

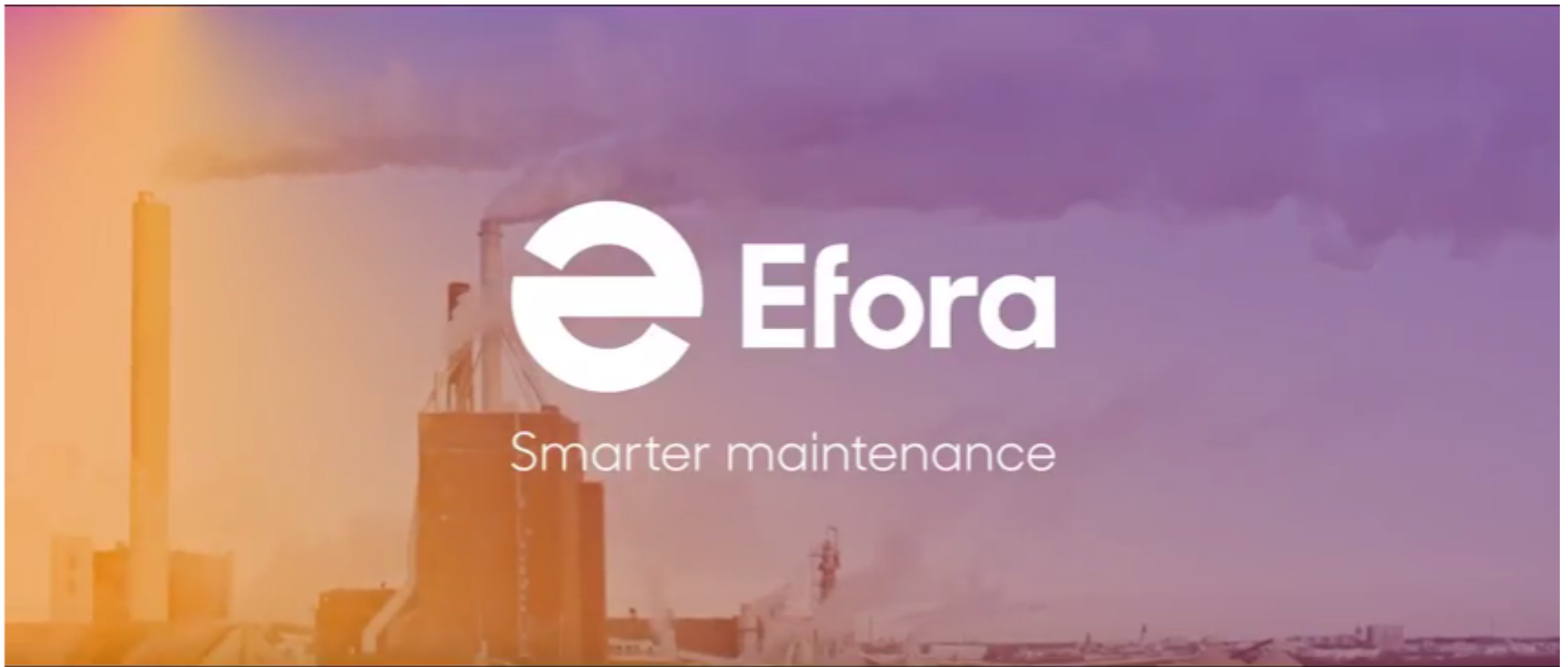
# Smarter maintenance



**Value creation by industry maintenance digitalization –  
no buzzword but practical examples and future vision**

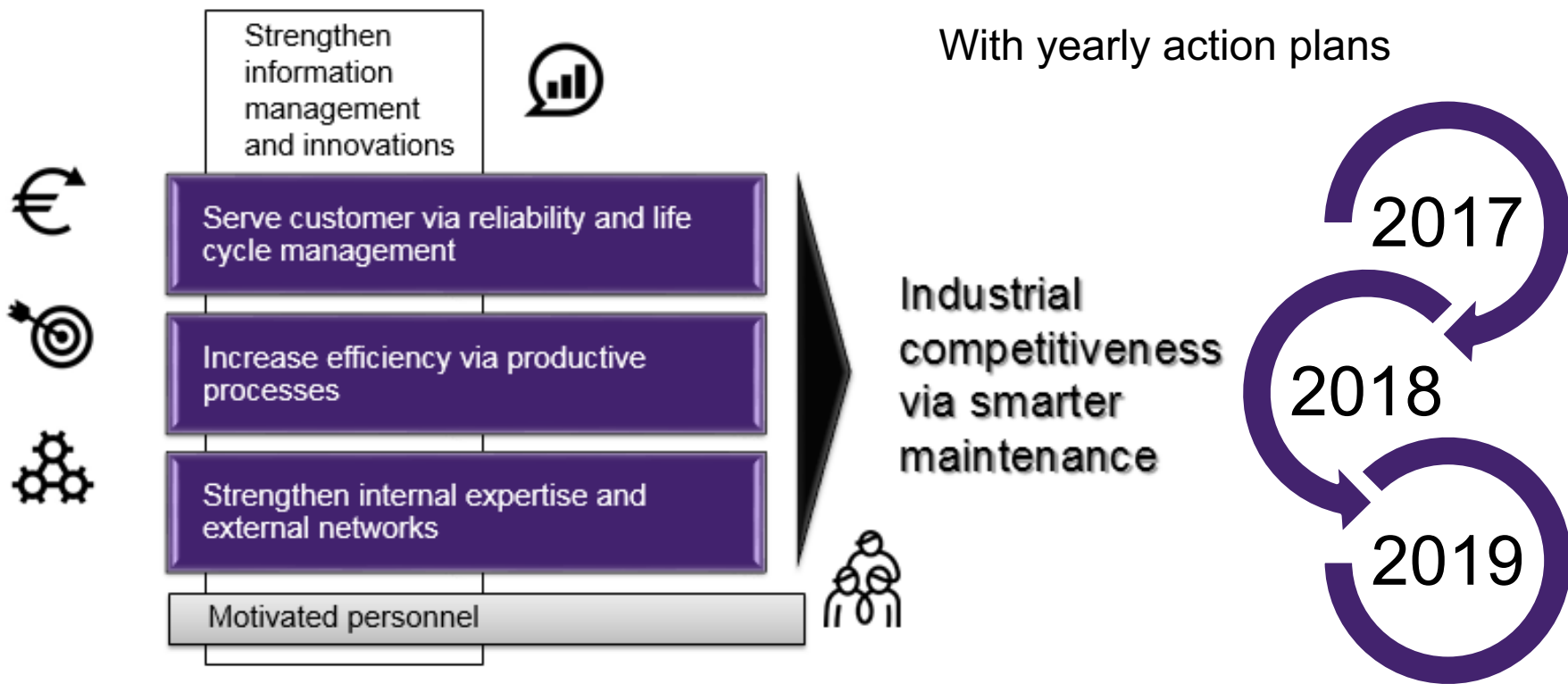
Industry Summit 6.10.2017 Oulu

# Efora - Smarter maintenance



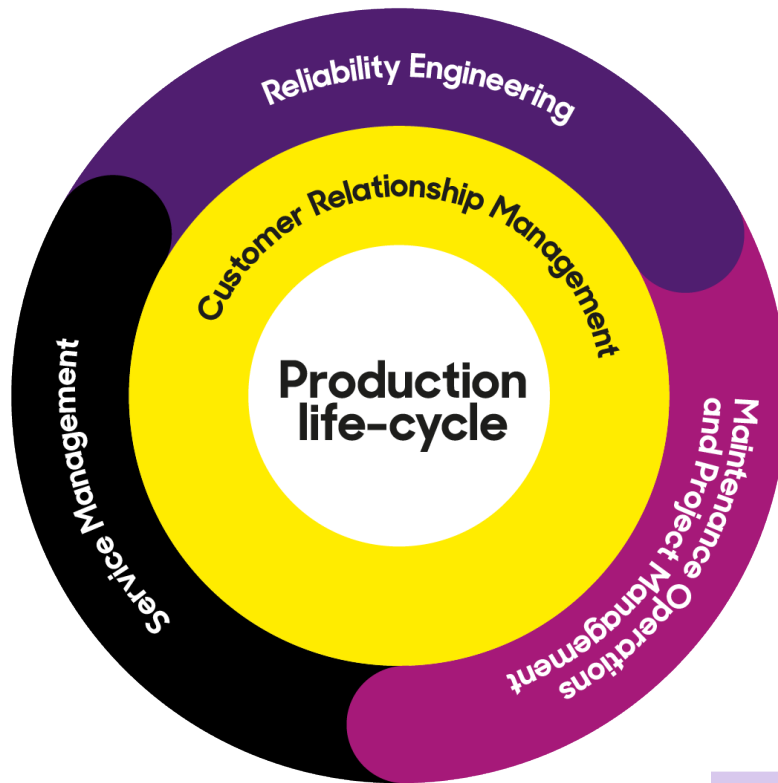
# Our path to results – Big picture

## Strategy implementation

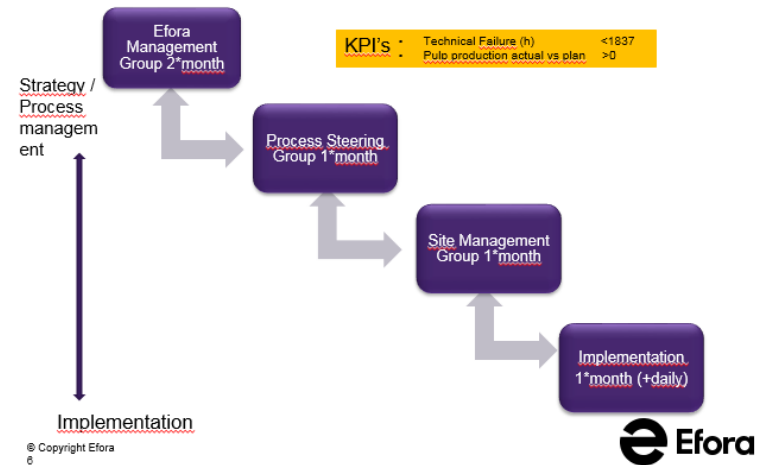


