

The Cognitive Era: Let's take a tour through IoT at an imaginary

company....

Greg Gorman

Director, Offering Management

Watson IoT Internet of Things





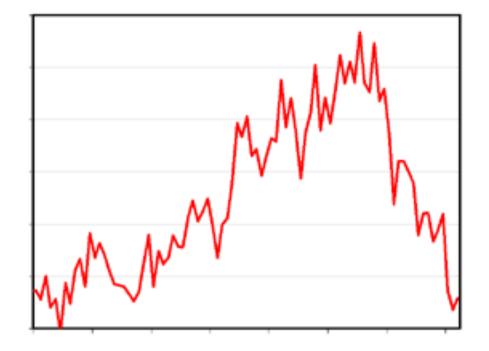


Meet Bob Owner of Bob's Elevators

IBM Internet of Things



Bob has a problem. Sales in Arizona are plummeting.

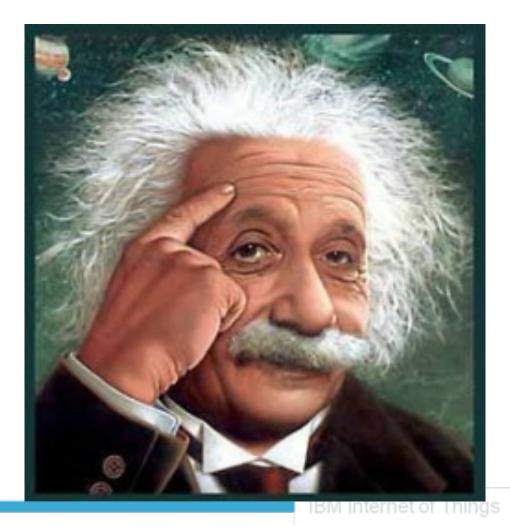


Old Way: Fire the VP of sales for Arizona.



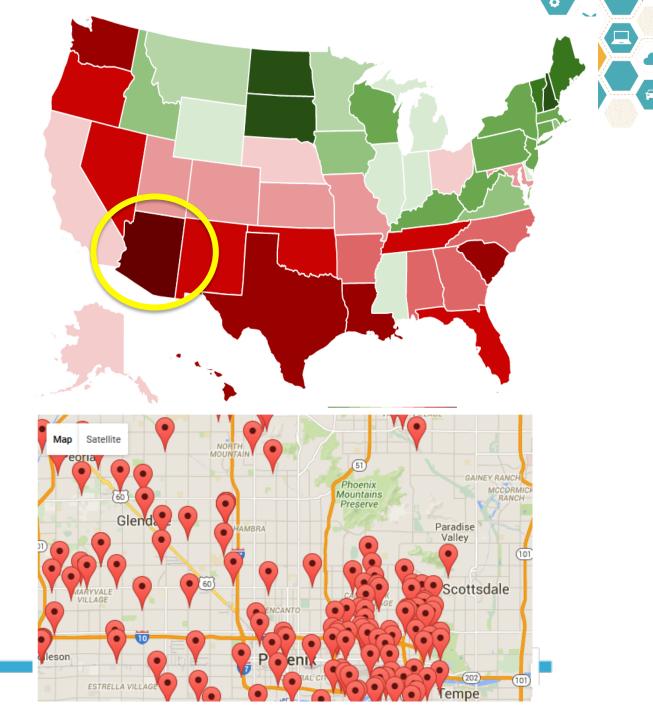


However, Bob is a smart business man.



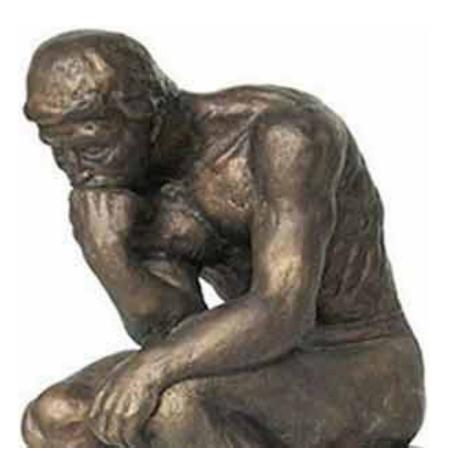
He correlates telemetry collected by IBM IoT Foundation from his equipment across the USA.

He sees that Arizona is abnormally high for equipment failures.





This gets Bob thinking.





He correlates that data with Twitter using IBM Bluemix services.

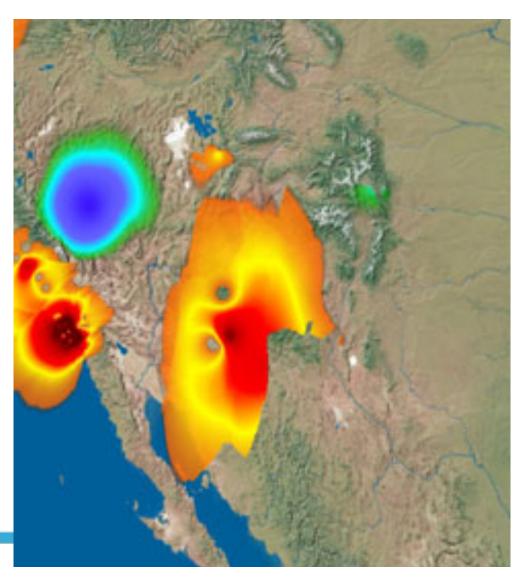
"Help I'm stuck on an elevator!"

