



TRAFIKVERKET

Excellensområde 8

Drift och Underhåll

Nyttgörande av behovsdriven underhållsforskning och tillämpning av ny teknologi

Norrköping 2023-10-24

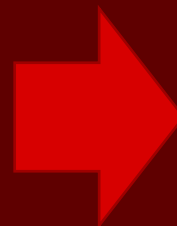
Objectives

- Safety
- Capacity
- Availability
- Punctuality



Challenges

- Traffic growth outstrip system growth
- Aging system
- Security
- Climate action and mitigation



Actions

- Asset management focus
- Risk management
- Efficiency and effectiveness through digitalization

Digitalised operations (signalling, traffic planning, traffic control)

Revamped Enterprise Asset Management System

Asset condition monitoring and decision support

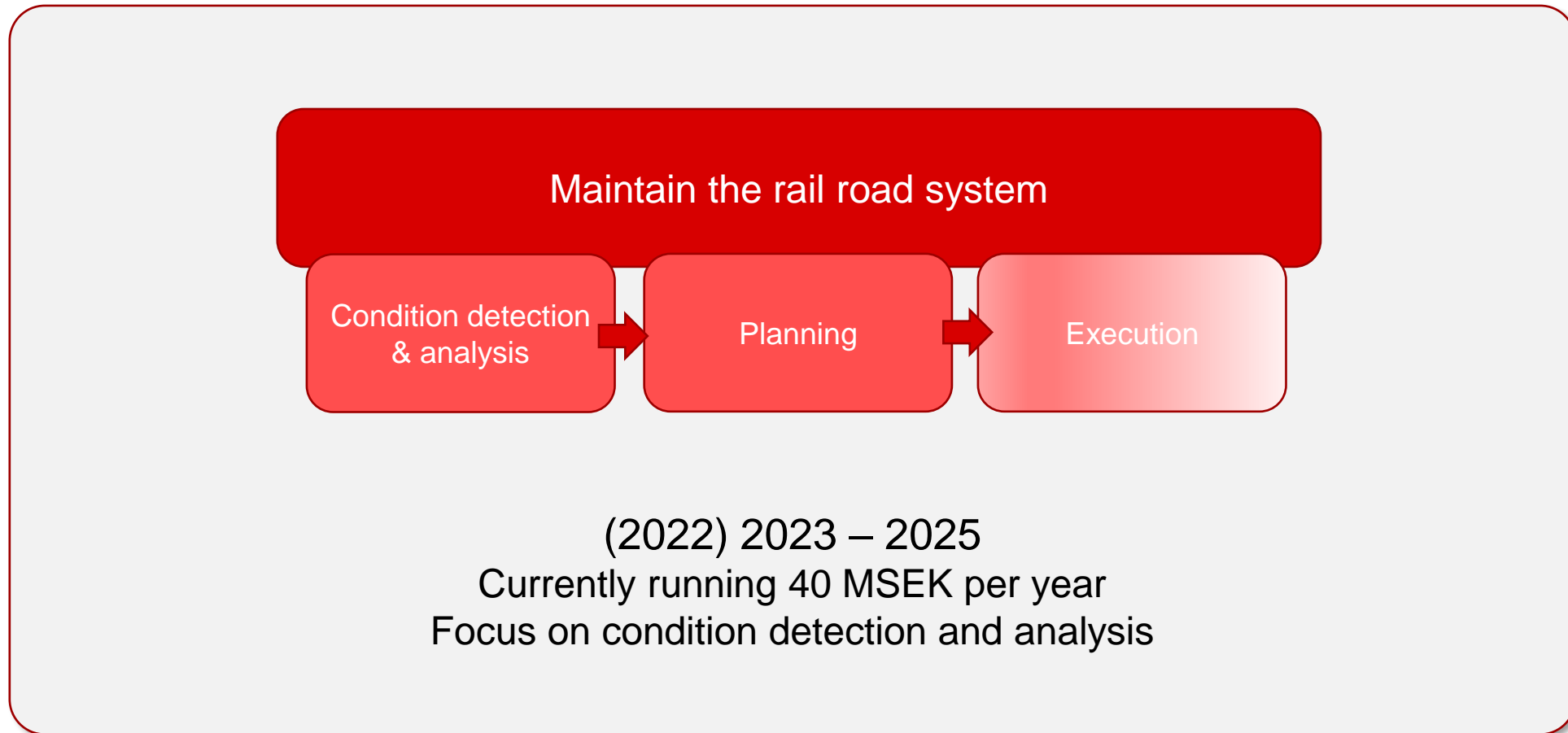
Technical Platform / Digital Twin



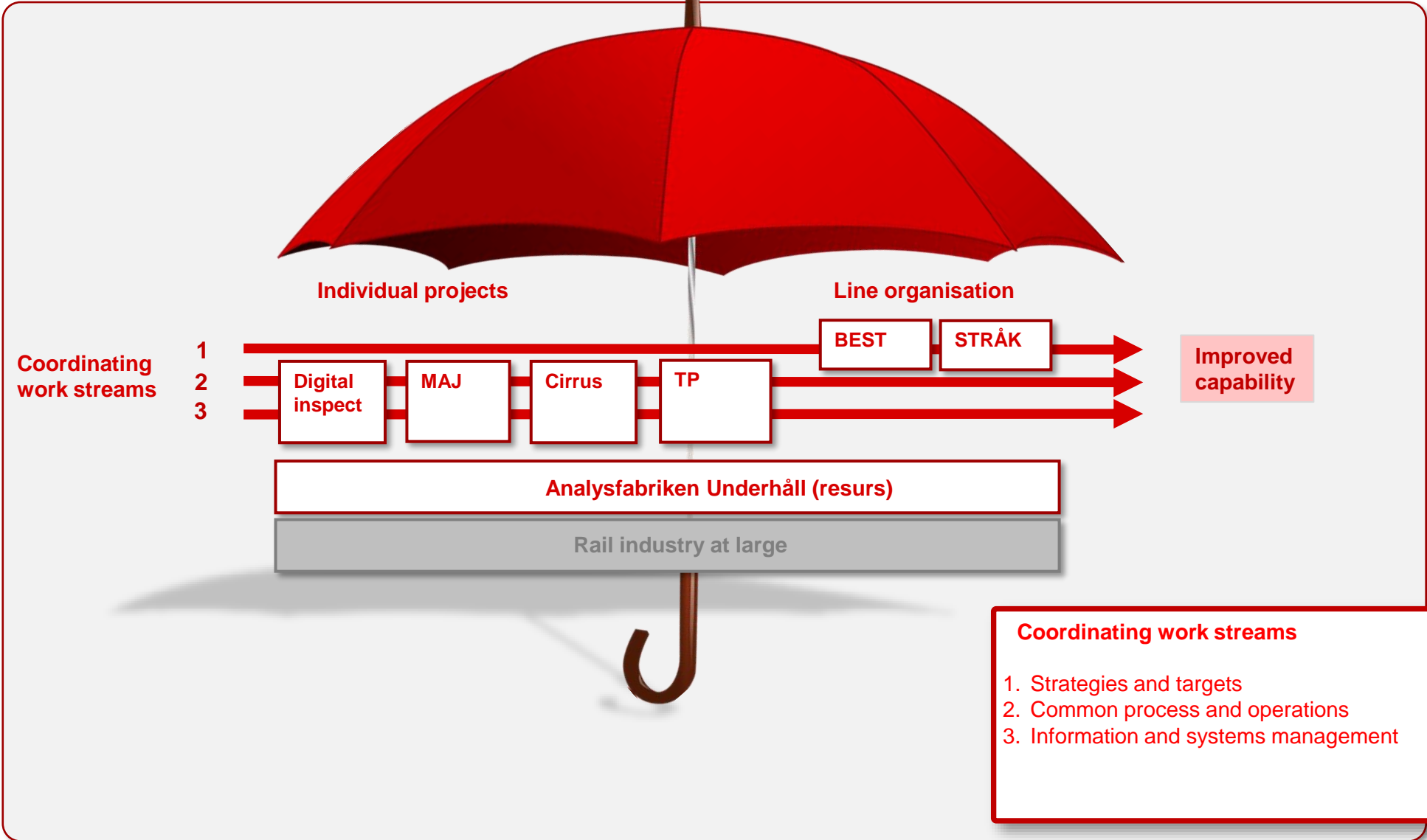
Program DUVA

Data driven and intelligent Railway maintenance,
Operational Development

A 3 year program

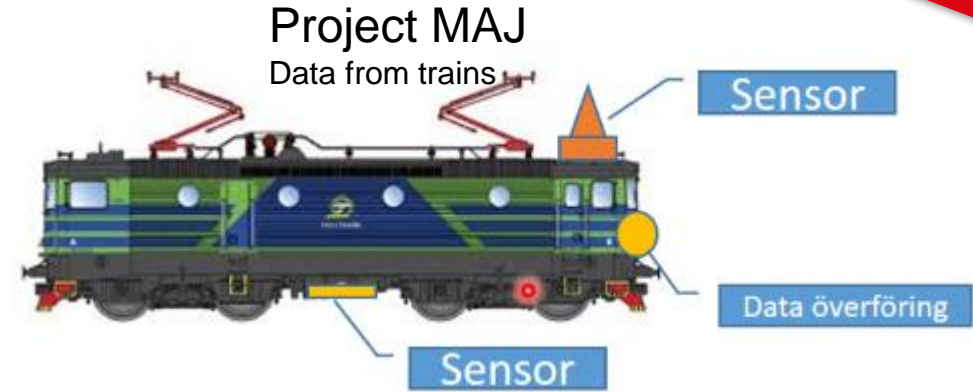


Program governance



Ongoing projects

Program DUVA



