

Wireless Enabled SHM-RFID-IoT Smart Fatigue Damage Sensor Network

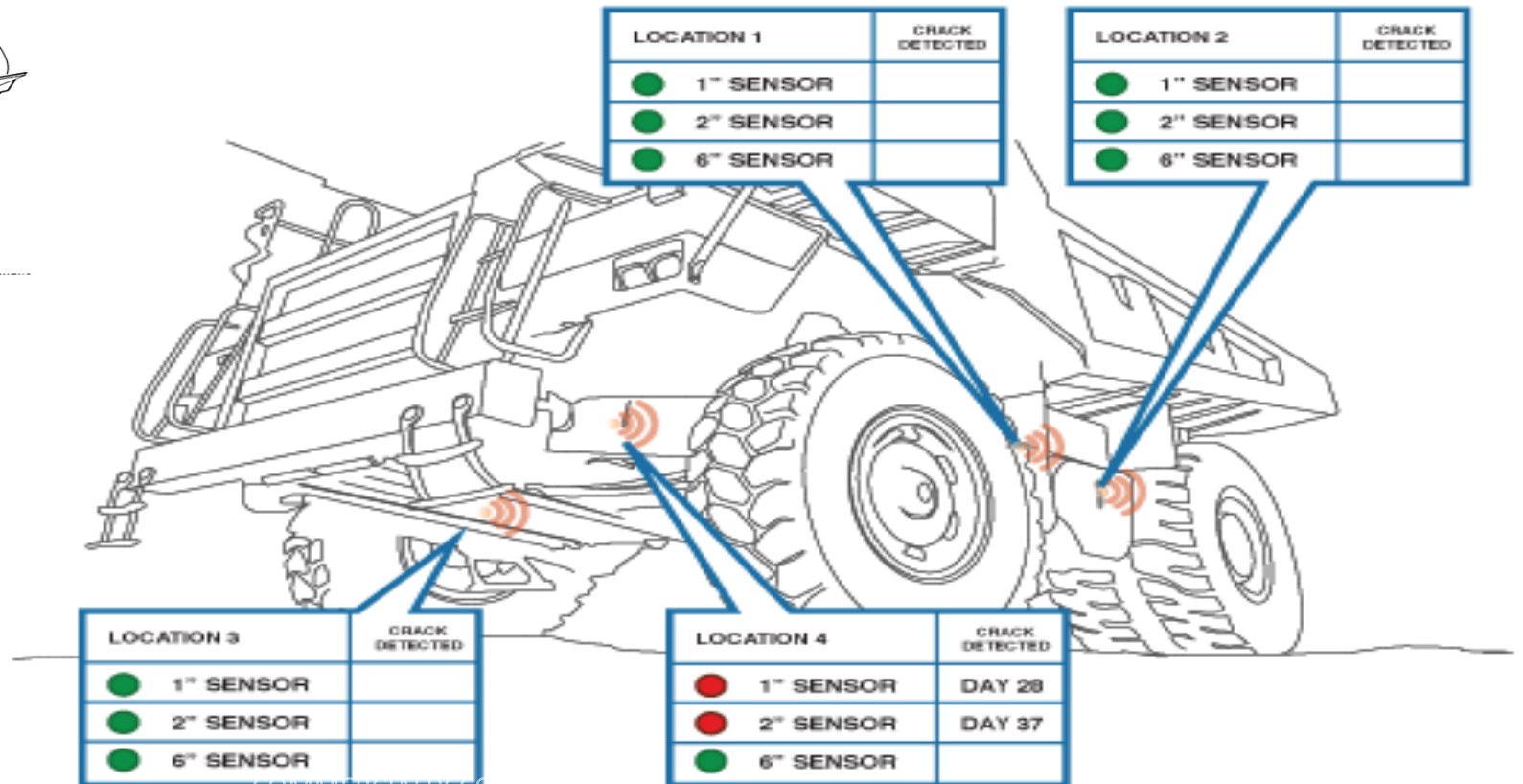
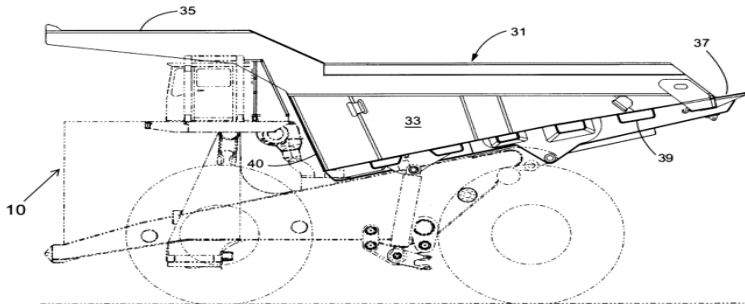
**(WIRELESS FATIGUE DAMAGE SENSOR NETWORK FOR INTELLIGENT
STRUCTURAL HEALTH MONITORING, MAINTENANCE AND DESIGN)**

