# LEVERAGING DATA FOR REAL TIME SUPPLY CHAIN INSIGHTS

**KAUSHIK YATHINDRA** 

**HEAD – ANALYTICS & DIGITAL SOLUTIONS** 



WHY WE NEED TO CHANGE?

**CHANGE MANAGEMENT SET-UP** 

**CASE STUDY** 







CIPS EU YOUNG SUPPLY CHAIN PROFESSIONAL OF THE YEAR 2018

DIGITAL ENTHUSIAST | KEYNOTE SPEAKER

BEROE, HSBC & NOW ECOLAB

#### We Are a Global Company with Global Reach

Founded in **1923** 

Headquartered in

St. Paul, MN

48,000+
global associates\*

250 company

119
manufacturing
facilities

1M+
customer locations

\$13B in 2016 sales

global technology centers

**8,100** patents

Serving customers in 170+ countries

\*25,500 sales-and-service people, 1,600 RD&E scientists, engineers and technical specialists

### Every year, Ecolab helps:

Conserve 188
BILLION
gallons of water

40 Clean
BILLION
hands

Generate 22% of the world's power

Save

19 TRILLION

BTUs of energy

1 MILLION



foodborne ilinesses



Avoid

2.4 BILLION pounds
of CO<sub>2</sub> emissions

Make 25% of the world's processed food

Clean 1 BILLION+

Produce
42%
of the global processed milk supply





WHY WE NEED TO CHANGE?

**CHANGE MANAGEMENT SET-UP** 

**CASE STUDY** 





### WHAT REPRESENTS FOR SUPPLY CHAIN...



40% BUSINESS CLOSED

€5bn REVENUE LOST

10% TARIFF PRICE WARS

50% TRUCK
TRAFFIC
DOWN

### **Changing Customer Expectations**







Deeper partnerships and expertise







WHY WE NEED TO CHANGE?

