



EQUIPMENT & LOGISTICS READINESS PANEL

Moderator: Mr. Mark Colley

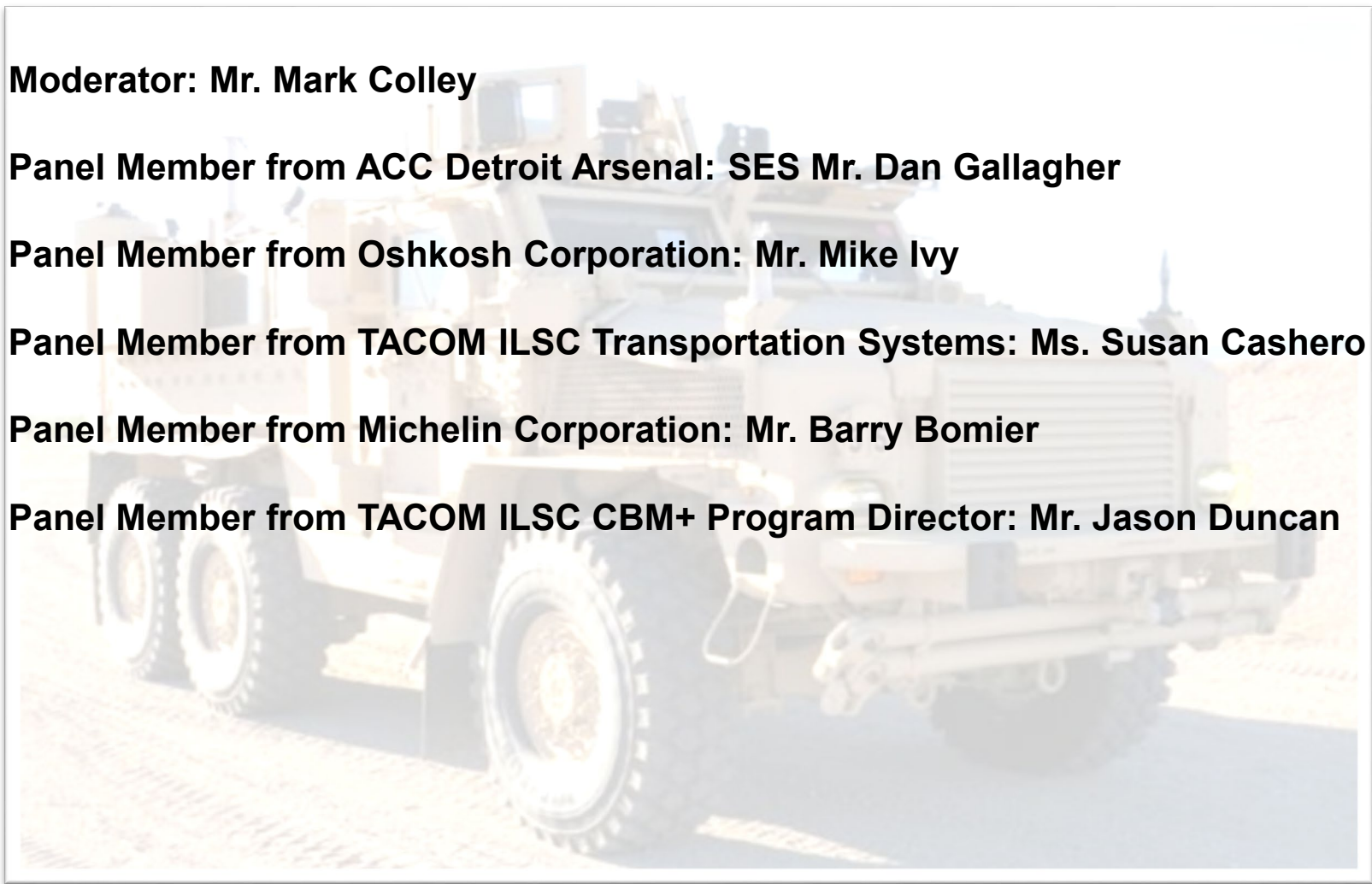
Panel Member from ACC Detroit Arsenal: SES Mr. Dan Gallagher