HEAVY MACHINERIES

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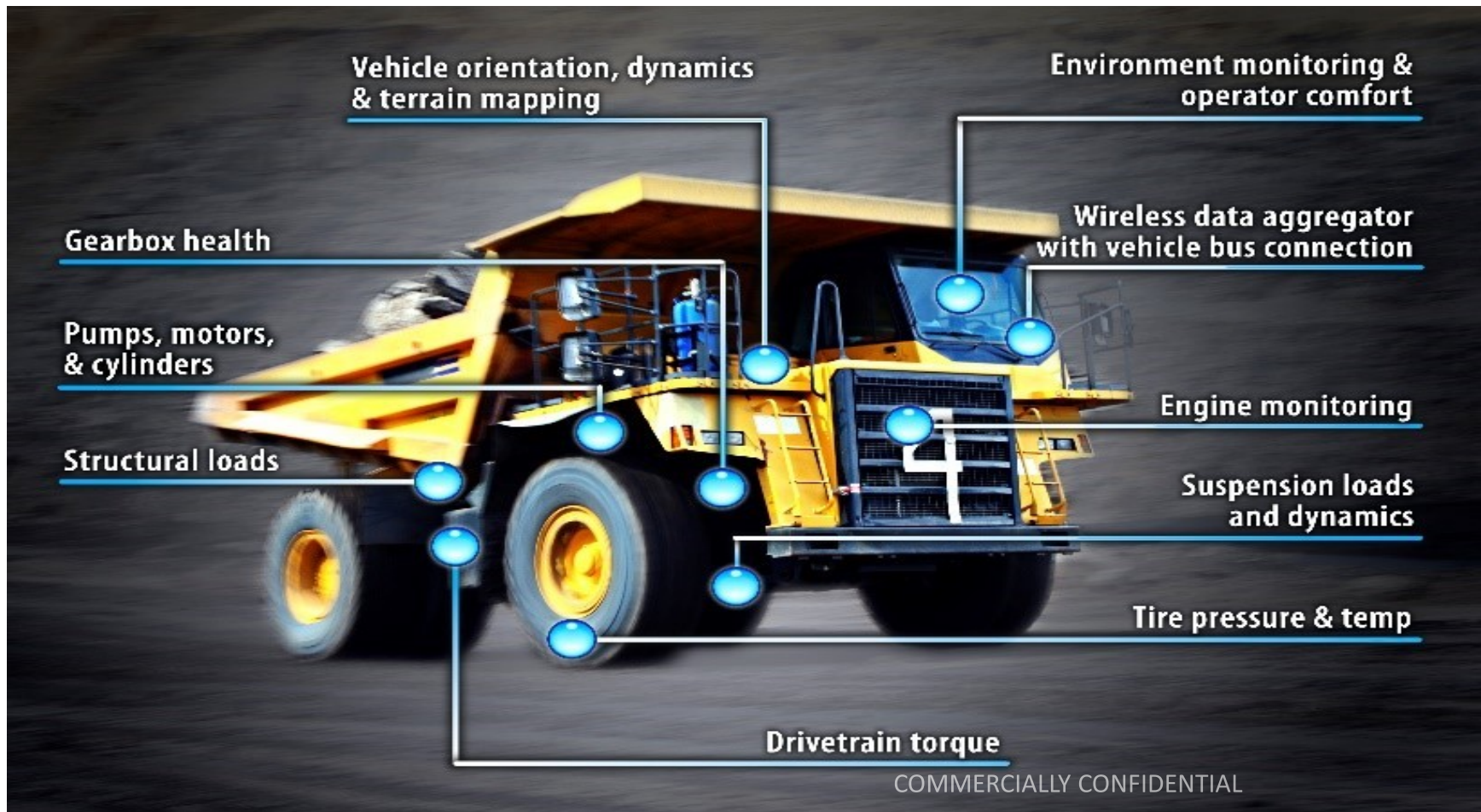
WIRELESS CRACK SENSOR REPORT OIL SANDS HAULER TRUCK
CRACK SENSOR DATA FOR 40 DAY PERIOD



