Cognitive Supply Chain Advisors

How AI enabled solutions help IBM's supply professionals do their best work ever

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IBM Supply Chain / April, 2018 / © 2018 IBM Corporation



Lift Station

Our Supply Chain

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Demand & Supply

Customer Demand Uncertainty SC Partner Capacities & Performance Disruptions / Unplanned Events Industry Constraints Product Transitions (Rate & Pace)

-> permanent trade-off decisions

Manufacturing / Engineering

Product/Solution Complexity Shorter Product Cycles Highest Quality Expectation Speed Assembly & Quality Control Missing Installation Data Unjustified Warranty Claims

-> continuously optimize

Trade & Logistics

Track & Trace Lost & Damage SC Partner Capacities & Performance Risk of Incompliance Complex Trade Partner Invoicing

-> hands off - eyes on

Cross Functional / General

Complex Collaboration Data Issues (distributed, inconsistent, overwhelming) Shrinking Workforce Loosing Experience

-> democratized knowledge & experience

Our Challenges



Globally Integrated Enterprise



- Streamlined Global processes
- Information sharing
- Harmonization

Transparent Supply Chain



- Supply Chain Transparancy
- Advanced Analytics
- Mobile Access

Smart Supply Chain



- Cognitive / Learning
- Trusted Transactions
- Data Driven /Digitally Executed

Our Transformation

1 Discover & Alert

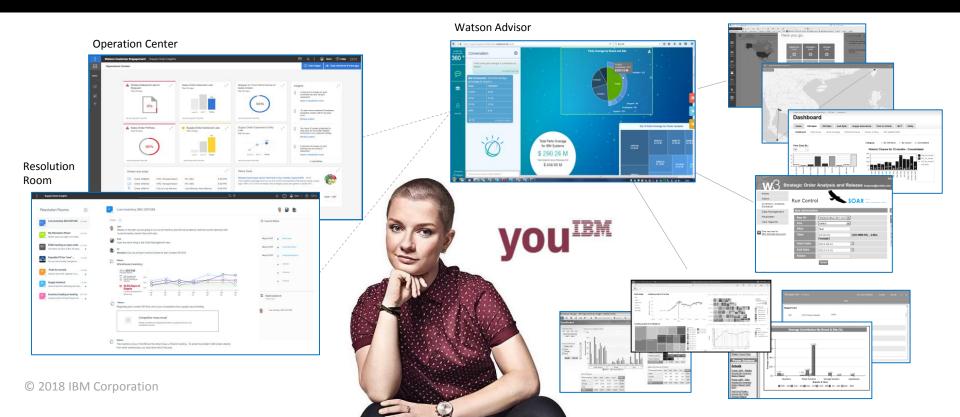
2 Analyze & Understand

4 Learn & Predict

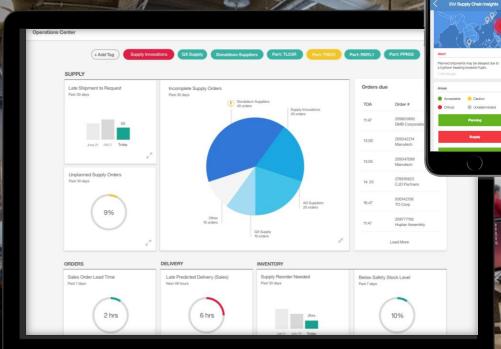
3 Interact & Resolve

877-HAFTING AVA

Assist & Augment Supply Chain Professionals

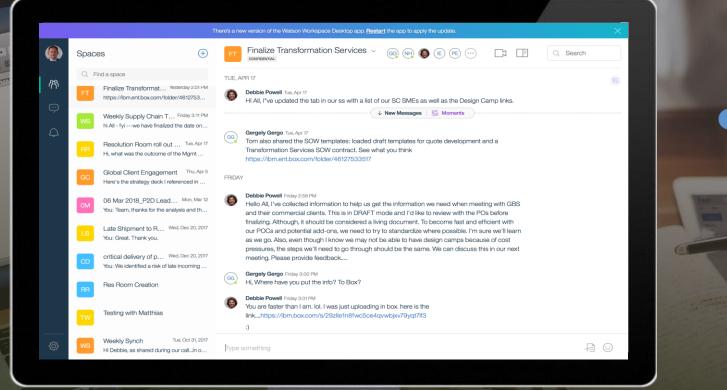


Predict, Discover



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Reason, Resolve & Learn



cognitive 360° sc advisor

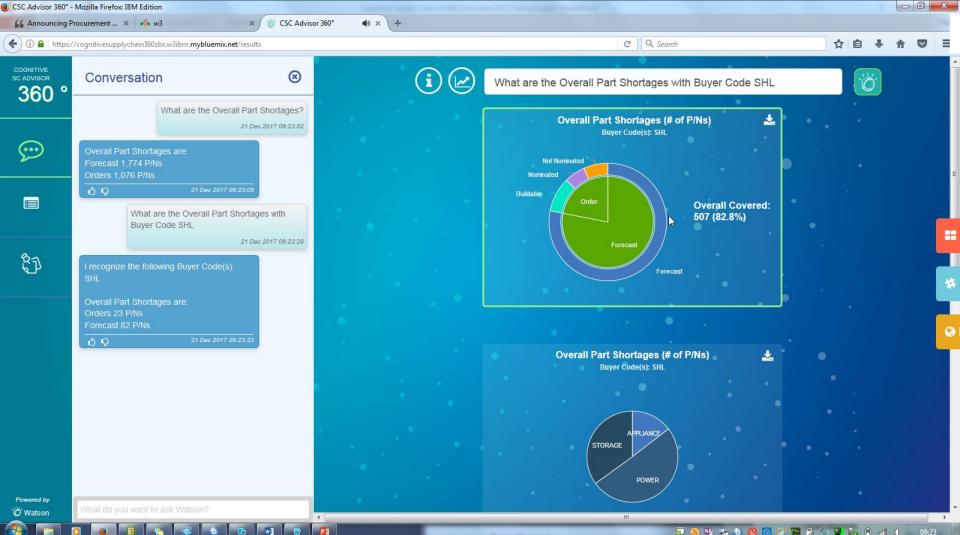
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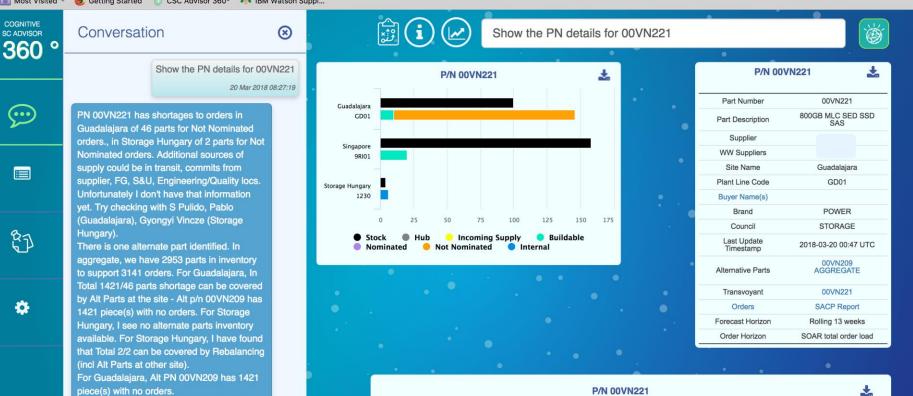
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je \$		tribu	iting t	brand		site, wh	hat are the top 5 part ind unit cost, and wh		ove For	Powe	Power System	rage ? Power Systems, what are	rage ? Power Systems, what are the top	rage ? Power Systems, what are the top 5 purc	rage ? Power Systems, what are the top 5 purchase o	rage ? Power Systems, what are the top 5 purchase order overa	rage ? Power Systems, what are the top 5 purchase order overage part	Power Systems, what are the top 5 purchase order overage parts?

What is the parts overage \$ for Power Systems?





