Pas-7833

Digitalization

EXOR helps SMEs grow in a market that requires ever faster response times

Market continues to demand ever faster responses

More rapid product innovation

More customization of product

Faster Component switching

Timely Technical Support

Predictive technical support

Reduced delivery times

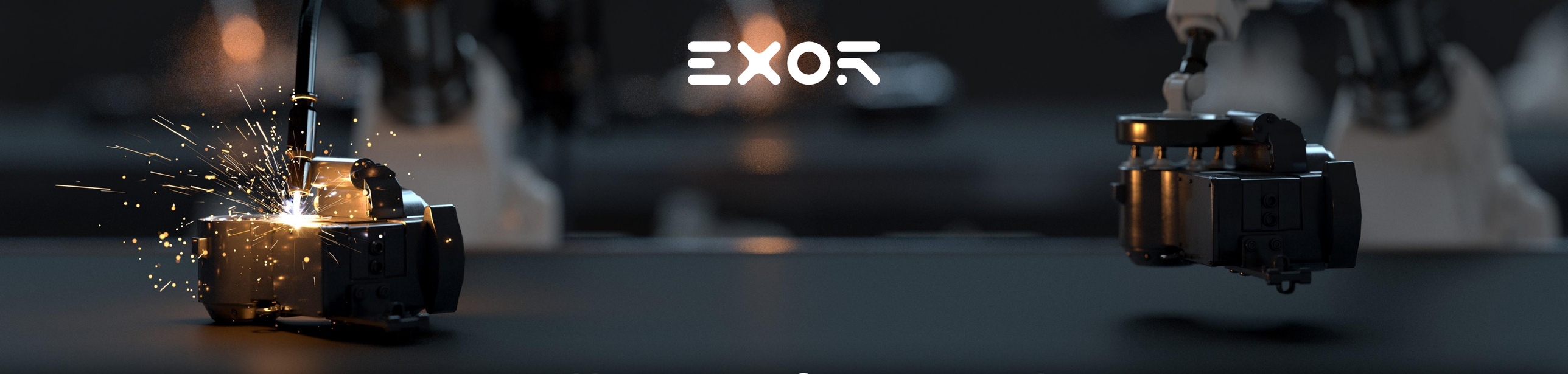
Shipment Accuracy and rapid updates

Workforce Management

Shorter Production runs

Rapid production issue resolution

Access to Real time data



Three pillars of Digitalization

Real Time Data

The Data finds you

The Conversations change

ATE TEST

Board ATE test Analyse quality and acceptability of the main fault-risky components before moving them into the production line.