Panel Member from Oshkosh Corporation: Mr. Mike Ivy

Panel Member from TACOM ILSC Transportation Systems: Ms. Susan Cashero

Panel Member from Michelin Corporation: Mr. Barry Bomier

Panel Member from TACOM ILSC CBM+ Program Director: Mr. Jason Duncan



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TWV Readiness & Sustainment

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TWV STATS: FEB 2020 Data

Major Item Overview:

- Over 594 LINs Managed – 1,141 Individual NSNs
- 37ea Organic Industrial Base (OIB) Programs

Secondary Item Overview:

- 2,352 Items Managed
- 1,147 Active / 1,288 Repairable
- **Supply Availability (Overall: 1st – 2nd pass) / (NMCS: 1st – 2nd pass):**
 - TWV Rollup – **95.4% - 96.4%** / **96.5% - 97.7%**
 - HTV – **85.7% - 87.6%** / **84.1% - 88.9%**
 - MTV – **100% - 100%** / **100% - 100%**
 - LTV – **95.7% - 96.9%** / **99.8% - 100%**
 - MRAP – **94% - 95.6%** / **95.8% - 95.8%**
 - Wheel Assemblies - **96.7% - 97.5%** / **96.9% - 98.2%**
- **Repair:**
 - 101 National Maintenance Programs
 - 101 Depot Programs
- **Obligations: \$265.73M YTD**
 - FY19 Total: **\$478.72M**
- **Demands: \$120.77M YTD**
 - FY19 Total: **\$623.8M**
- **Sales: \$184.47M YTD**
 - FY19 Total: **\$662.4M**



- Transition To Sustainment
 - Obsolescence (Tech)
 - DMSMS (Procurement)
- Reduce ALT/PLT
- Field Level Maintenance Optimization





EQUIPMENT & LOGISTICS READINESS PANEL

Daniel J. Gallagher
Executive Director
Army Contracting Command - Detroit Arsenal (ACC-DTA)

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NDIA Tactical Wheeled Vehicles Conference



Mike Ivy
Sr. Vice President
International Programs & Global Product Support

March 3, 2020



DEFENSE
YOUR MISSION. OUR HONOR.

Oshkosh Corporation & Oshkosh Defense



Access



Commercial



Defense



Fire & Emergency



Heavy



Medium
& MRAP



Light
& ARFF



Performance Based Readiness Support

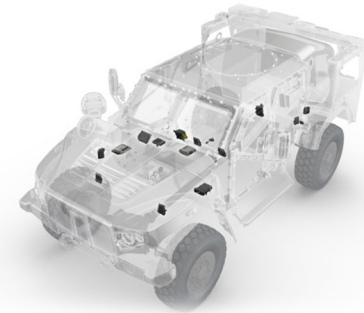
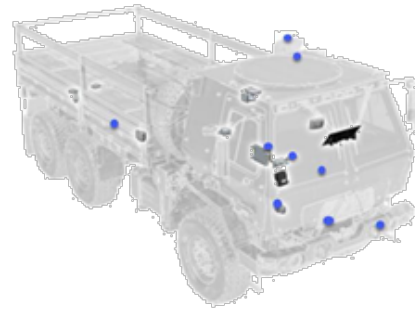
- Time definite delivery
 - Mission critical spares
 - Guaranteed global availability of readiness-drivers for new and legacy systems
 - Obsolescence management
- Requires a collaborative environment
 - Readiness issues
 - Maintenance and parts consumption data
 - Sharing of all collected usage information
- Impact on readiness
 - Improved readiness rates
 - Fleet maintenance opportunities



Condition Based Maintenance (CBM) +

Government and industry collaborate to improve readiness and lower life cycle cost

- Maintenance as required vs. maintenance by interval
- Enables readiness at both truck & fleet levels
- Directed troubleshooting with Augmented Reality (AR)
- Failure intelligence



Data
Collection



Data
Analytics



Reports &
Implementation





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Equipment and Logistics Readiness

