How to Use Production Reporting and Analytics to Improve Service Levels and Revenue Enablement

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REVEAL

SAPinsider
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SAPinsider

In This Session….

We will discuss how to leverage the Production Planning toolkit available to us to enable revenue through improved throughput.

We will discuss:

- The value opportunity derived from standard SAP reports
- The prerequisites to effectively utilizing standard analysis tools
- How to utilize reports and analytics to hone-in on manufacturing inefficiencies and exceptions to promote continuous flow

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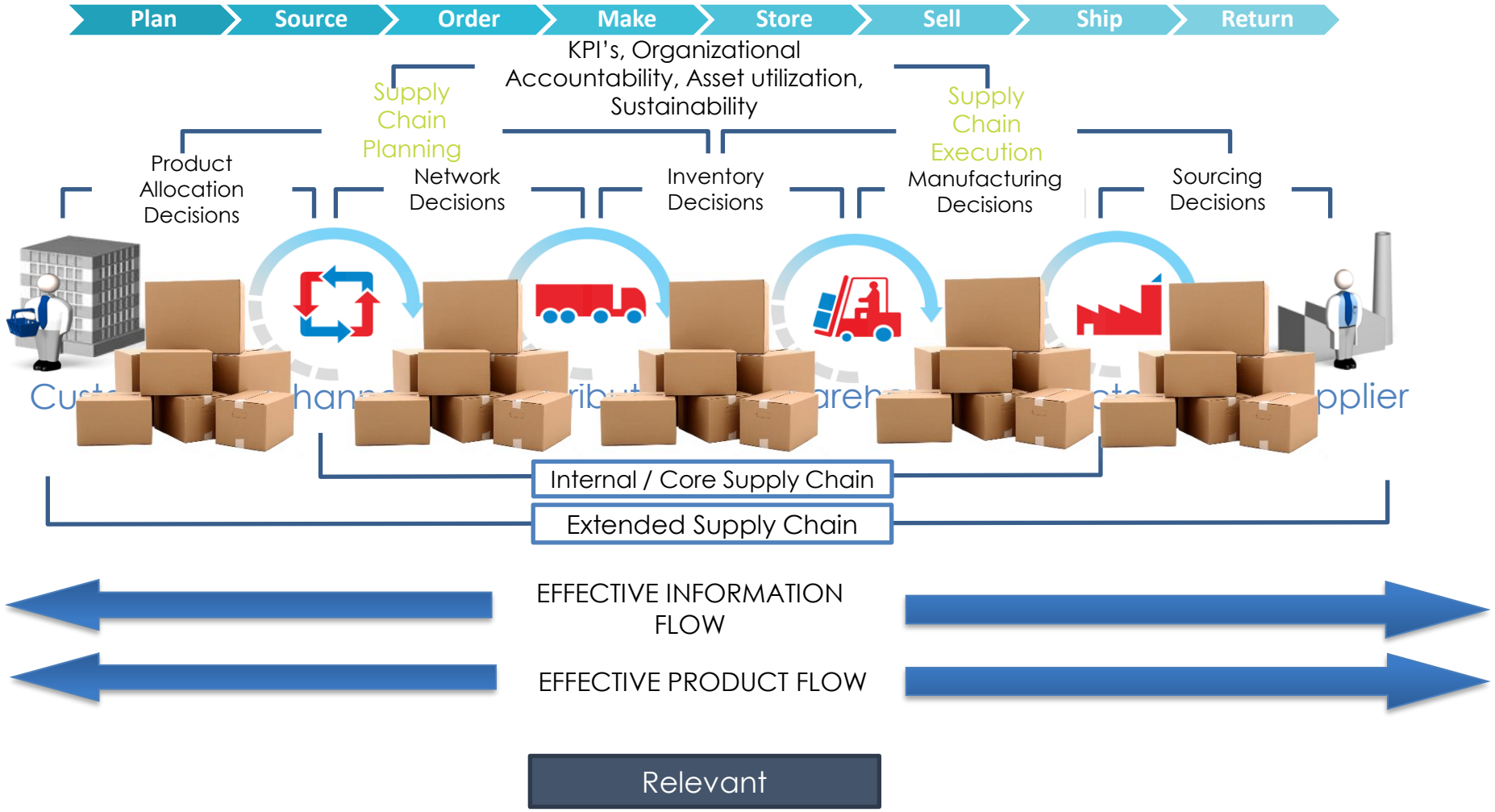
What We'll Cover

- Describe the relationship between visibility and proactive exception/alert management
- Explore the capacity planning and scheduling functionality available in standard SAP
- Discuss data requirements for quality reporting and analytics
- Highlight some of the reports that enable us to hone in on efficiencies

Topic 1

Describe the relationship between visibility and proactive exception/alert management

Modern Supply Chain: It's all about flow!



Integrated Information Flow Impacts the Quality of Decision Making

Customer

- Available to promise
- Service Level expectations
- Returns/Reasons
- Sales forecast
- Sales enablement

Channels

- Product Allocation
- Product Availability
- Omni channel diversity
- Logistics
- Global batch traceability

Distribution

- Material flow and distribution strategies
- Transportation Management
- Serialization
- Track and trace

Warehouses

- Put away and picking strategies
- Stock control
- Warehouse Automation
- Real-time information
- Optimized routings
- Obsolescence

Factories

- Production strategies
- Operational effectiveness & reliability
- Capacity and Constraint management
- Plant Maintenance & Asset management

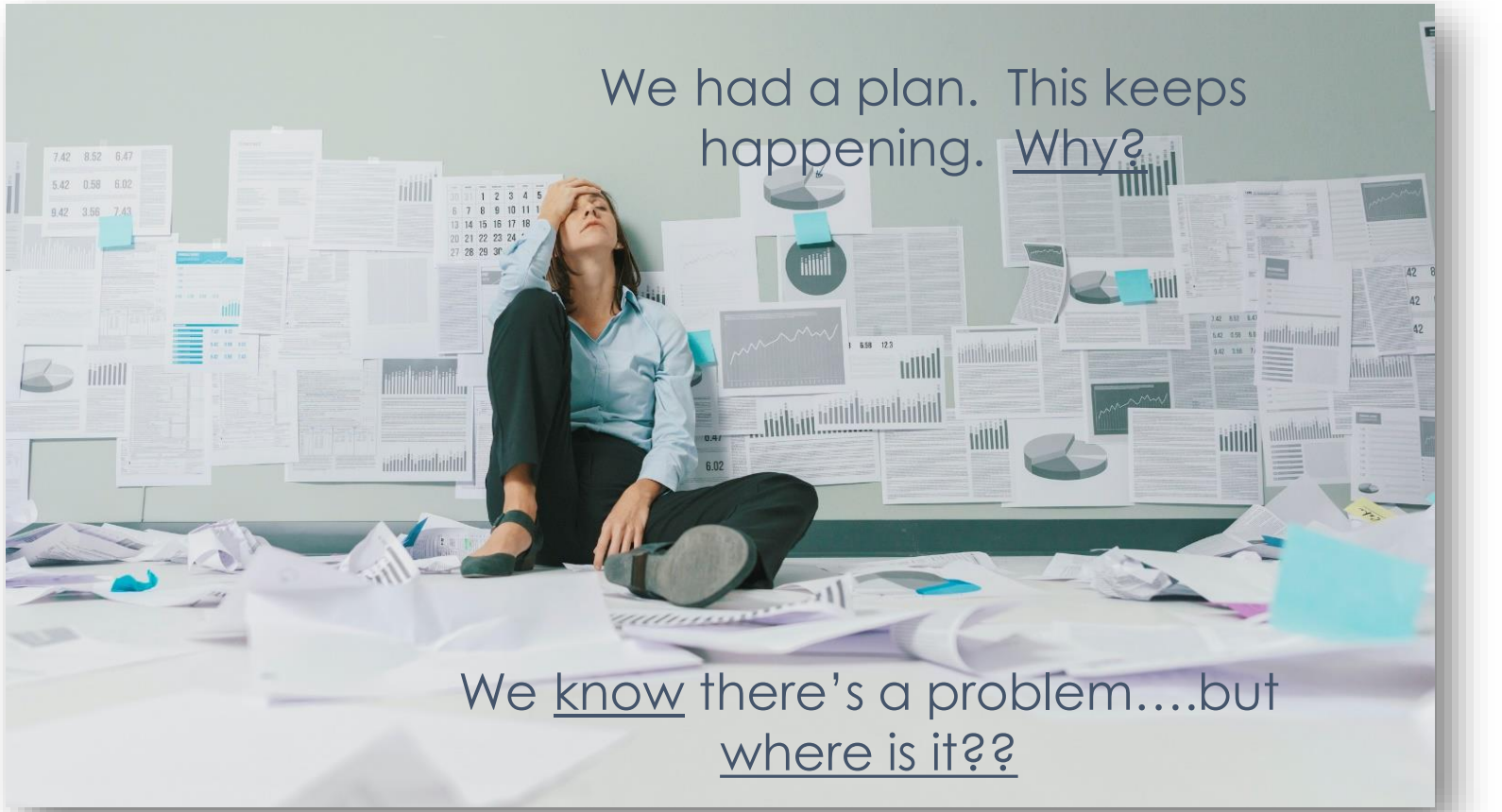
Supplier

- Supplier Management
- Sourcing Strategy
- Spend Analysis
- E-Procurement
- Material visibility

