

#### HUMS

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#### Agenda

- Who is Teradata?
  - Why can we talk about HUMS
- US Navy DECKPLATE Program
  - What
  - How
- USAF (more then Navy)
  - Air and
  - Ground
- Global Transport Command
- Australian Army
- Questions.



#### Who is Teradata

#### • Why can we talk about HUMS

Figure 1. Magic Quadrant for Data Warehouse and Data Management Solutions for Analytics



Source: Gartner (February 2015)



# *In-Service Data Program* Helps Boeing Design, Build, and Support Airplanes

By John Kneuer Team Leader, In-Service Data Program

The Boeing In-Service Data Program (ISDP) allows airlines and suppliers to securely share fleetwide reliability data with other ISDP members. The program allows Boeing to better support member airlines by using airline data to locate and resolve issues specific to each operator. Additionally, the ISDP enables Boeing to improve the entire fleet by closely analyzing issues such as early component removals.





- Official up-line repository for inventory, maintenance, flight, usage and readiness reporting data
- Fulfills United States Code Title 10 Section 117 requirements: Defense Readiness Reporting System which measures and reports on the readiness of military forces and the supporting infrastructure
- Fulfills the U.S. Naval Aviation policy requirement for an Aviation Data Warehouse (ADW)
- Provides a comprehensive view of aircraft, engines and aeronautical components across the Naval Aviation Enterprise (NAE)
- Enables decision makers with usable, actionable and reliable information