3 Mar 2020

Briefer: Susan Cashero



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Overview

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- Director, Transportation Systems Product Support Integrated Directorate, TACOM-ILSC
310 personnel located in Warren, Virginia, Kuwait, Japan, and Hawaii
- Fleets Managed:
 - Heavy Expanded Mobility Tactical Truck (HEMTT) – multiple variants
 - Palletized Load System (PLS)
 - Heavy Equipment Transport System (HET)
 - 915 Tractor Line Haul
 - Dump Truck
 - Medium Tactical Vehicles
 - Mine Resistant Ambush Protection Vehicles (MRAP)
 - Route Clearance Vehicles
 - Trailers (Flatbed, Lowbed, Flatrack)
 - Army Watercraft Systems

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Challenges

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- Obsolescence
 - Axles
 - Mitigate through development of organic capabilities through creative means
- Extended Contract Award Lead Times
- Extended Contract Delivery Lead Times
- Low monthly Contract Delivery Quantities
- Repair Delays
 - Low unserviceable asset returns to feed organic repair lines
 - High washout
- Funding

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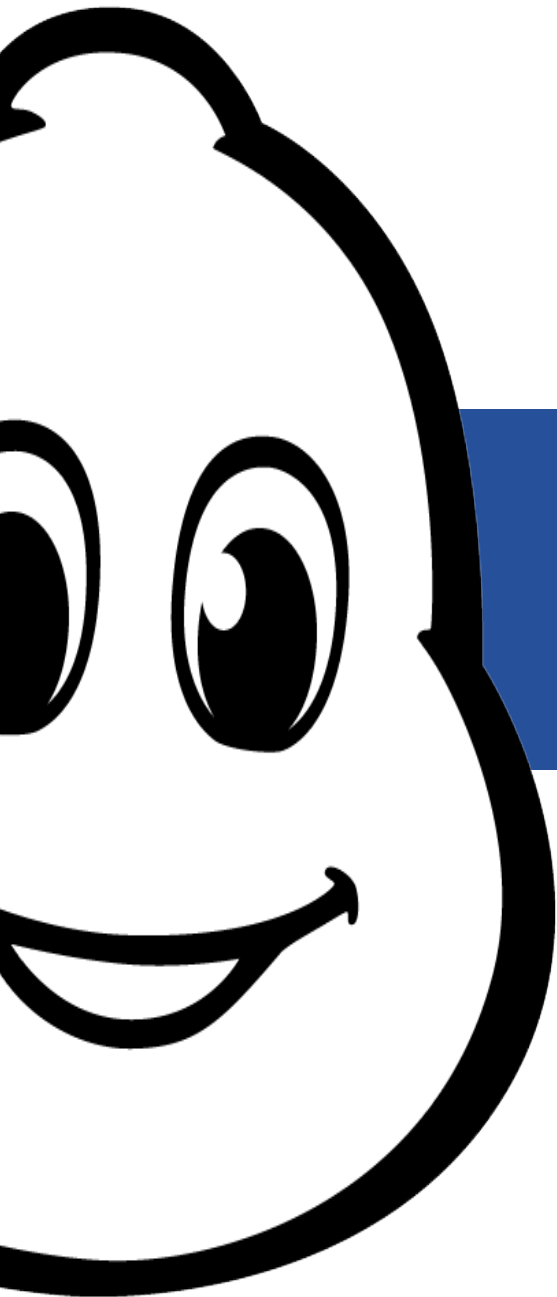
Initiatives

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- Transparent Armor Re-lamination Effort
 - Leverage capability being developed by the USMC for use on Army systems
 - Possibility to develop and facilitate organic capability and/or commercial partnerships
 - Initial testing looks promising
- Innovative Contracting Initiatives
 - Long term, multi-item, multi-system contracts with OEM

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Tactical Wheeled Vehicle Conference