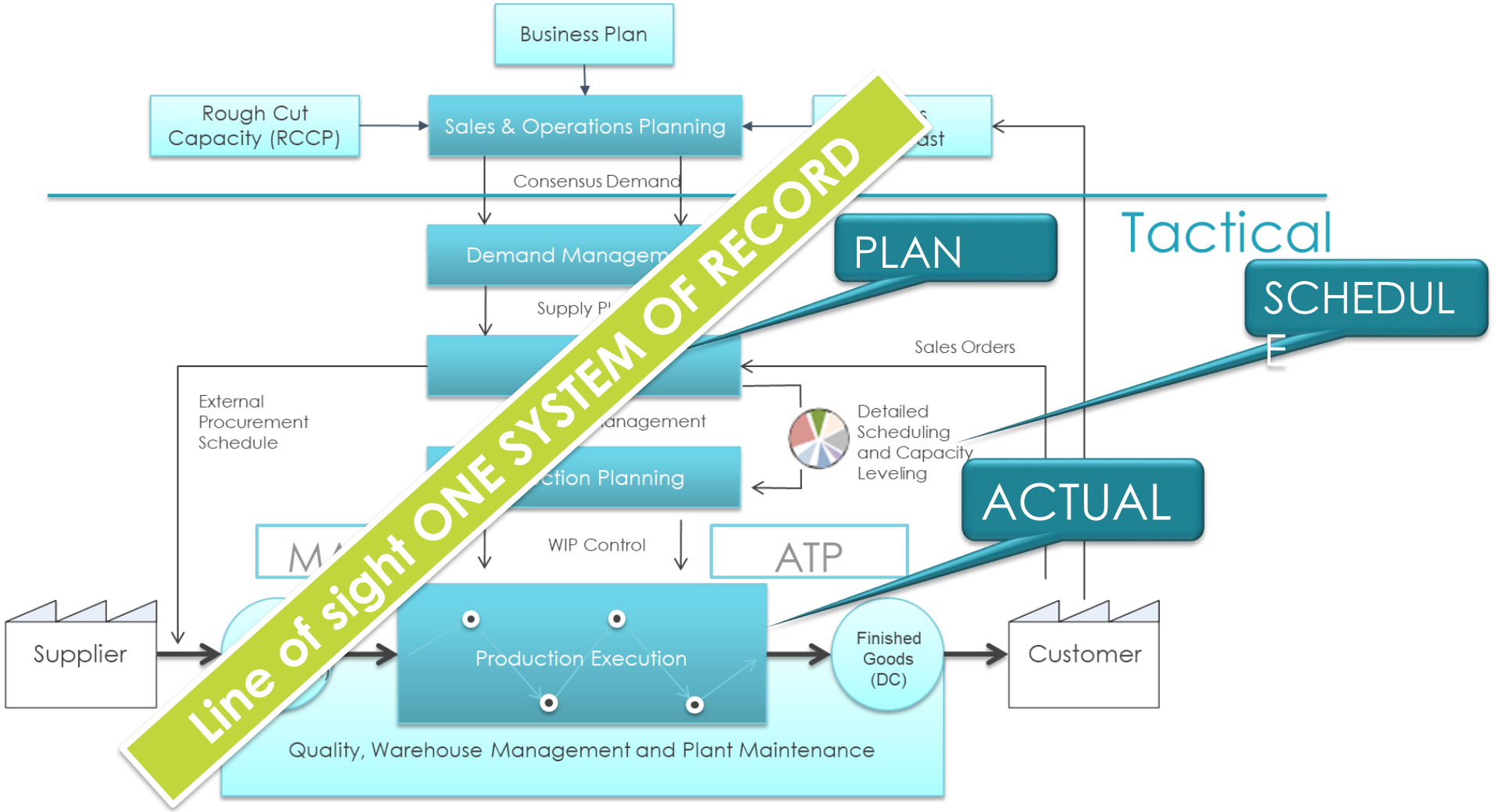
EFFECTIVE INFORMATION FLOW **ENABLES** EFFECTIVE MATERIAL FLOW

An integrated supply chain is dependent on accurate information and communication up and down the supply chain

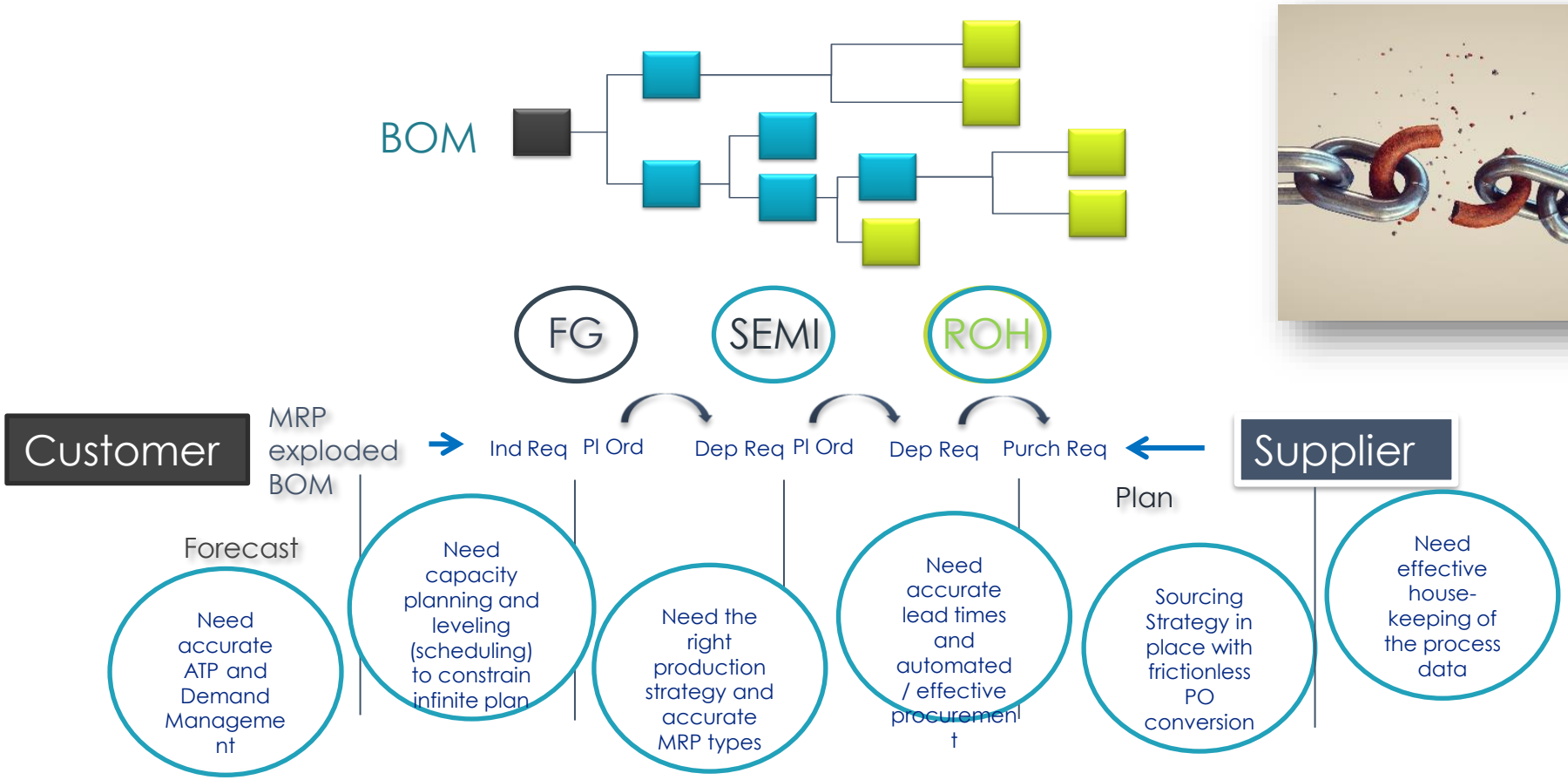
Harmonized Work - Disrupted…



Setting Our Intention, Aligning Actions



Understand the Integration Requirements



Topic 2

Explore the capacity planning and scheduling functionality available in standard SAP

The Struggle is Real:
Many of us are still in the throes of a non-recovery recovery

- Labor and Material Shortages
- Curtailed production
- Non bottleneck resources are the new bottlenecks
- Increased production inefficiencies
- Increased manufacturing lead-times and throughput time

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Capacity Planning – Why do I need visibility?

- **Purpose:**
  - Maintain a balance between Supply and Demand
  - Provide vision and information across the supply chain
    - Provide realistic order ship/availability dates to customers
    - Improve decision making based on actual work center information
  - Determine the best economic use of resources
    - Long term simulations for optimal use of labor and equipment
    - Capacity Plan feeds MRP
    - Procurement schedule derived from the Capacity Plan
- **Capacity Evaluation:**
  - Available capacity and capacity requirements (load) are determined and compared with each other in lists or graphics.
- **Capacity Levelling (detailed scheduling):**
  - Optimal capacity commitment via Finite Scheduling.
  - Selection of appropriate resources.
  - Interactive graphical detailed scheduling / dispatching.

- **Integration:**
  - Capacity planning is integrated in the following applications:
    - Production Planning and Control
    - Sales & Operations Planning
    - RCCP
    - Long-term Planning
    - Shop Floor Control
    - REM, Discrete and Process manufacturing flows
    - Plant Maintenance

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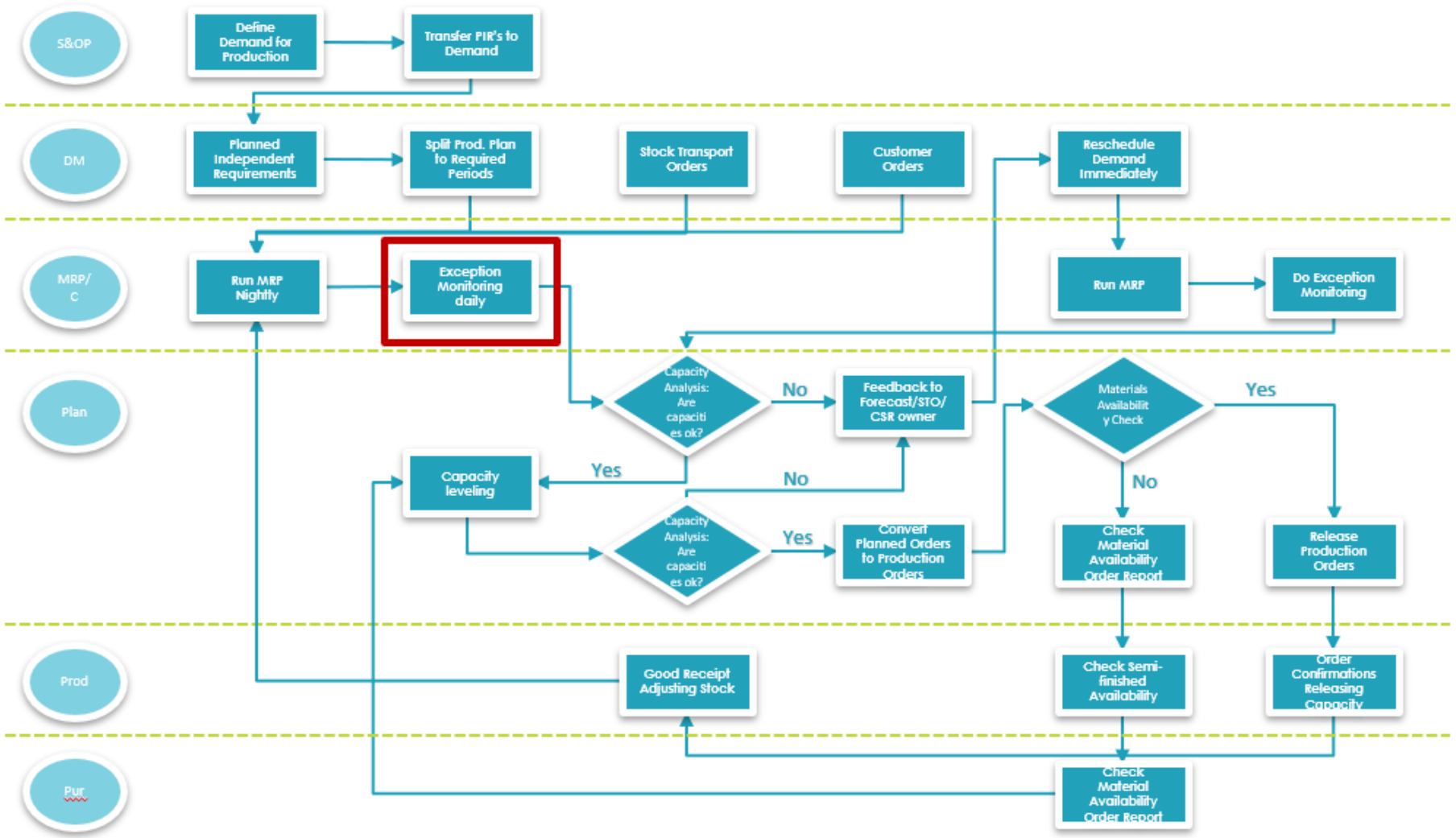
Supply Chain Process: Planning



