

Driverless Supply Chain Using SAP IBP, Azure and Ariba

Ashish Agarwal, Program Manager, Microsoft Chandrasekhar Kondapaneni, Software Engineer, Microsoft Keiji Mishima, Sr. Support Engineer, SAP Session ID #84372

May 7 – 9, 2019





About the Speakers

Speaker Name

- Ashish Agarwal, Microsoft
- Sr. Program Manager
- Expert in supply chain, delivered multiple large-scale business and system transformational projects.

Speaker Name

- Chandra Kondapaneni, Microsoft
- Software Engineer
- Expertise in implementing various Supply chain solutions using ECC, APO, IBP, Ariba and Azure





About the Speakers

Speaker Name

- Keiji Mishima, SAP
- Senior Support Engineer
- Focusing on SAP IBP and helping customer to adopt digital supply chain transformation





K.

Agenda

- Before IBP
- Supply Planning Process
- Challenges
- Solutions
- IBP Journey
- Collaboration with SAP



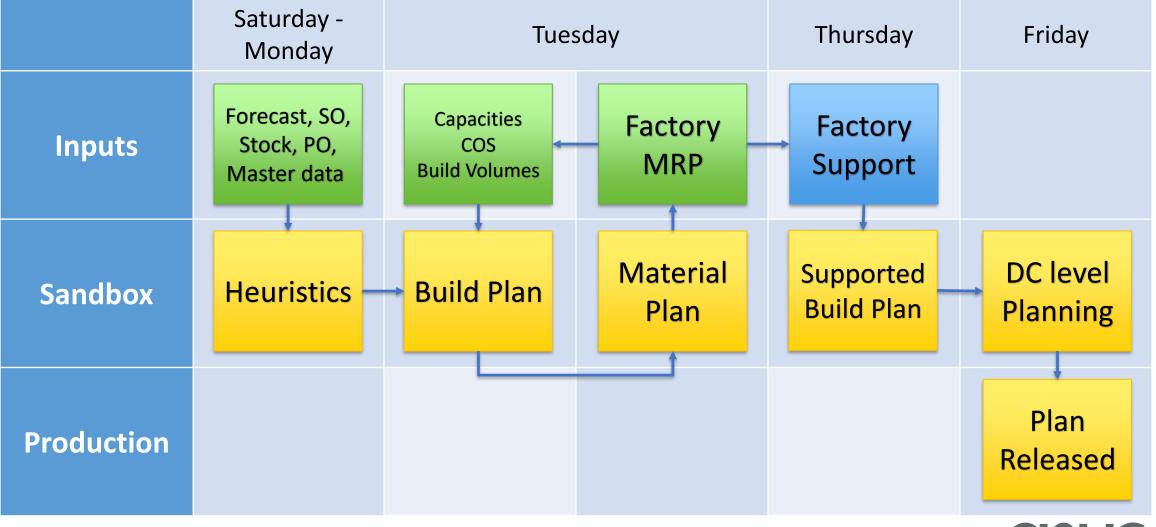
Before IBP

- Multiple Systems
- Planners worked extended hours
- No time for exception management





