



POLITECNICO
MILANO 1863

Business Continuity Game - Auto parts manufacturer company
group30
24/11/2023 - 12:18:17

Solution 1

Additional stocking capacity for finished products: 5

Solution 2

Additional stocking capacity for raw material: 12

Additional stocking capacity for internal parts: 8

Additional stocking capacity for external parts: 10

Default stocking level for internal parts: 10

Default stocking level for raw material: 5

Default stocking level for external parts: 10

Solution 3

Backup manufacturing equipment: Yes

Backup assembly equipment: Yes

Solution 4

Alternative outbound transport (Finished products): 12

Alternative inbound transport (Raw material): 9

Alternative inbound transport (Raw material): 9

Solution 5

Earthquake-proof Main Facility: Yes

Warehouse reinforcement: Yes

Logistics Center reinforcement: Yes

Solution 6

Insurance: FULL insurance

RESULTS

| EXPECTED LOSSES FROM BUSINESS DISRUPTION | | | | | |
|--|--------------|---------------|--------------|-------------|-------------|
| Magnitude | 8+ | 7-8 | 6-7 | 5-6 | 5- |
| Damage to physical infrastructures [M€] | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Damage to other properties [M€] | 17.5 | 9.0 | 3.45 | 0.75 | 0.0 |
| Loss from business income [M€] | 70.982 | 14.75 | 0.25 | 0.0 | 0.0 |
| Business recovery [M€] | 8.828 | 4.137 | 0.276 | 0.01 | 0.01 |
| TOTAL [M€] | 97.31 | 27.887 | 3.976 | 0.76 | 0.01 |

| NET LOSS (AFTER INSURANCE) | | | | | |
|------------------------------|--------------|------------|------------|------------|-------------|
| Magnitude | 8+ | 7-8 | 6-7 | 5-6 | 5- |
| Physical infrastructure [M€] | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Other property [M€] | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Loss of business income [M€] | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Business recovery [M€] | 1.828 | 0.0 | 0.0 | 0.0 | 0.01 |
| TOTAL [M€] | 40.31 | 0.0 | 0.0 | 0.0 | 0.01 |

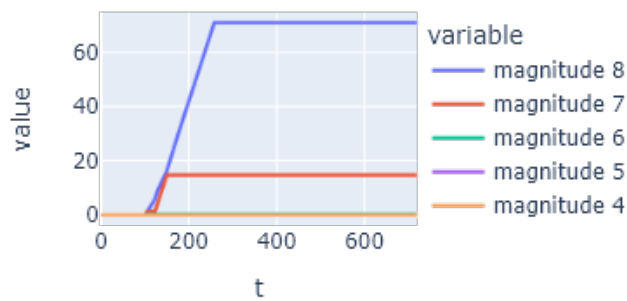
| | |
|------------------------------------|-------|
| Total expected loss [M€] | 0.143 |
| Total BCP implementation cost [M€] | 0.553 |
| Total insurance price [M€] | 0.5 |

| | |
|--|--------------|
| TOTAL EXPECTED COST OF BC STRATEGY [M€] | 1.196 |
|--|--------------|

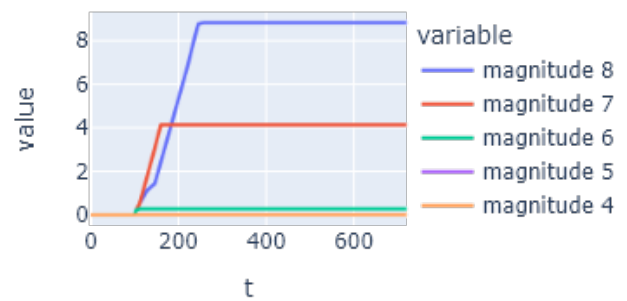
| BUSINESS IMPACTS TABLE | | | | | | | | | | | | | |
|------------------------|--------------------|-----|-----|------|-------|-------|-------|-------|--------|---------|------|------|-----|
| CW. activities | Impacts evaluation | | | | | | | | | | | MTPD | RTO |
| | days | 1-3 | 3-7 | 7-14 | 14-30 | 30-45 | 45-60 | 60-90 | 90-180 | 180-360 | >360 | | |
| Manufacturing | Contractual sales | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60 | 30 |
| | Offline sales | 0 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | | |
| | Non-delivery sales | 0 | 0 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | | |
| | Contractual penal. | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 3 | 3 | | |
| Assembly | Contractual sales | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90 | 30 |
| | Offline sales | 0 | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | | |
| | Non-delivery sales | 0 | 0 | 0 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | | |
| | Contractual penal. | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 3 | 3 | | |
| Order acq. | Online sales | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 60 | 30 |
| IT systems | Online sales | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 90 | 30 |

CHARTS

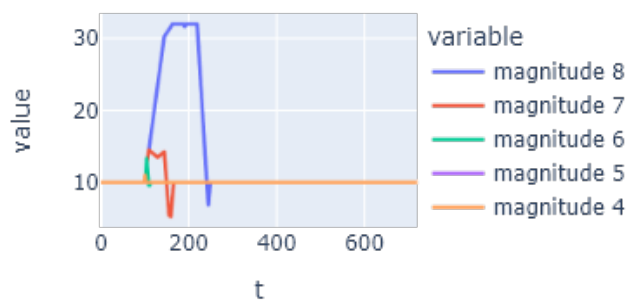
Loss from business income



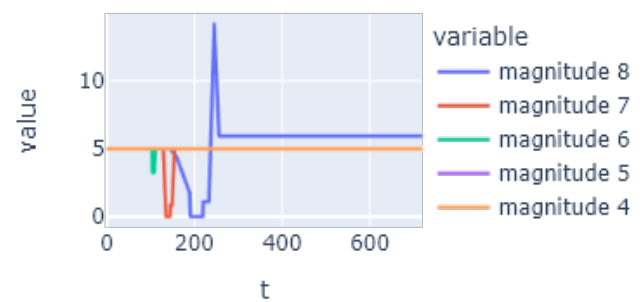
Business recovery



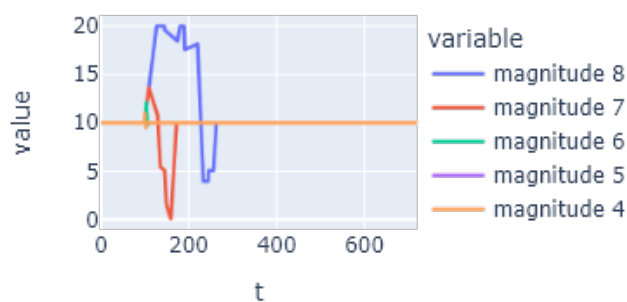
Raw material stock level



Internal parts stock level



External parts stock level



Finished products stock level