Capacity Analysis

Daily View

Work center SOWING Plant USA4
Capacity cat.: 008

Day	Requirements	AvailCap.	CapLoad	RemAvailCap	Unit
07/07/2020	360.00	11.75	999 %	348.25-	H
07/08/2020	0.00	11.75	0 %	11.75	H
07/09/2020	0.00	11.75	0 %	11.75	H
07/10/2020	0.00	11.75	0 %	11.75	H
07/11/2020	0.00	0.00	0 %	0.00	H
07/12/2020	0.00	0.00	0 %	0.00	H
07/13/2020	0.00	11.75	0 %	11.75	H
07/14/2020	0.00	11.75	0 %	11.75	H
07/15/2020	0.00	11.75	0 %	11.75	H
07/16/2020	0.00	11.75	0 %	11.75	H
07/17/2020	0.00	11.75	0 %	11.75	H
07/18/2020	0.00	0.00	0 %	0.00	H
07/19/2020	0.00	0.00	0 %	0.00	H
07/20/2020	2,304.00	11.75	999 %	2,292.25-	H
07/21/2020	2,304.00	11.75	999 %	2,292.25-	H
Total >>>	4,968.00	129.25	999 %	4,838.75-	H

Long Term View

Work center Plant USA4
Capacity cat.:

Week	Requirements	AvailCap.	CapLoad	RemAvailCap	Unit
28/2020	360.00	47.00	766 %	313.00-	H
29/2020	0.00	58.75	0 %	58.75	H
30/2020	11,520.00	58.75	999 %	11,461.25-	H
31/2020	0.00	58.75	0 %	58.75	H
32/2020	0.00	58.75	0 %	58.75	H
33/2020	0.00	58.75	0 %	58.75	H
34/2020	0.00	58.75	0 %	58.75	H
35/2020	0.00	58.75	0 %	58.75	H
36/2020	0.00	58.75	0 %	58.75	H
37/2020	0.00	47.00	0 %	47.00	H
38/2020	0.00	58.75	0 %	58.75	H
39/2020	0.00	58.75	0 %	58.75	H
40/2020	0.00	58.75	0 %	58.75	H
41/2020	0.00	58.75	0 %	58.75	H
42/2020	0.00	47.00	0 %	47.00	H
43/2020	0.00	58.75	0 %	58.75	H
44/2020	0.00	58.75	0 %	58.75	H
45/2020	0.00	58.75	0 %	58.75	H
46/2020	0.00	47.00	0 %	47.00	H
47/2020	0.00	58.75	0 %	58.75	H
48/2020	0.00	35.25	0 %	35.25	H
49/2020	0.00	58.75	0 %	58.75	H
50/2020	0.00	58.75	0 %	58.75	H
51/2020	0.00	58.75	0 %	58.75	H
52/2020	0.00	47.00	0 %	47.00	H
53/2020	0.00	47.00	0 %	47.00	H
Total >>>	11,880.00	1,433.50	829 %	10,446.50-	H

Lead time View

Work center Plant USA4
Capacity cat.:

Week	Requirements	AvailCap.	CapLoad	RemAvailCap	Unit
28/2020	360.00	47.00	766 %	313.00-	H
29/2020	360.00	105.75	340 %	254.25-	H
30/2020	11,880.00	164.50	999 %	11,715.50-	H
31/2020	11,880.00	223.25	999 %	11,656.75-	H
32/2020	11,880.00	282.00	999 %	11,598.00-	H
33/2020	11,880.00	340.75	999 %	11,539.25-	H
34/2020	11,880.00	399.50	999 %	11,480.50-	H
35/2020	11,880.00	458.25	999 %	11,421.75-	H
36/2020	11,880.00	517.00	999 %	11,363.00-	H
37/2020	11,880.00	564.00	999 %	11,316.00-	H
38/2020	11,880.00	622.75	999 %	11,257.25-	H
39/2020	11,880.00	681.50	999 %	11,198.50-	H
40/2020	11,880.00	740.25	999 %	11,139.75-	H
41/2020	11,880.00	799.00	999 %	11,081.00-	H
42/2020	11,880.00	846.00	999 %	11,034.00-	H
43/2020	11,880.00	904.75	999 %	10,975.25-	H
44/2020	11,880.00	963.50	999 %	10,916.50-	H
45/2020	11,880.00	1,022.25	999 %	10,857.75-	H
46/2020	11,880.00	1,069.25	999 %	10,810.75-	H
47/2020	11,880.00	1,128.00	999 %	10,752.00-	H
48/2020	11,880.00	1,163.25	999 %	10,716.75-	H
49/2020	11,880.00	1,222.00	972 %	10,658.00-	H
50/2020	11,880.00	1,280.75	928 %	10,599.25-	H
51/2020	11,880.00	1,339.50	887 %	10,540.50-	H
52/2020	11,880.00	1,386.50	857 %	10,493.50-	H
53/2020	11,880.00	1,433.50	829 %	10,446.50-	H
Total >>>	11,880.00	1,433.50	829 %	10,446.50-	H

Overload Report

Work center Plant USA4
Capacity cat.:

Week	Requirements	AvailCap.	CapLoad	RemAvailCap	Unit
28/2020	360.00	47.00	766 %	313.00-	H
30/2020	11,520.00	58.75	999 %	11,461.25-	H

Work center YLDEST YIELD_USA4 Plant USA4
Capacity cat.: 008 Processing unit

Week	Requirements	AvailCap.	CapLoad	RemAvailCap	Unit
34/2020	216.00	58.75	368 %	157.25-	H

S/4HANA

Capacity Availability 1

Order %00000000001 Cat. PP10 Plant 1105
Material 25 Turbine
MRP controller 101
System status REL MSPT MANC SETC

Operation 0010
Capacity confirmed
Work center TURB01 Turbine Work Center 1
Capacity category 001 Machine Load threshold 105 %

Period	Availability	Requirements	Rqmts.order	CapLoad	Un.
11.2021	120.00	140.18	47.55	116.8 %	HR
12.2021	120.00	131.00	118.88	109.2 %	HR
13.2021	96.00	95.10	95.10	99.1 %	HR
14.2021	96.00	95.10	95.10	99.1 %	HR
15.2021	120.00	118.88	118.88	99.1 %	HR

Operation 0020
Capacity confirmed
Work center TURB02 Turbine Work Center 2
Capacity category 001 Machine Load threshold 105 %

Period	Availability	Requirements	Rqmts.order	CapLoad	Un.

Adopt Confirm All Confirm None All Fin. Scheduling Application Help

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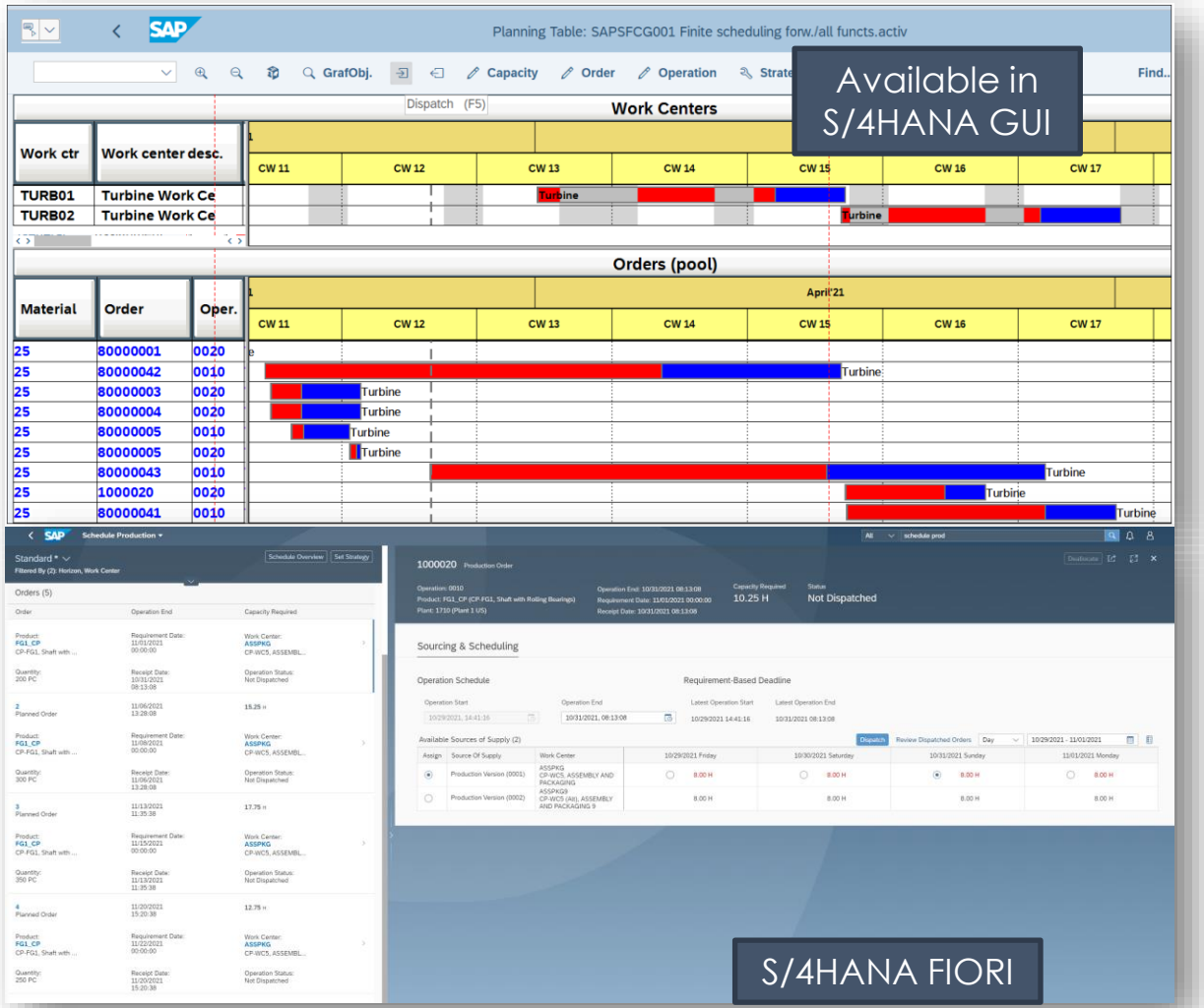
Scheduling and Shop Floor Execution

