

Since 1916 there have been over 34 major incidents with AN leading to over 2223 deaths, many thousands of injuries and \$Billions in damage

ABTO: BULK TERMINALS 2020 Webinar
28th and 29th October 2020

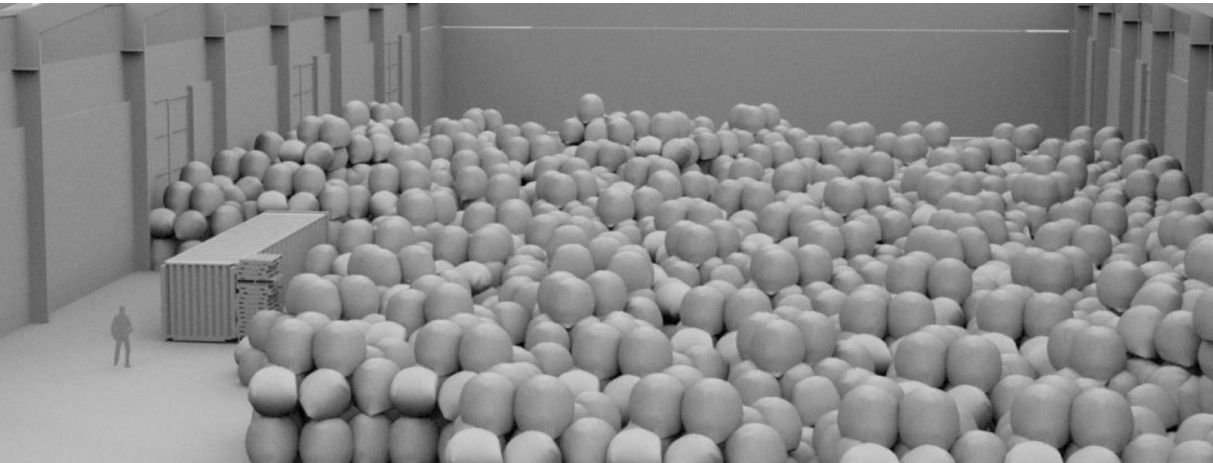
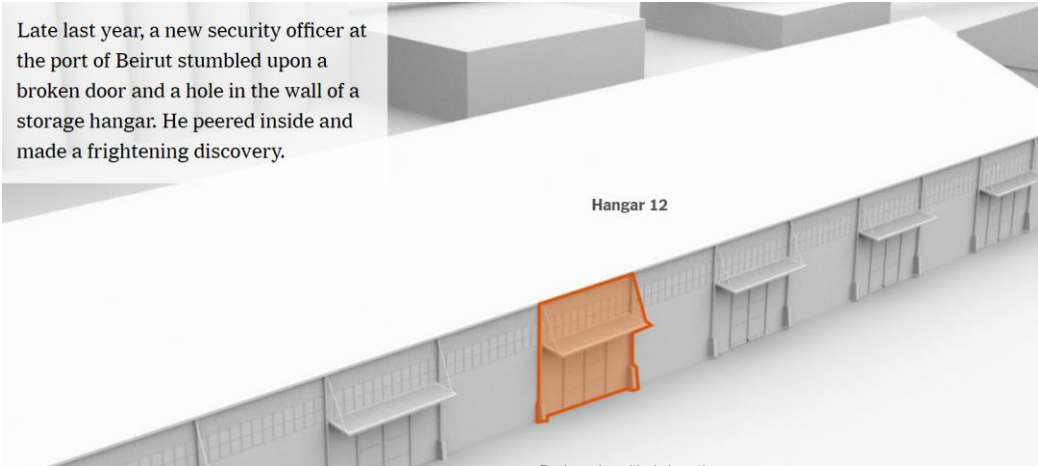


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22nd October 2020

<https://www.nytimes.com/interactive/2020/09/09/world/middleeast/beirut-explosion.html>