Supply Planning Process







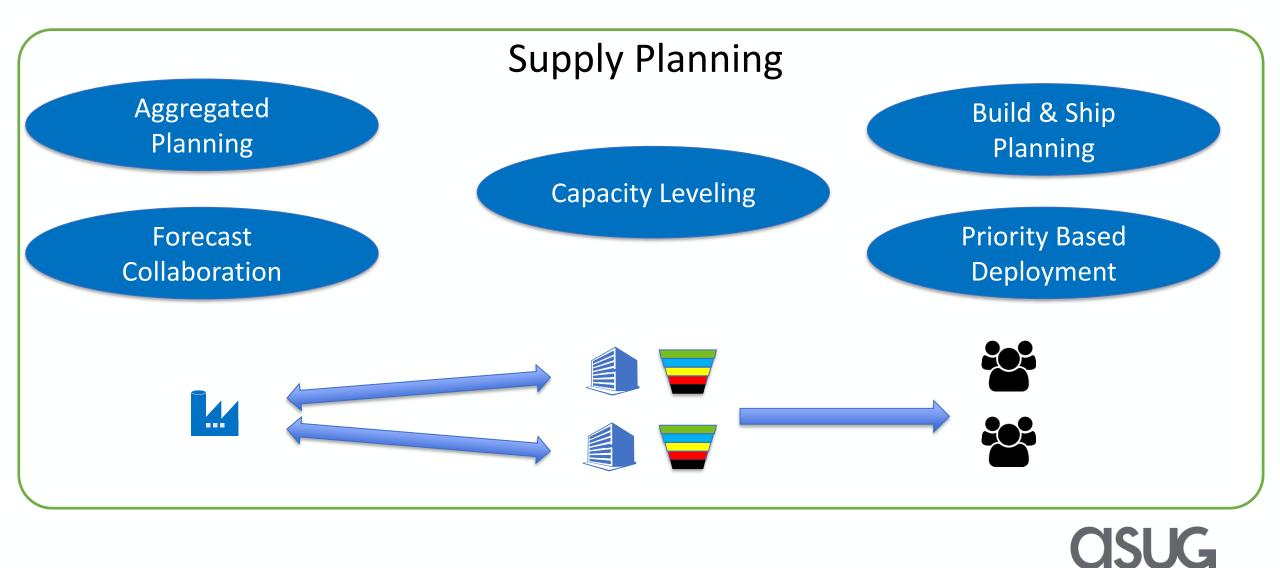
Challenges

- Master Data
- Process Challenges PO creation
- Forecast Collaboration Manual using MS Excel
- Customer Experience high unconfirmed orders due to missing supply
- Planning Efficiency Planners were spending 60% time on system





Solutions - Supply





Solutions - Supply

Master Data - Azure / Power Bl •

MaterialNbr	erialNbr LocationCode Aggre		gateMaterial AggregateLocation		ation	MRP Controller		RP Controller	^			
22Z-00022	4260_001	0 AGGM_	22Z-00022 ZA	GG_AOC			R01					
22Z-00022	4790_001	0 AGGM_	22Z-00022 ZA	GG_AOC			R01				Treat as	priority
22Z-00024	N787_008	30 AGGM_	22Z-00024 ZA	GG_ANZN		R01	N/A				n our ur	phone
22Z-00026	4260_001	0 AGGM_	22Z-00026 ZA	GG_AOC			R01					
22Z-00026	4790_001	0 AGGM_	22Z-00026 ZA	GG_AOC			R01					
22Z-00028	N787_008	30 AGGM_	22Z-00028 ZA	GG_ANZN		R01	N/A		~			
251-00022	/260.001	A AGGM	231-00022 74	GG 40C			R01					
D !!							10/					
Roundin	g value N	lismatch wi	th Aggregate	e			184	Roundir	ig value	Mismatc	n with	Vendo
MaterialNbr	LocationCode	AggregateMaterial	AggregateLocation			~		MaterialNbr	ToLocation	Vendor	DC	Vendor
				Value	Rounding						Rounding	
					Value			^			Value	Value
FPS-00009	5860	AGGM_FPS-00009	ZAGG_AOCDS	40.0				EYU-00001	N260_0010	N260_0080	40.0	
FPS-00010	4080_0010	AGGM_FPS-00010	ZAGG_EOC	40.0	00 3.00			EYU-00001	N260_0020	N260_0080	40.0)
PS-00011	4080_0010	AGGM_FPS-00011	ZAGG_EOC	40.0	3.00	D 🔰 🚩		EYU-00001	N790_0010	N790_0080	40.0)
FPS-00012	4700	AGGM_FPS-00012	ZAGG_JAPAN	40.0	00 1.00		97.87	EYU-00001	N790_0020	N790_0080	40.0)
FPS-00012	4715_0010	AGGM_FPS-00012	ZAGG_CHINA	40.0			57.07	EYU-00002	N080_0020	N080_0080	1.0	
FRC 00040	1745 0000	10011 500 00010		10.0	10 4.00			DU1 00000	1000 0040	11000 0000	10.0	
Minimu	m Lot Size	e Mismatch	with Aggreg	ate			202	Minimu	m Lot Siz	ze Misma	tch w	th Ver
MaterialNbr	LocationCode	AggregateMaterial	AggregateLocation	MinLot Size	Agg MinLotSize	^		MaterialNbr	ToLocation	Vend	dor	MinLotSize
4FD-00016	N790 0080	AGGM 4FD-00016	ZAGG AOCN	0.00	250.00	·		A B2M-00010	N550 0080	0002	2099531	0.00
FPS-00009	5860	AGGM FPS-00009	ZAGG AOCDS	320.00	1.00			B2M-00019	N550 0080		2099531	0.00
	5861	AGGM FPS-00010	ZAGG EOCDS	320.00	1.00		\cap	B2M-00019	N855 0080		2099531	0.00
EPS-00010			TU00_F0CD2	520.00	1.00							
FPS-00010		AGGM EPS-00011	7AGG FOCDS	320.00	1.00			EVU-00001	4485	0002	266985	0.00
FPS-00010 FPS-00011 FPS-00012	5861 4700	AGGM_FPS-00011 AGGM_FPS-00012	ZAGG_EOCDS ZAGG JAPAN	320.00 320.00	1.00		96.89	EYU-00001 EYU-00001	4485 N260 0010		2266985	0.00



