



POLITECNICO
MILANO 1863

Business Continuity Game - Auto parts manufacturer company
group25
24/11/2023 - 12:06:12

Solution 1

Additional stocking capacity for finished products: 5

Solution 2

Additional stocking capacity for raw material: 0

Additional stocking capacity for internal parts: 15

Additional stocking capacity for external parts: 5

Default stocking level for internal parts: 20

Default stocking level for raw material: 20

Default stocking level for external parts: 25

Solution 3

Backup manufacturing equipment: No

Backup assembly equipment: Yes

Solution 4

Alternative outbound transport (Finished products): 20

Alternative inbound transport (Raw material): 0

Alternative inbound transport (Raw material): 10

Solution 5

Earthquake-proof Main Facility: No

Warehouse reinforcement: Yes

Logistics Center reinforcement: Yes

Solution 6

Insurance: Package 3

RESULTS

| EXPECTED LOSSES FROM BUSINESS DISRUPTION | | | | | |
|--|---------------|--------------|-------------|-------------|-------------|
| Magnitude | 8+ | 7-8 | 6-7 | 5-6 | 5- |
| Damage to physical infrastructures [M€] | 10.0 | 6.0 | 2.5 | 0.0 | 0.0 |
| Damage to other properties [M€] | 17.5 | 9.0 | 3.45 | 0.75 | 0.0 |
| Loss from business income [M€] | 136.57 | 8.25 | 0.25 | 0.0 | 0.0 |
| Business recovery [M€] | 4.92 | 3.21 | 0.21 | 0.01 | 0.01 |
| TOTAL [M€] | 168.99 | 26.46 | 6.41 | 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€] | 17.5 | 9.0 | 3.45 | 0.75 | 0.0 |
| Loss of business income [M€] | 106.57 | 0.0 | 0.0 | 0.0 | 0.0 |
| Business recovery [M€] | 4.92 | 3.21 | 0.21 | 0.01 | 0.01 |
| TOTAL [M€] | 128.99 | 12.21 | 3.66 | 0.76 | 0.01 |

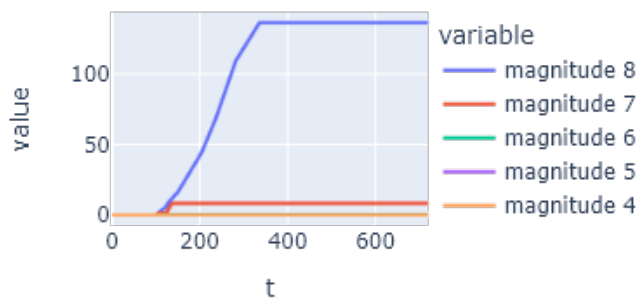
| | |
|------------------------------------|-------|
| Total expected loss [M€] | 1.351 |
| Total BCP implementation cost [M€] | 0.28 |
| Total insurance price [M€] | 0.2 |

| | |
|--|--------------|
| TOTAL EXPECTED COST OF BC STRATEGY [M€] | 1.831 |
|--|--------------|

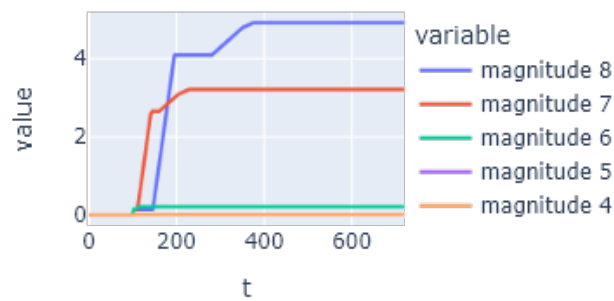
| BUSINESS IMPACTS TABLE | | | | | | | | | | | | | |
|------------------------|--------------------|-----|-----|------|-------|-------|-------|-------|--------|---------|------|------|-----|
| CW. activities | Impacts evaluation | | | | | | | | | | | MTPD | RTO |
| | days | 1-3 | 3-7 | 7-14 | 14-30 |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

CHARTS

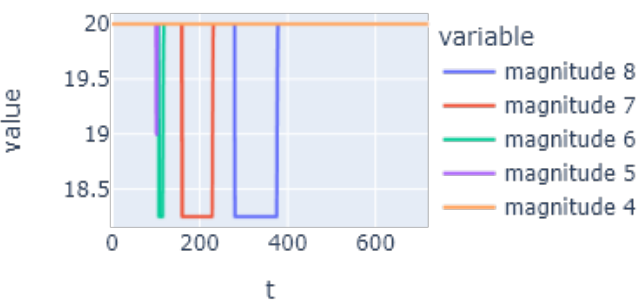
Loss from business income



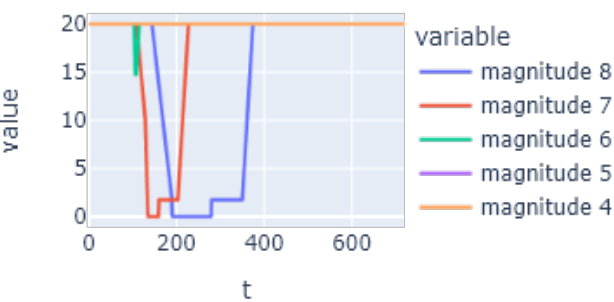
Business recovery



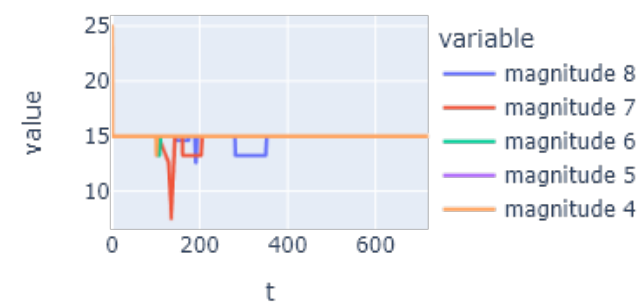
Raw material stock level



Internal parts stock level



External parts stock level



Finished products stock level