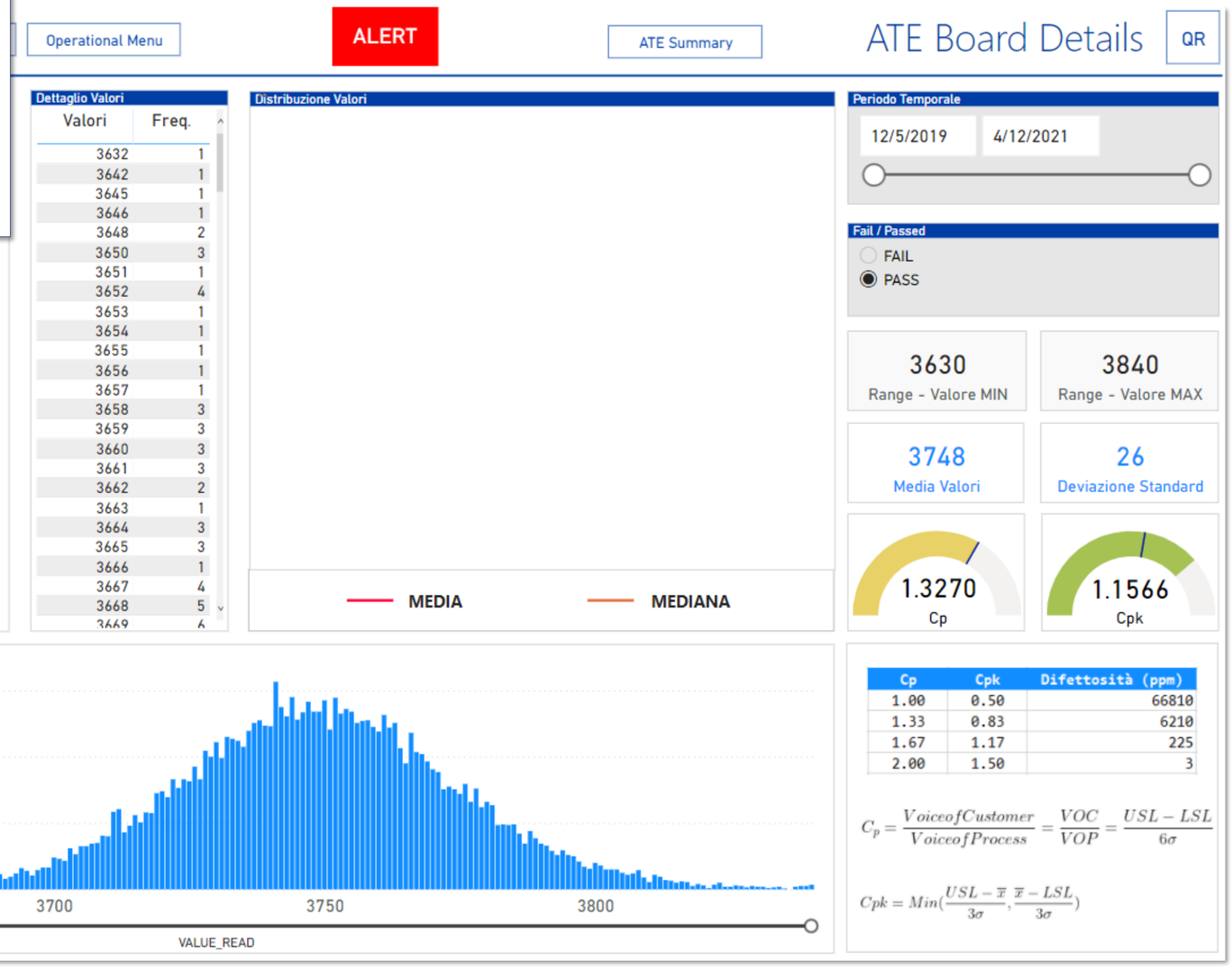
DROP OF FAULTY COMPONENTS DURING THE PRODUCTION PROCESS FROM 2,5% TO 0.2%

SEVERAL HOURS TO INTERCEPT A SPECIFIC TEST VALUE AND MANUALLY RUN STATS ON IT (DATA SAVED ON FILES)

3.0 (2018)

REAL TIME CLOUD DATA ACQUISITION FROM THE FIELD, REAL TIME ANALYSIS AND WARNINGS

4.0 (2020)



Cp	Cpk	Difettosità (ppm)
1.00	0.50	66810
1.33	0.83	6210
1.67	1.17	225
2.00	1.50	3

$$C_p = \frac{Voice of Customer}{Voice of Process} = \frac{VOC}{VOP} = \frac{USL - LSL}{6\sigma}$$

$$Cpk = Min\left(\frac{USL - \bar{x}}{3\sigma}, \frac{\bar{x} - LSL}{3\sigma}\right)$$

REAL TIME PRODUCTION PROGRESS

Real time view of both the Made-To-Stock and Made-To-Order production areas, estimated time of completion including backlog.

