"A game changer in rotating equipment"

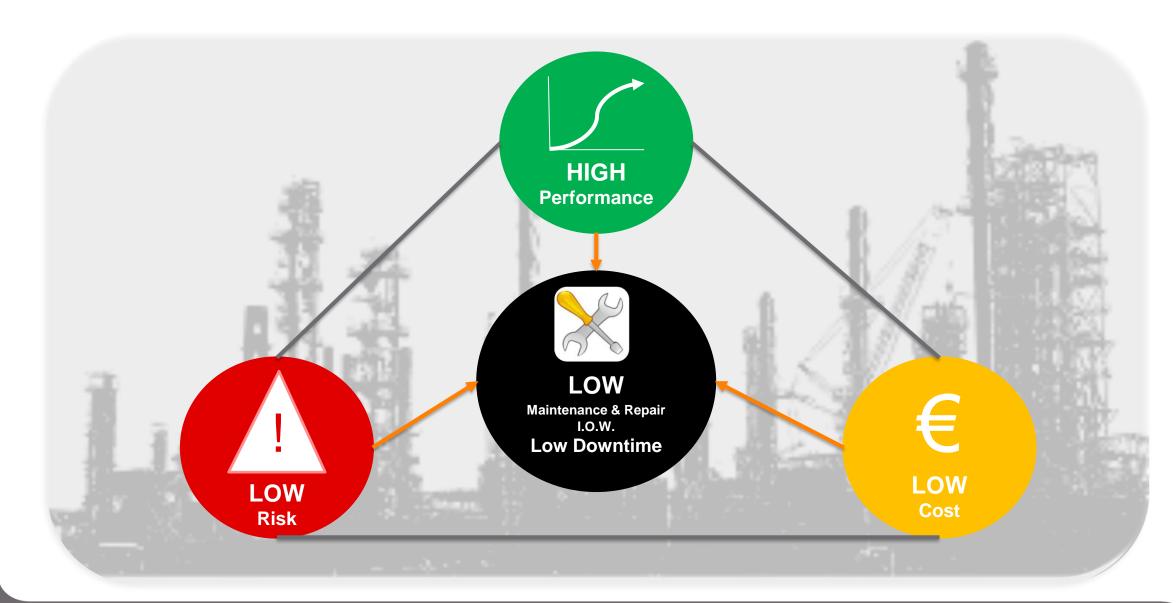


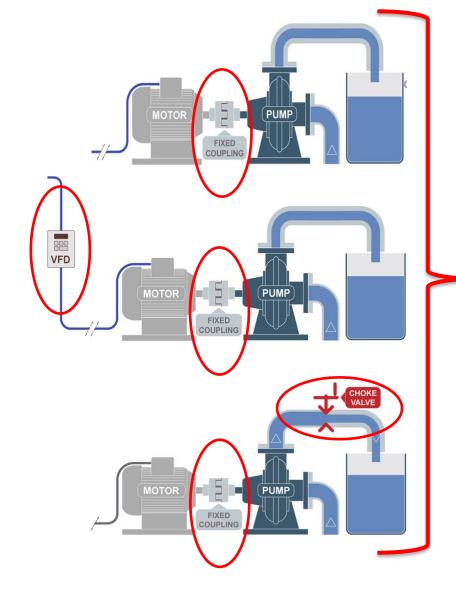
14 mei 2020

Danny van Nielen
Managing Partner

This document contain confidential and privileged material intended for the addressee only. If you are not the addressee, you are notified that no part of this document may be disclosed, copied or distributed, and that any other action related to this document is strictly prohibited and unlawful.

Objectives in the Industry





Actual reliability rotating equipment Example Pump System

CAUSING

- Misalignment
- Vibrations
- Leakages
- Cavitation
- Limited MTBR/MTBF
- Harmonics
- Bearing currents
- Random failures
- Limited lifespan
- Noise
- Inefficiency
- Energy waste
- Unsafe situations
- Lack of technically skilled labor
- Etc. etc.

65% of all electric consumption in the industry comes from electrical rotating equipment.

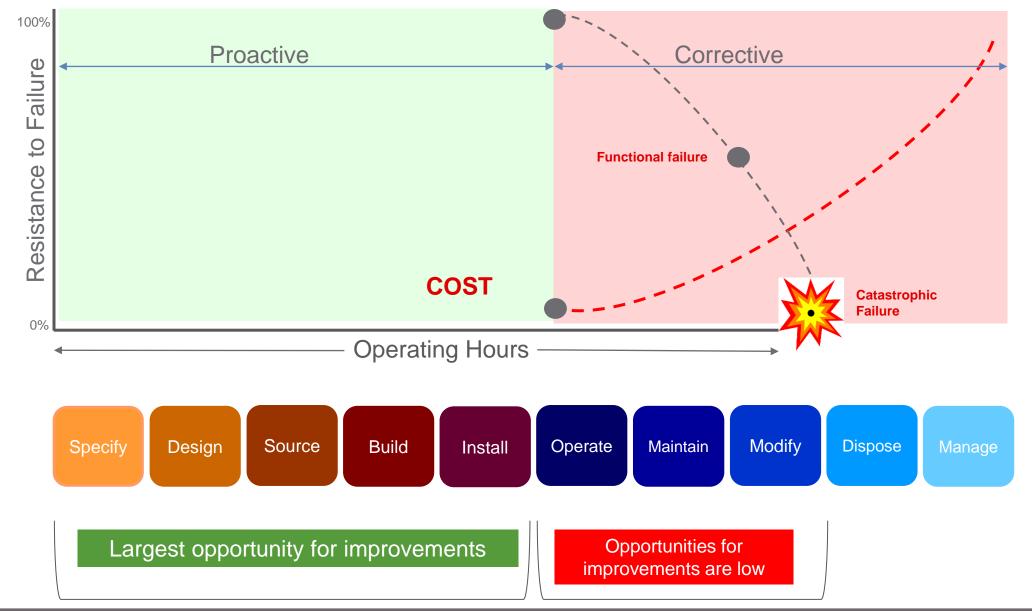
75% of the pumps in the industry is to large.