Fatigue sensitive regions, locations under high loads, predetermined and formerly known-experienced spots on the structures and mechanical components

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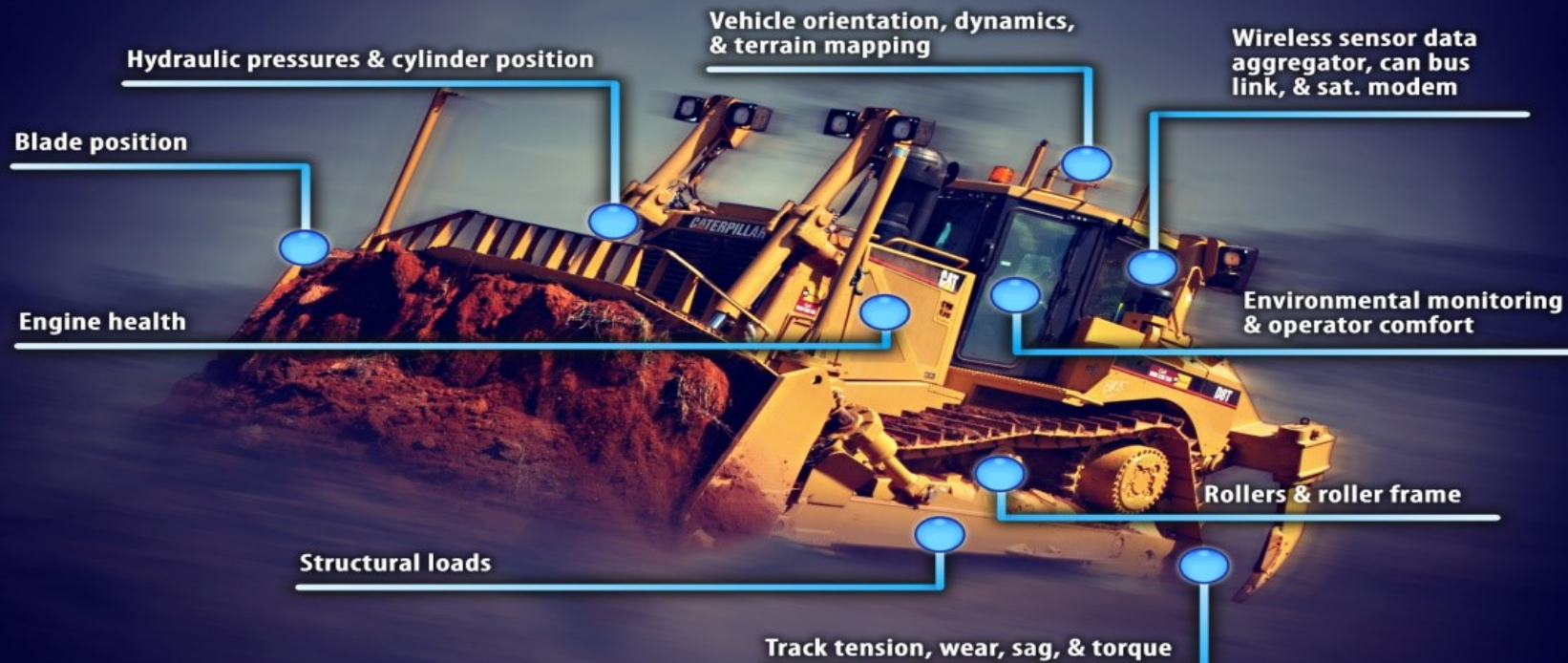
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COMMERCIALY CONFIDENTIAL