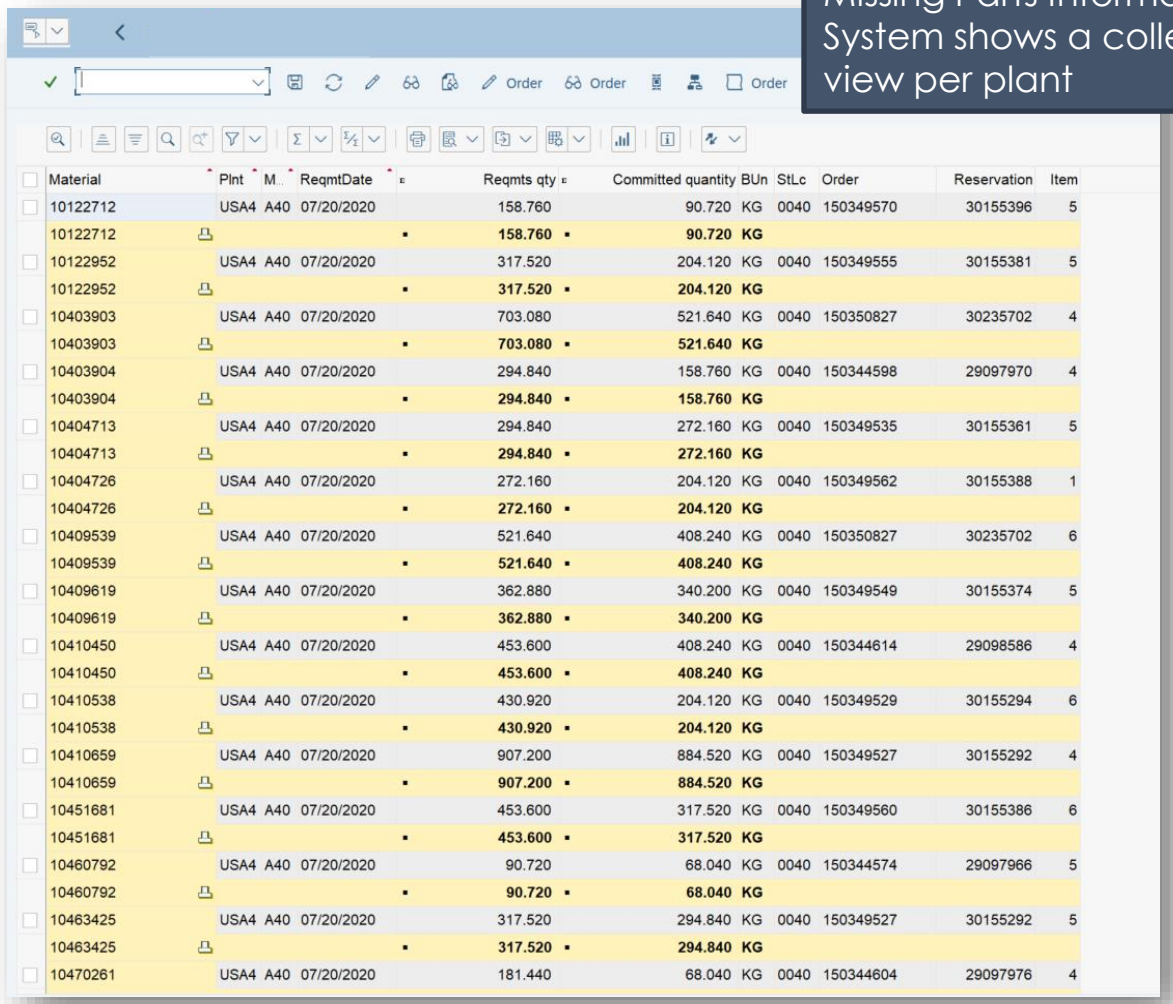


- The objectives of capacity leveling include:
  - Leveling overloads and underloads at work centers
  - Achieving optimum commitment of machines and production lines
  - Selection of appropriate resources

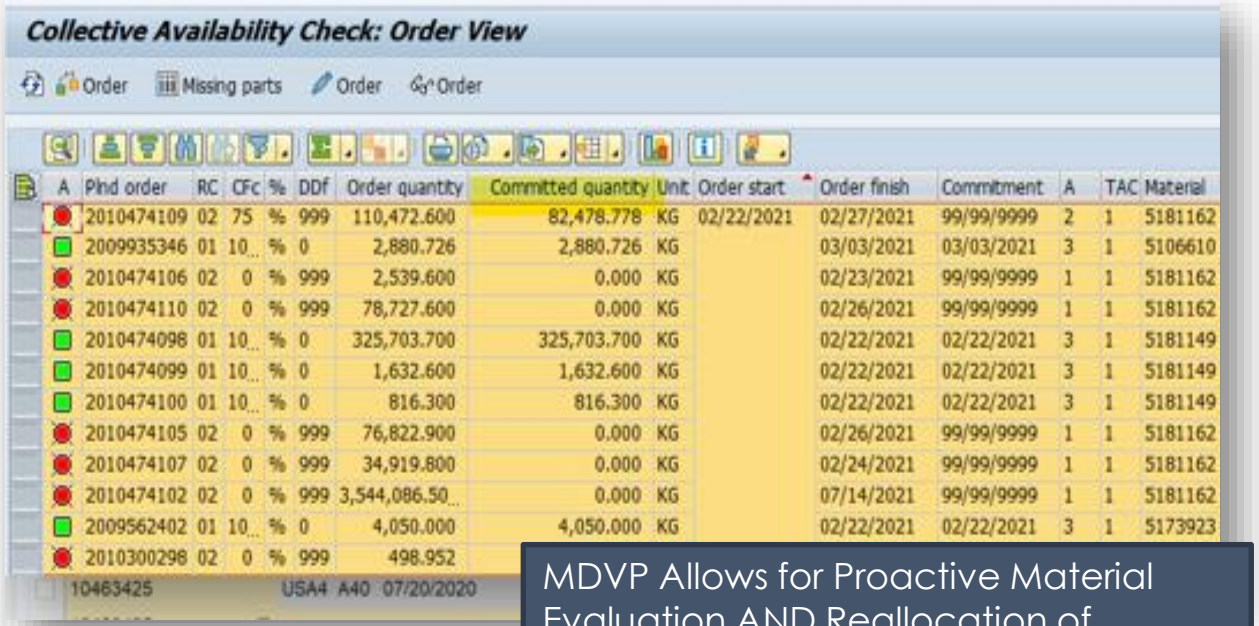
- The benefits of production scheduling include:
  - **Accurate Material Availability Checking**
  - **Accurate Sales order ATP**
  - **Accurate delivery date quotes**
  - Process change-over reduction
  - Inventory reduction, leveling
  - Increased production efficiency
  - Labor load leveling
  - Real-time information
  - Staged material availability to the shop floor

Missing Parts Report

Missing Parts Information System shows a collective view per plant



Material	Plnt	M..	ReqmtDate	Reqmts qty	Committed quantity	BUn	StLc	Order	Reservation	Item
10122712	USA4	A40	07/20/2020	158.760	90.720	KG	0040	150349570	30155396	5
10122712				**158.760**	**90.720**	**KG**				
10122952	USA4	A40	07/20/2020	317.520	204.120	KG	0040	150349555	30155381	5
10122952				**317.520**	**204.120**	**KG**				
10403903	USA4	A40	07/20/2020	703.080	521.640	KG	0040	150350827	30235702	4
10403903				**703.080**	**521.640**	**KG**				
10403904	USA4	A40	07/20/2020	294.840	158.760	KG	0040	150344598	29097970	4
10403904				**294.840**	**158.760**	**KG**				
10404713	USA4	A40	07/20/2020	294.840	272.160	KG	0040	150349535	30155361	5
10404713				**294.840**	**272.160**	**KG**				
10404726	USA4	A40	07/20/2020	272.160	204.120	KG	0040	150349562	30155388	1
10404726				**272.160**	**204.120**	**KG**				
10409539	USA4	A40	07/20/2020	521.640	408.240	KG	0040	150350827	30235702	6
10409539				**521.640**	**408.240**	**KG**				
10409619	USA4	A40	07/20/2020	362.880	340.200	KG	0040	150349549	30155374	5
10409619				**362.880**	**340.200**	**KG**				
10410450	USA4	A40	07/20/2020	453.600	408.240	KG	0040	150344614	29098586	4
10410450				**453.600**	**408.240**	**KG**				
10410538	USA4	A40	07/20/2020	430.920	204.120	KG	0040	150349529	30155294	6
10410538				**430.920**	**204.120**	**KG**				
10410659	USA4	A40	07/20/2020	907.200	884.520	KG	0040	150349527	30155292	4
10410659				**907.200**	**884.520**	**KG**				
10451681	USA4	A40	07/20/2020	453.600	317.520	KG	0040	150349560	30155386	6
10451681				**453.600**	**317.520**	**KG**				
10460792	USA4	A40	07/20/2020	90.720	68.040	KG	0040	150344574	29097966	5
10460792				**90.720**	**68.040**	**KG**				
10463425	USA4	A40	07/20/2020	317.520	294.840	KG	0040	150349527	30155292	5
10463425				**317.520**	**294.840**	**KG**				
10470261	USA4	A40	07/20/2020	181.440	68.040	KG	0040	150344604	29097976	4



Collective Availability Check: Order View

Order | Missing parts | Order | Order

A	Plnd order	RC	CFc	%	DDf	Order quantity	Committed quantity	Unit	Order start	Order finish	Commitment	A	TAC	Material
	2010474109	02	75	%	999	110,472.600	82,478.778	KG	02/22/2021	02/27/2021	99/99/9999	2	1	5181162
	2009935346	01	10..	%	0	2,880.726	2,880.726	KG		03/03/2021	03/03/2021	3	1	5106610
	2010474106	02	0	%	999	2,539.600	0.000	KG		02/23/2021	99/99/9999	1	1	5181162
	2010474110	02	0	%	999	78,727.600	0.000	KG		02/26/2021	99/99/9999	1	1	5181162
	2010474098	01	10..	%	0	325,703.700	325,703.700	KG		02/22/2021	02/22/2021	3	1	5181149
	2010474099	01	10..	%	0	1,632.600	1,632.600	KG		02/22/2021	02/22/2021	3	1	5181149
	2010474100	01	10..	%	0	816.300	816.300	KG		02/22/2021	02/22/2021	3	1	5181149
	2010474105	02	0	%	999	76,822.900	0.000	KG		02/26/2021	99/99/9999	1	1	5181162
	2010474107	02	0	%	999	34,919.800	0.000	KG		02/24/2021	99/99/9999	1	1	5181162
	2010474102	02	0	%	999	3,544,086.50..	0.000	KG		07/14/2021	99/99/9999	1	1	5181162
	2009562402	01	10..	%	0	4,050.000	4,050.000	KG		02/22/2021	02/22/2021	3	1	5173923
	2010300298	02	0	%	999	498.952								
	10463425								USA4 A40 07/20/2020					

MDVP Allows for Proactive Material Evaluation AND Reallocation of Material to Priority Orders

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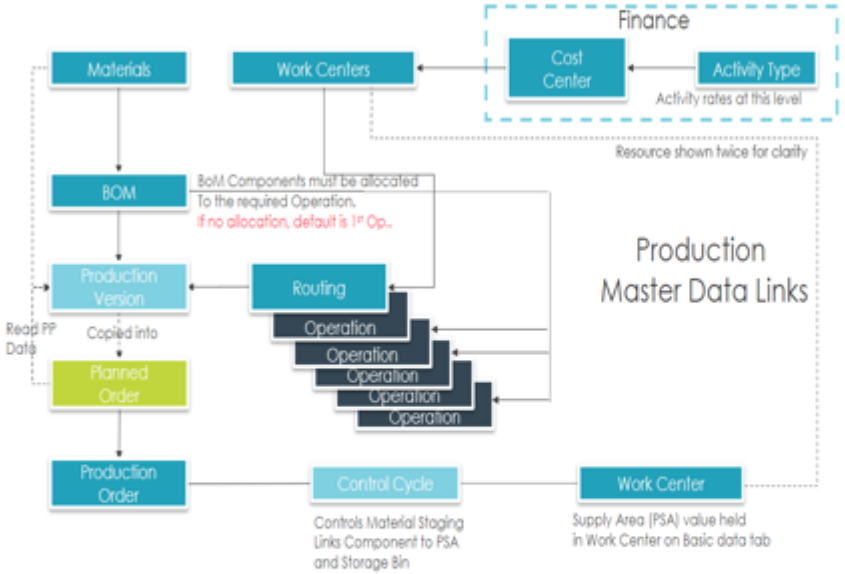
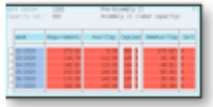
Topic 3

Discuss data requirements for quality reporting and analytics

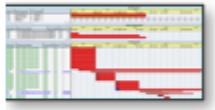
What Should an Aligned PP Data Set Do?



Support MRP – essential tool for optimizing inventory levels, minimizing lead times and maximizing service levels.



Support Capacity Planning – a window into what you would like to do against what can be done!