Status

NOT NOMINATED

SHORTAGE

FORECAST

SHORTAGE

NOT

NOMINATED

SHORTAGE

Buildable

10

20

0

30

Nominated

0

0

0

0

Location

Guadalajara GD01

Singapore 9RI01

Storage

Hungary 1230

Total WW

0

-

0

Total

Orders

146

20

6

172

Internal

0

0

6

6

Order

Shortage

-46

138

-2

90

SOAF

100

158

262

Not

Nominated

136

0

0

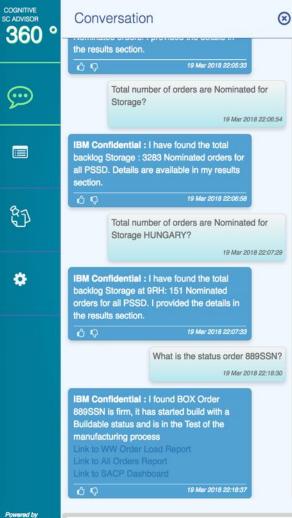
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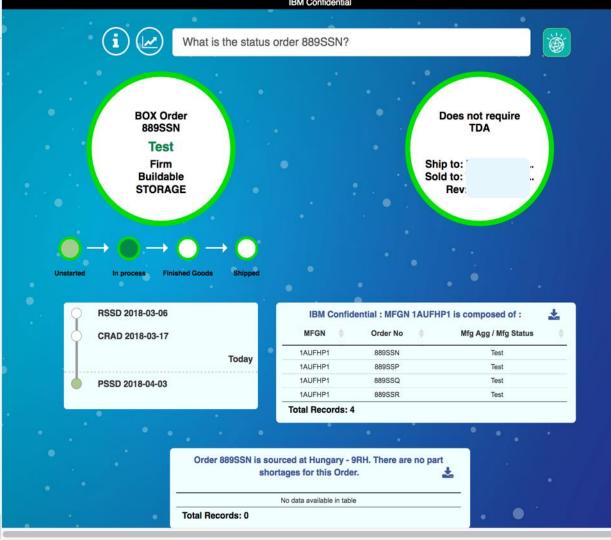
piece(s) with no orders. For Singapore, Alt PN 00VN209 has 255 piece(s) with no orders.

20 Mar 2018 08:27:26

Powered by Watson

What do you want to ask Watson?





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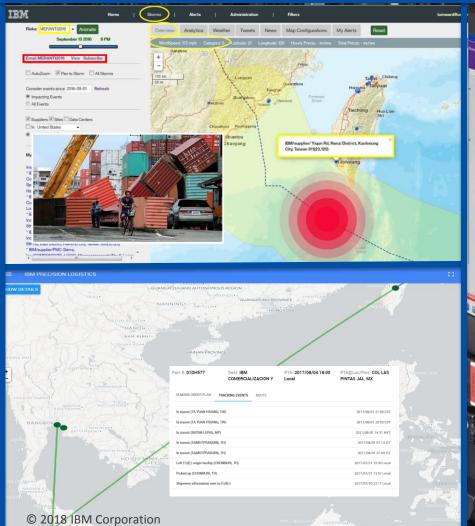
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Watson

What do you want to ask Watson?

WATSON QUALITY ADVISOR







DBugD2 - System reference/error code Lookup

Search for an SRC or error number below:

SRC to search B113E504	B113E504 Fix Suggestions	
Select the MFG Site	Fix	Success Ra
Power Guadalajara MAPICS	REPLACED MODULE FAILED IN CORNER (00KV834 MODULE P8M214	66.57 %
SEARCH	REPLACED MODULE FAILED AT CORNER (00UM258 MODULE P8M21	63.69 %
	REPLACED MODULE IN CORNER (00UM257 MODULE P8M214 10CS1	63.4 %
	REPLACED MODULE FAILED CORNER STX (00NE651 MODULE P8V20	61.1 %
	REPLACED MODULE FAILED CNR12 (00NG976 MODULE P8M214 12C	58.79 %
	REPLACED NEW MODULE (00KV836 MODULE P8M214 6CS19 P1 C32)	58.79 %

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We teach Watson Supply Chain.

