

Question today imagine tomorrow create for the future





WSP Leading Business and Technical Advisory



Contributes to sustainable development



52,000



500



40







4,500



40







Residential



Bridges



Energy



Automotive industry



Healthcare



Hospitality



Industry



Rail and transit



Commercial and mixed use



Aerospace



Maritime



Sports and stadia



Cities



Telecom



Tunnels



Education



Roads and highways



Water





WSP – Future Ready

Climate change



Warmer



Wetter



Extreme Weather

Technology development



Electification



Digitalisation and automation



New production methods



New materials

Changes in society



Urbanisation



Demograhic changes



Segregation, loneliness and insecurity



Digital relations

Resource Usage



Climate neutrality



Circular economy



Changing energy systems



Threatened Ecosystems





WSP Rail Advisory







DIGITAL RAIL SYSTEMS



ROLLING STOCK

- Experience within the railway industry both locally and globally.
- Around 80 consultants with a focus on Rolling stock, Operations and Maintenance.
- Holistic perspective based on detailed knowledge.





Nordic Rail Advisory



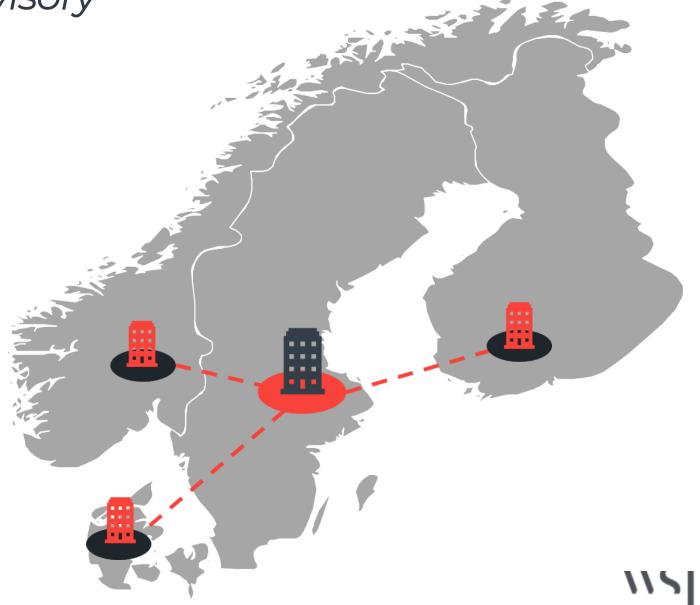
Lead

Business Unit



Area

Business Unit



Digital Rail Systems

Research-Analysis, Procurement, Project Execution

Areas of competence

Data Driven Decisions, Data Analytics Digitalization of Railways Strategyfor Signaling

Clients & Assingments





Digirata Finland Digitalization of finnish Railway - TMS







with Trafikverket









Content

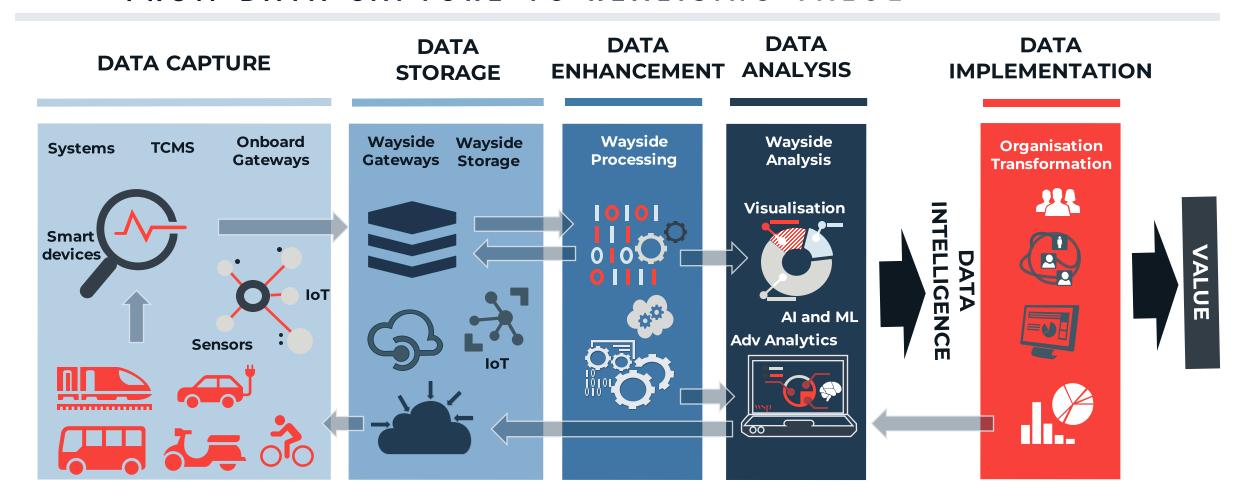
- Some background
- Modern Maintenance and its value
- Barriers implementing Modern Maintenance

