



# **Technology and its impact on Fleet repairs**

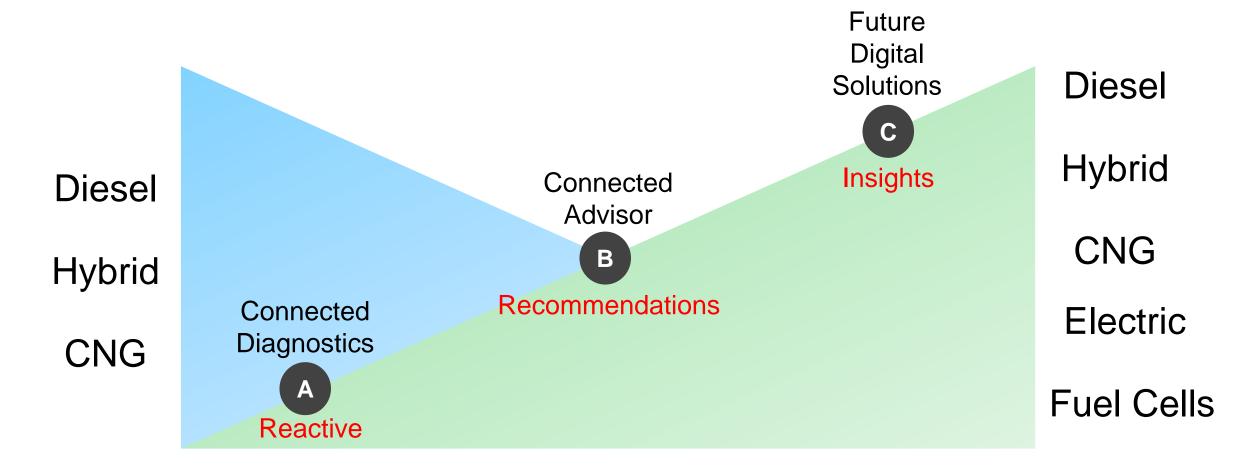
Vikrant Aggarwal Executive Director - Digital Accelerator Cummins Inc.