**CHANGE MANAGEMENT SET-UP** 

**CASE STUDY** 





### Core capabilities that drive the best results/lowest total costs for customers.



## Positioned to Capture Value from Digital Technology

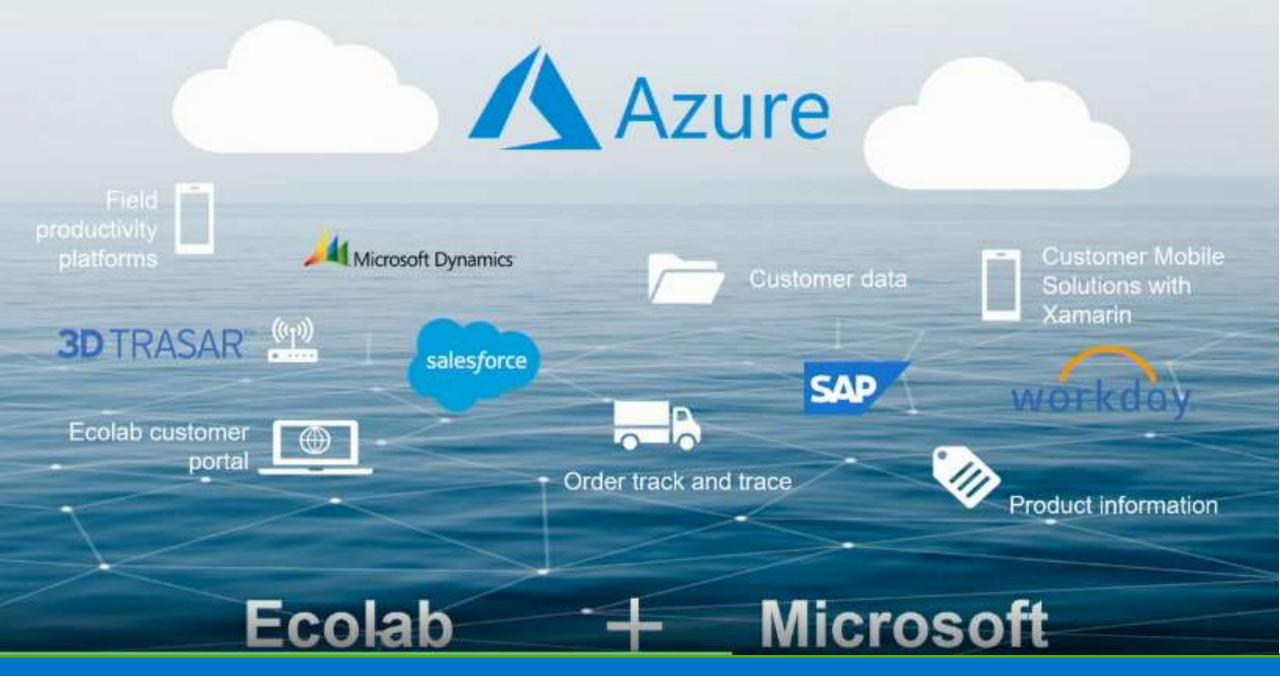
2,800,000 Wired Customer Sites

6B unique monthly measurements

1,800 Digital Tech Professionals

27,000 Field experts





WHY WE NEED TO CHANGE?

**CHANGE MANAGEMENT SET-UP** 

**CASE STUDY** 





### Water Safety Intelligence

### Problem:

4x

Growth in reported cases over the past 18 years \$2.6M

Average cost per outbreak \$8M

Estimated impact on brand and operations per case

\$715M

Annual spend in hospitality and healthcare testing for and remediating legionella1



# Water Safety Intelligence: Mitigating Legionella Risk

#### DATA COLLECTION

Water quality, legionella growth data and analytical results collected from multiple sources



### ALERT AND ACTION NOTIFICATIONS



Site level alerts and action plans generated to reduce legionella growth risk

#### Resulting in...



44% reduction in Legionella test positives

### CUSTOMER

Rolls up data at an enterprise level and calculates a risk index for each location



Monitors compliance to SOPs and measures program performance



10% decrease in program costs



50% reduction in incident response time







### ECOLAB PLANT ORDER MANAGEMENT DE-RISKING DASHBOARD

CLICK ON PLANT REPORT SUMMARY TO SEE HOW ARE OUR PLANTS PERFORMING ACROSS EACH OF THE HIGHLIGHTED METRICS! OK PO CREATION (ON TIME / LATE) OK **URGENT PO'S** NOTOK NOTOK PO CONFIRMATION (YES / NO) PO RELEASED 1. CHASE MISSING SUPPLIER **OTIF** CHECK CONFIRMATIONS YES NOTOK (ON TIME / 2. AMEND PO'S ACCORDING LATE) CHECK CONFIRMATION CONTENT TO ORDER CONFIRMATION CHECK MASTER DATA & AMEND / ESCALATE OK - END excellenc



WHY WE NEED TO CHANGE?