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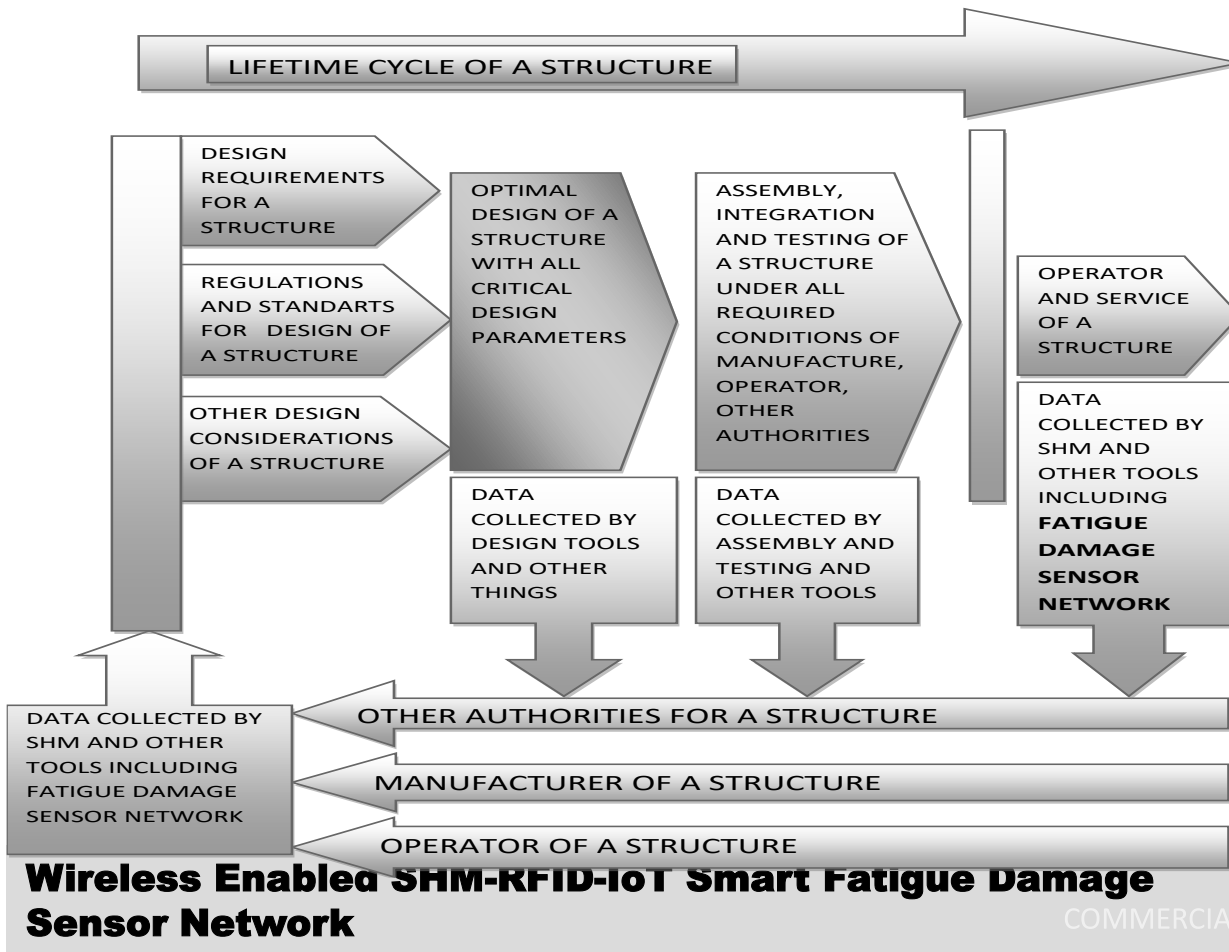
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INTELLIGENT DESIGN SOFTWARE BY USING THE RFID FATIGUE DAMAGE SENSOR DATA FOR FATIGUE STRUCTURAL HEALTH MONITORING

The structural fatigue health conditions of critical parts of structures are given according to the RFID Fatigue Sensor Network data. These data also provide a lot of information for new fatigue design improvements and also new design concepts. For this reason, the sensor data could affect the fatigue design regulations and methodologies since it is representing an extended periodic or real lifetime fatigue data for a unit and fleet of structures with SHM system.

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