

Who am I - and who do I work for?



→ Who am I?

- MSc.E (Civil ingeniør) in Engineering Physics (Teknisk Fysik) from DTU in 2008
- PhD. in Quantum Physics from DTU in 2012
- Operations Research Analyst with S-tog/DSB since 2012

→ Who do I work for – DSB?

- The Danish National Carrier
- +7.500 employees
- +190 mio. passengers per year.
- +65 mio. kilometers per year.
- 11.000 mio. DKR turnover per year

Maintenance planning



- → Safety constraints vs. cost
- → Have trains in operation not in workshops
 - Without compromising safety



VS.

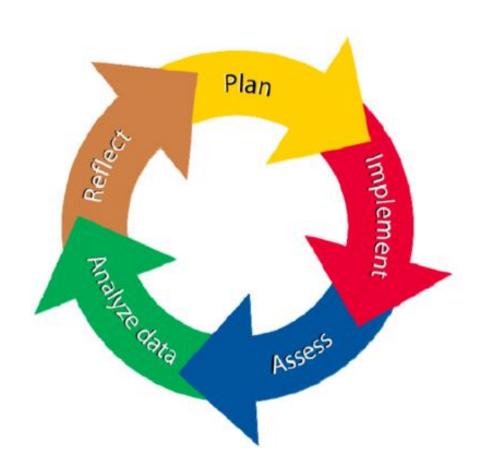


Maintenance planning



→ A transition process

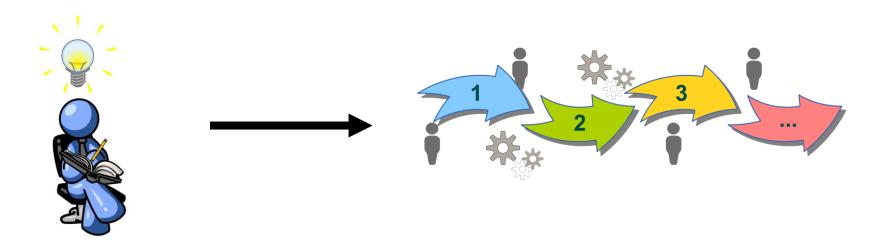
- Maintenance plans based on actual state of fleet
- Data driven decision making
 - Problem formulation
 - Data collection
 - Data analysis
 - Conclusion
 - Recommendation
 - Implementation
 - Follow up



Process for shuttle bus planning



- → Change Management Project
 - From "Dependent on person" to "Documented process"
 - Develop and Implement formal process for handling of shuttle bus planning
 - Develop process support tools
 - Decision support and documentation



Student projects



- → Planning
 - Timetable
 - Rolling Stock
 - Crew
 - Maintenance
- → Optimization
- → Data analysis
- → Contact Head of Department, Julie Jespersen Groth, jjespersen@dsb.dk
- → Also potential student jobs