VSP's image gallery

WSP strategy

The Data Value Chain

FROM DATA CAPTURE TO REALISING VALUE

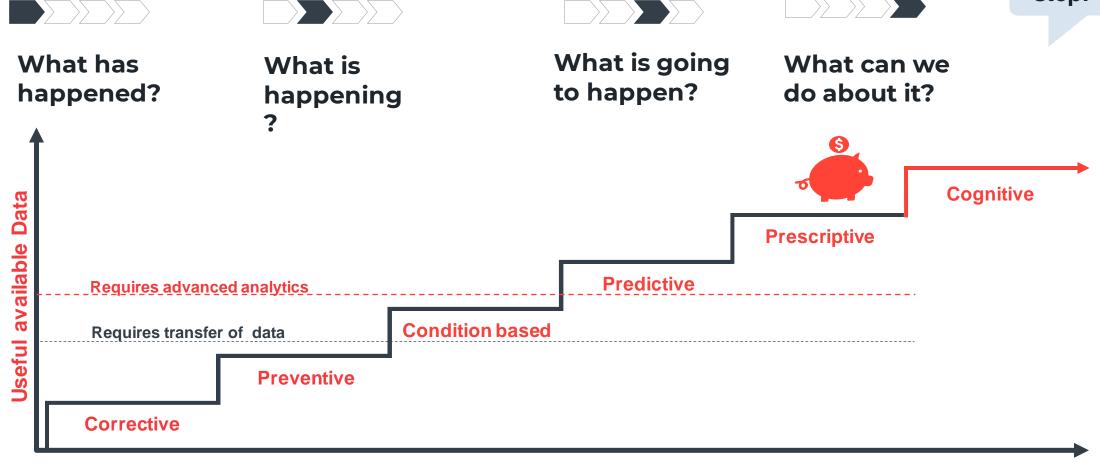




Maintenance Application

Maintenance optimization and reduce operational disturbances

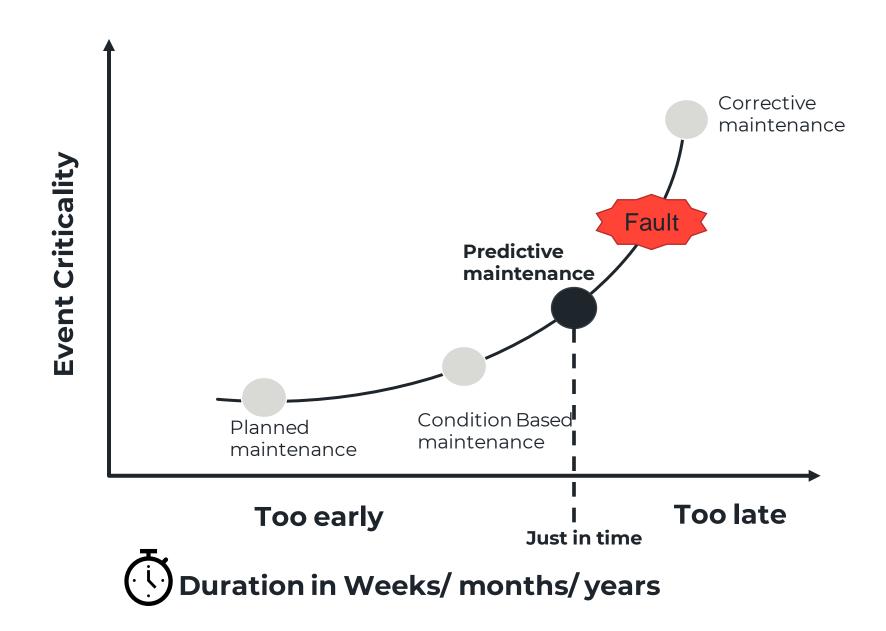
Cost savings for every step.