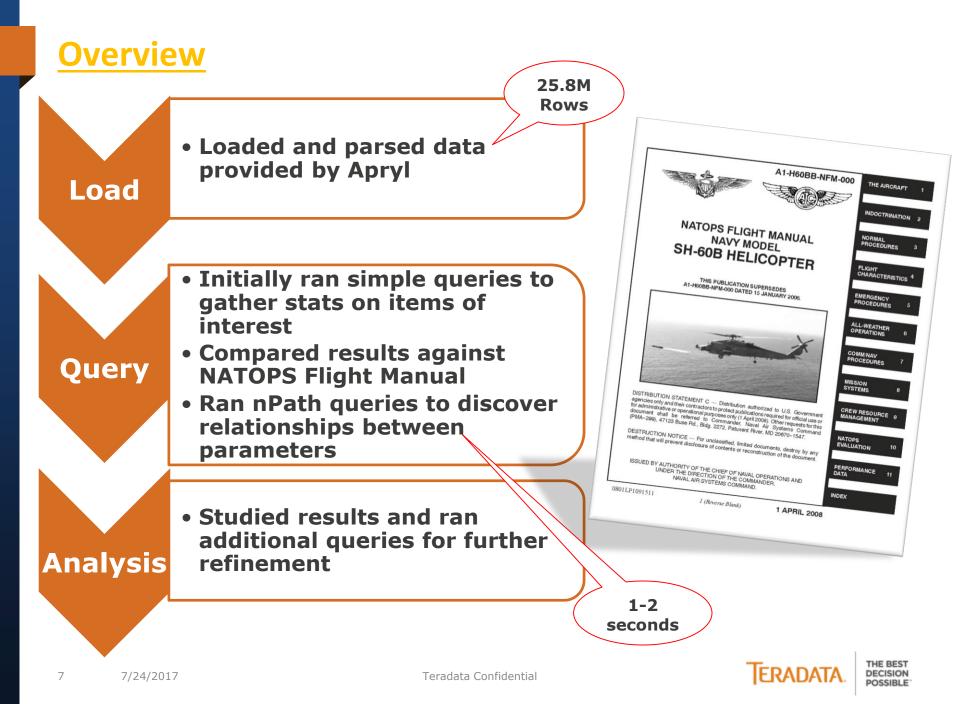


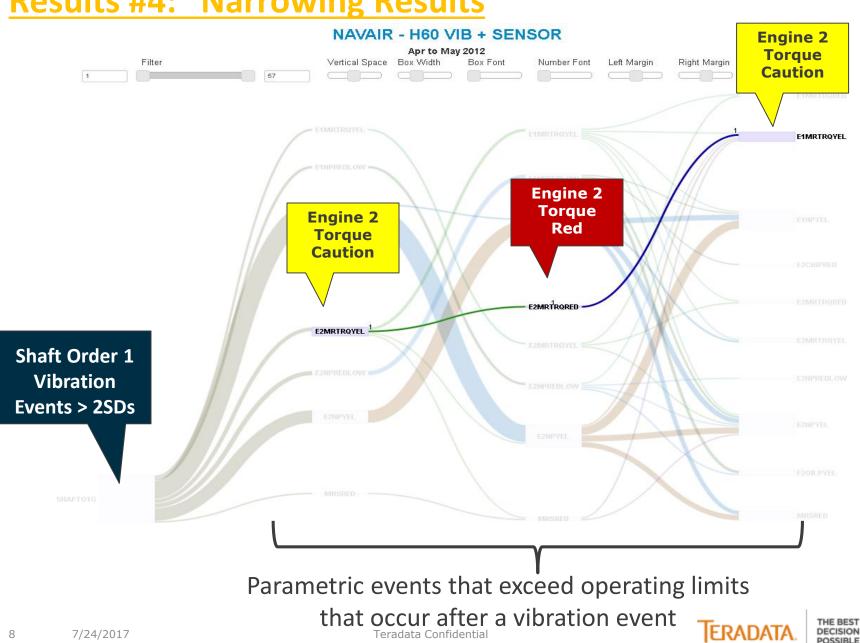
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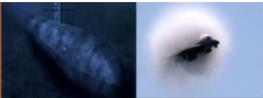
Teradata MH-60S Vibration Analysis







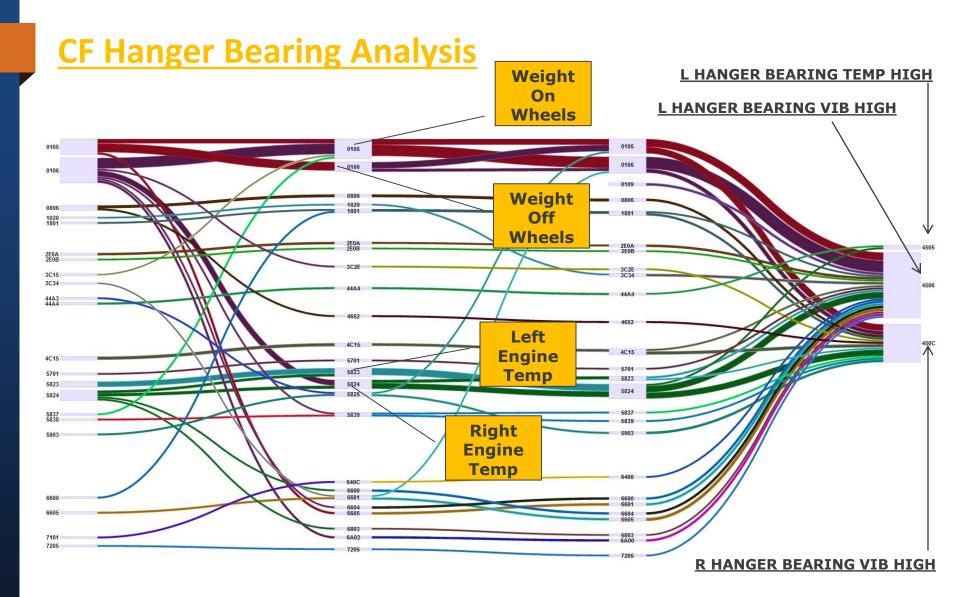
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# Teradata MV-22 Analysis











data-driven

A CONTRACT

cloud

# Data-Driven Vehicle Management at United States Air Force

Robert Uren Vehicle Fleet Manager/Analyst, USAF

Darrin Gaines Principal Consultant, Teradata

TERADATA



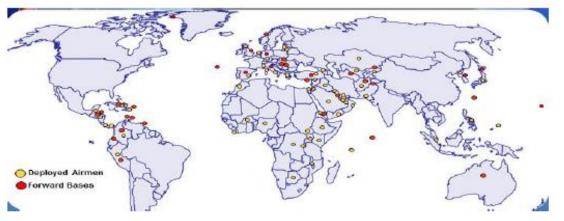
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### **USAF Vehicle Fleet**