SUG



Solutions - Supply

- Process Management
 - Automation
 - Cadence
 - Transparency



MRP Controller_S04_Build Planning_WK017_2019_4_22_12_14_30: MRP Controller_S04_Build Plan Prep





Results / Improvements

- Planner Efficiency
 - Reduced system time
- Purchase Order Accuracy
- Improved confirmations
 - Sales Orders due to missir





Challenge – Demand Planning











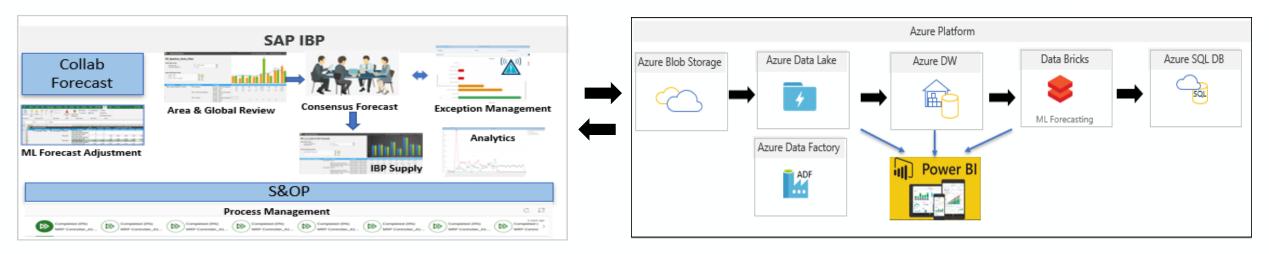
- Emails, multiple offline Excels, SharePoint sites and several Applications to capture and consolidate Forecast.
- Dependency to External reports to Analyze, Review and come back to Offline Excels for Updates with time lag.
- Repeated offline cycles when moving from Country level to Region level and to Global reviews.
- Multiple System hops and Support teams involved to handover demand forecast to Supply planning,



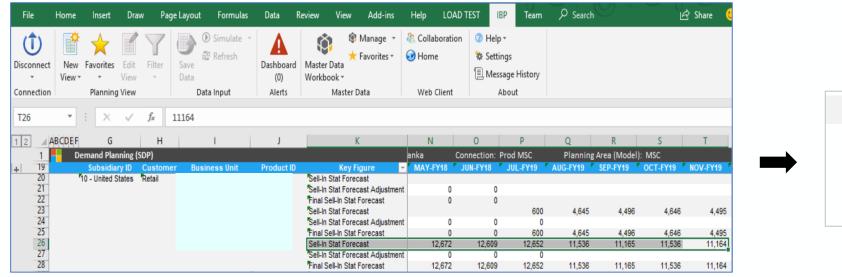




Solution: Hybrid Approach -> Machine Learning + Human Collaboration



SAP Planning Workflow



Final Forecast = Base Forecast (ML Models) + Adjustments (e.g. Promos)