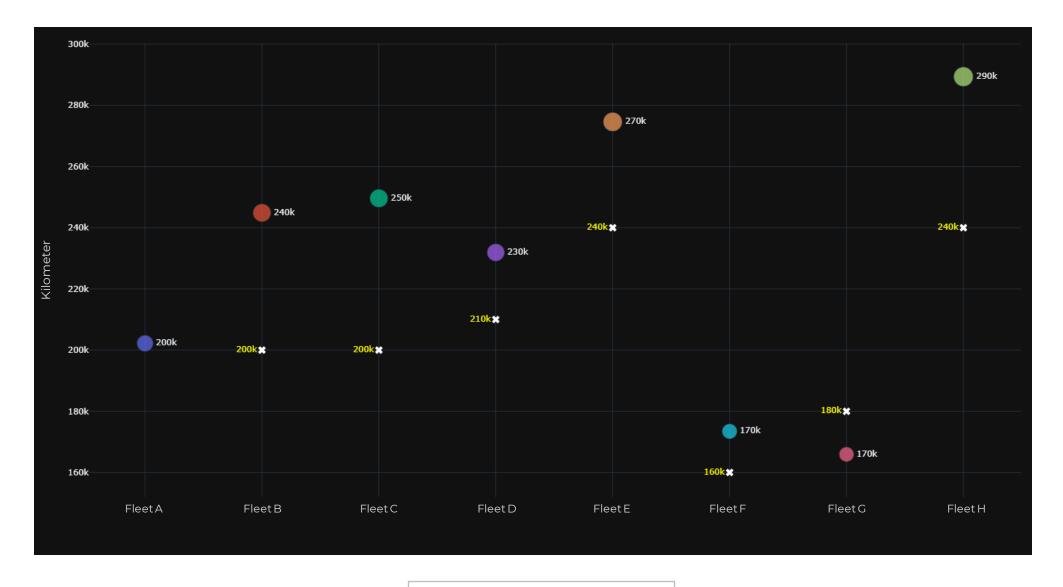
Maintenance optimization and Operation disturbance avoidance



Fault vs Maintenance Application



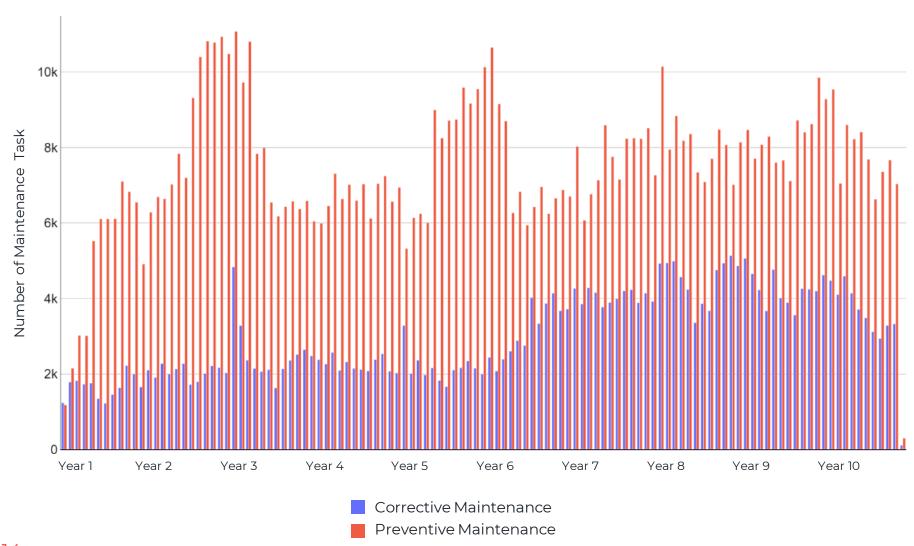








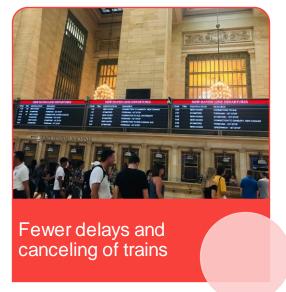
Maintenance tasks for Corrective and Preventive Maintenance