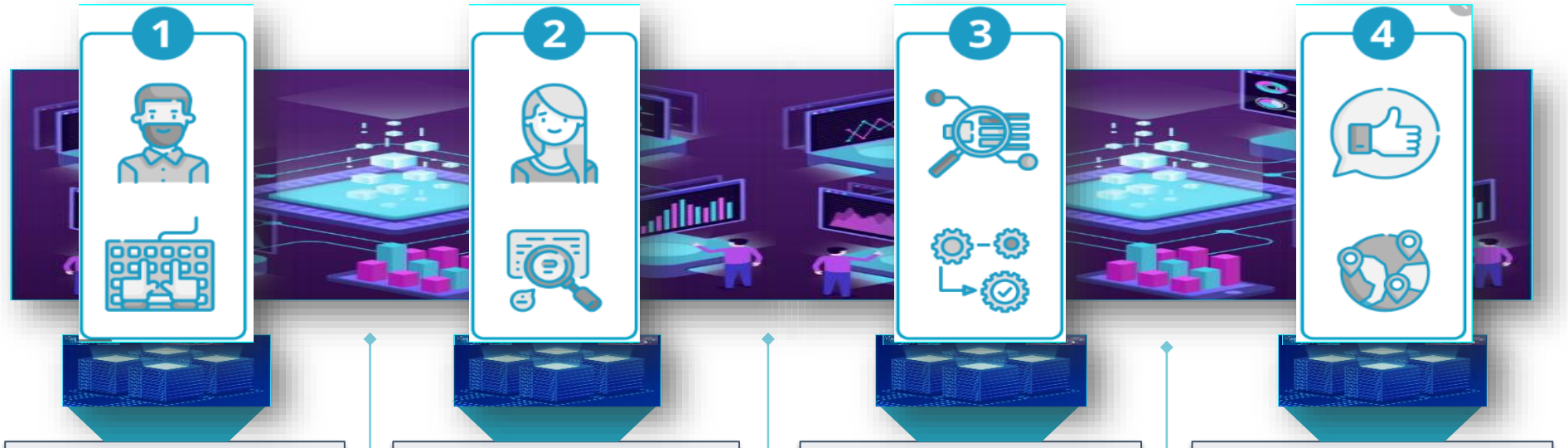
Support Detailed Scheduling – tells you what is 'doable'!

Support Costing – to close the MRP II loop with cost projections.

Support Production Execution – to close the shopfloor control cycle.

Must accurately play its role in an end-to-end supply chain

Quality Master Data



Agreed upon information shared across the organization.

Provides context to business activities/ transactions.

Maintains integration of business objects and processes in a supply chain.

Helps make sense of business activities through categorizations, groupings and prioritization.

Success Factors in PP Master Data

- **Impact of Accuracy:** Inaccurate data leads to a lack of purpose and becomes unused or unusable.
- **Impact of Validity:** Invalid data and you lose an important planning and decision-making tool. Validity must be derived from the process and not its outcome. Fix the process and the outcome is guaranteed!!
- **Impact of Relevance:** Data that is not relevant loses its importance.
- **Impact of Consistency:** Inconsistent data invariably leads to misaligned results. Accuracy standards must always be maintained.

- **Impact of Timeliness:** Data not received at the right time can't be used efficiently and becomes an inadequate source of information.
- **Impact of Completeness:** Missing or incomplete processes result in work-arounds. Development of unnecessary enhancements, negatively impacts understandability etc.
- **Impact of Reliability:** Robust data is predictable, insightful, powerful and a potential candidate for automation.

It is virtually impossible to manage any process that you cannot measure. The quality of what you measure is the key to a successful outcome.

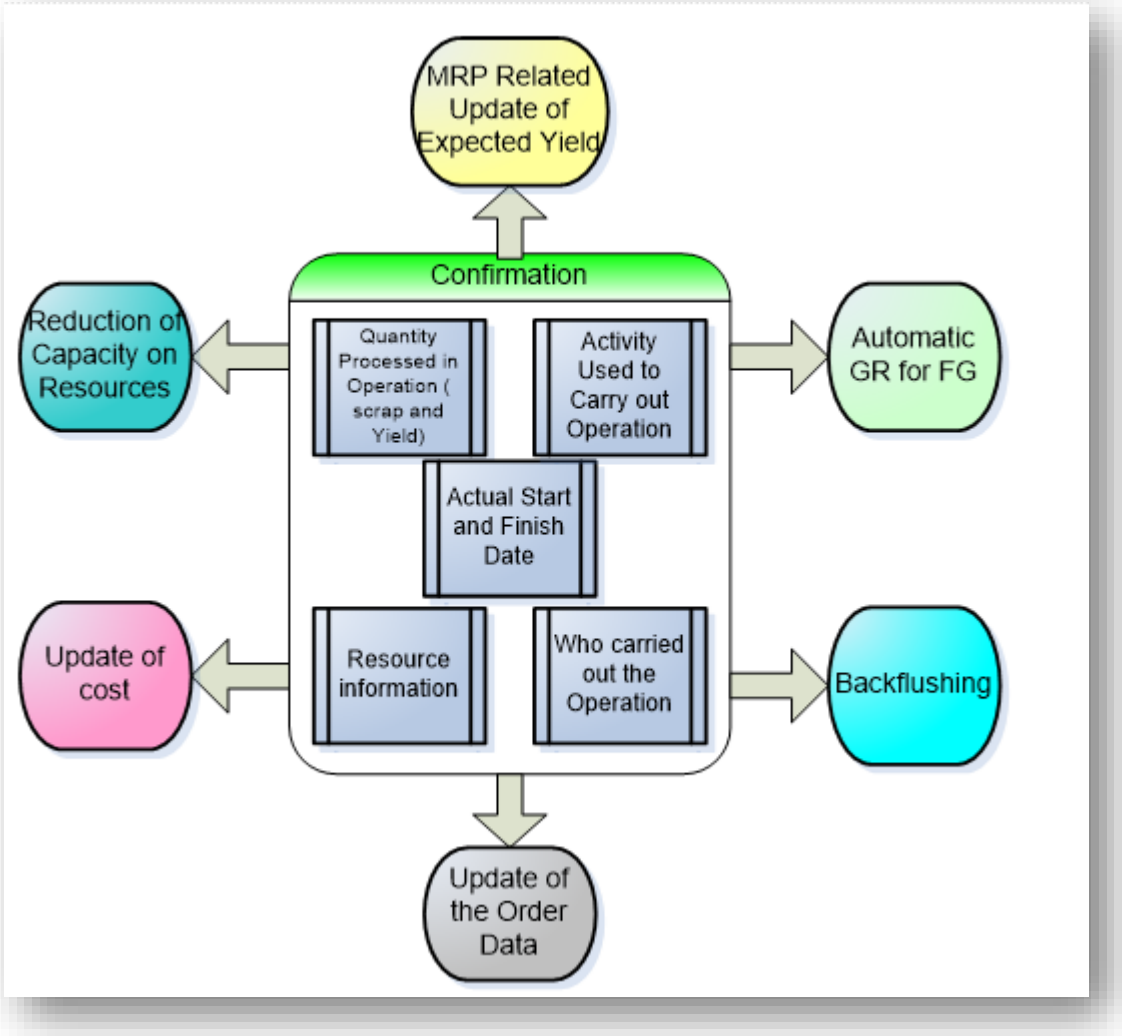
Shop Floor Control

Planning attends to the following functions:

- Planned orders
- Conversion of planned orders to process/production orders
- Production and process order scheduling
- Capacity requirements planning
- Material availability assessment
- Release of production/process orders

Shop floor control attends to the following functions:

- Material withdrawals
- Order confirmations
- Goods receipt documentation
- Order settlement/reconciliation



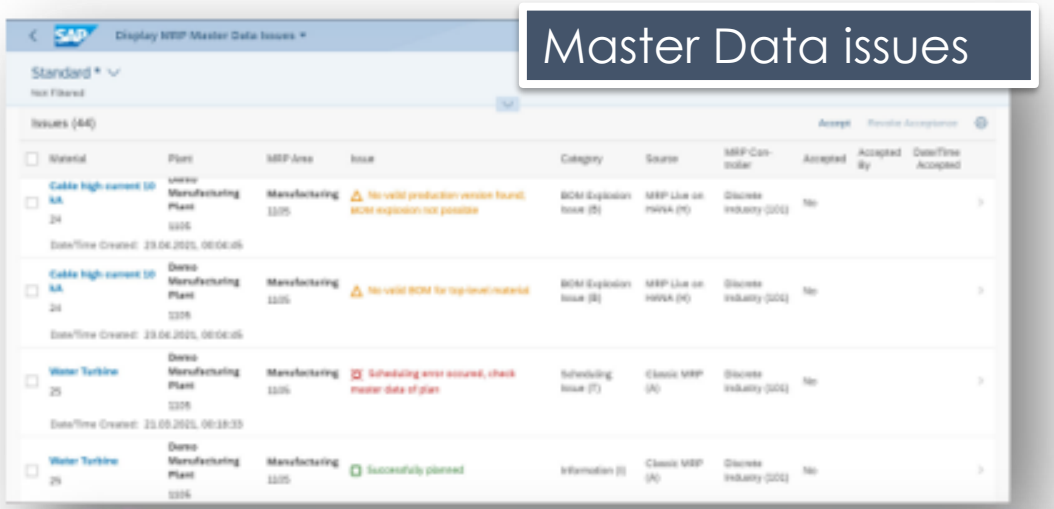
Work Center Capacity with Real Time Reporting

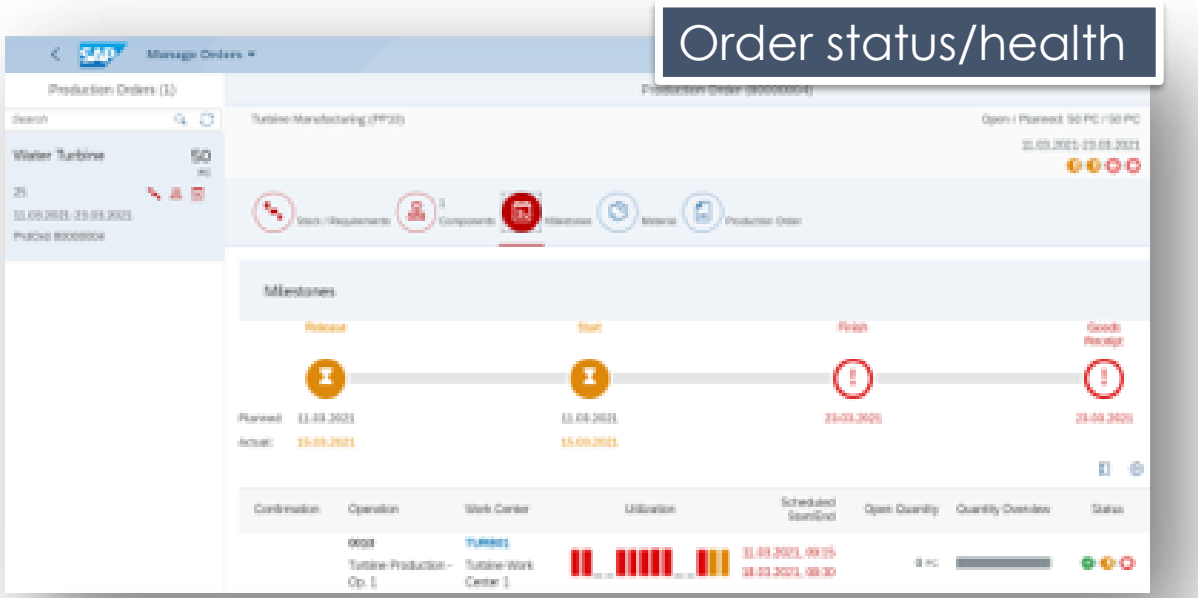
Work center CPC0701 Rack CPC0701
Capacity cat.: 001 MACHINE

