

IPS-LIFT

Intelligent predictive system for lifts



ŠKODA
SIMPLY CLEVER

Karel Mann, Daniel Žemla

PSZ/14

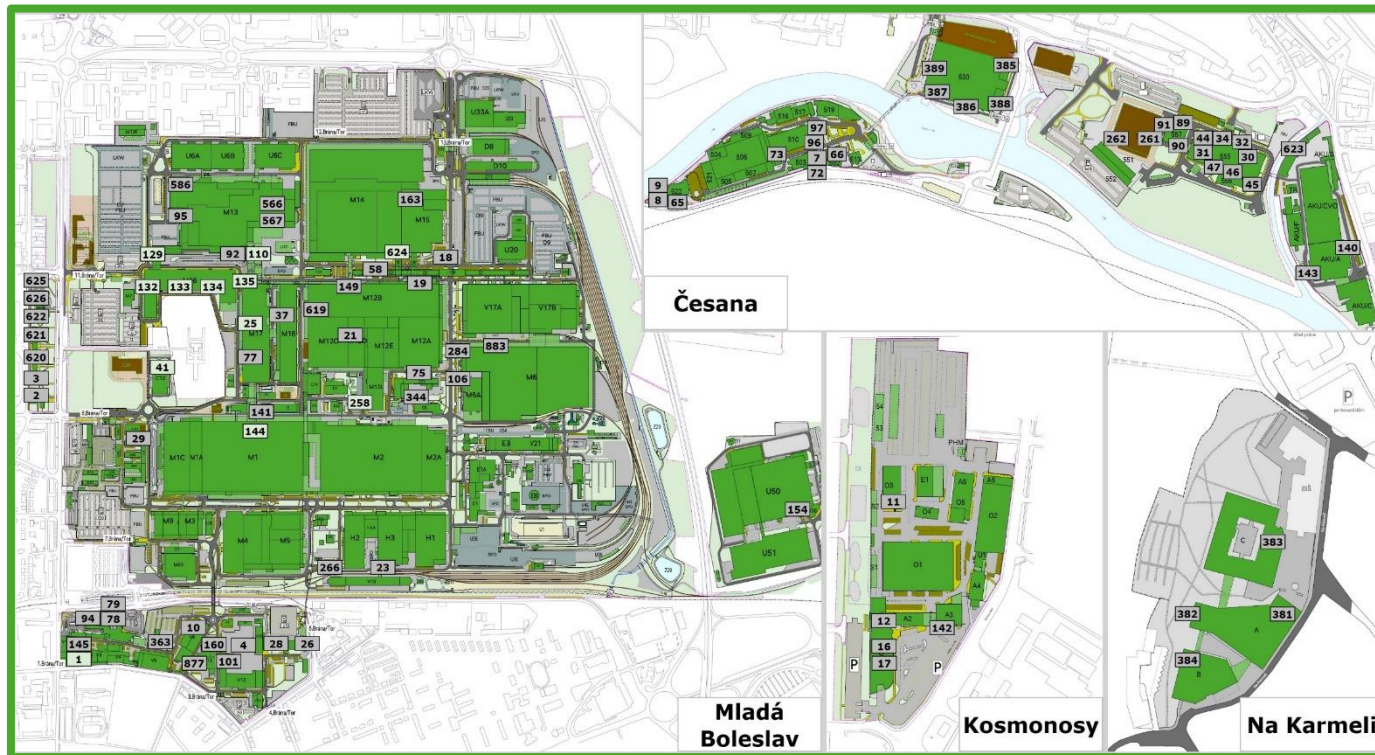
03.06.2021



INTERNAL

IPS LIFT

Map of locations of 119 pcs of lifts in ŠKODA AUTO Mladá Boleslav



Lift:

- lifting equipment serving stations on different levels
- a compartment to transport people and/or cargo
- a lift shaft
- Must meet standard ČSN EN 81-20

Legend:

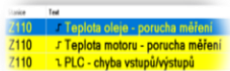
 Lift evidence number

 Lift connected in IPS-LIFT system

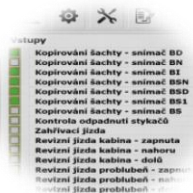


IPS LIFT

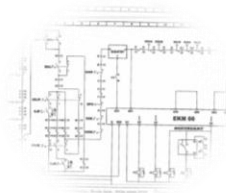
Online lift monitoring and fault diagnosis



