

# AMMONIA CRISIS

The background of the slide is a blue-toned illustration. It depicts a scene of famine or crisis. In the foreground, several hands are shown holding empty bowls and cups, suggesting a lack of food or water. In the background, a large teardrop is falling from the sky, with a smaller one below it. The overall mood is one of despair and urgency.

Debates on **Mechanical Integrity** of Ammonia Tank



Ammonia Ship Carrier



Unloading Arm



Haifa Chemicals Ltd.



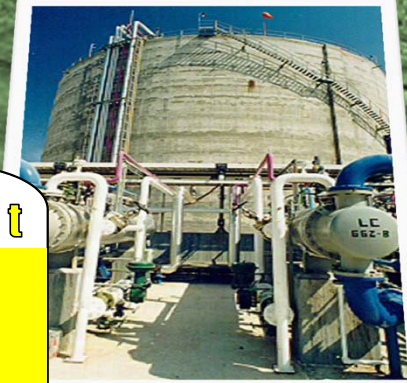
70%

Fertilizers & Chemicals Ltd.



25%

Ammonia Reservoir



12,000 t

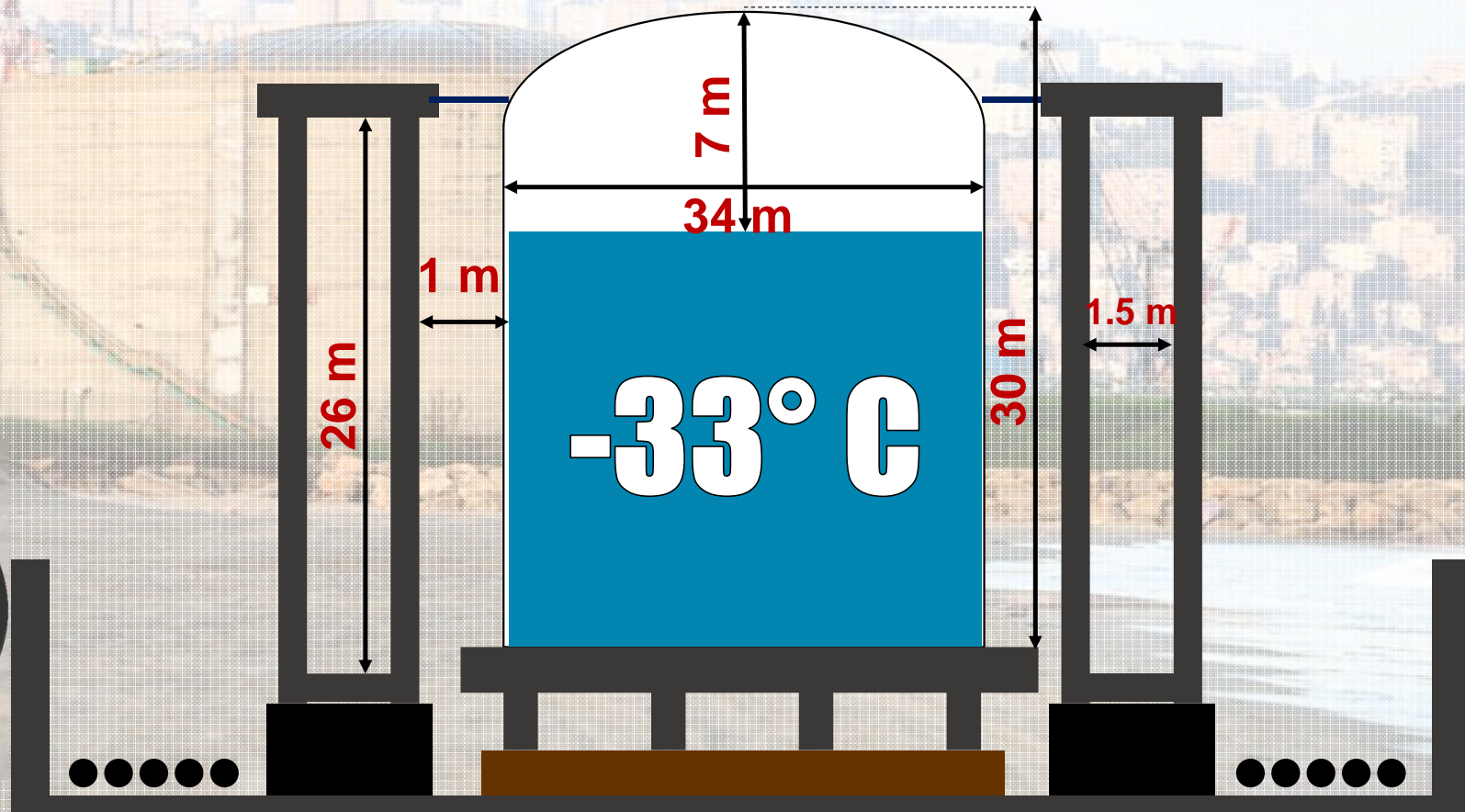
Pipeline

2 km



# AMMONIA Reservoir

## TECHNICAL Details



# CALCULATIONS ARE *FANTASY*

Report Author	Year	Report Inviter	Risk Radius
RAFAEL (Israel)	1987	Haifa Chemicals Ltd.	
Public Advisory Committee Herzl Shafir (Israel)	2007	EPA Israel	
HFC (Israel)	2016	HFC Israel	
DNV (Norway)	2010	Haifa Municipality	
TNO (Netherlands)	1998	Israel Government	



# Cradle-to-Grave



# Sages, ~~Professors~~ Report words!

Ethics of the Fathers 1:11  
January 2017



## VITALITY OF AMMONIA AS A RAW MATERIAL



Ammonia is not vital for Israeli economy  
and Ammonia Reservoir is not a National  
Interest



## VULNERABILITY OF AMMONIA SHIP



The ammonia carrier ship is the Achilles' heel of the supply chain and an accident in the sea may cause risk as large as 5 Hiroshima nuclear bombs.



## MECHANICAL INTEGRITY



The reservoir has never been inspected from inside. There are cracks in the walls of the tank, because of the ageing of the installation.



## WAR RISKS



The physical protection of the tank is not good enough for new war threats



## EARTHQUAKE RISKS



The tank is not reinforced for earthquake and may collapse, causing a tremendous number of fatalities and injuries.



**REGULATORS'**  
**STRATEGIC**  
**MISTAKES**



**Zigzagging** between  
official positions

The **absence of**  
**coordinator** at  
governmental level

**Delay** in providing  
a **contradiction**  
**reaction**

# Short-term **ALTERNATIVES** for ammonia import





*I'll take something that **will**  
look best on **FACEBOOK***