"Elevators down AGAIN...climbing 8 to work"

"These things are TERRIBLE"

"Broken vator"

"I HATE climbing stairs in heels!"





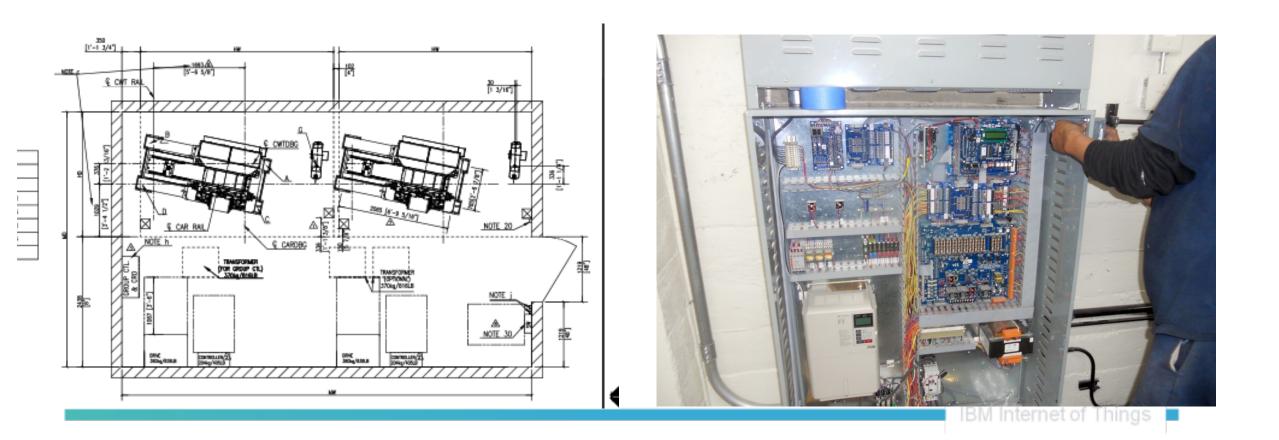
"Poor Reliability."





Is it installation?

Service?



Using IBM Asset Management, Bob asks: Who does install/ service? Is there a common thread?



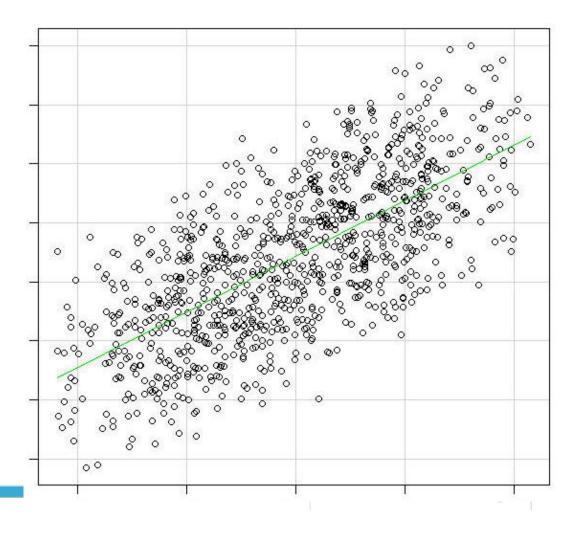
Nothing stands out...

- * Different companies
- * Different installers and maintainers

Is it the environment? Key factors:

-Hot

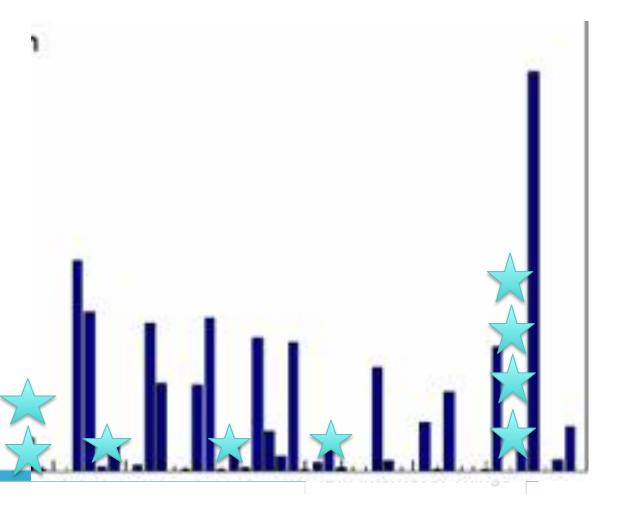
-Dusty





So, Bob correlates with The Weather Company data on IBM Bluemix

"Hi Watson, show me PHX Dust storms and 110+ degree days, by month, compared to failure occurrences and social on 'reliability'"



Dust storms, not heat.