Display
of error messages
from elevator sensors



Overview
of operation and faults
history



Access
to lift documentation



Control
of service life of mechanical
and electrical components



Monitor
el. voltage, battery state,
oil and room temperature

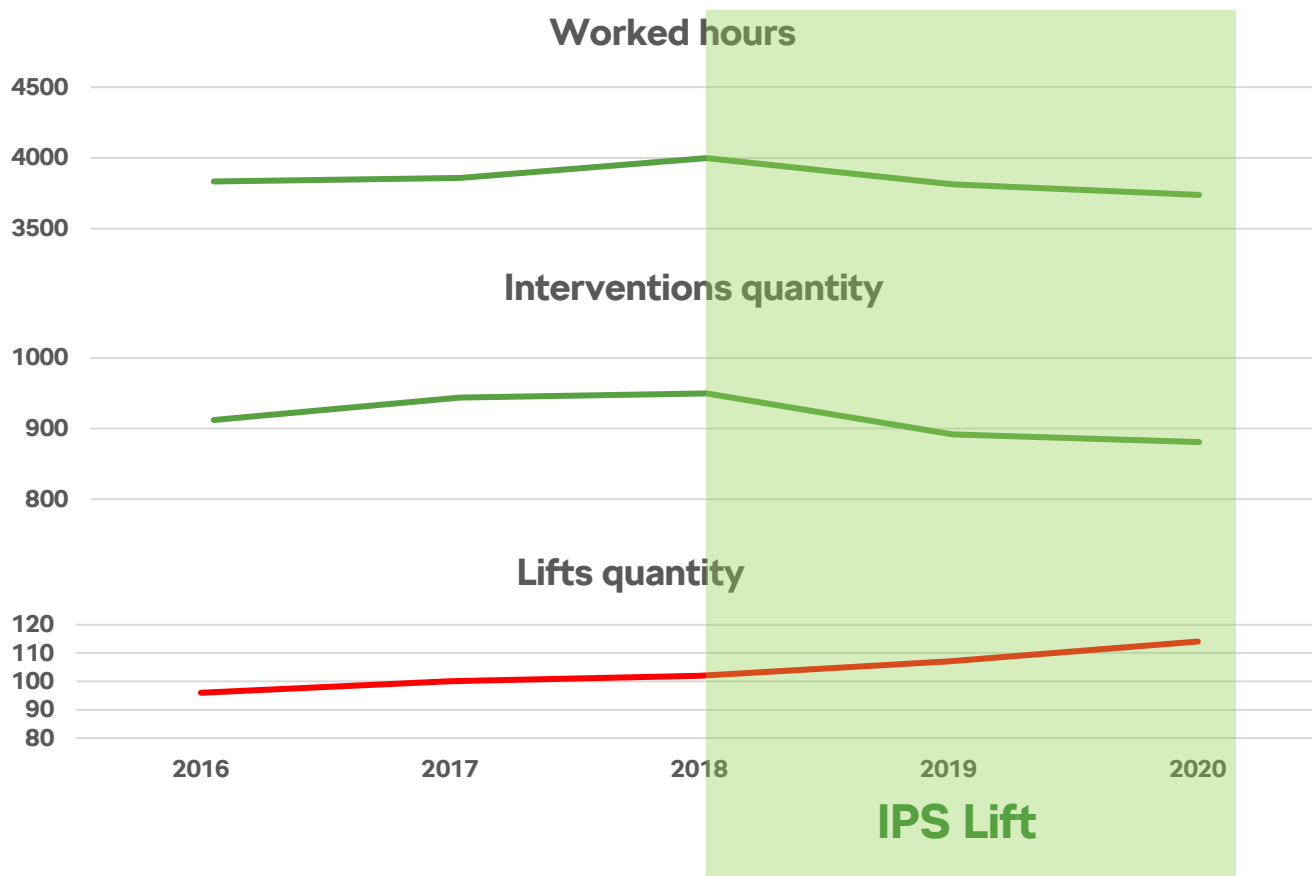
Predictive maintenance

- Reduction of real downtimes
- Effective repair and spare parts planning
- Cost savings
- Increased maintenance flexibility



IPS-LIFT

Overview of lift service by the PSZ/141 department



Price of the system:
27 000 €/lift

Example of downtimes:
Hall M13 (reserve for 30' , after that
loss in 3 400 €/1 minute)

Savings of predictive system:
Reduction of annual spare parts stocks
by 50% (approx. € 57 000)



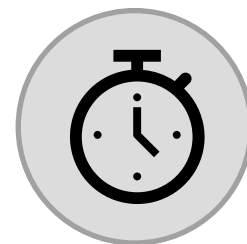
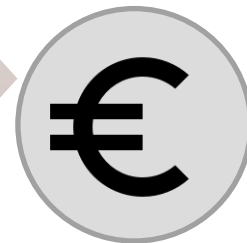
Interactive part (concrete example)



FUTURE

IPS LIFT

- Implementation of the system accross ŠKODA AUTO in a Simply-Clever way (2022 + 10 lifts)
- Online vizualization on mobile devices
- Two-way video transmission between lift and serviceman (2023: 23 lifts)



THANKS FOR YOUR ATTENTION!



ŠKODA
SIMPLY CLEVER

Contact person:

Daniel Žemla