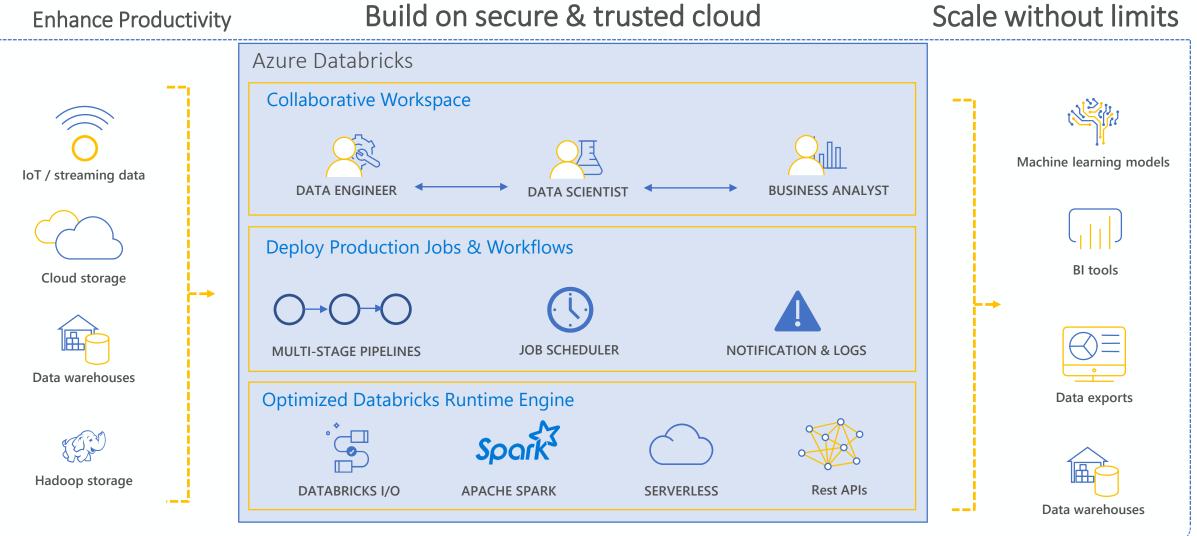


CISUG

Microsoft



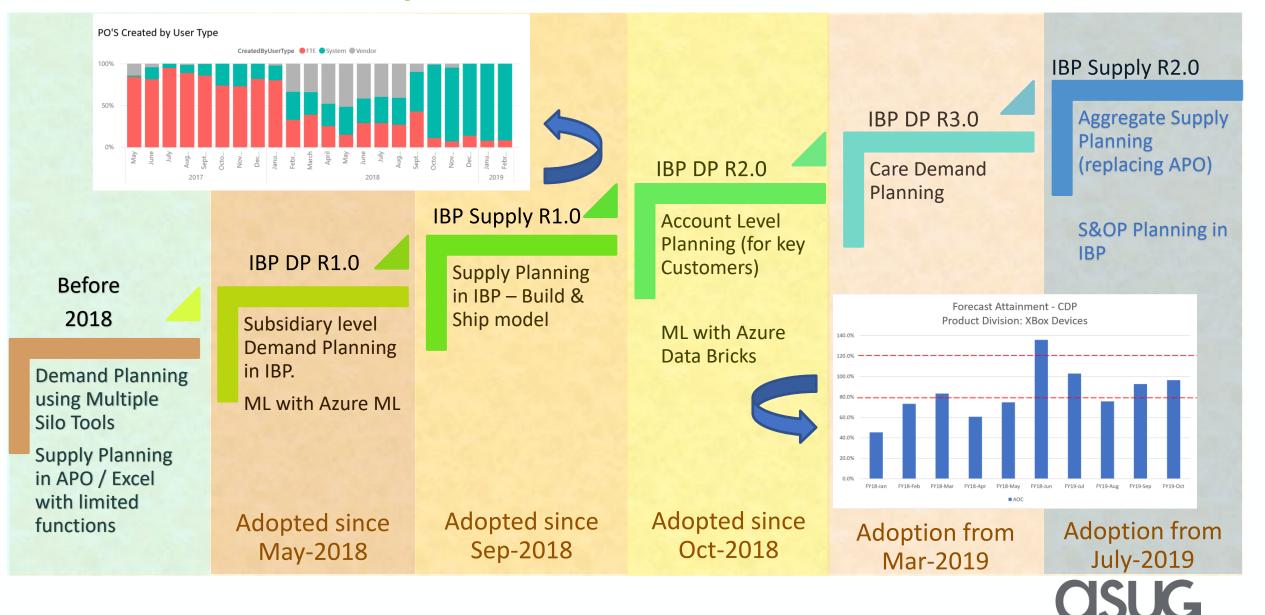
Azure Databricks



asug

SAP - IBP Journey in Microsoft







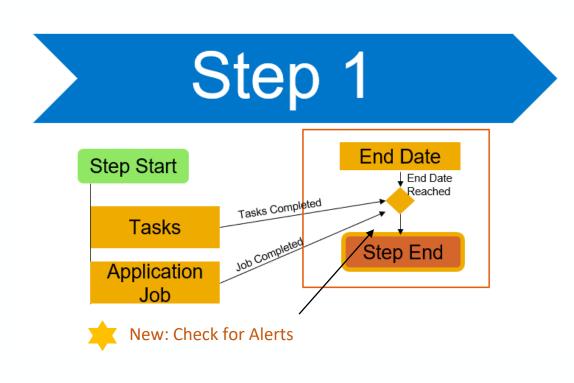
Collaboration with SAP

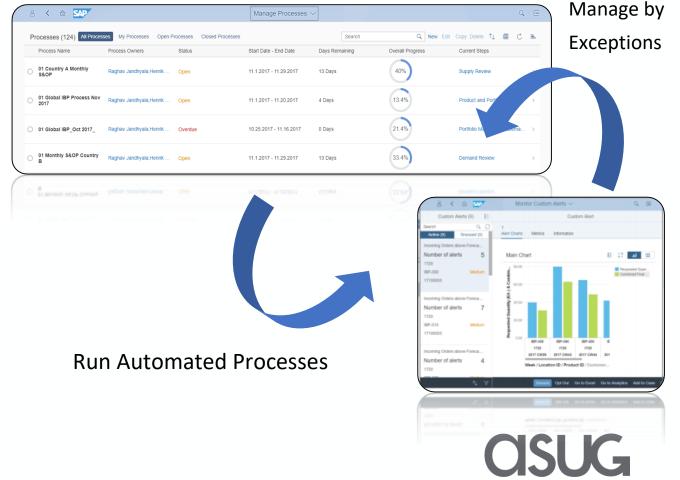




Driveless Supply Chain – Co Innovation with SAP

Combine Process Management and Exception Management for Autonomous Planning Process (Planned 1908)







Take the Session Survey.

We want to hear from you! Be sure to complete the session evaluation on the SAPPHIRE NOW and ASUG Annual Conference mobile app.



asug



Presentation Materials

Access the slides from 2019 ASUG Annual Conference here: http://info.asug.com/2019-ac-slides





Q&A

For questions after this session, contact us at <u>Ashish.Agarwal@Microsoft.com</u> <u>Chakon@Microsoft.com</u> <u>Keiji.Mishima@sap.com</u>





Let's Be Social.

Stay connected. Share your SAP experiences anytime, anywhere. Join the ASUG conversation on social media: **@ASUG365 #ASUG**