Why are our systems failing shortly after a major dust storm?





Inspecting these locations showed excessively dirty equipment



Using IBM Engineering Analytics, Bob traces out his Design.

	Blohm + Voss strongly recommends to accomplish the Elevator commissioning with the Blohm + Voss Commissioning Service. Read manual before first use !				hm		
COMMISIONINGS	OK Check crew is aware of all danger regarding handling the B+V tool.			ger regarding handling the B+V tool.			
NINOIS	ОК		Go through manual with crew.		-		
8	Prior to use of the Blohm+Voss Elevator following checks must be carried out :						
	Scope o	f supp	ly	NOTE :			
	ОК	OK Cross check all delivered parts			NOTE J		
	Pneuma	ntic Ch	aracteristics				
	0K		Operating pressure	710 bar (100140 PS)	29		
	0K		Volumetric flow	6.8 Vmin (240 cfm)			
	ОК		Air filter and regulator	Lubricated and de-watered, air regulator and lubricator installed	- H		
	Check	and Lu	brication		I≥		
	0K		Check elevator is in closed position		ഷം		
	0K		Check Air Supply line is discor	medied			
	0K		Check for correct seating of Hi	inge Pin and latch pin	NOTE 30 / H		
	ОК		Apply grease to all greasing p bores	oints until grease is visibly coming out of th	NOIL JOY !		
	OK		Check if elevator is installed as	s outlined in manual			
	0K		OPTIONAL: Connect additiona	l feedback line			
	ОК		Connect the air supply line to	the elevator			



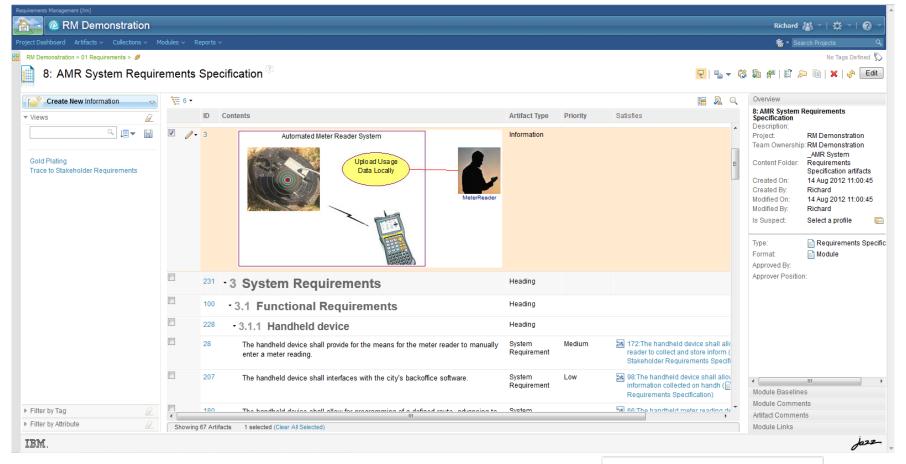


Procedures don't specify air filter orientation!

Air filter can accidentally be installed backwards!

His team uses IBM Continuous Engineering to Improve the next version of the elevator system





Bob's team sends an update bulletin to system operators using IBM Asset Management.

ALERT SERVICE BULLETIN

P&WC S.B. No. A60059

BULLETIN INDEX LOCATOR 73-10-01

TURBOFAN ENGINE FMU-TO-MANIFOLD SECONDARY FUEL TUBE - REPLACEMENT OF

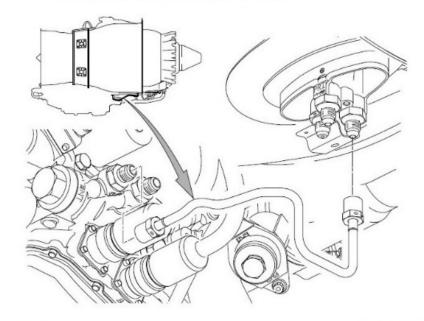
MODEL APPLICATION

PW610F-A

Commercial Support Program No: 1004410

Compliance: CATEGORY 3

Summary: The FMU-to-manifold secondary fuel tube may crack and leak. This service bulletin is introduced to replace the FMU-to-manifold secondary fuel tube on engines which have accumulated less than 200 hours on the tube.



Apr 03/2009		PW 600-72-A60059 Cover Sheet
24-Hour Global Service CFIRST CENTRE	USA & CANADA 1-800-268-8000 International	Cther
Toll free where available (SIL GEN-027)	* International Access Code	Web Site www.pwc.ca

Global Sales Improve! Bob is a hero!







Continuous Engineering

IoT Foundation

IBM Bluemix



And now, a real client who uses some of these tools: Blizzard Skis







Let me show you how to try it yourself

http://www.ibm.com/loT





Thank You!