# Our path to results – Big picture

Strategy implementation → Systematic Management



## Reliability optimization process – Leadership modell



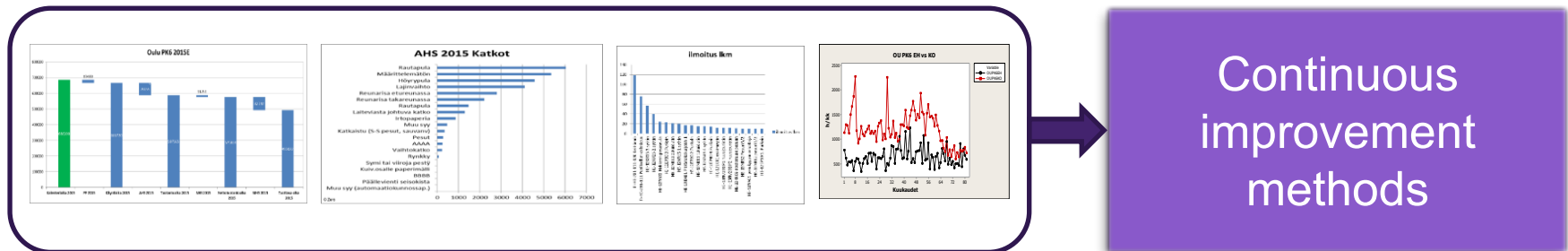
Proactive – Continuous Improvement

Reactive - RCA

Improvement Project - DMAIC

# Our path to results – Big picture

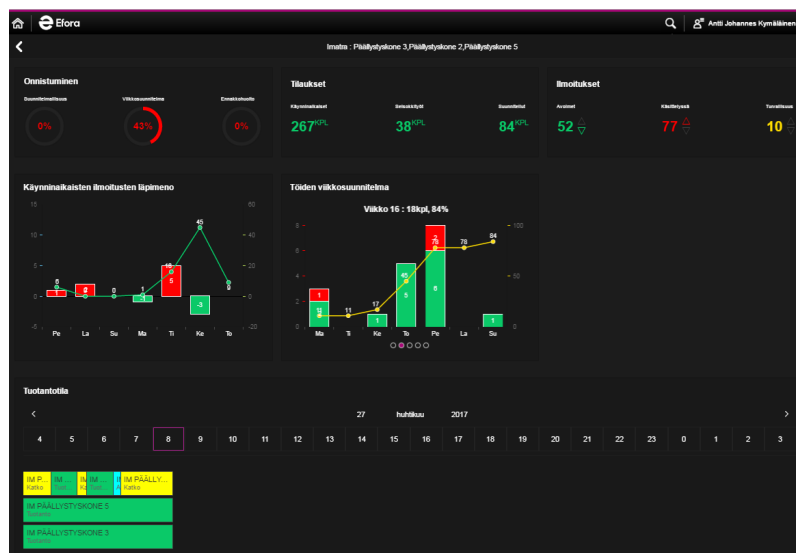
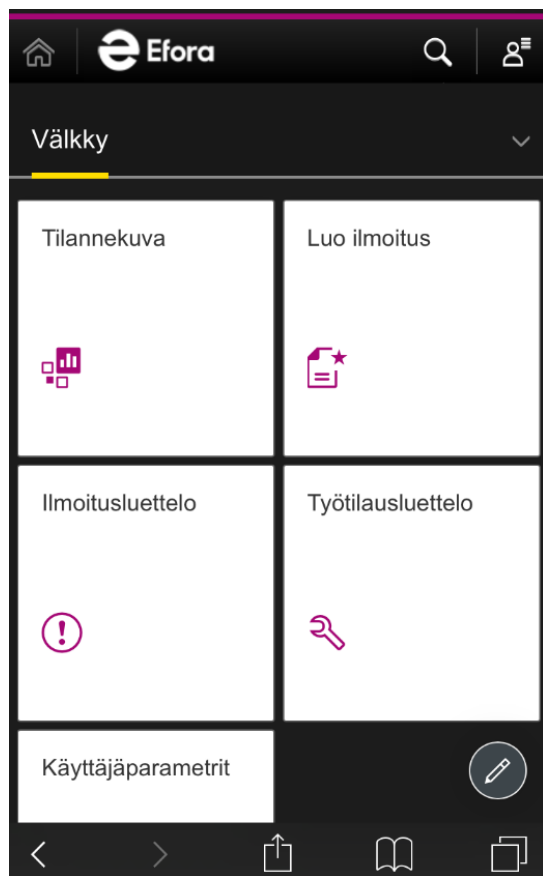
Strategy implementation → Example: Reliability plan



Strategy & vision

# Our path to results – Collect data and analyze

## Example: Mobile solutions for technicians (Välkky)



ID	Ilmoitus	Aika
23 PSEI ILKÄ TIKO ILTU		
30323561	Hylsytyshäiriö	16.11.2016 19:39
KP-611-533	keskinkert.	1005400
FIIM2440		613
11 KÄYN TIKO ILPÄ		
22218654	Venttiilin vaihto	16.11.2016 18:46
KP-593-562		1005230
IM_178-059		420
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23 KÄYN ILAV		
30323568	hälyttelee ala- ja ylärajaa tarpeettomasti	16.11.2016 18:09
TA-643-FC022		1005561
IM_643-FE022		810
FIIM1811		