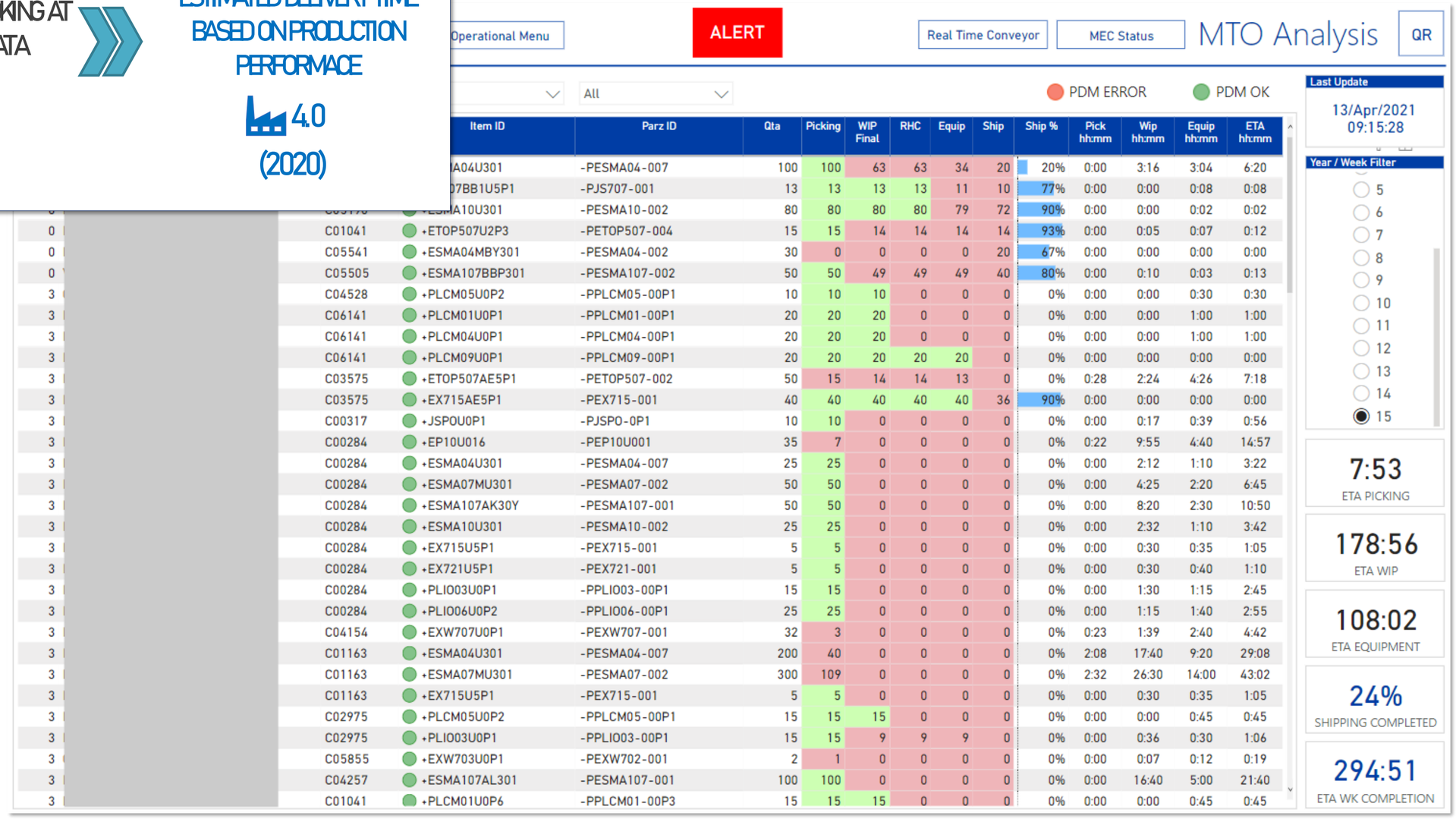
OPERATION DECISION STEERING PACE: FROM 1 DAY ANALYSIS TO 10 MIN KANBAN MEETING

CONSOLIDATED AT THE END OF THE WORKING DAY, WHICH MEANS ALWAYS LOOKING AT YESTERDAY'S DATA

3.0
(2016)

REAL TIME DATA AND ESTIMATED DELIVERY TIME BASED ON PRODUCTION PERFORMACE

4.0
(2020)



