

GAPS Inventory Health Check

Zentral-Lager in xxx

Firma xxx

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Ausgangslage

- Lagerstandort Konstanz
- Anzahl Artikel: 13'039
- Gelagerter Gesamtwert: 16,584 Mill. EUR
- Erreichter beta-Servicegrad: 90.4%
- Problem 1
- Problem 2
- Problem 3

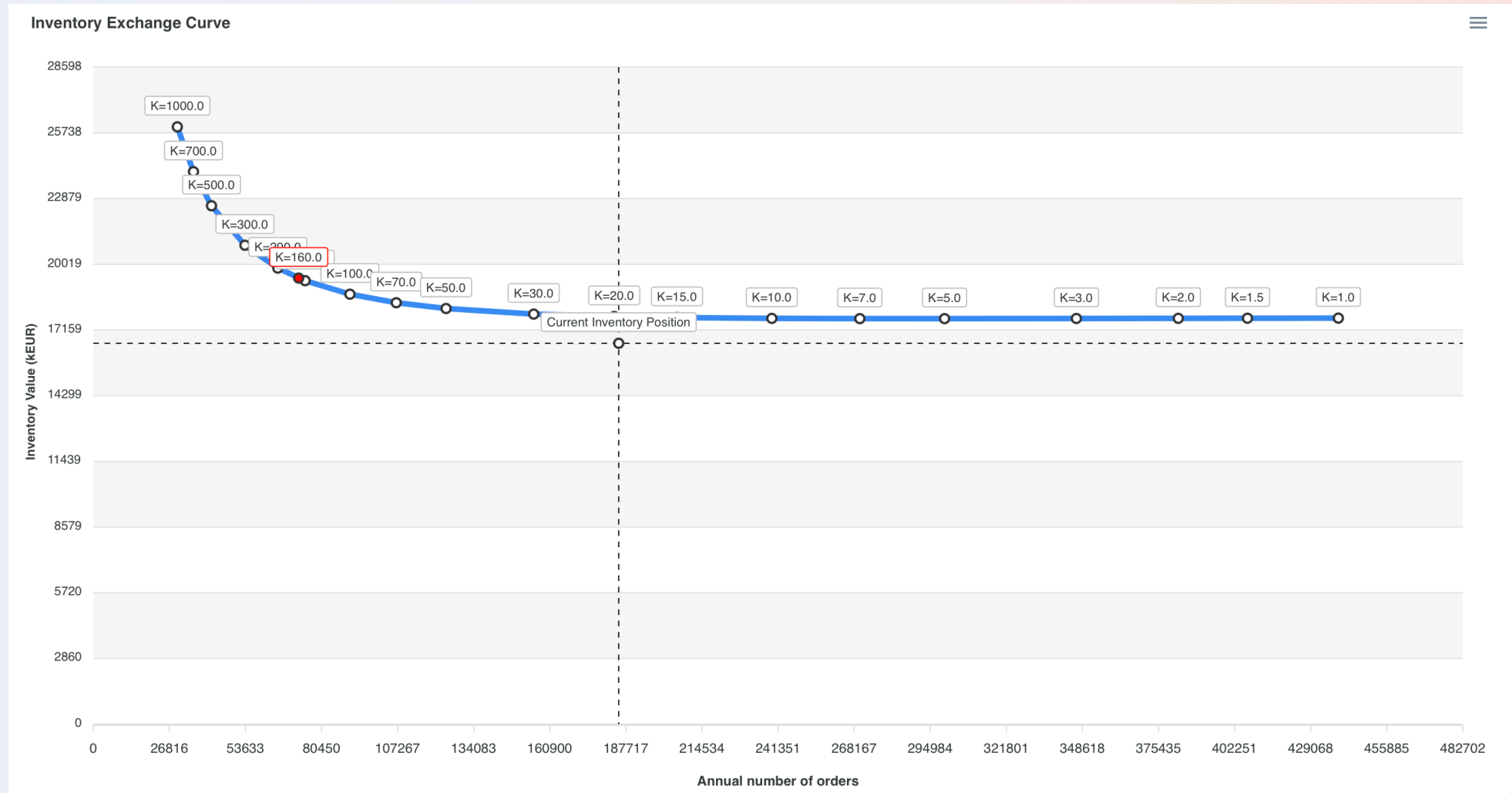
Verwendete Daten

- Stammdaten (13'039 Artikel)
 - Artikelnummer, Beschreibung, Einkaufspreis, Lieferzeit
 - Minimal-Bestände, Maximal-Bestände, Losgrößen, Mindestbestellmengen, Materialart, Dispogruppe, aktueller Bestände
- Outbound-Transaktionsdaten (02.01.2018– 29.12.2019)
- Inbound-Transaktionsdaten (02.01.2018– 29.12.2019)
- Bestände (Stand 29.12.2019)

