	3 2 25 35	25 2 15 36
2	R&D Cost	2 4 15 38		26 34 1 10	27 9 34 16	13 26 34 10	5 2 27 1	26 35 1 7	10 2 10 15	6 7 23 26	15 35 10 25	23 6 11 28	10 5 35	10 19 35 22	11 13 2 16	10 38 13	27 6 1 10	6 1 10 25	6 1 25 10	10 25 6 10	6 10 2 17	7 25 30 21	37 25 2 2	6 18 37 13	35 27 3 28	28 26 2 22	25 2 6 5	35 28 19 1	5 2 35 1	25 19 2 37	1 19 35 27	11 25 27 15
3	R&D Time	21 38 35 23	26 34 1 10		1 29 10 40	15 25 35 1	5 6 20 35	5 29 35 2	7 26 10 15	6 15 7 37	25 23 35 29	11 6 23 19	5 13 23 25	10 25 7 2	10 23 29 2	11 7 40 38	6 10 3 35	7 15 40 26	7 40 1 26	23 24 2 37	6 10 26 24	7 19 21 29	7 2 37 20	6 26 18 19	26 2 35 24	26 2 15 19	1 2 15 19	5 6 35 14	25 28 15 2	2 39 24 10	10 3 35 22	
4	R&D Risk	3 9 24 23	27 9 34 16	1 29 10 40		6 29 15 14	24 35 10 3	5 35 40 23	5 40 20 15	11 23 39 7	7 3 17 23	5 35 13 26	1 11 2 34	1 2 11 38	13 7 9 37	13 22 25 9	6 1 26 37	11 7 28 35	1 2 32 28	40 36 6 10	6 10 7 26	36 13 25 22	1 3 10 26	30 6 31 4	35 2 15 26	2 3 35 15	26 3 11 24	2 40 31 28	28 30 35 1	25 1 3 37	1 23 2 25	9 14 1 12
5	R&D Interfaces	3 13 24 33	13 26 35 1	15 25 15 14	6 29 15 14		5 6 17 40	15 23 29 5	15 40 19 10	7 5 3 37	28 40 6 29	6 35 15 13	2 33 3 15	5 2 35 10	5 35 10 13	28 40 6 15	3 6 7 40 38	6 38 20 10	5 35 27 3	28 40 13 4	4 7 25 40	1 6 3 2 6	2 6 35 3	3 26 35 28	3 26 25 28	16 13 40 1	29 37 1 3	25 28 1 3	6 28 3 37	35 3 37 32	15 17 25 3	
6	Productivity Manufacturability	23 29 35 4	5 2 27 1	5 6 20 35	24 35 10 3	5 6 17 40		15 25 3 10	1 35 21 15	6 27 35 22	3 25 17 35	7 13 22 6	15 35 13 22	35 5 13 22	15 16 3 2	10 25 3 33	35 23 1 24	13 10 17 2	5 6 10 12	6 10 2 27	6 40 10 2	5 15 35 25	13 32 13 25	6 2 35 13	22 24 18 39	35 22 1 5	2 15 17 2	1 15 27 26	12 17 13 16	28 1 3 10	35 1 35 1	35 1 23 3
7	Production Cost	37 35 10 3	26 35 35 2	5 29 5 35	5 35 15 23	15 25 3 10		1 24 19 10	26 10 1 3	26 1 37 25	5 2 30 5	5 35 31 2	2 35 2 10	2 13 10 26	12 3 10 26	1 35 10 29	3 2 35 2	27 3 24 10	10 25 10 25	10 25 7 24	10 35 7 24	7 13 1 24	26 27 6 35	6 35 37 18	2 35 5 34	1 35 1 25	1 30 10 38	35 5 2 25	6 3 25 10	1 35 2 25	10 1 35 27	
8	Production Time	35 6 10 2	10 2 6 15	7 26 10 15	5 40 20 15	15 40 23 3	1 35 21 15	1 24 19 10		10 27 15 6	10 15 38 20	5 17 16 3	5 2 35 13	2 40 23 40	13 2 35 10	23 12 3 24	1 35 10 38	3 13 25 5	35 25 5 4	35 29 13 25	13 9 26 23	13 1 37 17	13 15 23 25	2 37 18 19	22 35 3 13	35 22 18 10	19 2 35 26	10 15 30 7	25 28 2 35	25 37 3 13	2 20 12 25	10 15 29 2