		Item ID	Parz ID	Qta	Picking	WIP Final	RHC	Equip	Ship	Ship %	Pick hh:mm	Wip hh:mm	Equip hh:mm	ETA hh:mm
		A04U301	-PESMA04-007	100	100	63	63	34	20	20%	0:00	3:16	3:04	6:20
		07BB1U5P1	-PJS707-001	13	13	13	13	11	10	77%	0:00	0:00	0:08	0:08
		A10U301	-PESMA10-002	80	80	80	80	79	72	90%	0:00	0:00	0:02	0:02
0		C01041	+ETOP507U2P3	-PETOP507-004	15	15	14	14	14	14	93%	0:00	0:05	0:07	0:12
0		C05541	+ESMA04MBY301	-PESMA04-002	30	0	0	0	0	20	67%	0:00	0:00	0:00	0:00
0		C05505	+ESMA107BBP301	-PESMA107-002	50	50	49	49	49	40	80%	0:00	0:10	0:03	0:13
3		C04528	+PLCM05U0P2	-PPLCM05-00P1	10	10	10	0	0	0	0%	0:00	0:00	0:30	0:30
3		C06141	+PLCM01U0P1	-PPLCM01-00P1	20	20	20	0	0	0	0%	0:00	0:00	1:00	1:00
3		C06141	+PLCM04U0P1	-PPLCM04-00P1	20	20	20	0	0	0	0%	0:00	0:00	1:00	1:00
3		C06141	+PLCM09U0P1	-PPLCM09-00P1	20	20	20	20	20	0	0%	0:00	0:00	0:00	0:00
3		C03575	+ETOP507AE5P1	-PETOP507-002	50	15	14	14	13	0	0%	0:28	2:24	4:26	7:18
3		C03575	+EX715AE5P1	-PEX715-001	40	40	40	40	40	36	90%	0:00	0:00	0:00	0:00
3		C00317	+JSPOU0P1	-PJSPO-0P1	10	10	0	0	0	0	0%	0:00	0:17	0:39	0:56
3		C00284	+EP10U016	-PEP10U001	35	7	0	0	0	0	0%	0:22	9:55	4:40	14:57
3		C00284	+ESMA04U301	-PESMA04-007	25	25	0	0	0	0	0%	0:00	2:12	1:10	3:22
3		C00284	+ESMA07MU301	-PESMA07-002	50	50	0	0	0	0	0%	0:00	4:25	2:20	6:45
3		C00284	+ESMA107AK30Y	-PESMA107-001	50	50	0	0	0	0	0%	0:00	8:20	2:30	10:50
3		C00284	+ESMA10U301	-PESMA10-002	25	25	0	0	0	0	0%	0:00	2:32	1:10	3:42
3		C00284	+EX715U5P1	-PEX715-001	5	5	0	0	0	0	0%	0:00	0:30	0:35	1:05
3		C00284	+EX721U5P1	-PEX721-001	5	5	0	0	0	0	0%	0:00	0:30	0:40	1:10
3		C00284	+PLIO03U0P1	-PPLIO03-00P1	15	15	0	0	0	0	0%	0:00	1:30	1:15	2:45
3		C00284	+PLIO06U0P2	-PPLIO06-00P1	25	25	0	0	0	0	0%	0:00	1:15	1:40	2:55
3		C04154	+EXW707U0P1	-PEXW707-001	32	3	0	0	0	0	0%	0:23	1:39	2:40	4:42
3		C01163	+ESMA04U301	-PESMA04-007	200	40	0	0	0	0	0%	2:08	17:40	9:20	29:08
3		C01163	+ESMA07MU301	-PESMA07-002	300	109	0	0	0	0	0%	2:32	26:30	14:00	43:02
3		C01163	+EX715U5P1	-PEX715-001	5	5	0	0	0	0	0%	0:00	0:30	0:35	1:05
3		C02975	+PLCM05U0P2	-PPLCM05-00P1	15	15	15	0	0	0	0%	0:00	0:00	0:45	0:45
3		C02975	+PLIO03U0P1	-PPLIO03-00P1	15	15	9	9	9	0	0%	0:00	0:36	0:30	1:06
3		C05855	+EXW703U0P1	-PEXW702-001	2	1	0	0	0	0	0%	0:00	0:07	0:12	0:19
3		C04257	+ESMA107AL301	-PESMA107-001	100	100	0	0	0	0	0%	0:00	16:40	5:00	21:40
3		C01041	+PLCM01U0P6	-PPLCM01-00P3	15	15	15	0	0	0	0%	0:00	0:00	0:45	0:45

WORKFORCE

Production time VS Man/hour saturation index.