Values of Modern Maintenance









Importance



To handle complex asset



Prevent problem from the start



Improved real time visibility



Helps in maintain and optimize backlogs



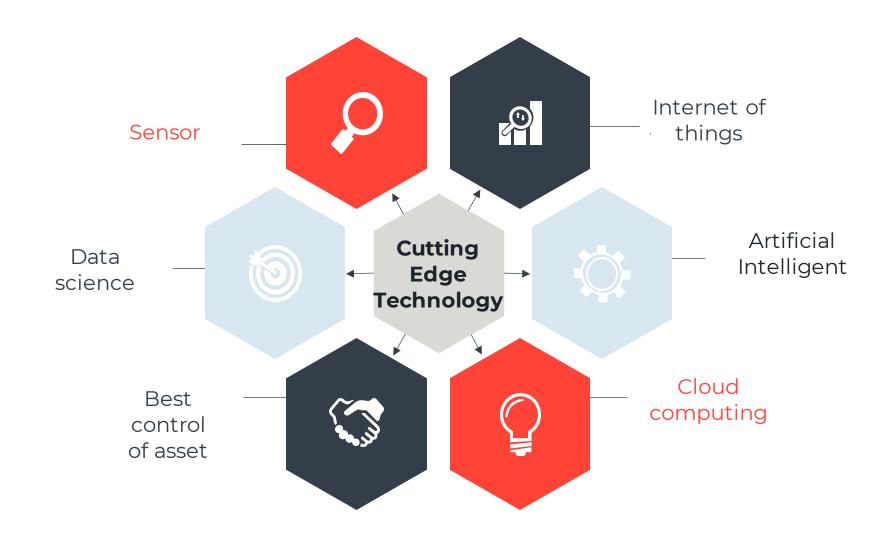
Quick access to maintenance information



Better workplace safety

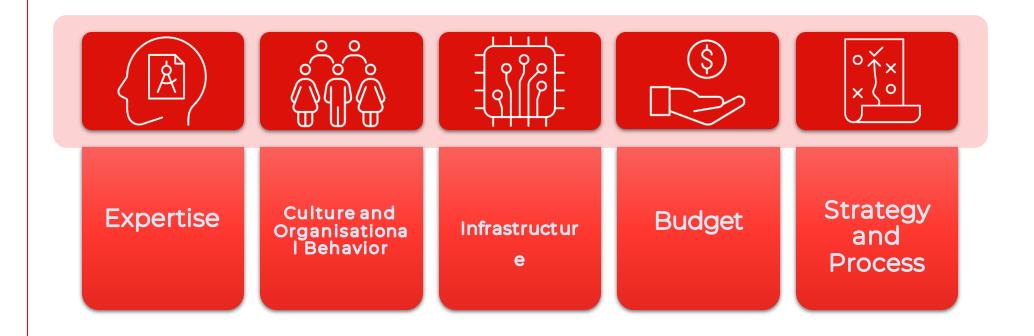


Cutting Edge Technology





Some Barriers





WSP strategy to overcome the barriers



Assess companies to find their barriers and potential opportunities using a **Maturity Model**



Help preparing **guidelines** to achieve Modern maintenance



Facilitate implementation of various stages of the process



Follow-up and evaluate the efficiency after implementation and update the plan to reach the desired efficiency



Maturity Model

Maturity Model

WSP has defined Maturity Model to assess readiness to implement

* Modern Maintenance





Key Take Aways

- Modern Maintenance and its importance
 - Better Maintenance Flow Fewer Distruptions Lower Cost

VSP's image gallery

- Barriers to implementing Modern Maintenance
 - People Technology Process/Planning Initial cost
- WSP Strategy
 - Maturity Model assessing the potential







Anna-Karin Nordekvist

Free to be proud

Technical Project Manager train and IT solutions at WSP Sverige Greater Västerås Metropolitan Area · Contact info

WSP i Norge

WSP planlegger, utvikler og utformer bærekraftige samfunn som er rustet for fremtiden.

Construction · Oslo · 6,418 followers



WSP i Sverige

WSP framtidssäkrar världen

Civil Engineering · Stockholm-Globen · 42,974 followers

Thank you



wsp.com