(Fraunhofer Institute).

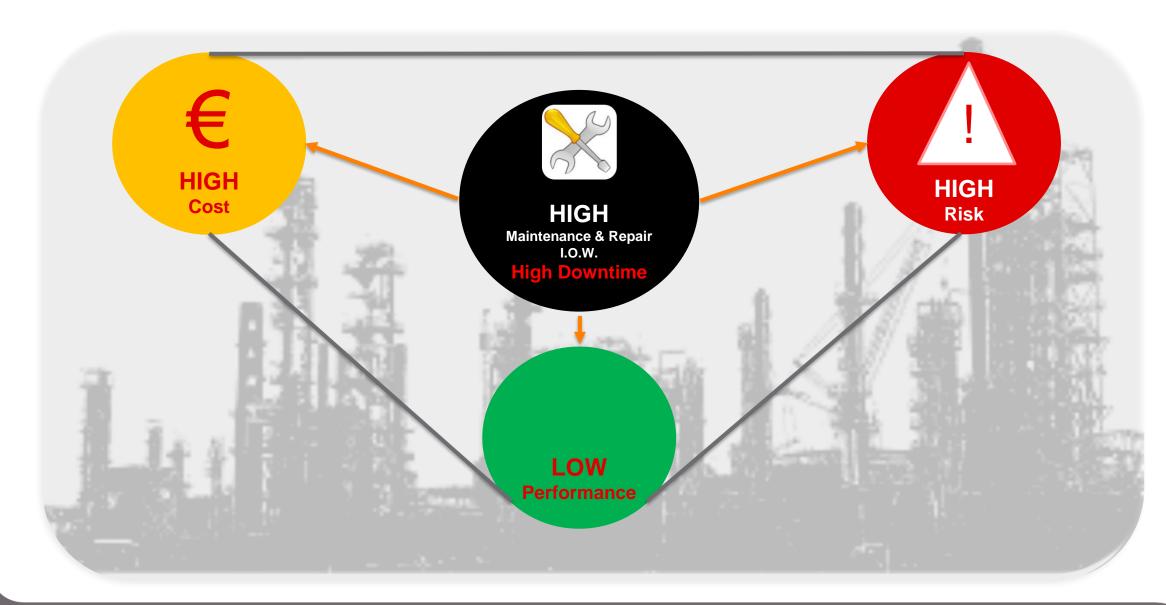
ARGUMENTS

- "We have been doing this for decades".
- "There are no better alternatives".