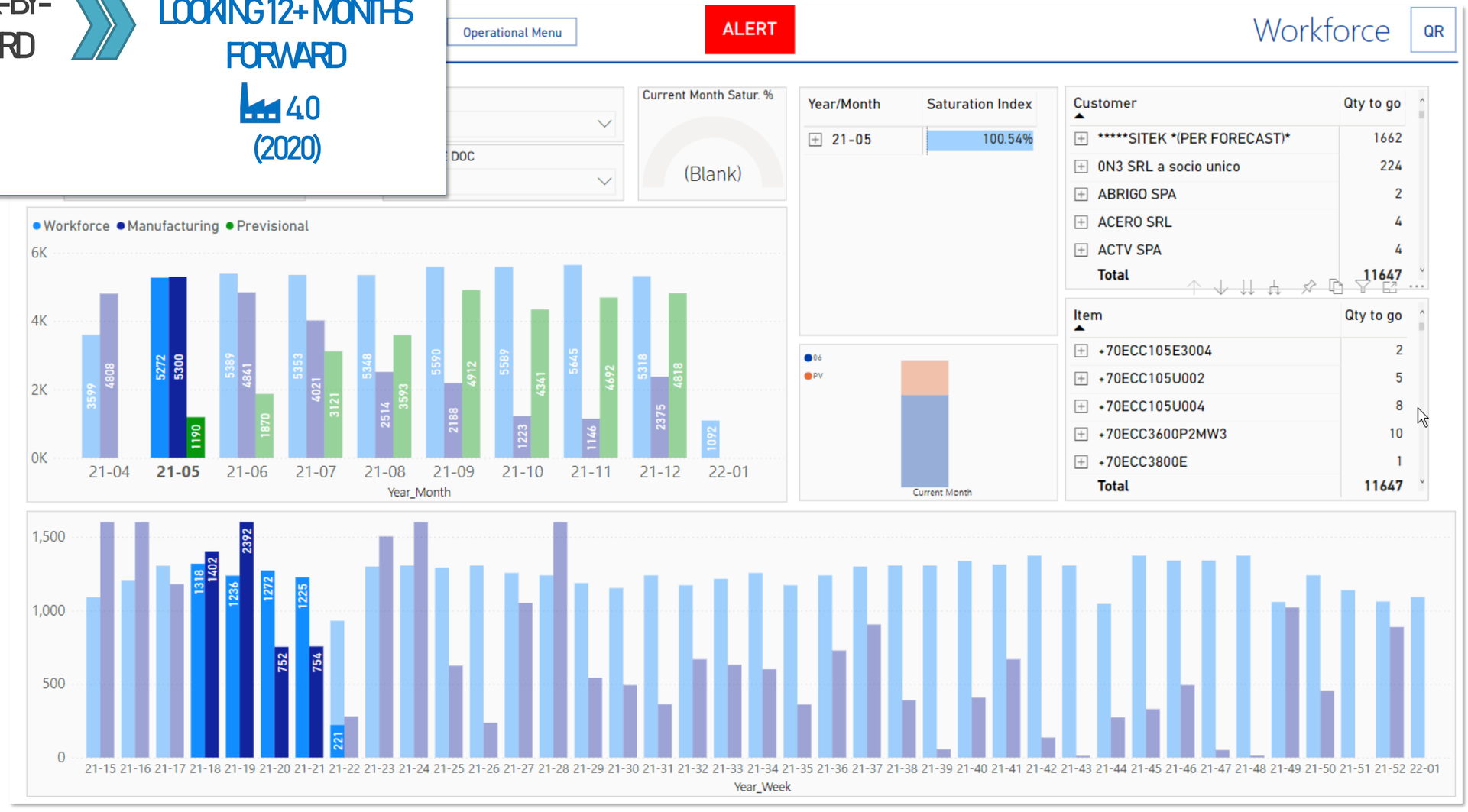
PRODUCTION MANAGER WORKING HOURS SAVING ON PRODUCTION PLANNING: 50%

MANUAL LOOKING WEEK-BY-WEEK FORWARD

3.0 (2014)

AUTOMATIC, DAILY, LOOKING 12+ MONTHS FORWARD

4.0 (2020)



Steps to Digitalization

Organize EXOR Meeting

Decide on POC

Engage your People

Enlarge the project