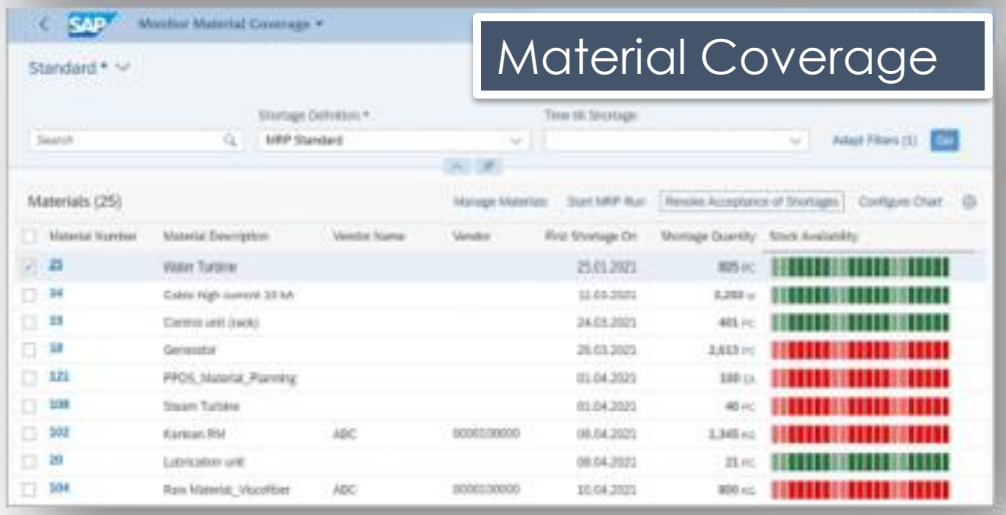
Week	Requirements	AvailCap.	CapLoad	RemAvailCap	Unit
39	1,953.65	1,919.98	102 %	33.67-	H
40	3,523.14	4,799.94	73 %	1,276.81	H
41	3,714.06	4,799.94	77 %	1,085.89	H
42	6,112.54	4,799.94	127 %	1,312.60-	H
43	973.93	4,799.94	20 %	3,826.02	H
44	2,439.45	4,799.94	51 %	2,360.49	H
45	1,196.54	4,799.94	25 %	3,603.41	H
46	2,105.53	4,799.94	44 %	2,694.41	H
47	3,469.03	4,799.94	72 %	1,330.92	H
48	1,780.89	2,879.97	62 %	1,099.07	H
Total >>>	27,268.75	43,199.50	63 %	15,930.75	H

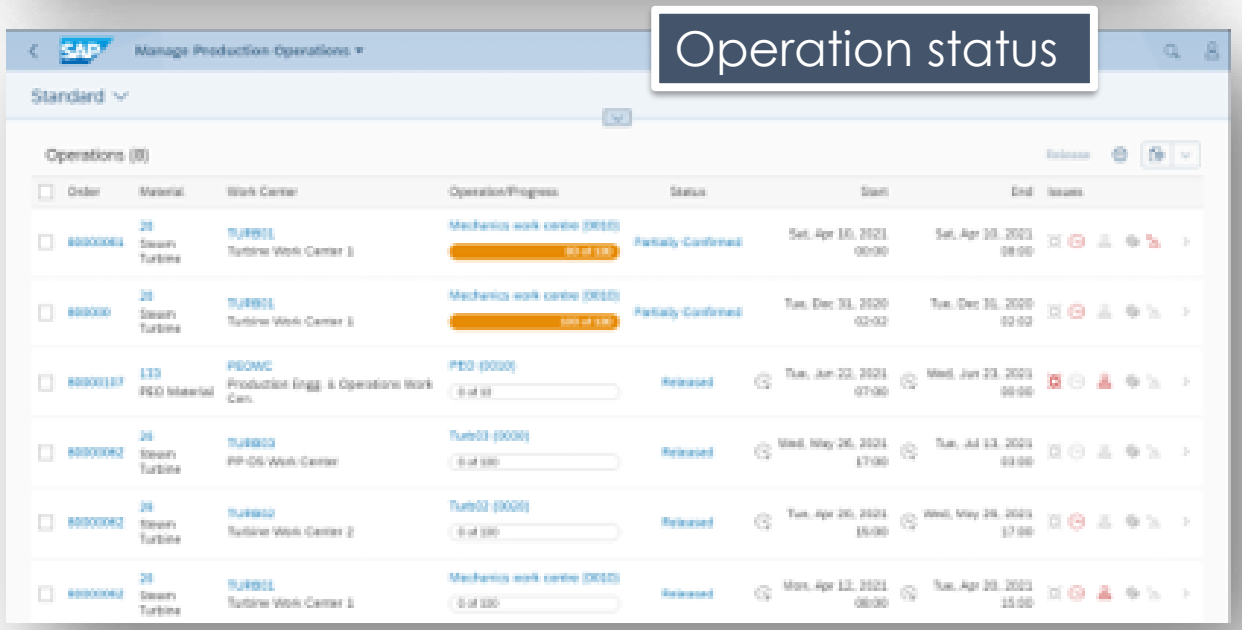
Week	P	LatestStrt	LtStExec	Material	Material description	MRP	Order	PgRqmtQty	Conf. qty	Scrap	Stat	Overall order status
Total									1,429 EA	0 EA		
39		09/21	00:12:00	138988BRB	SPOUT, BRB	S90	100091828	99 EA	0 EA	0 EA	CRTD	CRTD MSPT PRC SETC
39		09/21	11:34:00	138988SRS	SPOUT SRS	S98	100091615	840 EA	832 EA	0 EA	REL	REL PRT PCNF PRC
39		09/22	00:37:00	138988SRS	SPOUT SRS	S98	100091861	899 EA	573 EA	0 EA	REL	REL PRT PCNF PRC
39		09/23	23:16:10	176627NMBL	TRANS SPT BODY, SOAP DISP NM BL	S91	100092227	25 EA	24 EA	0 EA	REL	REL PRT PCNF PRC
39		09/24	04:43:24	138988SRS	SPOUT SRS	S98	100092478	899 EA	0 EA	0 EA	REL	REL PRT PRC MACM
39		09/24	18:16:31	138988BRB	SPOUT, BRB	S90		337 EA		0 EA	X	
39		09/24	21:57:28	169931BZ	SPOUT BODY, TRADITIONAL SOAP	SA2		25 EA		0 EA		
39		09/25	12:43:01	138988BRB	SPOUT, BRB	S90		840 EA		0 EA	X	
39		09/25	15:48:39	138988SRS	SPOUT SRS	S98		899 EA		0 EA	X	
39		09/25	21:40:44	176631BZ	TRAD SPT BODY, SOAP DISP BZ	S75		192 EA		0 EA	X	

The Future with Fiori







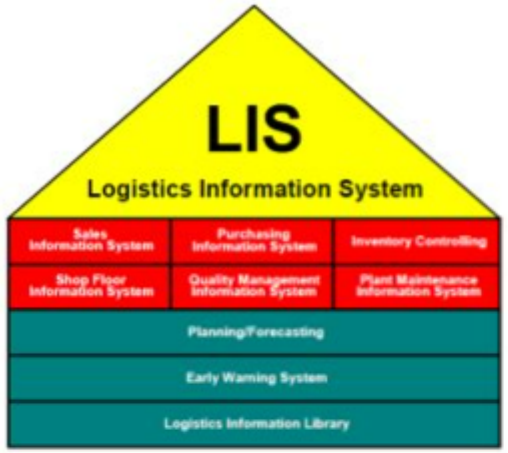


REVEAL

Topic 4

- Highlight some of the reports that enable us to hone in on efficiencies

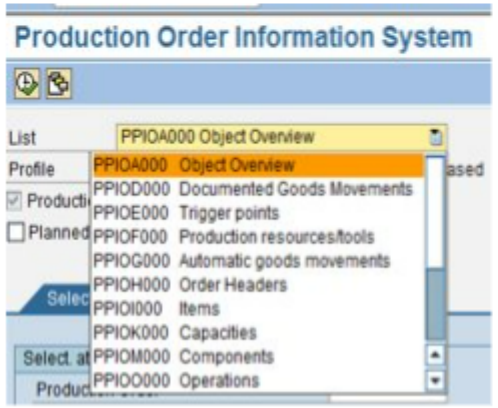
Different Types of Reporting



The LIS Reports contain summarized historical data that has been populated into "info structures" containing:

- Characteristics
- Key Figures
- Time unit

LIS Reports on historical production orders

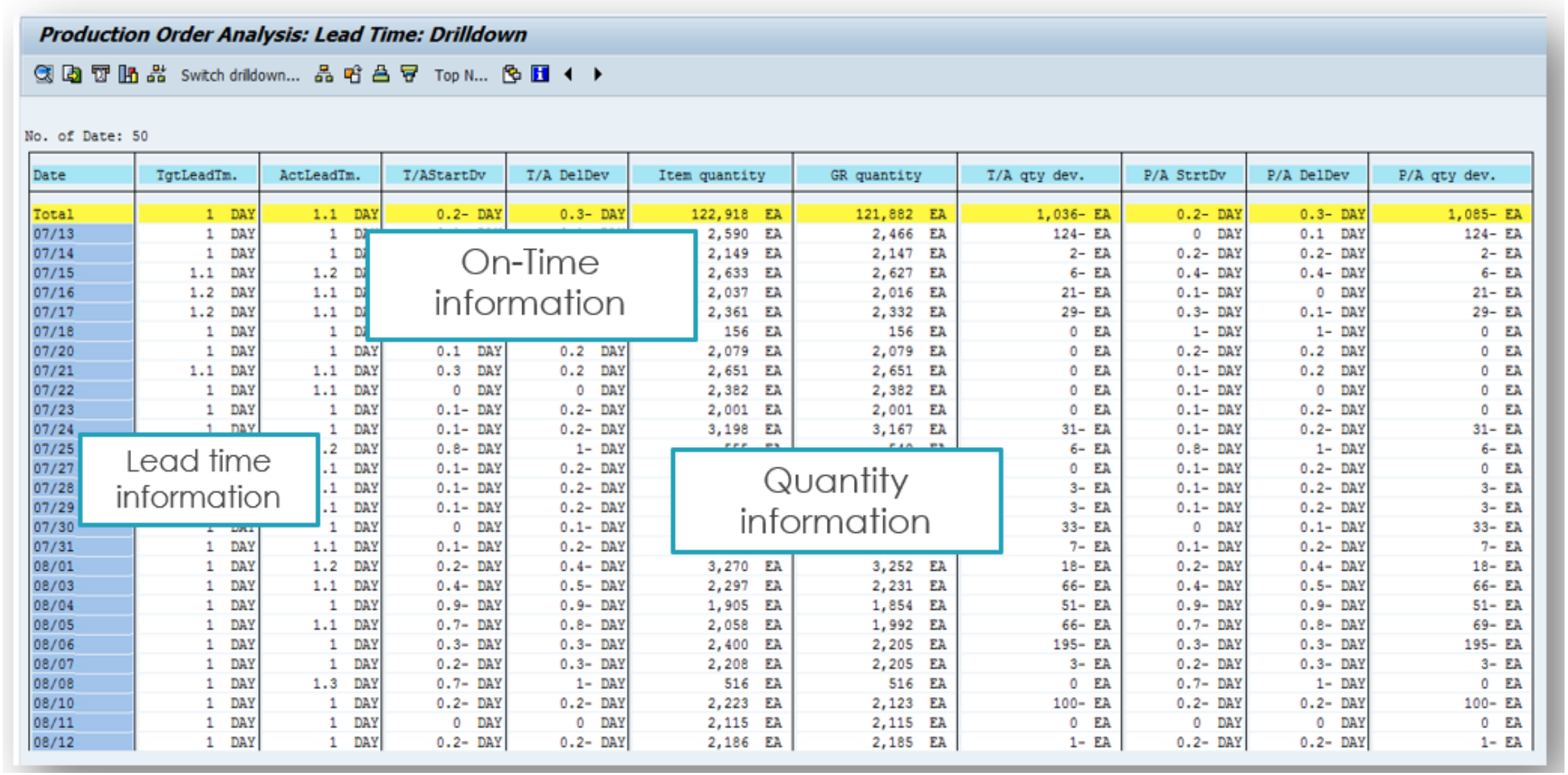


COOIS reports at the field level of Production Orders. Any object within the Production Order can be reported on:

- Order Header
- Order Operations
- Confirmations
- Goods Movements

COOIS reports on historical and current production orders

Discrete Work Centers Plan Vs Actual



Production Order Analysis: Lead Time: Drilldown

Switch drilldown... Top N...