9	Production Risk	3 5 10 2	6 7 23 26	6 15 7 37	11 23 39 7	7 5 3 37	6 27 35 22	26 10 1 3	10 27 15 6		5 6 23 20	5 25 3 35	5 35 23 25	13 22 25 1	5 26 35 2	5 10 40 2	13 35 2 15	3 35 19 24	24 14 13 35	7 5 3 33 7	5 35 10 33	13 22 7 13	5 25 3 27	25 38 26 34	35 2 39 24	25 10 6 11	3 26 38 30	2 40 26 5	25 2 25 40	30 12 24 39	25 9 37 3	9 1 37 3
10	Production Interfaces	5 7 37 1	15 35 10 25	25 23 35 29	7 3 17 23	6 29 28 40	3 25 17 35	26 1 38 20	10 15 23 20		5 6 37 40	5 30 10 15	5 35 6 13	23 33 5 26	33 5 2 26	23 11 3 13	23 10 2 13	23 13 20 10	23 13 2 25	10 14 6 10	40 33 7 5	7 5 10 40	4 13 4 13	2 37 3 37	3 26 35 28	3 26 35 29	5 19 28 32	29 1 17 40	10 18 28 2	10 28 19 15	3 40 19 1	11 25 1 3
11	Supply Means	6 2 35 25	23 6 11 28	11 6 23 19	5 35 13 26	6 35 15 13	7 13 22 6	5 2 30 35	5 17 16 3	5 25 3 35	6 2 37 40		7 35 19 1	35 1 13 2	7 8 11 10	6 30 15 40	11 23 35 1	23 11 2 6	23 11 26 2	11 23 24 2	23 11 2 25	10 3 25 5	13 4 28 37	5 25 23 10	13 17 29 2	10 1 34 35	35 3 13 2	13 17 7 15	29 30 28 37	6 5 5 30	2 23 25 10	15 5 25 10
12	Supply Cost	15 6 1 5	10 5 23 25	5 13 3 15	1 11 2 33	2 33 13 22	15 35 13 22	5 35 3 10	5 2 35 13	5 35 23 25	5 30 10 15	7 35 19 1		3 24 38 10	27 3 19 24	1 28 6 38	5 13 35 25	27 5 30 35	10 27 30 35	10 12 10 7	10 24 2 13	2 35 13 25	28 37 1 27	35 6 2 3	11 35 2 12	10 35 15 3	30 2 40 3	1 17 37 4	35 19 25 7	22 2 37 4	10 3 25 7	19 3 35 10
13	Supply Time	2 3 12 26	10 19 35 22	10 25 7 2	1 2 11 38	5 2 35 10	35 5 13 22	2 35 24 10	3 10 23 40	13 22 25 1	5 35 6 13	35 1 13 2	3 24 38 10		10 29 15 13	5 19 3 15	25 10 29 19	25 27 10 2	27 2 13 35	10 25 35 6	24 5 35 25	35 13 25 1	28 2 37 32	6 31 25 35	35 3 29 2	25 10 29 13	24 35 28 1	15 1 10 27	38 24 16 15	28 32 25 2	1 10 15 25	35 3 5 27
14	Supply Risk	11 39 30 31	11 13 2 16	23 7 29 2	13 7 9 37	5 35 13 40	15 16 10 26	2 13 35 10	13 2 25 10	5 26 35 2	23 33 5 26	7 8 11 10	27 3 19 24	10 29 15 13		5 10 6 24	1 35 24 35	19 10 10 35	2 27 10 5	24 25 10 7	5 35 2 13	25 22 5 7	6 16 3 25	2 13 37 3	2 15 40 24	5 16 40 3	15 17 8 24	15 17 4 2	2 4 1 2	2 28 2 35	1 19 24 19	9 13 1 10
15	Supply Interface	11 26 2 5	10 38 13	11 7 40 38	13 22 25 9	28 40 6 15	10 25 3 33	12 3 35 5	23 12 3 24	5 10 40 2	33 5 2 26	6 30 15 40	1 28 6 38	5 19 3 15	5 10 25 37		10 31 24 35	5 19 26 1	29 30 2 25	5 25 10 9	5 6 38 40	13 25 39 24	3 6 37 28	2 3 13 4	3 35 40 22	2 30 3 40	5 25 30 3	29 28 3 25	28 5 22 28	25 8 17 29	5 3 23 17	33 15 23 17