Actual resistance to failure



Actual situation in the Industry



Demonstration

More info at www.zytec.eu

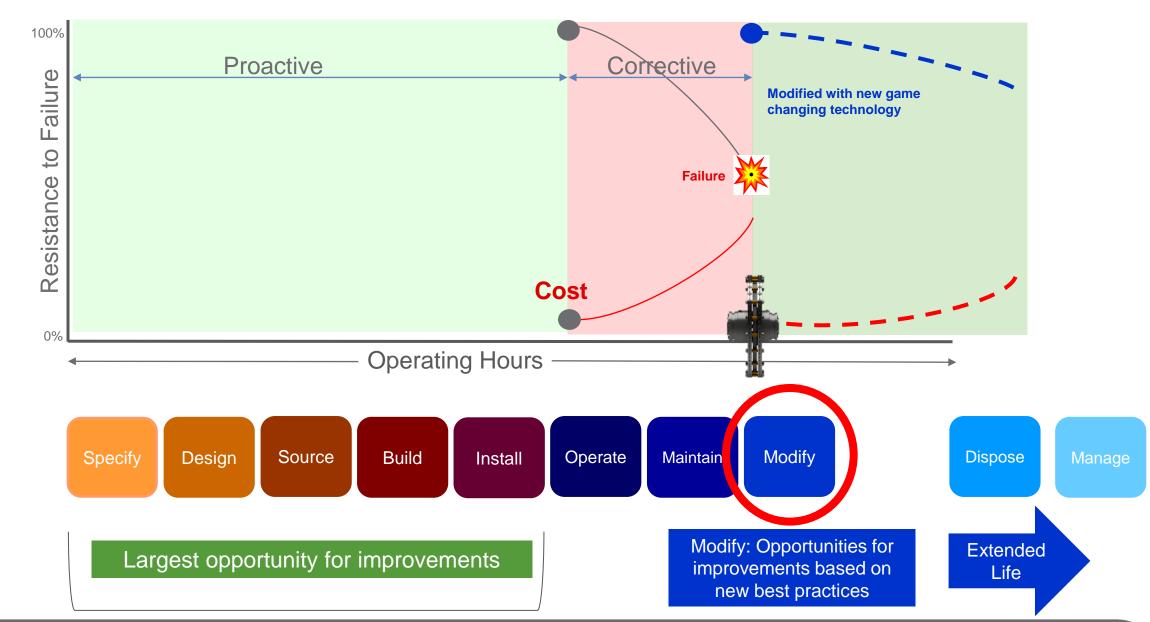


Demo set Magnet Copper principle

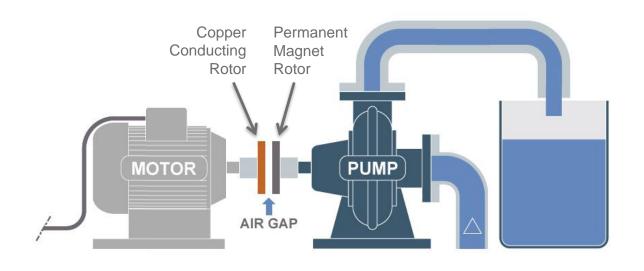


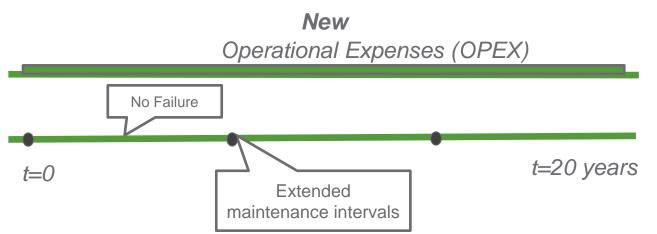
Demo set Ventilator Skid

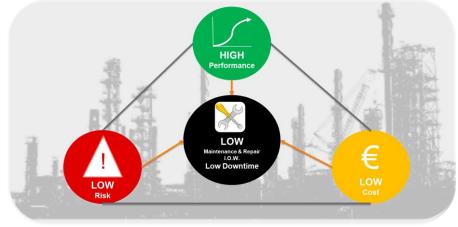
Actual resistance to failure



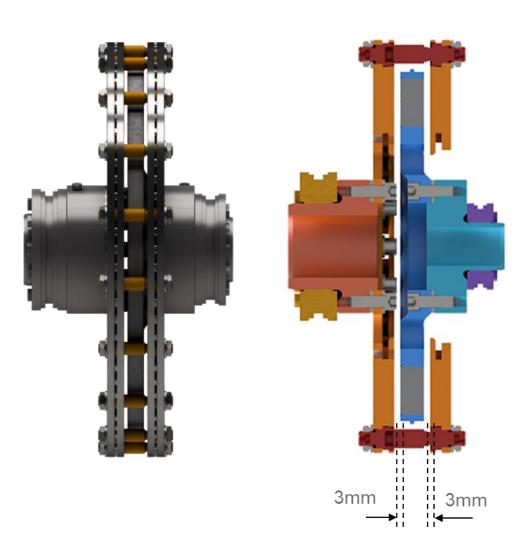
The Zytec rotating equipment layout

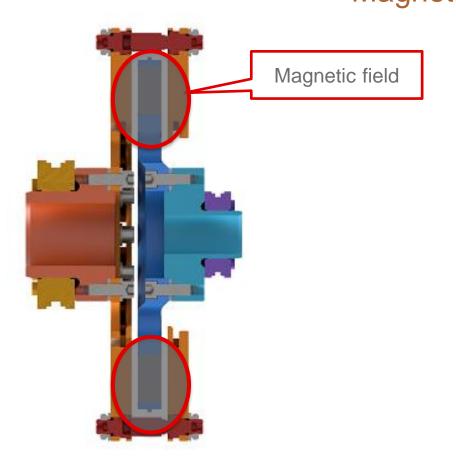






Principle of the Zytec Coupling Magnetic field





Magnetic field remains inside the coupling similar to an electric motor.

Product range



Fixed Speed Coupling with fixed 3 mm air gap enables transfer ratio of 1:≈1.



Adjustable Speed Coupling with adjustable fixed air gap from 3-15 mm enables reduced but fixed transfer ratio of 1:n, n=[0, ≈1].



Variable Speed Coupling with automatically adjustable air gap from 3-25 mm enables variable transfer ratio of $\approx 1 > n > 0$.









Radial & Horizontal Fans



Horizontal & Vertical Pumps

Applications



Generators & Compressors



Conveyor Belts



Bucket Elevators/ Shredders/ Crushers/ Mixers



"Today's problems cannot be solved if we still think the way we thought when we created them." (Albert Einstein)