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Supply

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Test Operation

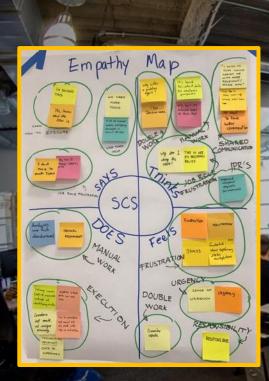
Ideation

Order Mgmt

WHO WERT

Quality

EI



Relevant Information / Decision Support

They'read they have



Top Subject Matter Experts

F. det

STATE AND DESCRIPTION OF Parsed Log Sys for cell GDA.gda1f101 **Cognitive Supply Chain** Starting operation 0111 process P8LEPOPR with None regression mode at 2016-11-01 10:45:38 dmiw_transfer.pl: 11.26.37 Successfully Sent DMIWT270378821C27FW~2016-11-01-11-26~GDA~828642A.xml to MFS PROCESS P8LEPOPR exited with a status of FAILED. Tue Nov 1 11:26:37 2016 FAILED: Process=P8LEPOPR Program=iplphyp Step=A100 Tue Nov 1 11:26:37 2016 SRC11=BC20090F SRC13=00000200 *** Commented by 781/I/054030/IBM/Magana Rangel Nahum (alugo) on 1 Nov 2016 at 11:27. Normal Hardware FRU Completed Alpha... • Priority : Lowest priority replacement Entity Location Code : U78C9.001.WZS0UVL-P1-C25 20161007 shipments delayed Part Number : 00LP740 Type CCIN : 31E9 PERSONPL Serial Number : YH10M16AD0ZR PHONE From rework: 2016-11-01 11:49:08 SGD10277 PLANT BC20090F, 00LP740, 2L02 EI00 P1 C26, DIMM WAS ON WRONG LOCATION PRODUCT 0 PartNumbe System failure generated the Reference Code, BC20090F System failed while running the testcase iplphyp with a return code (RCD1) CONS . SUBSTAND SYSR12 🗙 SVS015 😪 SYRCD1 🗙 SYRCD4 X SYPMOD X SYPRLN 🗙 SYSR17 🗙 Site DORVERS 10CS1 AUTOV C17 C18 C20 C21 C33 DIMM DIMMS EMBOR IN LOC LOCATION ME SupplierNa WRONG * TICKER TIME Reworked Parts Count TITLEWOF No part replaced. to VMI. VEHICLE MODULE, P8M214 10CS1

IBM Watson Knowledge Studio

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Mention

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Relation

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oreference

In order to close 3Q demand for Fan Out, and Bear Paw were scheduled direct shipments to IBM, and to covering potential over consuming for both cards, we sent direction to to shipping to VMI material in SL1 mode, confirmed quantities and SL1 mode, but per miscommunication between our customer service, and its export dept, both cards were not updated to SL1,

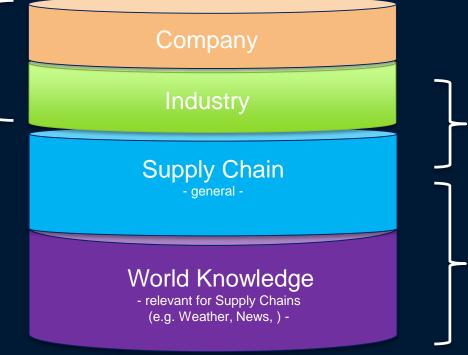
(carrier) picked up both cards, and scheduled air service as SL3.

No business impact, on Monday 26th, make had notified about cards scheduled SL3 in China, after made phone calls with new and new shipments were updated from SL3 to SLX.

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Supply Chain Advisor – Domain Corpus

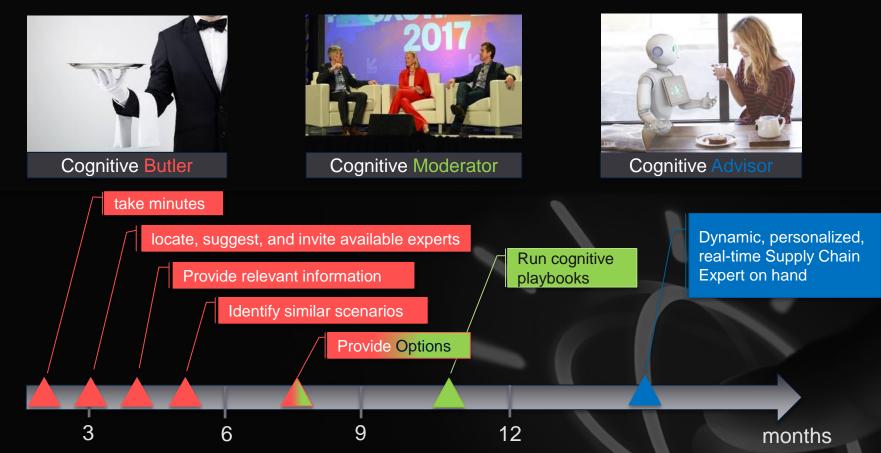
accelerated through IBM Teaching Methods



accelerated by supplier & supply chain SMEs

accelerated by IBM and ecosystem partners

Cognitive Supply Chain - Roadmap





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