A sad day
Digitisation
Digitisation in the Rail Industry
Your challenges

- More Passengers
- Higher required frequency
- More services
- Complexer equipment
- Ageing workforce
- Lower budgets
Digitisation & Asset Management

- Using data to:
  - Achieve the highest value of your Assets over their lifetime
  - How to get started?
Start in the beginning

- Where are you today?
- What is your maturity?
- What are the work processes?
- What data is gathered?
- What is the data quality?
- What are your major challenges?
What is your maturity?

1. Asset Register complete?
2. Asset Data defined
3. Work Order processes accurate
4. Asset Performance Known
5. Asset Spend Optimized
Support for current problems

- What is your biggest challenge today?
  - Customer delay minutes
  - Travel time
  - Workers Safety
  - Budgets
An Example

- Wayside monitoring systems at Prorail
  - Wheel to track communication
  - Time of the day
  - Load of the train
  - Speed of the train
  - Wear of the wheel
Vision for the future

- No man on the track
- Customers well informed
- Performance predictable
- Cost / Totex = optimised

How can digitisation support you?
Business Challenge

- What topic to address first?
- From Push - Pull
The money: Strategic Funding

- This is not a one off
- It is a learning exercise
- Be prepared
- Agile & MVP
The operating model

- Combination of
  - Classic
  - Modern
Get your organisation ready

- Identify their challenge
- Define correct mix of people
- Involve graduates / students
- Define the right quality data
- Allow and motivate to fail
- Celebrate success
5 Take aways of Digitisation

- Define the “Business Why”
- Strategic funding
- Balance between traditional operating models & digital driven models
- Agile Digital Transformation Teams
- Design Thinking
KONE Experience

- 1.1 Million Assets
- 1 Billion passengers
- Business critical
- Systems communicate
- Systems learn
- Continuous improvement
Thank you