



# 7th CCPS Canadian Regional Meeting

07 - 13 Sep 2022

Poll results

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043

## 1. How did your company's process safety incident rates compare from 2020 to 2021?

a. Significant reduction in incidents

 5 %

b. Reduction in incidents

 19 %

c. No change

 47 %

d. Increase in incidents

 30 %

e. Significant increase in incidents

 0 %

## 2. What types of activities did you perform remotely? Check all that apply.

050

a. Audits



36 %

b. PHAs



70 %

c. Incident or Near Miss Reviews



50 %

d. Record Review



40 %

e. Inspections



10 %

Question 3 (1/2)

0 4 2

**3a. What technology have you added or expanded to support your employees?**

a. Wearable technology (headsets, remote support for single engineers onsite)



b. Augmented reality (to support survey or inspection work)



c. Drones – (pipeline or equipment inspection, site surveillance, security)



d. Other



Question 3 (2/2)

009

**3b. If you've used other technologies, what are some examples?**

Mobile tablets

Robot for cleaning tanks

Robots Zoom Enablon

Video in field

IPhones for Turnarounds

AI powered leak detector

#### 4. In general, what percentage of near-hits do you think are reported for your company / site? (1/2)

0 4 6

a. 10%



b. 20%



c. 30%



d. 40%



e. 50%



**4. In general, what percentage of near-hits do you think are reported for your company / site?**  
(2/2)

0 4 6

f. 50% to 75%



g. 75% to 100%





Question 5 (1/2)

0 4 3

## 5a. What analysis techniques have you used to learn from near-hits?

a. Machine learning (Deep learning via multilayer artificial neural nets)

 9 %

b. Big Data analytics (Continuous DCS data)

 19 %

c. Big Data analytics (Discrete events and continuous data together)

 23 %

d. Fuzzy logic

 33 %

e. Other

 40 %

Question 5 (2/2)

016

**5b. If you've used other analysis techniques, what are some examples?**

Manual analysis of small

Rely on individual memory

Spreadsheet

Excel spreadsheet

**Nothing**

PowerBI Unknown Not applicable

Manual mining

Corporate memory

## 6. What percentage of your near-hits are investigated and how are they followed up?

0 4 6