Equipment & Logistics Readiness Panel

Equipment & Logistics Readiness Panel

- ⦿ ***Time to Change the DoD Tire Strategy***
 - ***Maximize use of Commercial Distribution***
 - ***Maximize use of Commercial Storage***
 - ***Minimize Logistical Vulnerabilities***
- ⦿ ***Forecast Indicators***
 - ***CL IX Funding***
 - ***NTC Rotations***
 - ***Fuel***
- ⦿ ***CBM → Fleet Maintenance***
- ⦿ ***Product Field Data → Access to the Fleets***
- ⦿ ***Mobility Solutions & the Introduction of New Technologies***
- ⦿ ***Readiness → Artic/Winter Mobility***





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TWV Conference Equipment & Logistics Readiness Panel - Jason Duncan TACOM



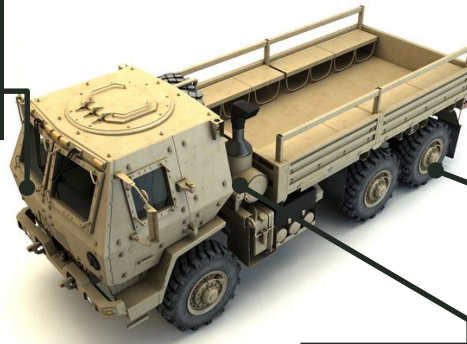
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TURNING DATA INTO ACTIONABLE INFORMATION

Engine Parameters
Accelerator Pedal Position
Barometric Pressure
Boost Pressure
Coolant Level
Engine Coolant Temperature
Engine Hours
Engine Load
Engine Oil Pressure
Engine Oil Temperature
Engine Percent Torque
Engine Speed
Fuel Rate
Fuel Temperature
Injection Control Pressure
Intake Manifold Temperature
Mileage
Vehicle Speed
Power Take Off (PTO) Mode



Electrical System Parameters
Alternator Potential (Voltage)
Alternator Speed
Battery Potential (Voltage)

Brakes Parameters
Front Axle Speed
Relative Speed, Front Axle, Left Wheel
Relative Speed, Front Axle, Right Wheel
Vehicle Speed
Brake Switch



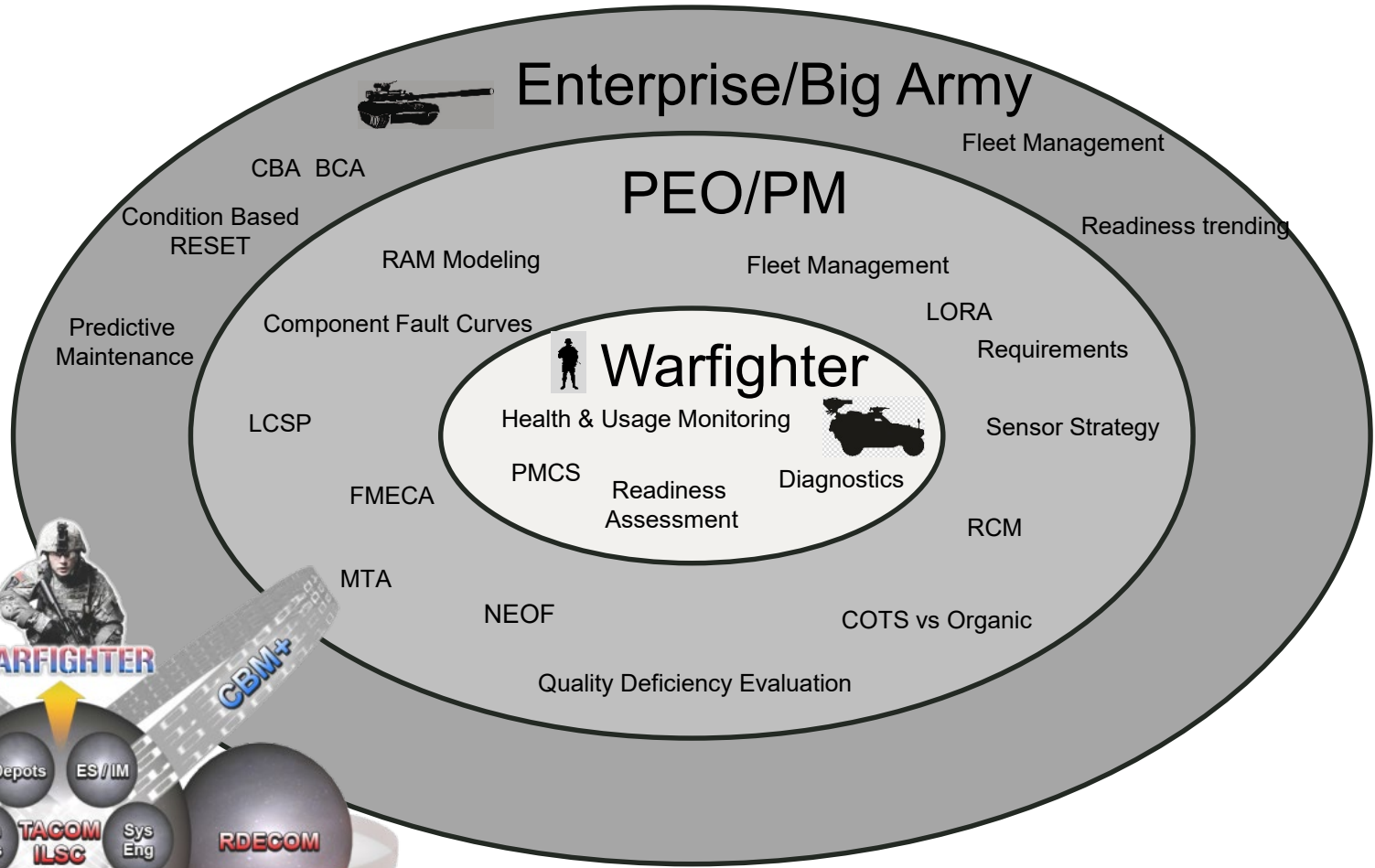
Transmission Parameters
Transmission Oil Temp
Transmission Range Attained
Transmission Range Selected
Transmission Output Shaft Speed
Input Shaft Speed
Transmission Actual Gear Ratio
Transmission Current Gear
Transmission Selected Gear
Torque Converter Lockup Engaged