**11 KÄYN TIKO ILPÄ**

**22218654** 16.11.2016 18:46

**Venttiilin vaihto**

KP-593-562 - KAP PAKKAAMO TAITTOLAITE 403

IM\_178-059 - TAITTOLAITTEISTO ROBOWRAP 1005230

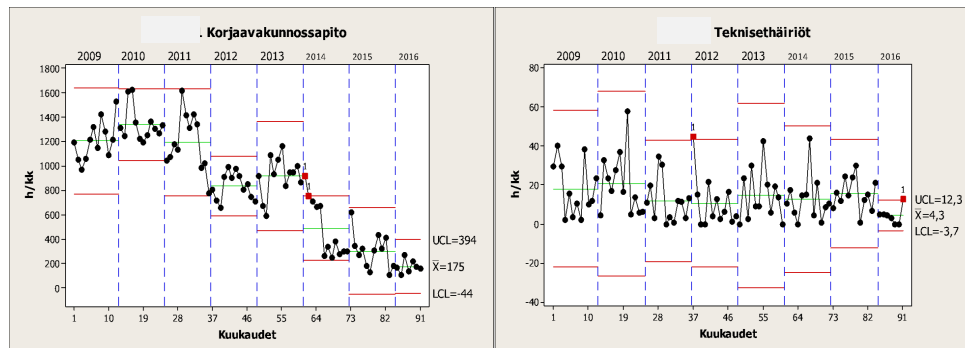
FIIMKP01 - KÄYTTÄJÄKUPI 420

16.11.2016 18:53:00 CET Riku Ronkainen (RONKAPI01)

Vaihdettu kapalle oikeanpuoleisen viikkaimen sivuttaissiirron feston venttiili sekä uudet ulospuhallus kivet. Testattu. Efora oli tilannut venttiilin. vanha venttiili pakkaamon valvomossa.

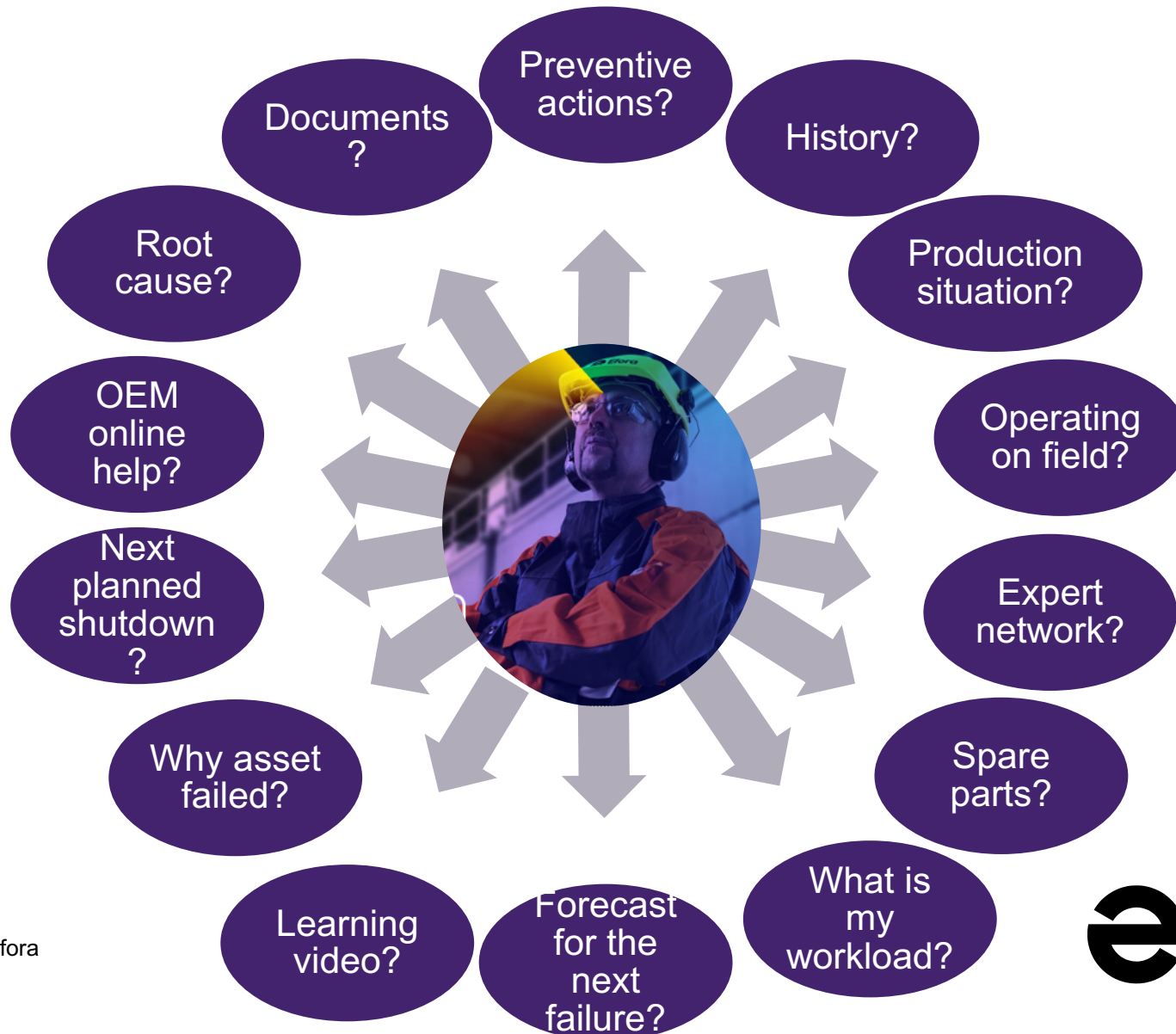
# Our path to results – Collect data and analyze