Nation's 4th largest federal vehicle fleet

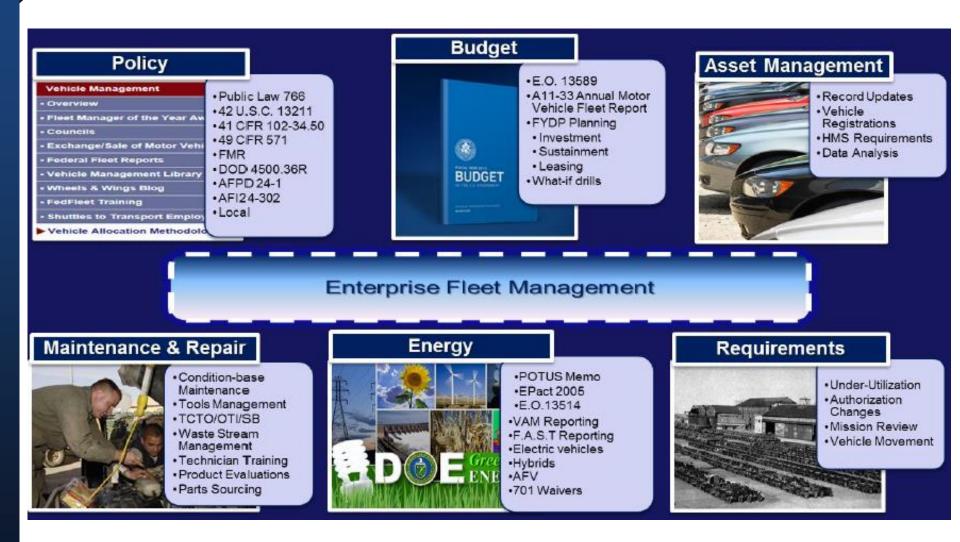
- ✓ Valued at more than \$7B
- ✓ Over 90K authorizations
- ✓ Over 78K assets

Installations in US and numerous countries across the globe





# **USAF Enterprise Fleet Management**





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DECISION

#### **LIMS-EV** Evolution



Scorecard Views Top-level summary dashboards for leadership

#### 2007



Additional Assets Expand solution to Vehicles, Equipment & Munnitions

Enterprise View – Enterprise Interoperability

2009

2011



Additional Processes Expand to Inventory Tracking, Supply, & Transportation

2013



Analyst View Initial Release focused on 1 asset (aircraft) & 1 process (maintanence)

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Detailed Views Drill-thru to underlying drivers behind metrics.



Utilities Online slidshow presentations with real-time data





#### Phase 1

#### **1 Asset (aircraft), 1 Process (maintenance)**





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# **Leadership – Fleet Score Card**

HOME	WEA	PONS SYSTEMS	VEHICLE FLEET	SUPPORT	EQUIPMENT	MUNITIONS
cal Year to Date > A	CC > All Bases/SRANs/Sys	tem Descriminators > All Org	IDs > All Org/Ship Codes			
DWKIII (UKS)	111 1 111/2	N 6 2276	FILTER T	2.6D		10000000
WHAT REACTING	11001420	THE AND THE	M MAR	M-Salas	<u> 24 2. (63)</u> -	<u> </u>
		192	-	h	T	
a da	1 A	K	1-	to a la	1×+ + ×	I.
Bomber	CSAR	Command & Control	Fighter / Attack	ISR	Info Ops	Special Air Mission
B-1	▲ HC-130	▼ E-3	▲ A-10	▼ MQ-1	▲ EC-130	▼ C-21
B-2 B-52		▲ E-4	<b>F</b> -15	▼ OC-135		▼ C-37
V B-52	AF AA Std: 73.5%	▼ E-8	▼ F-16	<b>V</b> RC-135		▼ C-38
AA Rate: 72%			▲ F-22	▲ RQ-4		▲ C-40
			▼ F-35	▼ U-2		▼ C-9
				▼ WC-130		▲ UH-1
×	*	-	XX	AR	8	
20	T	"X+[+X"	The			120
Special Ops	Strategic Airlift	Tactical Airlift	Tanker	Test	Trainer	
AC-130	▲ C-17	▲ C-130	▼ KC-10	<b>VC-130</b>	▼ AT-38	<b>T-135</b>
CV-22	▼ C-5	<b>V</b> LC-130	▲ KC-125		▼ T-1	<b>TE-8</b>
EC-130					▼ T-38	▼ TH-1
▼ MC-130				🔺 T-43	🔺 UH-1	
				▼ T-6		
				▲ TC-130		