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CBM+ USE CASES

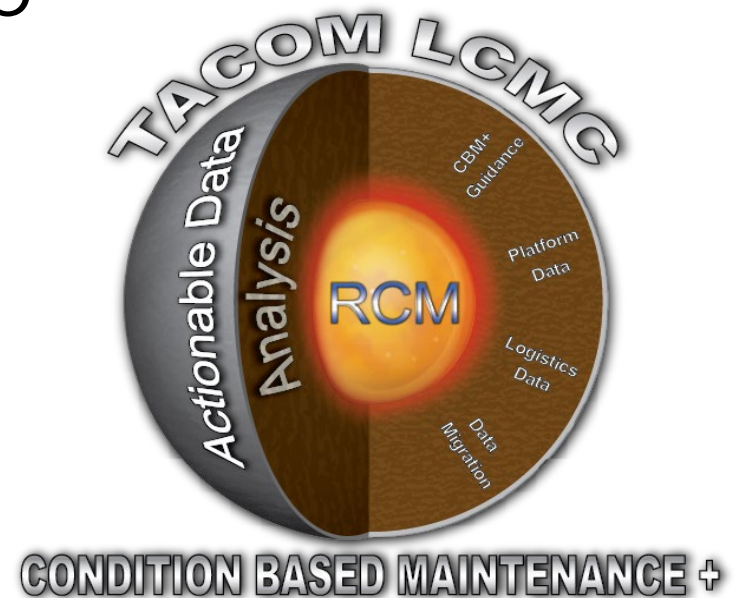




CBM+ ACCOMPLISHMENTS

Direct impact to readiness and ROI

- Accurate & Autonomous OPTEMPO
- Enhanced Diagnostics
- Optimized Scheduled Services
- Warranty Claims
- Accident Reconstruction
- Fleet Management
- Log Product Updates
- Policy and Execution Order





CBM+ IMPLEMENTATION FOCUS AREAS

Requirements Codification

Field the CBM+ capabilities to collect, transmit, store and analyze CBM+ at scale

Implement data-driven decision making and integrate within ERPs





Questions

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