Why process safety incidents still occur: a top ten...





dé consultants voor de chemische industrie

"Creating a better world by making processes safer and more efficient"

Process Safety

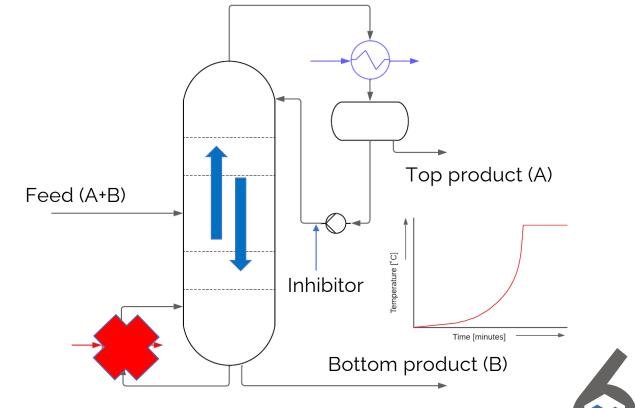
make invisible process safety risk visible and implement corrective actions to minimize the risk **Technology Transfer** close the process engineering gap between technology providers and the process industry

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Process Optimization expose energy- and production losses and implement corrective actions to reduce energy consumption and/or optimize product yield

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Enrico Lammers



Mission

We create value for our customers by making their invisible process safety risks and energy or production losses visible. This allows targeted actions to be taken to reduce these risks and optimize the plant



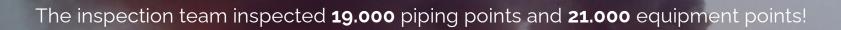
PS incidents still occur



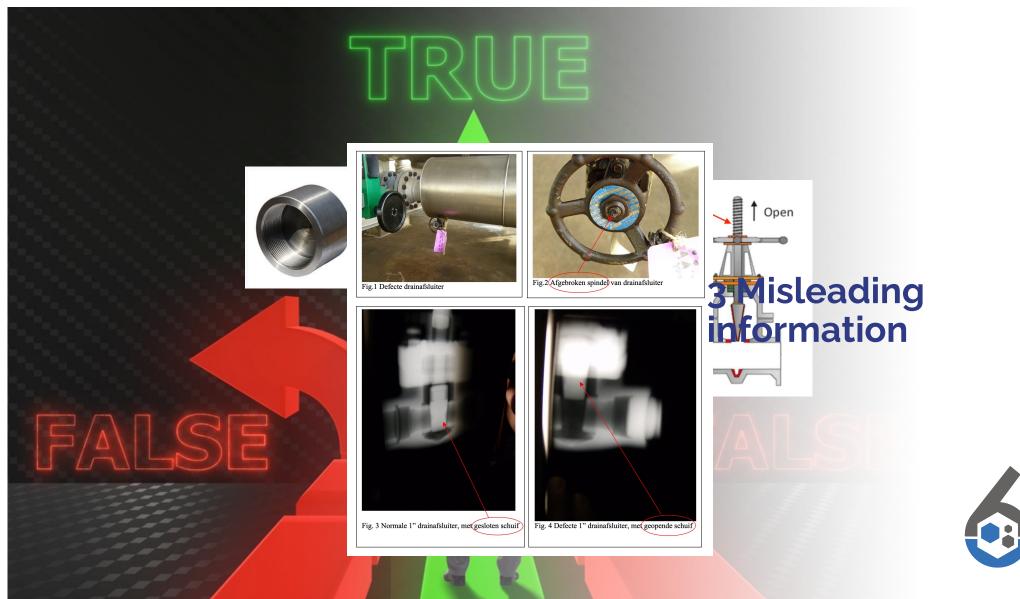
1) People are tending more to invest in production ("certain profits") than to invest in prevention ("uncertain profits")

2) People are tending more to accept highly uncertain accidents ("uncertain losses") than to make large investments ("certain losses") in measures to prevent such accidents

of, Dr. Ir. Genserik Reni<mark>ers, Full Professor Safety o</mark>f Hazardous Materials, Delft University

