Smart Maintenance

Sustainability Circle

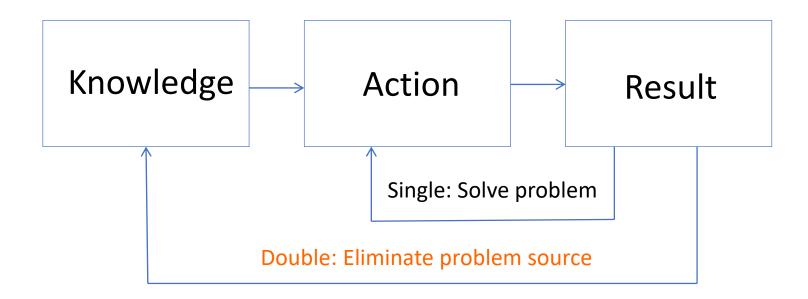
Sustainability Circle

- Think tank
- Mission: Industrial Sustainability through Smart Maintenance
- Founded 2010
- 45 principals (industrial production, infra structure, hospitals)
- 100 120 events per year

Starting point

- Industrial Sustainability is about enginering not PR
- 100 000 employees
- 10 000 managemers
- Ironically: "Nisse with the bucket"
- OEE (Overall Equipment Effectiveness) < 55%
- Yearly financial costs of break downs: > 100 000 000 000 SEK

Step 1: From single to double loop learning



Step 2: Digitalization

- Technology is following patterns
- Pattarens can be recorded
- Recorded papperns can be used for prediction (single loop learning)
 and cause effect analysis (double loop learning)

Object

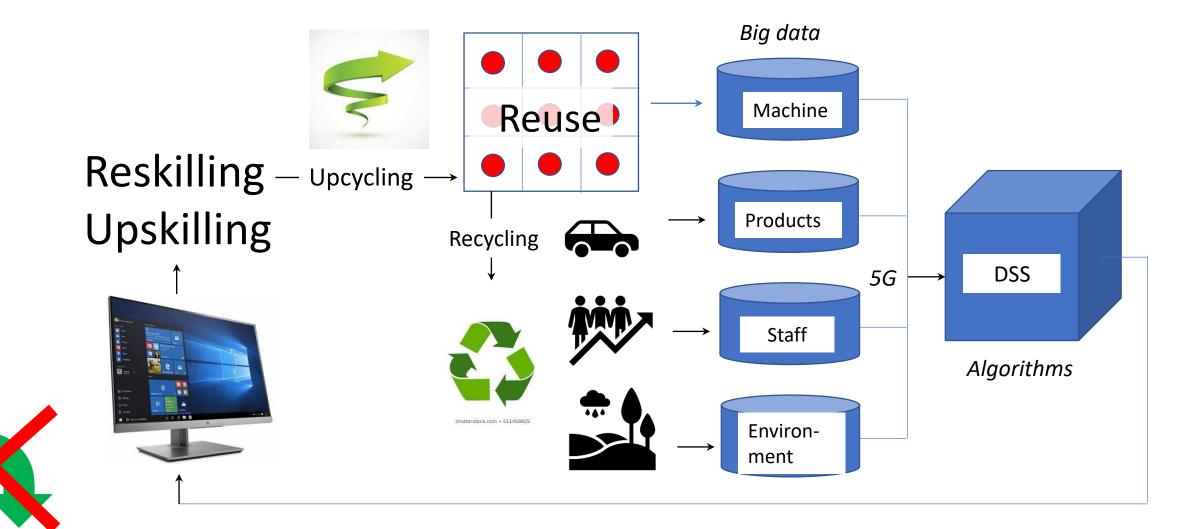
Process

Object

External/internal R&D

Smart Produktion

Externt/internt maintenance



Step 3: Integration

- Digital vs analogue technology
- Digital vs digital technology
- Internal horizonal integration
- External horizonal integration
- Top management vs operational level
- Artificial intelligence vs cognitive

Thoughts?

Thank you!