October 25<sup>th</sup>, 2018

## Mission



## **Repair practices and Technology Past, Present and Future**

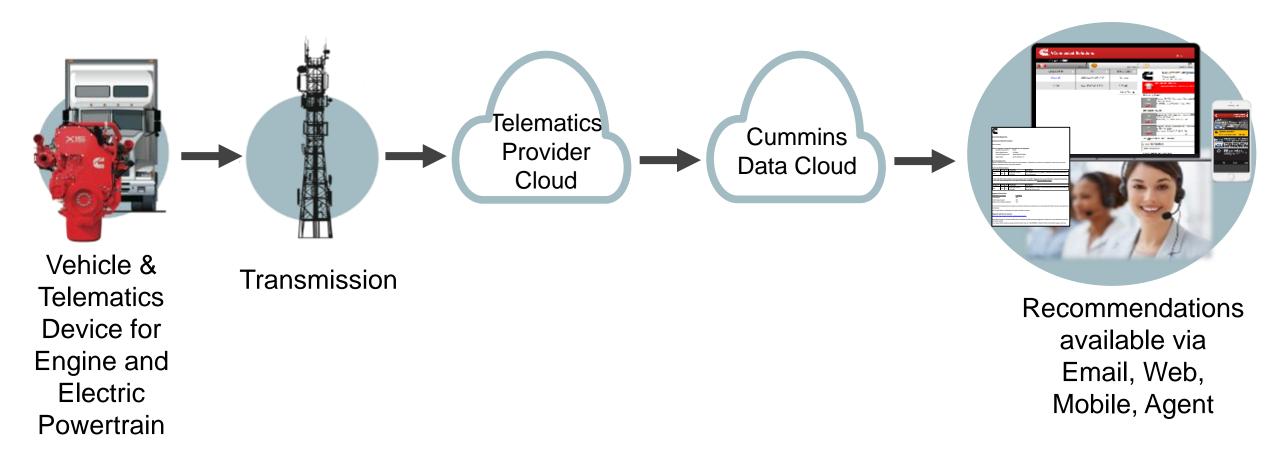


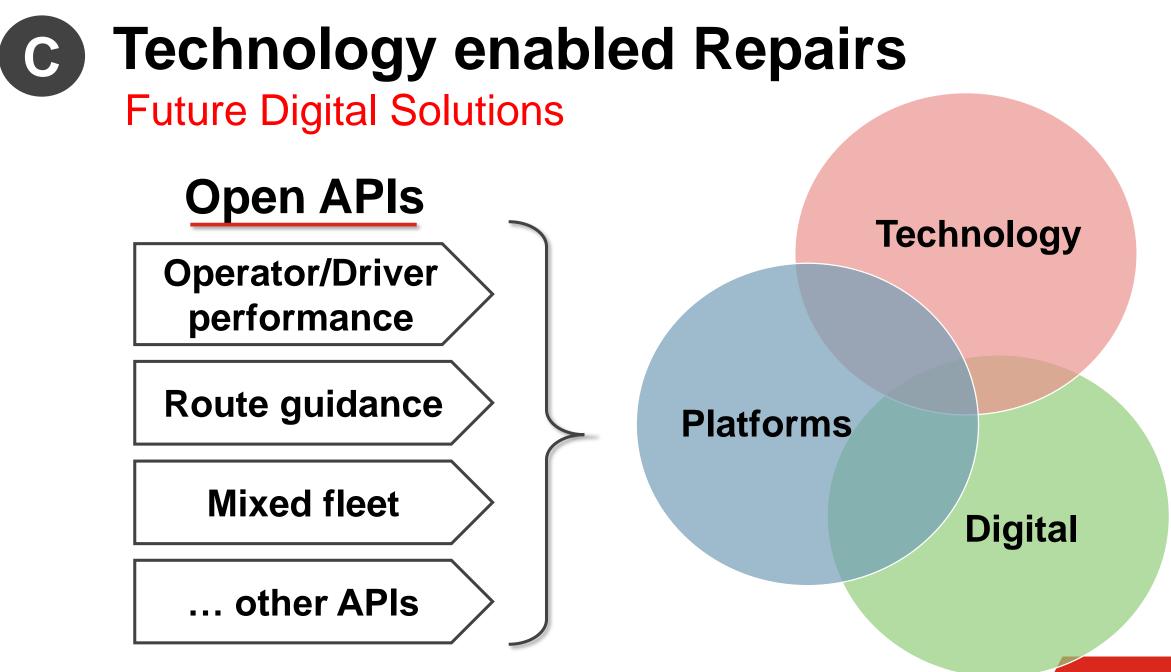
# A Connected Diagnostics (CD) – Portal & App

**Fleet Equipment Status Engine Diagnostics Diagnostics Summary** 2 Connected Connected Connected Diagnostics Diagnostics Diagnostics Component Details **Fault Details** Equipment Diagnostics 362 Registered ISX15 CM2350 X101 **Derate Notice** 79722833 25% Torque Derate in 1 Operating Hour after 1 <u>1</u> 19 **1**3 initial fault occurrence OK (?) PRIMARY FAULT Newest status first 庄 Derate Notice Aftertreatment 1 Diesel Exhaust 2 1669 671  $(\checkmark)$ Fluid Tank Level Sensor Circuit 25% Torque Derate in 1 Operating Hour after 1XPBD49XXH... 0 m ago initial fault occurrence Count: 1 Voltage Above Normal or Shorted to High Source Aftertreatment 1 Diesel Exhaust Fluid Ta See diagnostic analysis > 1669 SPN 1761 FMI 3 584 2  $\bigcirc$ May 18, 2018 at 10:10:53 AM EDT Fuel Level (Main Tank) Sensor Circuit - See diagnostic analysis > 1XPBD49X0H... **0** m ago 2222 SUGGESTED ROOT CAUSES Aftertreatment Diesel Exhaust Accelerator Pedal or Lever Position Sen  $\bigcirc$ 659 1241 Acceleration Feddrer 5 25 39% probability Fluid Tank Level Sensor 1XPBD49X3H... 0 m ago **OEM** Component 30% probability 650  $\bigcirc$ Component Voltage Malfunction 13% probability 1XKAD49X3EJ... 2 m ago DEVICE INFORMATION 697  $\bigcirc$ Engine Model: 1XPBD49X7H... 2 m ago ISX15 CM2350 X101 Share  $\rightarrow$ 

3







## Mission