## Example: Reporting and Analyzing (Rapsa)



# Our path to results – Improve in the field

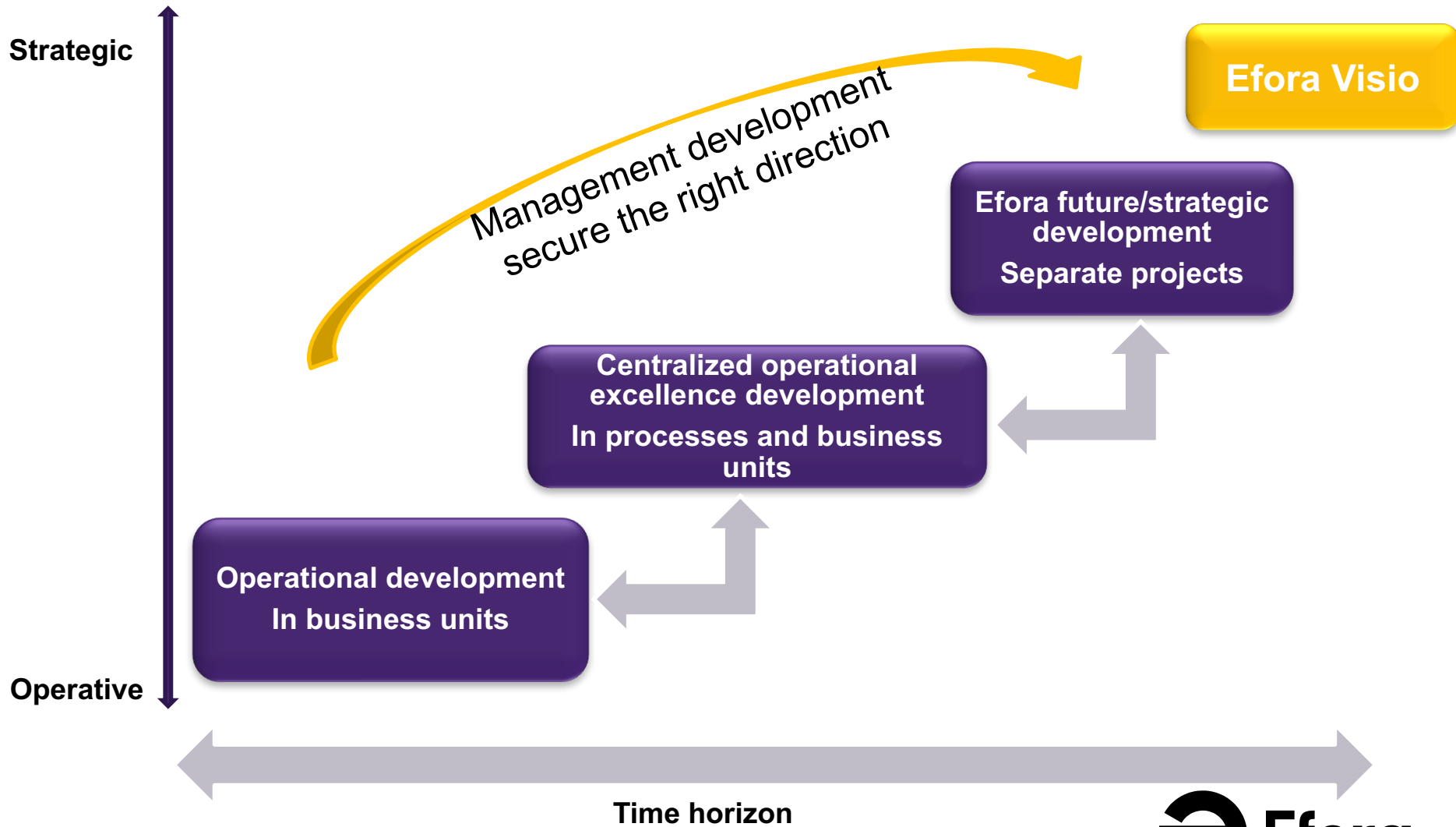
Implementing is the key to success





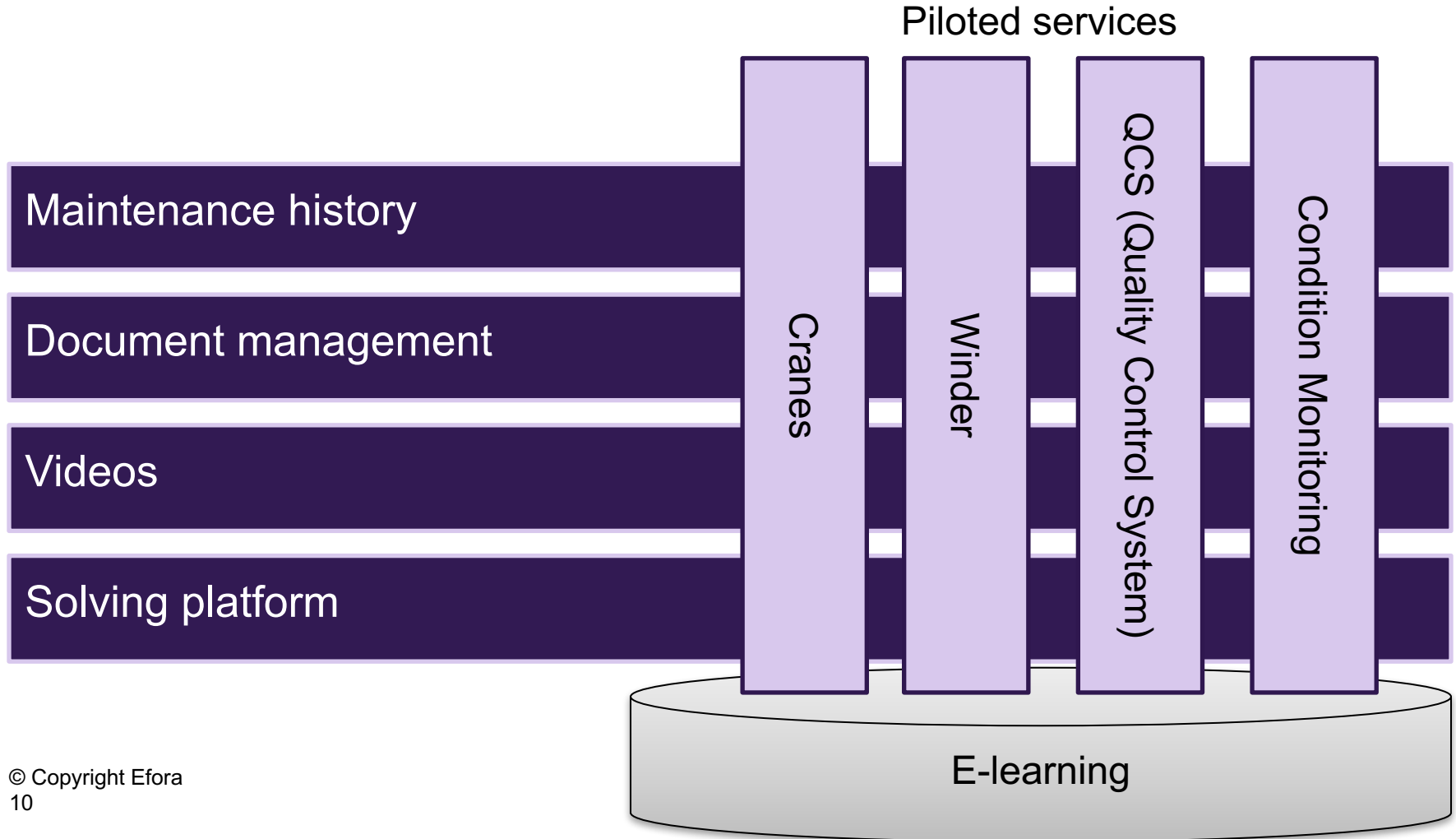
# Our path to results – Future steps 2018-2020

