

Annex 4D: Likelihood and impact scoring scales

Impact scoring scale – qualitative measures

Level	Descriptor	Categories of impact	Description of impact
1	Insignificant	Health	<ul style="list-style-type: none"> • Insignificant number of injuries or impact on health
		Social	<ul style="list-style-type: none"> • Insignificant number of persons displaced and insignificant personal support required • Insignificant disruption to community services, including transport services and infrastructure
		Economic	<ul style="list-style-type: none"> • Insignificant impact on local economy
		Environment	<ul style="list-style-type: none"> • Insignificant impact on environment
		Health	<ul style="list-style-type: none"> • Small number of people affected, no fatalities, and small number of minor injuries with first aid treatment
		Social	<ul style="list-style-type: none"> • Minor damage to properties • Minor displacement of a small number of people for < 24 hours and minor personal support required • Minor localised disruption to community services or infrastructure < 24 hours
2	Minor	Economic	<ul style="list-style-type: none"> • Negligible impact on local economy and cost easily absorbed
		Environment	<ul style="list-style-type: none"> • Minor impact on environment with no lasting effects
		Health	<ul style="list-style-type: none"> • Moderate number of fatalities with some casualties requiring hospitalisation and medical treatment and activation of MAJAX, the automated intelligent alert notification system, procedures in one or more hospitals
		Social	<ul style="list-style-type: none"> • Damage that is confined to a specific location, or to a number of locations, but requires additional resources • Localised displacement of >100 people for 1–3 days • Localised disruption to infrastructure and community services
		Economic	<ul style="list-style-type: none"> • Limited impact on local economy with some short-term loss of production, with possible additional clean-up costs
		Environment	<ul style="list-style-type: none"> • Limited impact on environment with short-term or long-term effects
3	Moderate	Health	<ul style="list-style-type: none"> • Moderate number of fatalities with some casualties requiring hospitalisation and medical treatment and activation of MAJAX, the automated intelligent alert notification system, procedures in one or more hospitals
		Social	<ul style="list-style-type: none"> • Damage that is confined to a specific location, or to a number of locations, but requires additional resources • Localised displacement of >100 people for 1–3 days • Localised disruption to infrastructure and community services
		Economic	<ul style="list-style-type: none"> • Limited impact on local economy with some short-term loss of production, with possible additional clean-up costs
		Environment	<ul style="list-style-type: none"> • Limited impact on environment with short-term or long-term effects

Level	Descriptor	Categories of impact	Description of impact
4	Significant	Health	<ul style="list-style-type: none"> Significant number of people in affected area impacted with multiple fatalities, multiple serious or extensive injuries, significant hospitalisation and activation of MAJAX procedures across a number of hospitals
		Social	<ul style="list-style-type: none"> Significant damage that requires support for local responders with external resources 100 to 500 people in danger and displaced for longer than 1 week. Local responders require external resources to deliver personal support Significant impact on and possible breakdown of delivery of some local community services
		Economic	<ul style="list-style-type: none"> Significant impact on local economy with medium-term loss of production Significant extra clean-up and recovery costs
		Environment	<ul style="list-style-type: none"> Significant impact on environment with medium- to long-term effects
		Health	<ul style="list-style-type: none"> Very large numbers of people in affected area(s) impacted with significant numbers of fatalities, large number of people requiring hospitalisation with serious injuries with longer-term effects
		Social	<ul style="list-style-type: none"> Extensive damage to properties and built environment in affected area requiring major demolition General and widespread displacement of more than 500 people for prolonged duration and extensive personal support required Serious damage to infrastructure causing significant disruption to, or loss of, key services for prolonged period. Community unable to function without significant support
5	Catastrophic	Economic	<ul style="list-style-type: none"> Serious impact on local and regional economy with some long-term, potentially permanent, loss of production with some structural change Extensive clean-up and recovery costs
		Environment	<ul style="list-style-type: none"> Serious long-term impact on environment and/or permanent damage

Explanation of categories of impact

Category	Explanation
Health	Encompassing direct health impacts (numbers of people affected, fatalities, injuries, human illness or injury, health damage) and indirect health impacts that arise because of strain on the health service
Social	Encompassing the social consequences of an event, including availability of social welfare provision; disruption of facilities for transport; damage to property; disruption of a supply of money, food, water, energy or fuel; disruption of an electronic or other system of communication; homelessness, evacuation and avoidance behaviour; and public disorder due to anger, fear, and/or lack of trust in the authorities
Economic	Encompassing the net economic cost, including both direct (eg loss of goods, buildings, infrastructure) and indirect (eg loss of business, increased demand for public services) costs
Environment	Encompassing contamination or pollution of land, water or air with harmful biological/chemical/radioactive matter or oil, flooding, or disruption or destruction of plant or animal life

Note

Strictly, levels 1 and 2 of the impact scale are likely to fall below the threshold for an emergency. Consequently, there may be no statutory requirement to plan for events that score 1 or 2 on the impact scale. This scale recognises that, to demonstrate a thorough analysis, Category 1 responders will wish to include in their risk assessment certain risks with impacts at these levels.

Likelihood scoring scale

Level	Descriptor	Likelihood over 5 years	Likelihood over 5 years
1	Negligible	>0.005%	>1 in 20,000 chance
2	Rare	>0.05%	>1 in 2,000 chance
3	Unlikely	>0.5%	>1 in 200 chance
4	Possible	>5%	>1 in 20 chance
5	Probable	>50%	>1 in 2 chance