



The Simulation:

We will have a simulation which includes the 5 main roles in the decision-making process of an emergency event

- The City Mayor
- The Water Utility CEO
- Chief Engineer
- Head of Security & Emergency Division
- Head of Cyber Division

The Scenario:

- A cyberattack on the municipality's website further compromises the city's water system integrity.

The town's website was hacked, and there has been damage to the control systems of the electric and water infrastructure, as well as changes in the amount of chlorine in the drinking water. At the same time, Anonymous announced on the network that it had broken into many water systems due to the municipality's disregard for recycling and green environmental issues, and therefore harmed the water company that pollutes nature. The organization is demanding a \$ 30 million ransom. A cyber expert who came to the water corporation recognizes that the control system has been hacked and controlled by a foreign entity.

- A water contamination incident leads to the outbreak of a waterborne illness which affects many local residents.

The media reports that many patients come to the local hospital with symptoms of gastrointestinal problems, vomiting, fever, and other problems in some of the patients such as feeling suffocated. The hospital director and representatives of the Ministry of Health said in the media that in epidemiologically inquiry, there is a high chance that the disease is caused by water.

- A prolonged power outage threatens the limited supply of potable water while adding significant urgency for participants to come up with coordinated and effective responses under conditions of severe uncertainty.

Following the collapse of the local electricity grid, there will be no electricity in the city for at least the next 5 days. The electric company estimates that the return of electricity will also be gradual and not universal. Only one well has an emergency generator with fuel for about 24 hours from the power outage. There will be no fuel (diesel) in the coming days. The pumping station does not work Although there is water in the pools, they will be enough for a maximum of 12 hours and then half the city (high area) will not get water.



Israel Trade Commission
Sydney, Australia
הנספחות הכלכלית של ישראל
סידני, אוסטרליה



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Ministry of Economy and Industry
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The Dilemmas:

- Should the use of drinking water be banned in the whole city or in a part of it?
- Is it forbidden to flush toilets and take showers?
- Hospital and Nursing Home Care Evacuation?
- Notice to the public: The mayor demands that his residence be notified to the public within half an hour. What will they say in the notice?
- Should we start a water distribution operation that will require a lot of working hands, money and create a feeling in the public that the water is polluted while it is possible that within a matter of hours a sedative message will arrive?
- It is not clear whether the contamination is from the water and it takes a few hours to act. What should we do, to act or not?
- Should we negotiate and pay the ransom demand?
- Should the water supply be stopped from the chlorine-based wells? The fact is that if the wells stop, there will be disruptions in the water supply to the citizens.
- Is it possible to damage the plumbing system through cyber damage?
- Are we prepared to supply alternative water (bottles and containers)?
- In light of the situation should water be allocated? Should the industrial and government workers be notified to leave?
- Do we need military assistance?

Expo Website: <https://water-emergency.israel-expo.co.il/expo>

About:

In recent times we have witnessed many changes in the global climate that bring natural disasters more frequently than expected and damage our environment severely. One of the most important resources impacted by these disasters is water, whether it is water sources, infrastructure contamination and supply. The ability to supply usable water in pipelines is a fundamental and essential resource various authorities, governments and municipalities rely on. During an emergency or natural disaster access to potable water sources may be limited, jeopardizing the life of residents and citizens.

On the 8th-9th of December, the Export Institute and The Foreign Trade Administration at the Israeli Ministry of Economy and Industry will hold an event on water crises where we will discuss the dangers and implications of such events.

The event will include:

- Virtual pavilion of solutions with booths of Israeli water technologies companies
- Panels with keynote speakers
- B2B meetings



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