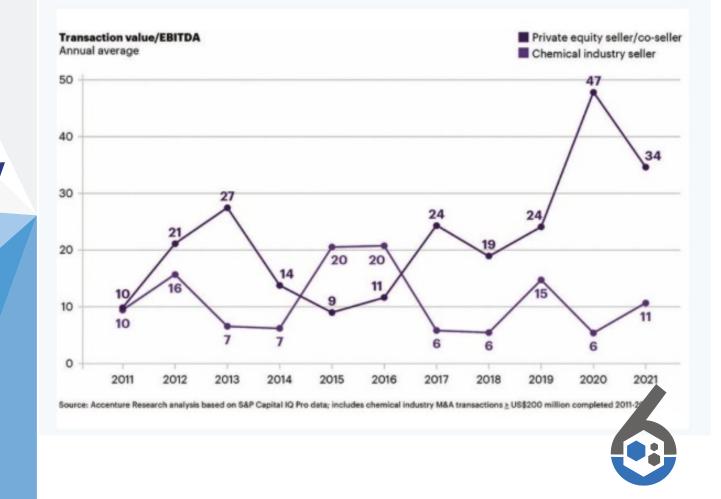




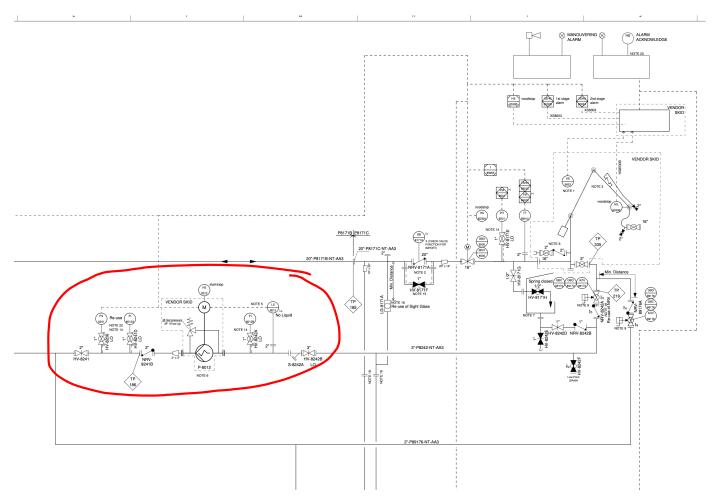


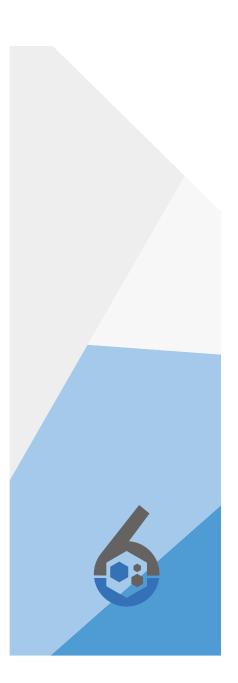


5 private equity



6 Normalisation of deviation





WATER, RELATIVE LOW PRESSURE, AMBIENT TEMPERATURE

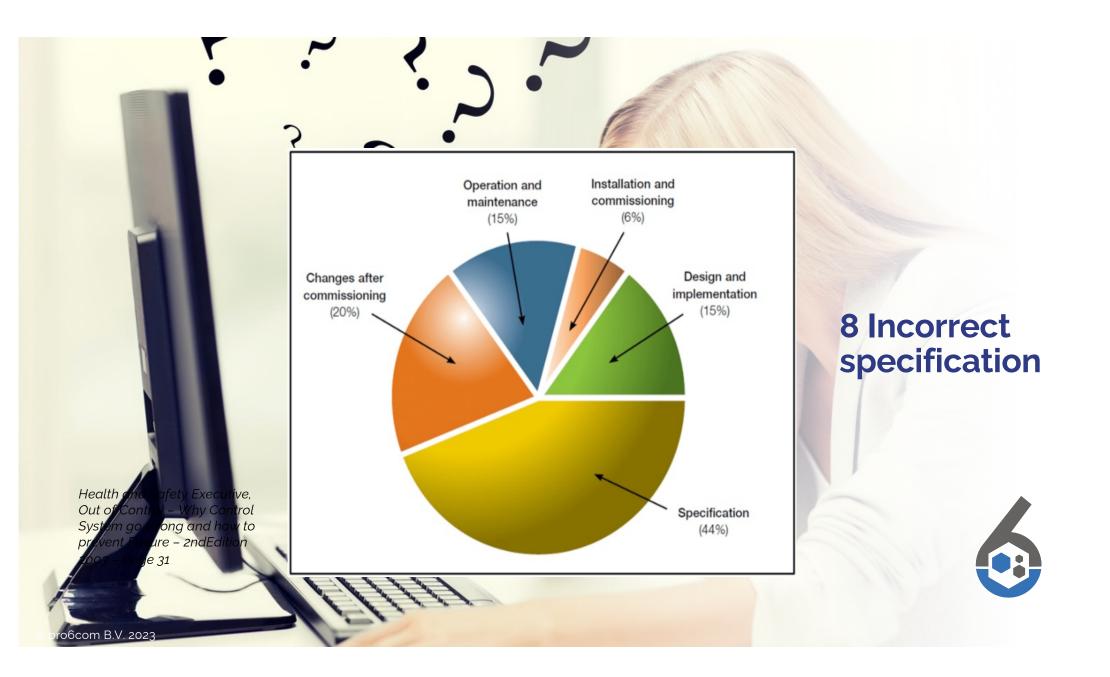






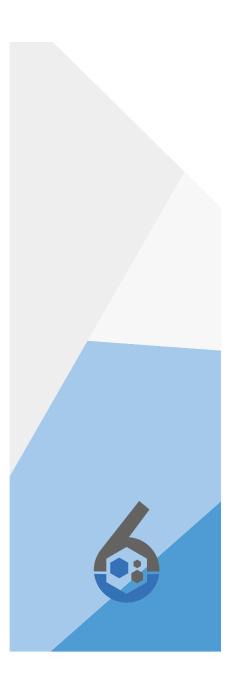
ed on AZOP's





9 Watermelon effect







You were a wonderful audience, Actually you were the most wonderful audience I've ever had...

Hans Liberg