16	Product Reliability	36 11 2 35	27 6 1 10	6 10 3 35	6 1 26 37	6 1 3 35	35 23 1 24	1 35 10 29	1 35 10 38	13 35 2 15	23 11 40 2	11 23 35 1	35 24 5 13	25 10 29 19	1 35 6 24	10 31 24 35		2 25 10 35	22 25 15 3	13 22 10 35	28 25 5 7	28 25 7 22	10 28 3 25	10 28 37 3	27 35 34 2	2 35 40 24	27 17 40 3	35 13 8 24	13 35 1 2	11 13 2 35	11 35 24 19	25 26 1 10
17	Support Cost	15 35 28 25	6 1 10 25	7 15 40 26	11 7 28 35	6 7 40 38	13 10 3 10	3 2 25 5	3 13 19 24	3 35 3 13	23 10 3 13	23 11 2 6	27 5 35 25	25 27 5 27	19 10 2 1	10 2 25 1	2 25 10 35		5 4 25 10	15 29 9 19	15 29 10 1	7 20 24 35	1 2 15 35	6 31 2 35	35 15 1 3	35 15 29 3	5 25 13 2	3 30 40 29	28 15 17 32	28 25 37 15	2 24 10 40	10 15 2 30
18	Support Time	5 2 6 27	6 1 25 10	7 40 1 26	1 2 32 28	6 38 20 10	5 6 10 12	27 3 10 25	35 25 5 4	24 14 13 35	23 13 10 1	23 11 26 2	10 27 30 35	27 2 13 35	2 27 10 5	29 30 2 25	22 25 15 3	5 4 25 10		15 29 9 19	15 29 10 1	7 20 24 35	1 2 15 35	6 31 2 35	35 15 1 3	35 15 29 3	5 25 13 2	3 30 40 29	28 15 17 32	28 25 37 15	2 24 10 40	10 15 2 30
19	Support Risk	15 27 40 12	10 25 2 27	23 24 2 37	40 36 10 40	5 35 40 13	2 10 6 27	10 25 27 3	35 29 13 25	7 5 3 10 14	23 11 2 25	11 23 21 2	10 12 2 27	10 25 35 6	24 25 10 7	5 25 9 19	13 22 25 14	27 35 15 29	15 29 9 19		5 6 40 33	20 7 4 13	25 3 29 31	29 31 11 15	25 35 4 35	2 3 10 17	1 30 40 17	13 35 4 2	10 15 1 34	10 11 39 1	10 35 7 9	
20	Support Interfaces	11 2 5 9	6 10 1 7	6 10 26 24	6 10 7 26	28 40 6 7	6 40 10 2	10 35 7 24	13 9 26 23	5 35 33 7	40 33 6 10	23 11 2 25	10 24 25 1	24 5 35 25	5 35 2 13	5 6 38 40	28 25 5 7	26 25 37 3	15 29 10 1	5 6 40 33		16 17 40 13	1 3 37 2	2 3 15 18	11 24 35 5	25 13 22 10	7 5 6 20	29 30 17 14	28 17 29 37	25 15 10 30	10 8 2 24	11 1 40 13
21	Customer Feedback	14 13 22 7	7 25 30 21	7 19 25 22	36 13 4 7	4 5 35 25	5 15 1 24	7 13 37 17	13 1 17 22	13 22 10 40	7 5 10 40	10 3 25 5	2 35 13 25	35 13 25 1	25 22 39 24	13 25 7 22	28 25 37 3	24 25 24 35	7 20 2 35	20 7 24 35	16 17 40 13		2 29 3 35	29 31 30 7	39 3 5 17	38 10 6 5	28 27 16 14	40 17 2 19	25 1 7 37	25 2 12 24	2 10 29 30	10 40 29 30
22	Amount of Information	37 13 25 10	37 25 28 2	7 2 37 20	1 3 10 26	1 6 3 15 23	13 32 25 34	26 27 23 25	13 15 23 25	5 25 3 37	2 37 4 13	13 4 28 37	28 35 2 37	28 2 37 12	5 35 15 6	3 6 37 28	10 28 3 25	28 3 13 14	1 2 22 25	2 25 1 3	11 15 35 5	1 3 5 17	2 29 3 35		22 10 22 29	10 21 4 10	27 25 2 13	15 10 13 40	10 25 25 19	2 7 35 10	2 28 25 2	11 13 25 2
23	Communication Flow	6 25 31 29	6 18 37 13	6 26 18 19	30 6 31 4	2 6 35 3	6 2 13 25	6 35 37 18	2 37 18 19	25 38 3 26	2 2																					