No. of Date: 50

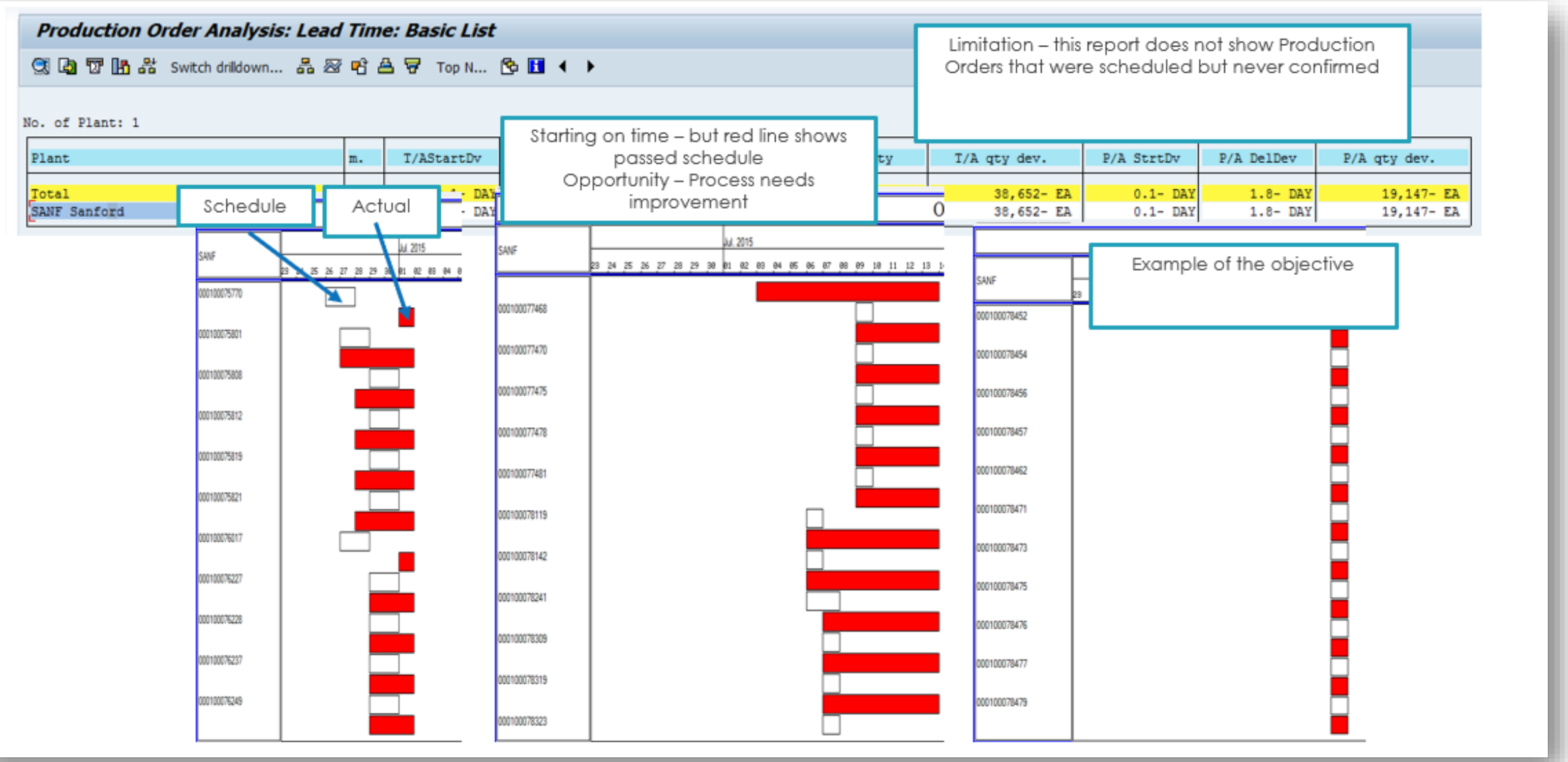
Date	TgtLeadTm.	ActLeadTm.	T/AStartDv	T/A DelDev	Item quantity	GR quantity	T/A qty dev.	P/A StrtDv	P/A DelDev	P/A qty dev.
Total	1 DAY	1.1 DAY	0.2- DAY	0.3- DAY	122,918 EA	121,882 EA	1,036- EA	0.2- DAY	0.3- DAY	1,085- EA
07/13	1 DAY	1 DAY			2,590 EA	2,466 EA	124- EA	0 DAY	0.1 DAY	124- EA
07/14	1 DAY	1 DAY			2,149 EA	2,147 EA	2- EA	0.2- DAY	0.2- DAY	2- EA
07/15	1.1 DAY	1.2 DAY			2,633 EA	2,627 EA	6- EA	0.4- DAY	0.4- DAY	6- EA
07/16	1.2 DAY	1.1 DAY			2,037 EA	2,016 EA	21- EA	0.1- DAY	0 DAY	21- EA
07/17	1.2 DAY	1.1 DAY			2,361 EA	2,332 EA	29- EA	0.3- DAY	0.1- DAY	29- EA
07/18	1 DAY	1 DAY			156 EA	156 EA	0 EA	1- DAY	1- DAY	0 EA
07/20	1 DAY	1 DAY	0.1 DAY	0.2 DAY	2,079 EA	2,079 EA	0 EA	0.2- DAY	0.2 DAY	0 EA
07/21	1.1 DAY	1.1 DAY	0.3 DAY	0.2 DAY	2,651 EA	2,651 EA	0 EA	0.1- DAY	0.2 DAY	0 EA
07/22	1 DAY	1.1 DAY	0 DAY	0 DAY	2,382 EA	2,382 EA	0 EA	0.1- DAY	0 DAY	0 EA
07/23	1 DAY	1 DAY	0.1- DAY	0.2- DAY	2,001 EA	2,001 EA	0 EA	0.1- DAY	0.2- DAY	0 EA
07/24	1 DAY	1 DAY	0.1- DAY	0.2- DAY	3,198 EA	3,167 EA	31- EA	0.1- DAY	0.2- DAY	31- EA
07/25	.2 DAY	0.8- DAY	1- DAY				6- EA	0.8- DAY	1- DAY	6- EA
07/27	.1 DAY	0.1- DAY	0.2- DAY				0 EA	0.1- DAY	0.2- DAY	0 EA
07/28	.1 DAY	0.1- DAY	0.2- DAY				3- EA	0.1- DAY	0.2- DAY	3- EA
07/29	.1 DAY	0.1- DAY	0.2- DAY				3- EA	0.1- DAY	0.2- DAY	3- EA
07/30	1 DAY	0 DAY	0.1- DAY				33- EA	0 DAY	0.1- DAY	33- EA
07/31	1 DAY	1.1 DAY	0.1- DAY	0.2- DAY			7- EA	0.1- DAY	0.2- DAY	7- EA
08/01	1 DAY	1.2 DAY	0.2- DAY	0.4- DAY	3,270 EA	3,252 EA	18- EA	0.2- DAY	0.4- DAY	18- EA
08/03	1 DAY	1.1 DAY	0.4- DAY	0.5- DAY	2,297 EA	2,231 EA	66- EA	0.4- DAY	0.5- DAY	66- EA
08/04	1 DAY	1 DAY	0.9- DAY	0.9- DAY	1,905 EA	1,854 EA	51- EA	0.9- DAY	0.9- DAY	51- EA
08/05	1 DAY	1.1 DAY	0.7- DAY	0.8- DAY	2,058 EA	1,992 EA	66- EA	0.7- DAY	0.8- DAY	69- EA
08/06	1 DAY	1 DAY	0.3- DAY	0.3- DAY	2,400 EA	2,205 EA	195- EA	0.3- DAY	0.3- DAY	195- EA
08/07	1 DAY	1 DAY	0.2- DAY	0.3- DAY	2,208 EA	2,205 EA	3- EA	0.2- DAY	0.3- DAY	3- EA
08/08	1 DAY	1.3 DAY	0.7- DAY	1- DAY	516 EA	516 EA	0 EA	0.7- DAY	1- DAY	0 EA
08/10	1 DAY	1 DAY	0.2- DAY	0.2- DAY	2,223 EA	2,123 EA	100- EA	0.2- DAY	0.2- DAY	100- EA
08/11	1 DAY	1 DAY	0 DAY	0 DAY	2,115 EA	2,115 EA	0 EA	0 DAY	0 DAY	0 EA
08/12	1 DAY	1 DAY	0.2- DAY	0.2- DAY	2,186 EA	2,185 EA	1- EA	0.2- DAY	0.2- DAY	1- EA