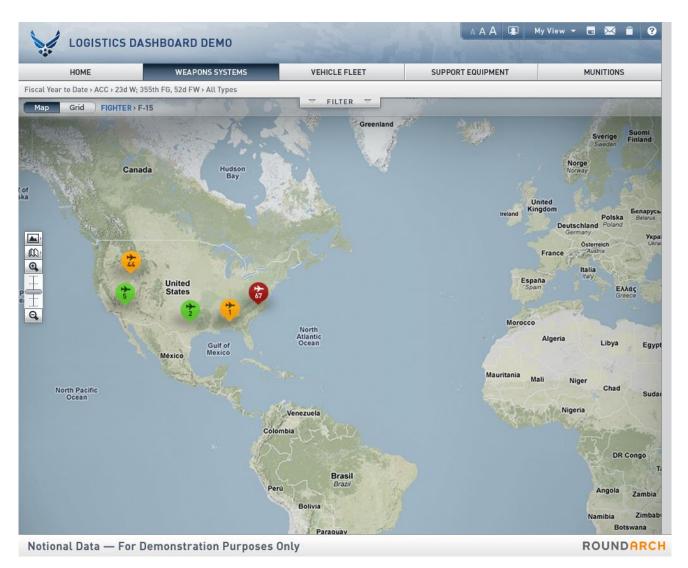
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# <u>Year to date – By Asset Type Summary</u>





## **Geo Located Unit Status View**





THE BEST DECISION POSSIBLE

# **LIMS-EV Vehicle View Application**



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**TERADATA** 



#### Integrated Data Environment & Global Transportation Network

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# **Global Transportation Network**

Vision: Provide common integrated data and application services enabling cohesive distribution solutions for the DoD

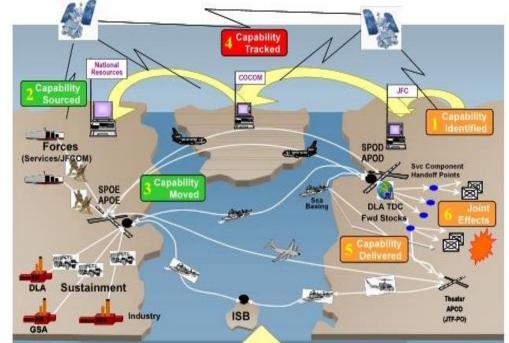
#### **Enables:**

- Common logistics picture
- Distribution visibility
- Material asset & in-transit visibility

#### **Benefits:**

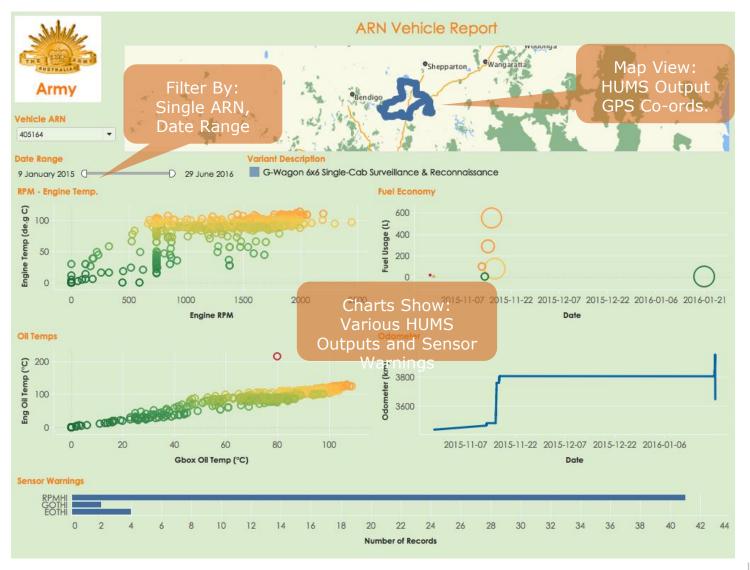
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- Enhanced delivery of forces & sustainment
- Improved situational understanding
- Near real-time Enterprise Access to logistics and transportation data
- Improved trust and confidence





### LDSE Dashboard – Use Case 1 ARN Vehicle Report





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#### Thank you

