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# Title Project : Delocalisation industrielle

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Type : Correction

Departement : D. Indus

## Probability Scale

Relative concentration of risk		Probability of occurrence
0.0	0.15	0.8
0.16	0.25	0.3
0.26	0.5	0.5
0.56	0.75	0.7
0.76	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
E4	1	1	1	1

## Les Matrices AHP

### E1

	F1	F2	F3	F4	Weight
F1	1.0	4.0	5.0	4.0	0.5391490098111512
F2	0.25	1.0	0.5	0.125	0.060011723429785384
F3	0.2	2.0	1.0	0.14285714285	0.07696059828956567
F4	0.25	8.0	7.00000000035	1.0	0.32387866846949775

### E2

	F1	F2	F3	F4	Weight
F1	1.0	3.0	0.25	0.5	0.13938774538578783
F2	0.3333333333333333	1.0	0.1111111	0.14285714285	0.0483439781981243

	F1	F2	F3	F4	Weight
F3	4.0	9.000000900000009	1.0	2.0	0.5214636822757802
F4	2.0	7.000000000035	0.5	1.0	0.2908045941403076

## E4

	F1	F2	F3	F4	Weight
F1	1.0	1.0	1.0	1.0	0.24999999999999992
F2	1.0	1.0	1.0	1.0	0.25000000000000001
F3	1.0	1.0	1.0	1.0	0.25000000000000006
F4	1.0	1.0	1.0	1.0	0.25000000000000006

## 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 Occurrence	Max Impact	Level of Risk
E1	F2	1	1.0	1.0	--	--	--	--
	F1	3	3.0	9.0	--	--	--	--
			Sub-Total E1	10.0	0.625	0.7	7.0	4.9
E2	F1	2	3.0	6.0	--	--	--	--
			Sub-Total E2	6.0	0.375	0.5	9.0	4.5
E4			Sub-Total E4	0.0	0.0	0.8	1.0	0.8
			Total	16.0	100 %			

**Result :** Limit ACCEPT = 3.0

Accepted Risks	
Code	Description
E4	Inadequate design

Risks à reduire	
Code	Description
E1	Work-related illness
E2	Drop in productivity