On-Time information

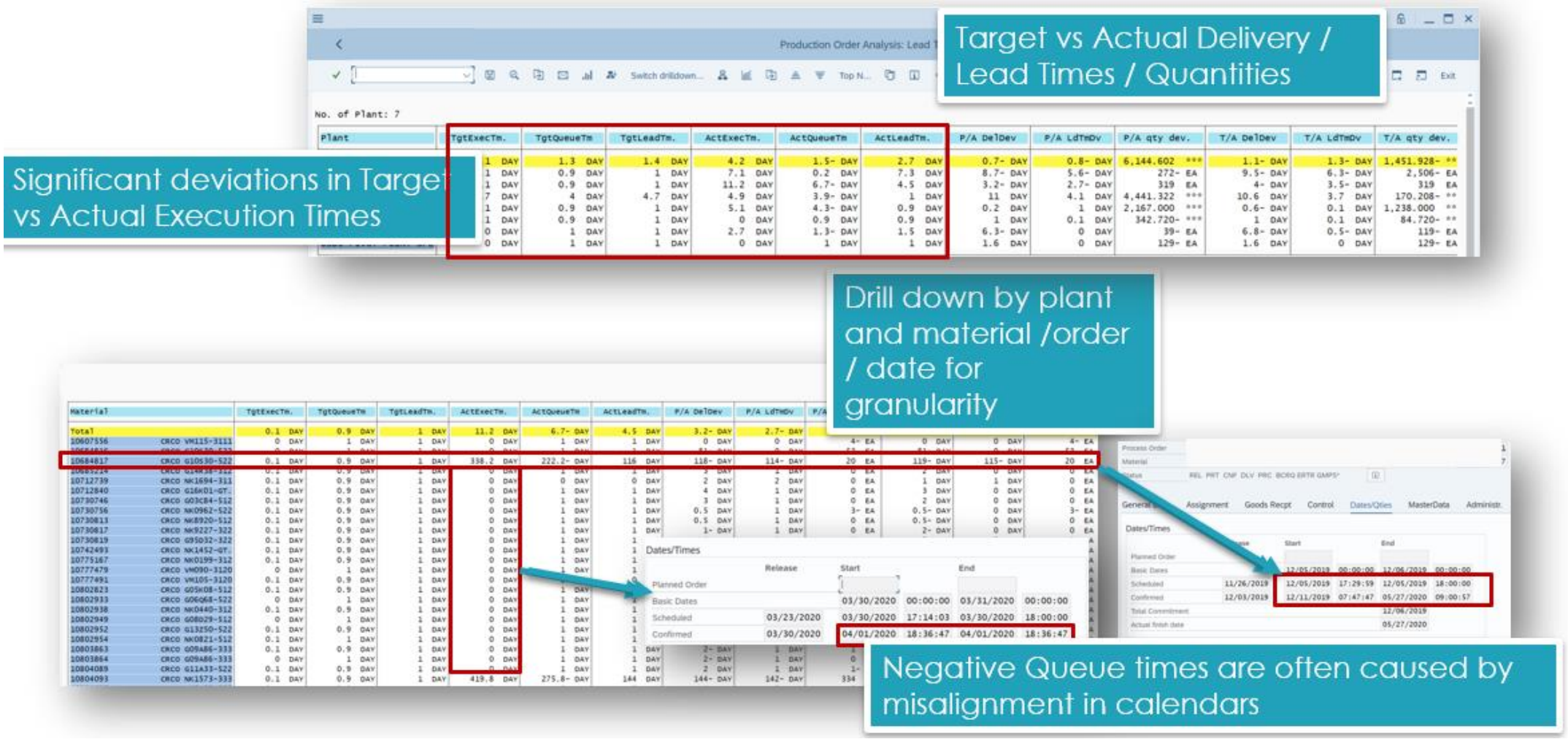
Lead time information

Quantity information

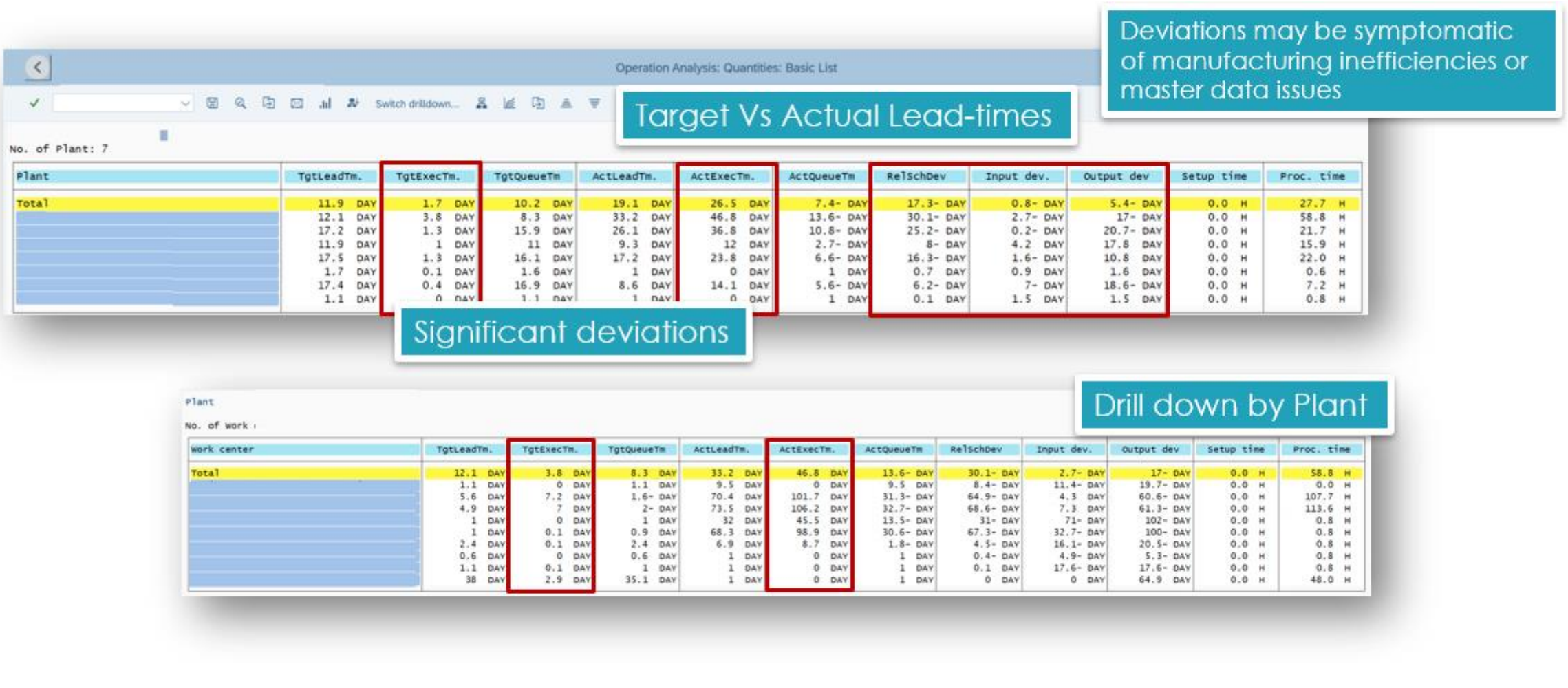
Reporting Schedule Attainment



Production Order Analysis

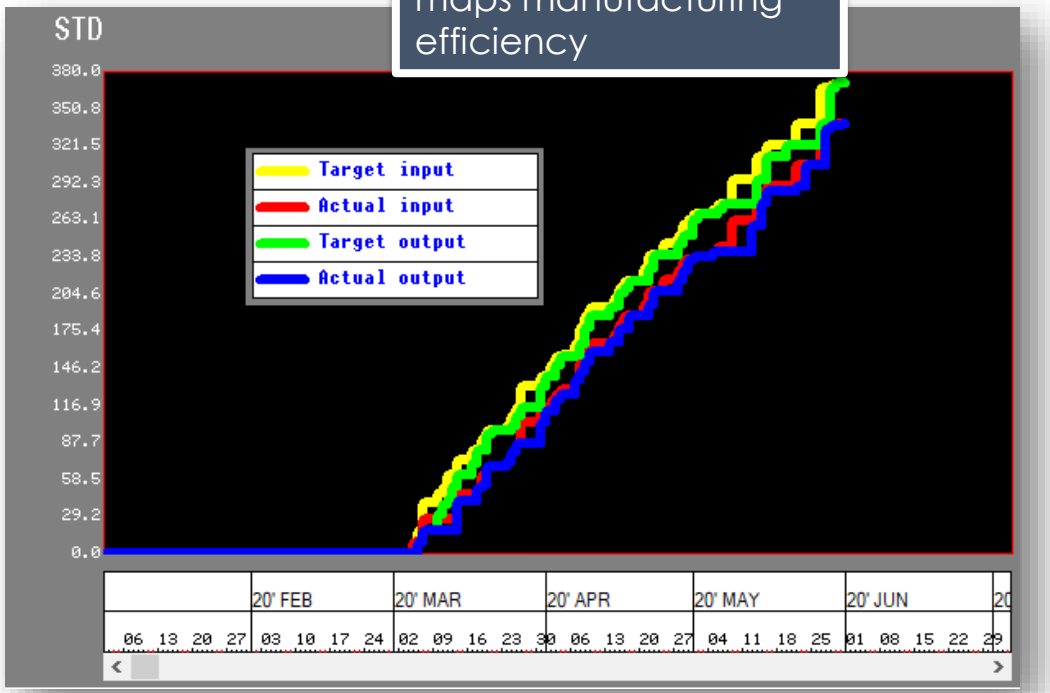


Operations Analysis

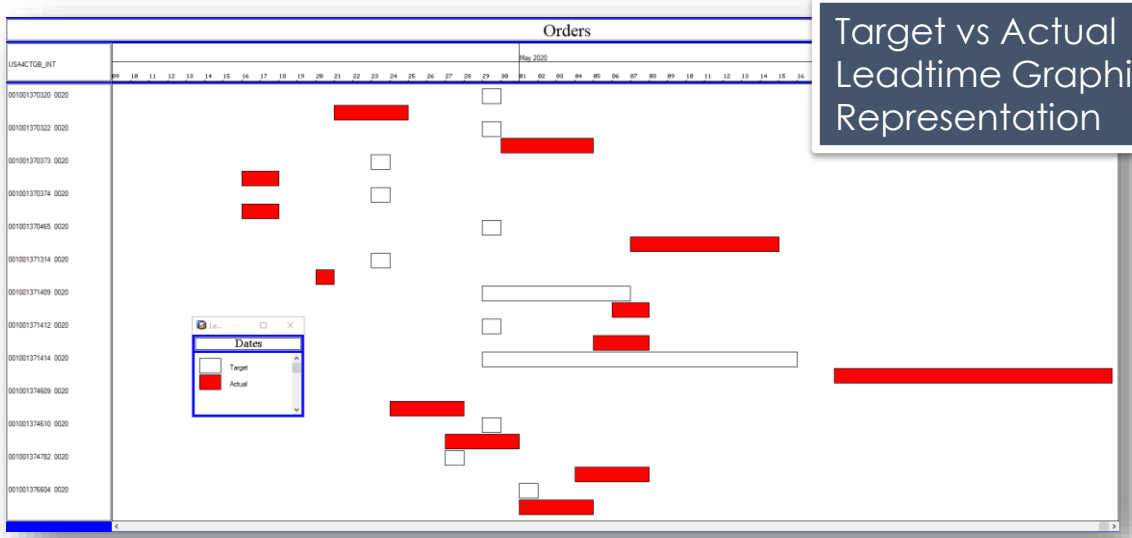


Making It Visual

Input/Output Diagrams maps manufacturing efficiency



Target vs Actual Leadtime Graphical Representation



Wrap-up

"If you fail to plan, you are planning to fail!"

Plan so you address the 'what' and 'how' of your data and production process(es).

"Planning reduces delays during jobs"

Schedule so you address the 'who' and 'when' governed by your process capability.

"Scheduling reduces delays between jobs"

Close the loop with real time reporting and analytics.
Using SAP as a Single Source of Truth Promotes Flow.

REVEAL

Where to Find More Information

- www.revealvalue.com/white-papers/maximizing-production-throughput
  - White paper on maximizing production throughput through to improve market share
- Goldratt, Eliyahu M. Theory of Constraints. North Rivers Press, 1990.
- www.revealvalue.com/white-papers/exception-monitoring-leads-improvement
  - White paper on 4 ways exception monitoring leads to continuous improvement

Key Points to Take Home

- The efficient flow of relevant data enables the efficient flow of materials
- SAP supports improved throughput and de-bottlenecking of resources natively
- We control the quality and impact of that reporting and analytics with the quality of our data
- Integration is key
- Align Plan->Schedule->Actual to bring the supply chain into harmony

REVEAL

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Thank you!
Any Questions?

Please remember to complete your session evaluation.

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