Towards our vision



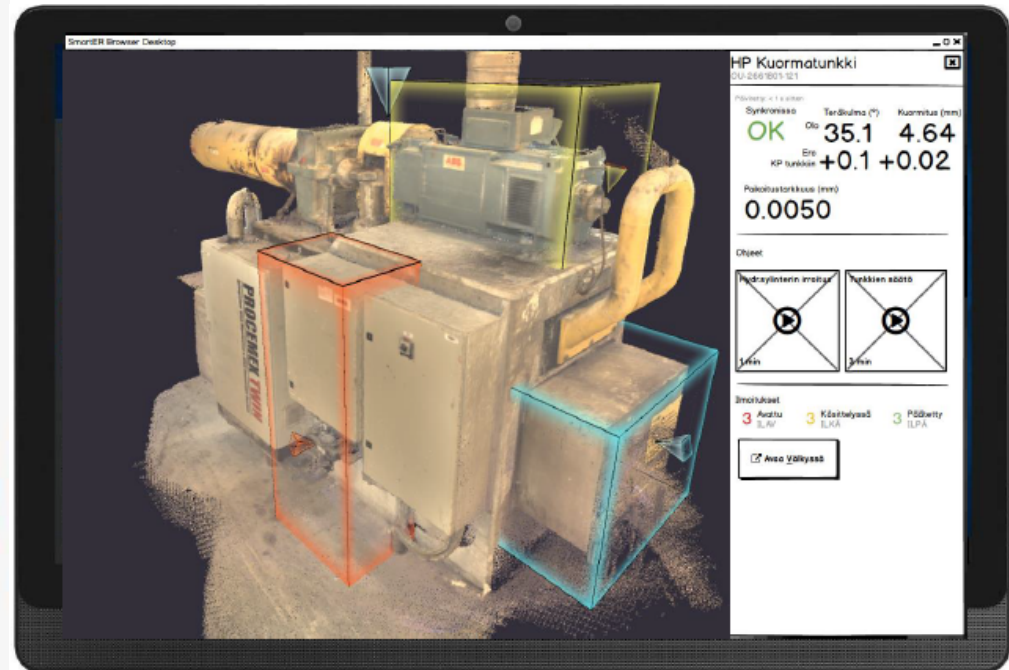
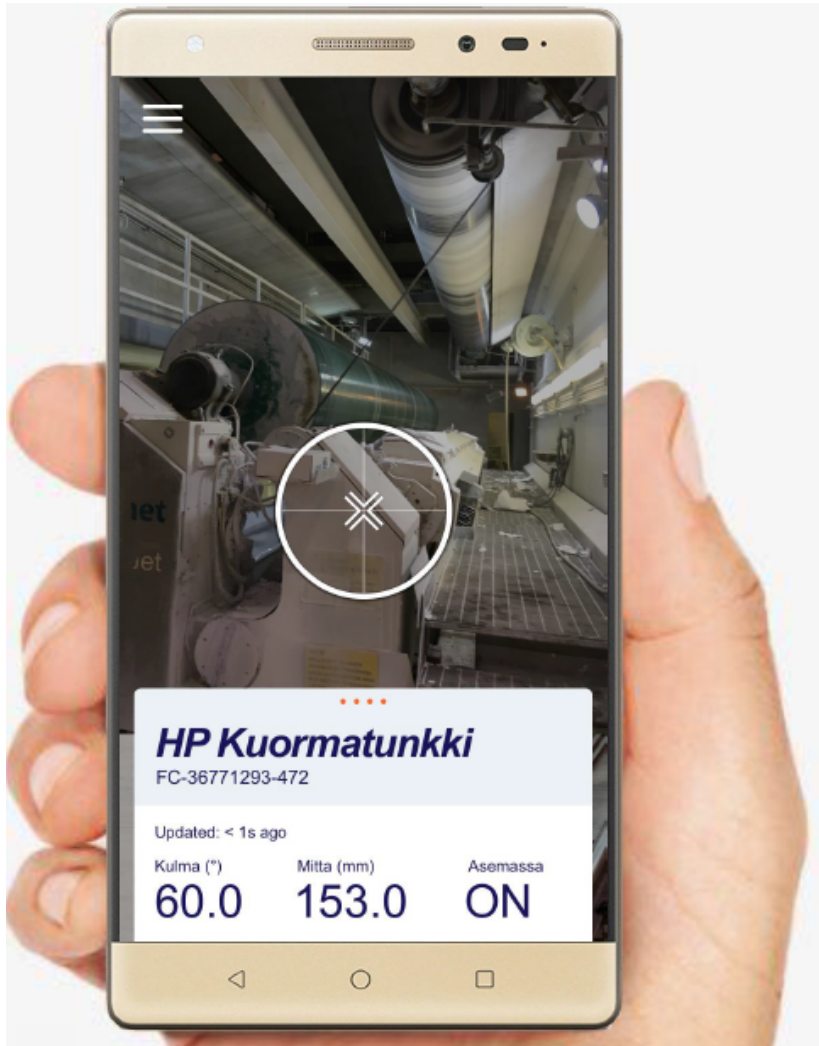
# Our path to results – Future steps 2018-2020

Efora academy



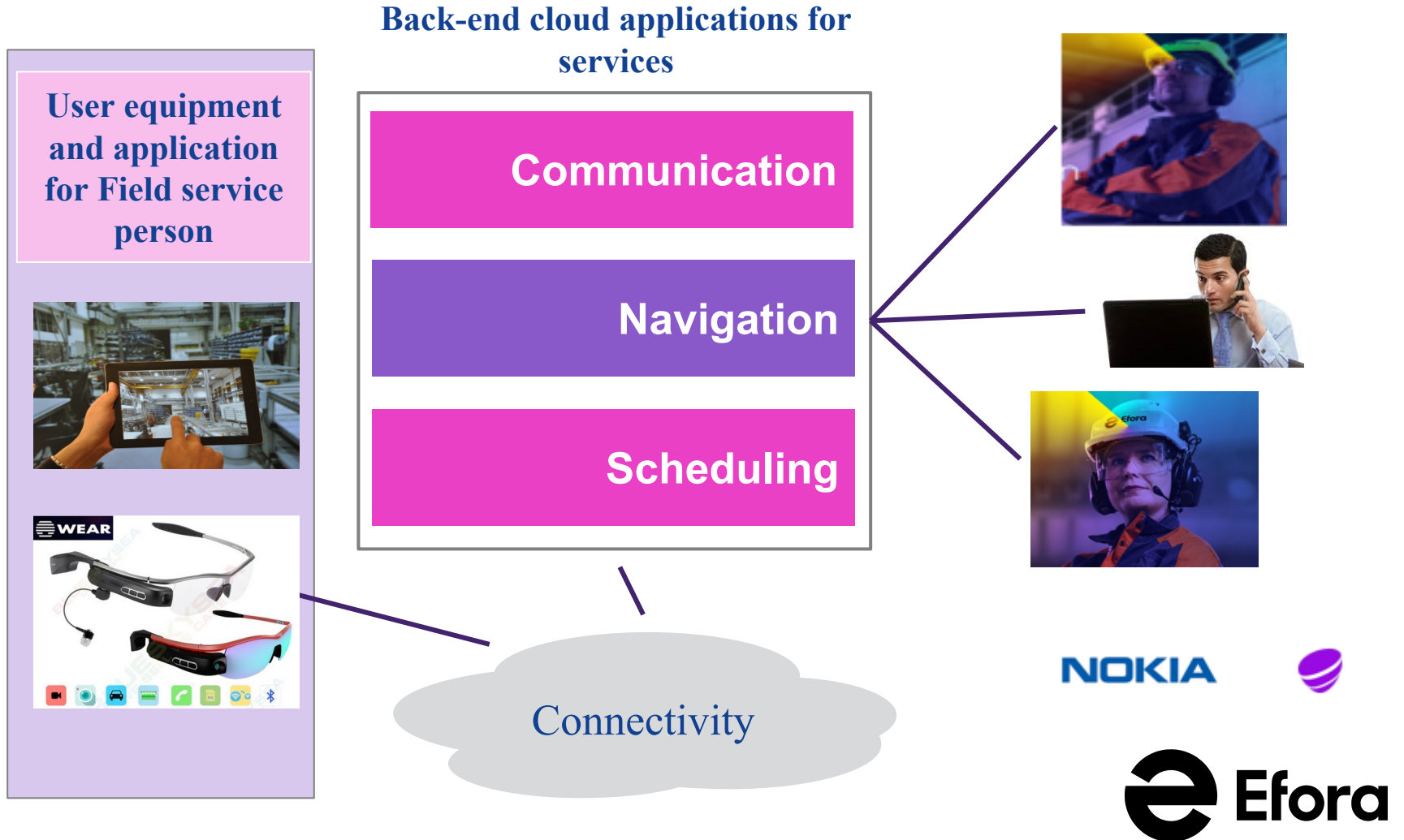
# Our path to results – Future steps 2018-2020