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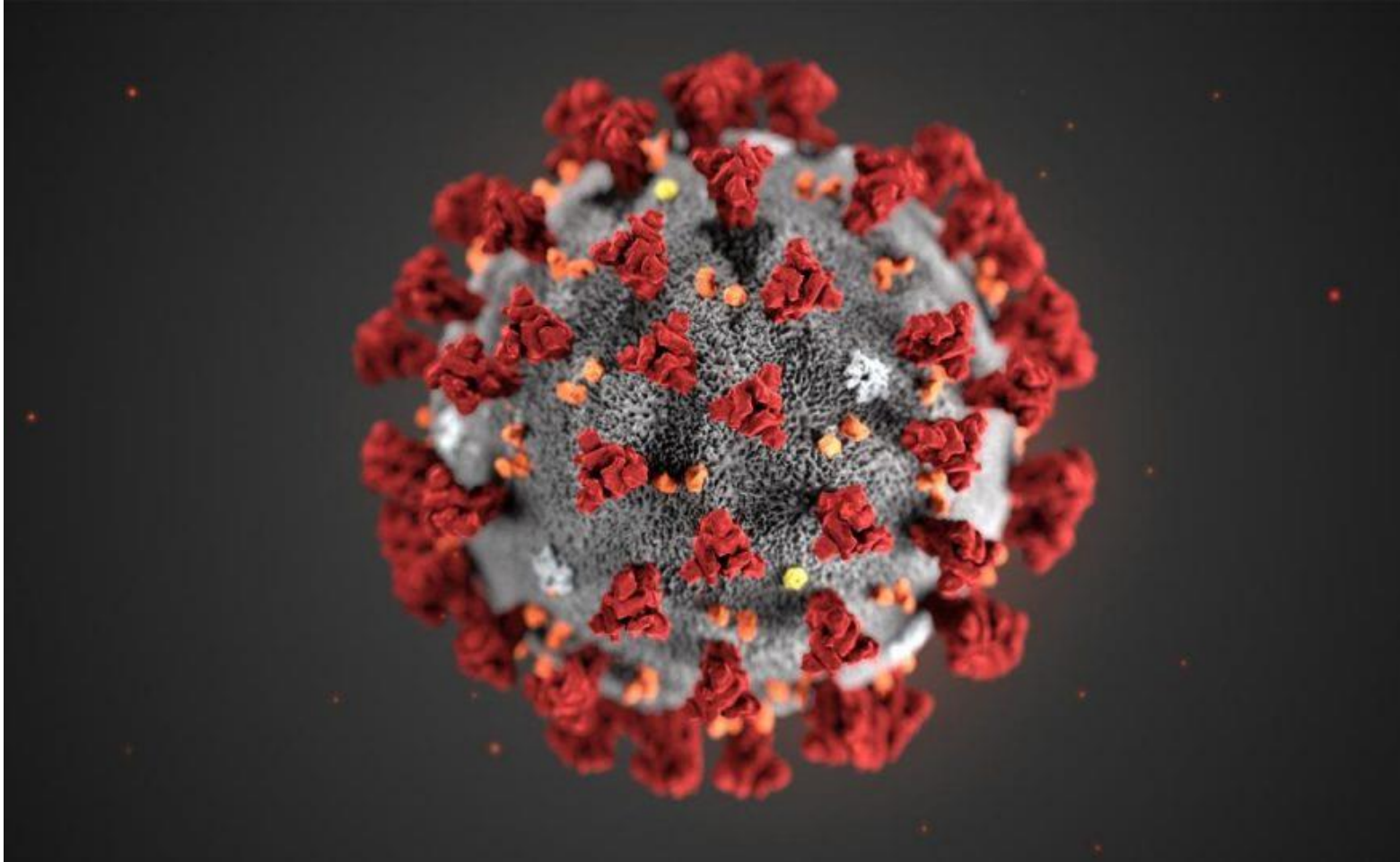


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- **So why do these things keep happening?**
- **Has Covid-19 made it worse?**
- **What is changing in terminal operations?**
 - **Digitalisation**
 - **Just in Time**
 - **Port Call Optimisation**
 - **Collaborative Decision Making**
 - **Single Maritime Window**
 - **GHG Reductions**
 - **Automation**
 - **Regionalisation**

- **REMOTE !**
 - **Working (Home)**
 - **Diagnostics**
 - **Predictive maintenance**
 - **Sensor Networks**
 - **Big Data**
 - **Commissioning**
 - **3D localised spares printing**
 - **Augmented reality support**
 - **The FUTURE?**



How
Much
Will
This change
Our World?