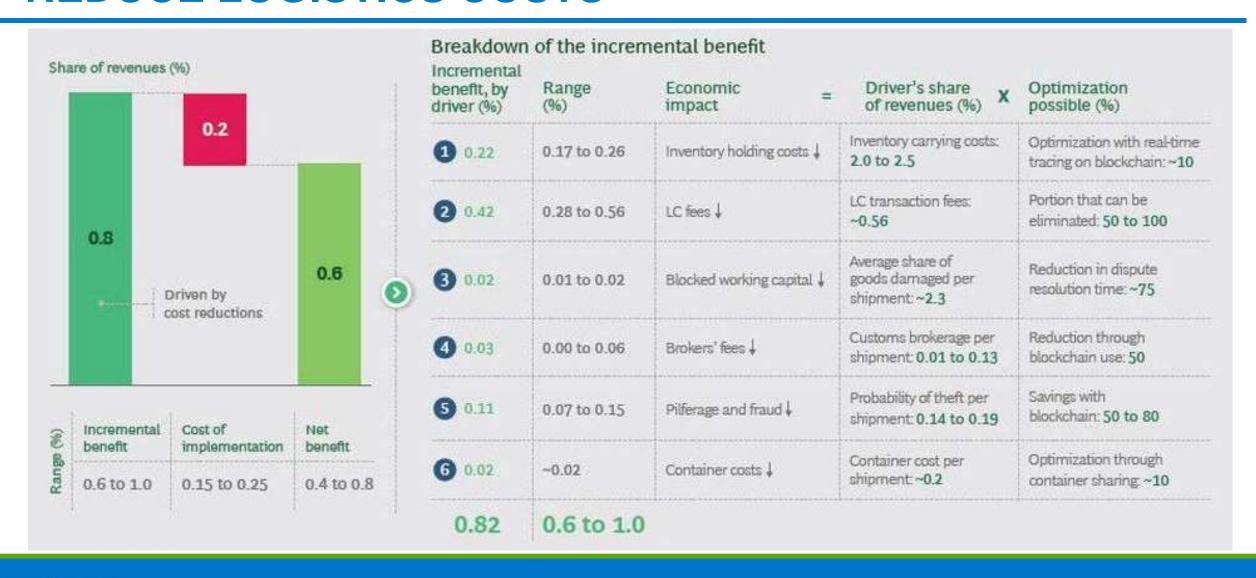
**CHANGE MANAGEMENT SET-UP** 

**CASE STUDY** 



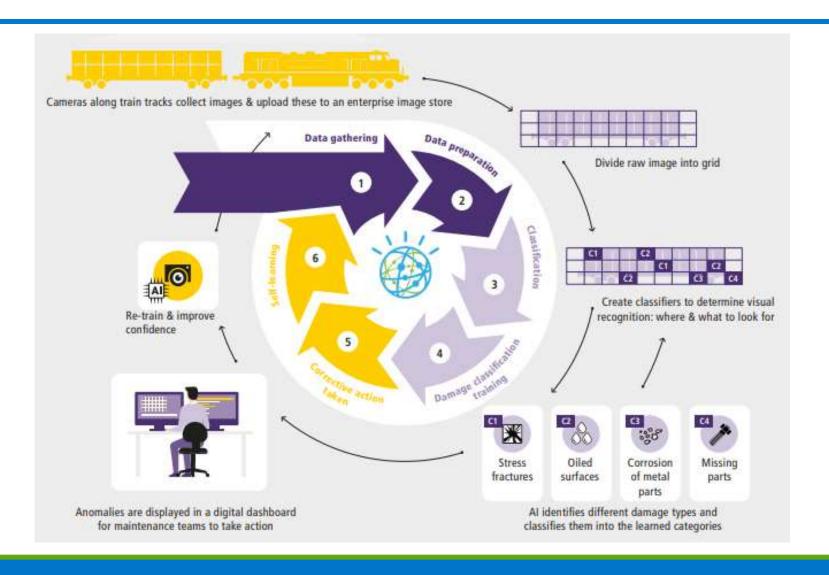


### MACHINE LEARNING SHOWS THE POTENTIAL TO REDUCE LOGISTICS COSTS

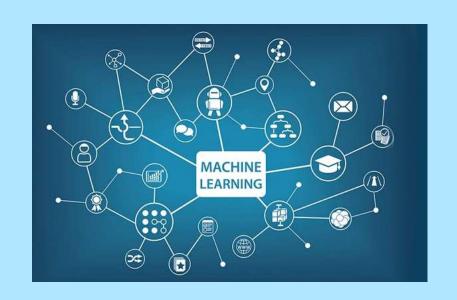


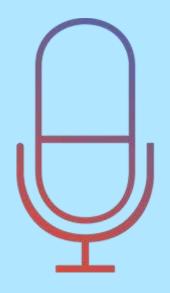


### IBM WATSON IMPACT ON LOGISTICS ASSETS











### THE FUTURE IS NOW!!



