# Title Project : Industrial relocation

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Type: Prevention ---- 'javascript:precise\_round(2.36321574, 2);'

Departement : Industrial

# **Probability Scale**

Relative conce	Probability of occurrence	
0.0	0.15	0.1
0.15	0.25	0.3
0.25	0.5	0.5
0.5	0.75	0.7
0.75	0.9	0.9

# **Estimation of Impact**

	Impact : IP	Impact : IC	Impact : ID	Impact : IE
E1	7	7	3	1
E2	9	7	6	1
E3	7	6	6	1
E4	6	6	4	5
E5	7	5	2	9
E6	7	7	7	8

#### **Les Matrices AHP**

#### **E1**

	F1	F2	F3	F4	Weight
F1	1.0	5.0	3.0	0.5	0.28
F2	0.2	1.0	0.5	0.13	0.06
F3	0.33	2.0	1.0	0.14	0.1
F4	2.0	7.69	7.14	1.0	0.56

#### **E2**

	F1	F2	F3	F4	Weight	
F1	1.0	3.0	0.25	0.5	0.14	

	F1	F2	F3	F4	Weight
F2	0.33	1.0	0.11	0.14	0.05
F3	4.0	9.09	1.0	2.0	0.52
F4	2.0	7.14	0.5	1.0	0.29

# **E3**

	F1	F2	F3	F4	Weight	
F1	1.0	4.0	0.33	2.0	0.22	
F2	0.25	1.0	0.13 0.5		0.06	
F3	3.03	7.69	1.0	7.0	0.62	
F4	0.5	2.0	0.14	1.0	0.11	

#### **E4**

	F1	F2	F3	F4	Weight	
F1	1.0	2.0	4.0	7.0	0.51	
F2	0.5	1.0	3.0	5.0	0.31	
F3	0.25	0.33	1.0	2.0	0.12	
F4	0.14	0.2	0.5	1.0	0.06	

# **E5**

	F1	F2	F3 F4		Weight
F1	1.0	6.0	8.0	2.0	0.54
F2	0.17	1.0	3.0	0.33	0.11
F3	0.13	0.33	1.0	0.17	0.05
F4	0.5	3.03	5.88	1.0	0.3

#### **E6**

	F1	F2	F3	F4	Weight	
F1	1.0	1.0 0.33 3.		4.0	0.25	
F2	3.03	1.0	5.0	7.0	0.57	
F3	0.33	0.2	1.0	2.0	0.11	
F4	0.25	0.14	0.5	1.0	0.07	

# Calculation of the risk factor concentration for each undesirable event

Undesirable event	Linked risk factor category	Factors of category Xi	Weighting:Yi	Xi*Yi	Fraction of total Eq	Probability of Occurence	Max Impact	Level of Risk
E1	F1	7	4.0	28.0				
	F4	7	3.0	21.0				
			Sub-Total E1	49.0	0.23	0.3	7.0	2.1
E2	F1	7	4.0	28.0				
	F3	3	2.0	6.0				
	F4	7	3.0	21.0				
			Sub-Total E2	55.0	0.26	0.5	9.0	4.5
E3	F3	3	2.0	6.0				
			Sub-Total E3	6.0	0.03	0.1	7.0	0.7
E4	F4	7	3.0	21.0				
			Sub-Total E4	21.0	0.1	0.1	6.0	0.6
E5	F4	7	3.0	21.0				
	F1	7	4.0	28.0				
			Sub-Total E5	49.0	0.23	0.3	9.0	2.7
E6	F1	7	4.0	28.0				
	F2	2	1.0	2.0				
			Sub-Total E6	30.0	0.14	0.1	8.0	8.0
			Total	210.0	100 %			

**Result:** Limit ACCEPT = 2.5

	Accepted Risks			
Code Description				
E1	Work-related illness			
E3	Drop in quality			
E4	Inadequate design			
E6	Explosion and fire			

Risks à reduire				
Code Description				
E2	Drop in productivity			
<b>E</b> 5	Pollution			