Project Digital Inspection AI analysis of Line camera images

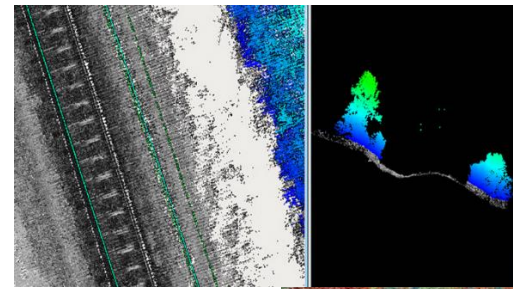


STM/ WARM

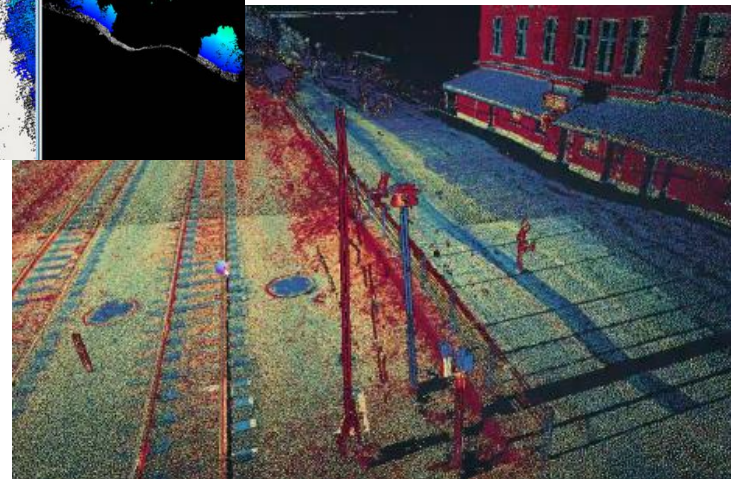


TP monitoring

TP monitoring from on board systems



Project Cirrus LIDAR data and 360- pictures



Potential projects



Project Switching systems

- Point machines
- Crossings
- Heating

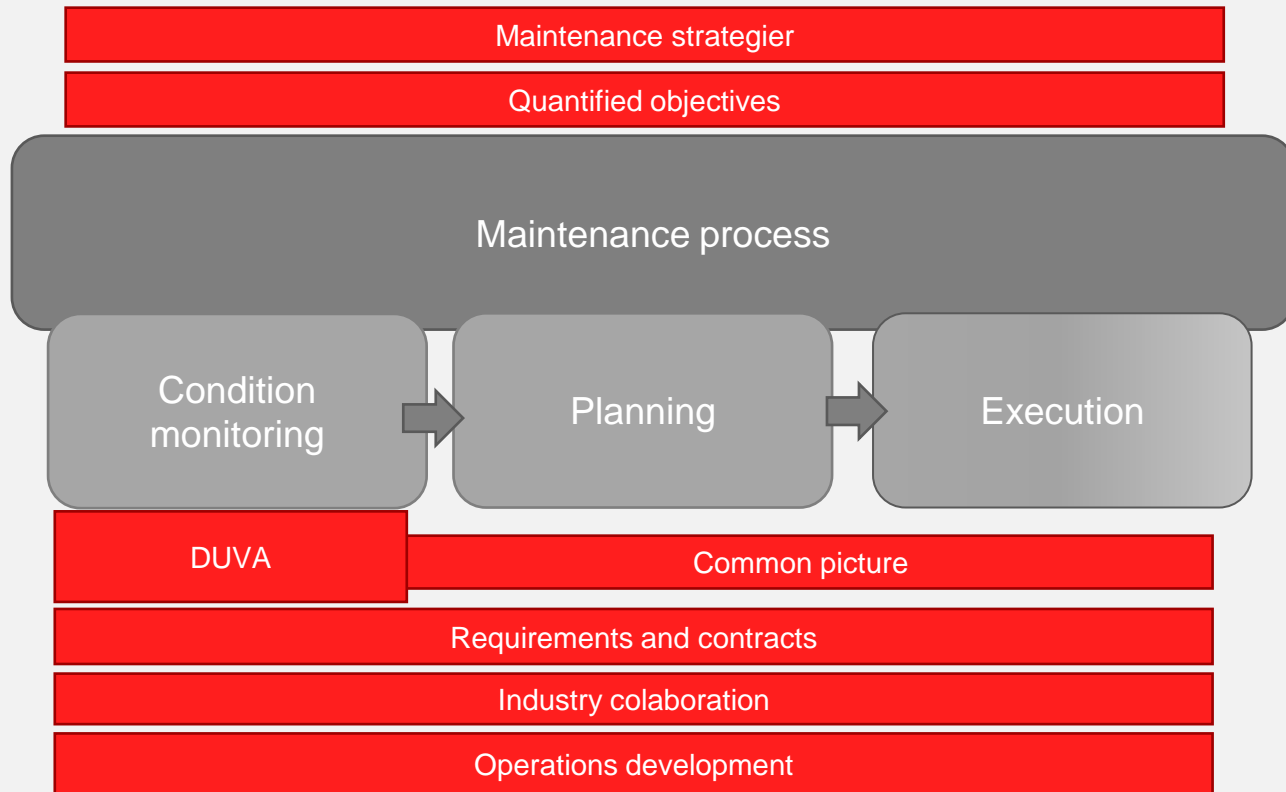


Low voltage electric supply monitoring

Program DUVA



Supervision system architecture
Prel study



Thank you