## Digitalized maintenance pilot – Information to the field



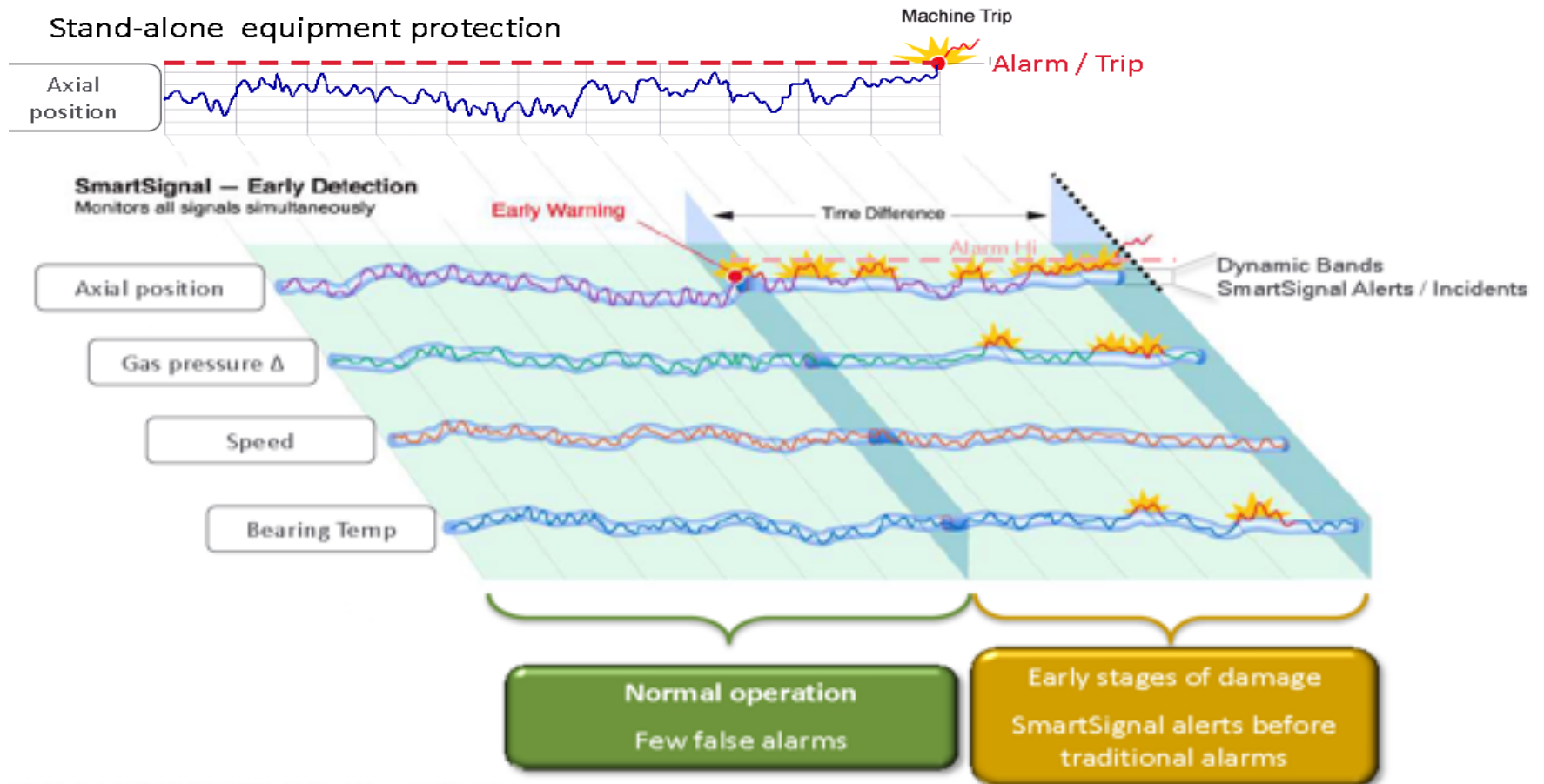
# Our path to results – Future steps 2018-2020

## Expert on site – Pilot project started



# Our path to results – Future steps 2018-2020

## Predictive analytics





Smarter maintenance