

#### Condition Monitoring to Boost Sustainable Operation and Maintenance

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### Content



Life Cycle

What is necessary to get sustainable



#### Maintenance Journy

Possibilities of maintenance and their costs



### **Condition** Monitoring



### Challenges and innovation



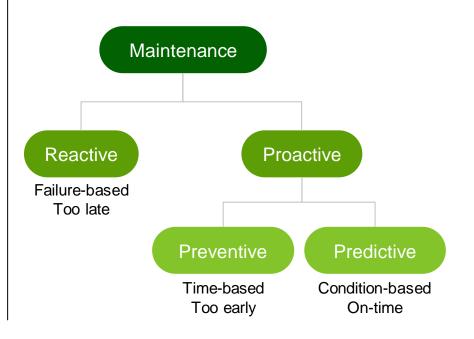
#### Sustainability in O&M

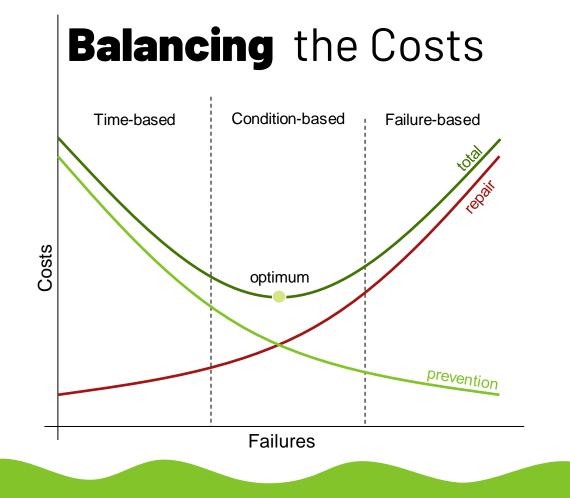
How are sustainability and O&M linked together





### Maintenance Journey





#### It's not only money

The importance of non-monetary parameters must increase significantly.

# **Condtion** Monitoring

# 01

#### Indicators

Select significant conditions

# 02

#### **Acquisition and Analysis**

Collect data and find correlations

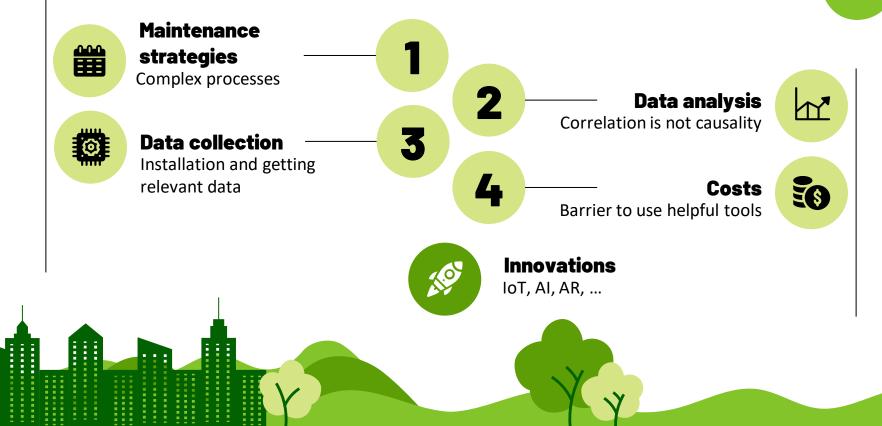
## 03

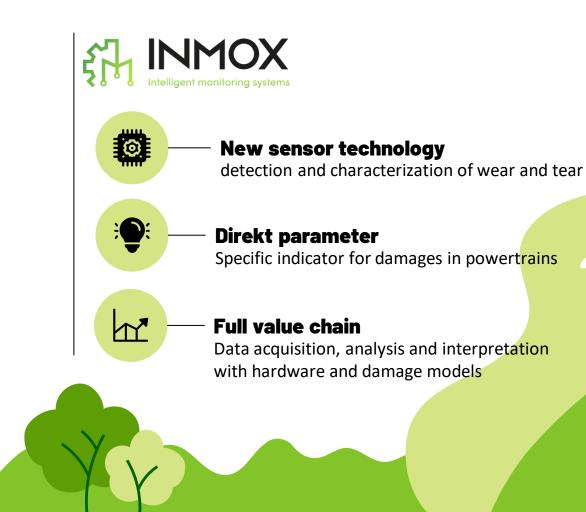
#### Interpretation

Decide whether or which maintenance is needed

Action Initiation of maintenance steps

### Challenges and Innovations of CM



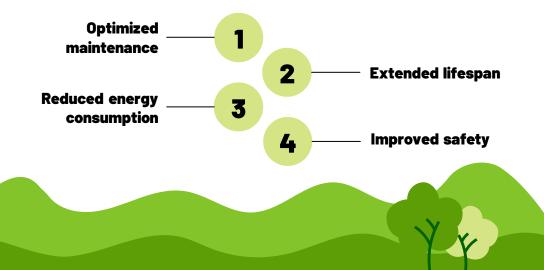


## Sustainability in O&M





Predictive maintenance could reduce maintenance costs by up to 40% and can reduce downtime by up to 50%. Estimated economic impact of nearly \$630 billion per year.



### Conclusion

Optimized maintenance is key to sustainability

Don't stuck at the status quo

Non-monetary parameters will be necessary for our future



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