Verwendete Parameter

- Ziel-Servicegrad
 - beta-95%
- Lagerhaltungskostensatz
 - 15%
- Inbound-Bestellkosten (geschätzt)
 - 12 EUR
- Lieferzeiten und Lieferzeit-Schwankungen
 - Laut Stammdaten
- Lager-Restriktionen
 - keine

Optimierungspotential



Ergebnis-Übersicht

				Optimal Policy				Actual Policy				Delta
Class	Cycle Time	Items	Annual Usage	Orders	Cycle Stock	Buffer Stock	Avg. Stock	Orders	Cycle Stock	Buffer Stock	Current Stock	Excess Stock
	days	#	kEUR	#	kEUR	kEUR	kEUR	#	kEUR	kEUR	kEUR	kEUR
K1	5	181	210'341	13'968	2'428	4'751	5'965	23'840	1'990	571	6'334	834
K2	10	472	98'066	16'415	2'795	3'438	4'836	40'398	1'848	1'174	3'659	-651
K3	20	940	50'404	16'461	2'887	2'426	3'870	46'553	2'028	2'504	3'188	-164
K4	40	1'414	19'715	12'499	2'320	1'455	2'615	33'868	1'819	2'948	1'871	-181
K5	80	1'669	6'014	7'365	1'453	630	1'357	19'836	1'202	4'108	991	87
K6	160	4'657	1'801	5'688	1'082	232	773	20'144	658	5'014	541	131
NU		3'706	0	0	0	0	0	546	0	0	0	0
Total		13'039	386'342	72'395	12'966	12'933	19'416	185'186	9'544	16'319	16'584	55

Gruppierte Ergebnisse

Gruppierte Resultate I

ABC Value - XYZ classification

	X	Y	Z	Total
A	1'139	108	6	1'253
B	1'660	757	161	2'578
C	908	2'109	2'485	5'502
Total	3'707	2'974	2'652	9'333

ABC Quantity - XYZ classification

	X	Y	Z	Total
QA	603	33	2	638
QB	1'206	458	54	1'718
QC	1'898	2'483	2'596	6'977
Total	3'707	2'974	2'652	9'333

ABC Value - ABC Quantity classification

	QA	QB	QC	Total
A	325	631	297	1'253
B	270	688	1'620	2'578
C	43	399	5'060	5'502
Total	638	1'718	6'977	9'333

Gruppierte Resultate II

Demand Trend

	Count	%
strong negative trend	36	0.39
negative trend	176	1.89
no trend	8'557	91.69
positive trend	492	5.27
strong positive trend	72	0.77

Demand Seasonality

	Count	%
no seasonality	4'007	91.59
weak seasonality	161	3.68
medium seasonality	84	1.92
strong seasonality	66	1.51
very strong seasonality	57	1.30

Demand Sporadicity

	Count	%
no sporadicity	0	0.00
weak sporadicity	111	1.19
medium sporadicity	1'059	11.35
strong sporadicity	2'837	30.40
very strong sporadicity	5'326	57.07

Gruppierte Resultate III

Demand Gaps			Demand Clusters			Starters and Stoppers		
	Count	%		Count	%		Count	%
no gaps	4'295	51.37	very homogeneous	761	8.22	no starter or stopper	6'372	68.27
only small gaps	3'108	37.17	homogeneous	888	9.59	starter	1'395	14.95
medium gaps	541	6.47	indifferent	397	4.29	stopper	599	6.42
big gaps	234	2.80	inhomogeneous	481	5.20	starter and stopper	967	10.36
huge gaps	183	2.19	very inhomogeneous	468	5.06			

Gruppierte Resultate IV

				Optimal Policy				Actual Policy				Delta
Class	Cycle Time	Items	Annual Usage	Orders	Cycle Stock	Buffer Stock	Avg. Stock	Orders	Cycle Stock	Buffer Stock	Current Stock	Excess Stock
	days	#	kEUR	#	kEUR	kEUR	kEUR	#	kEUR	kEUR	kEUR	kEUR
FERT		5'692	208'889	36'593	6'533	5'944	9'210	87'545	4'593	8'257	9'019	1'004
HALB		3'355	80'571	15'947	2'836	2'119	3'537	57'254	1'538	1'721	2'534	-171
EKTL		2'109	36'806	8'585	1'468	1'868	2'602	19'854	1'144	2'204	1'804	-393
HAWA		1'663	46'445	9'844	1'865	2'404	3'337	19'473	1'727	3'494	2'412	-515
Others		220	13'631	1'425	264	598	730	1'061	541	642	814	130
Total		13'039	386'342	72'395	12'966	12'933	19'416	185'186	9'544	16'319	16'584	55

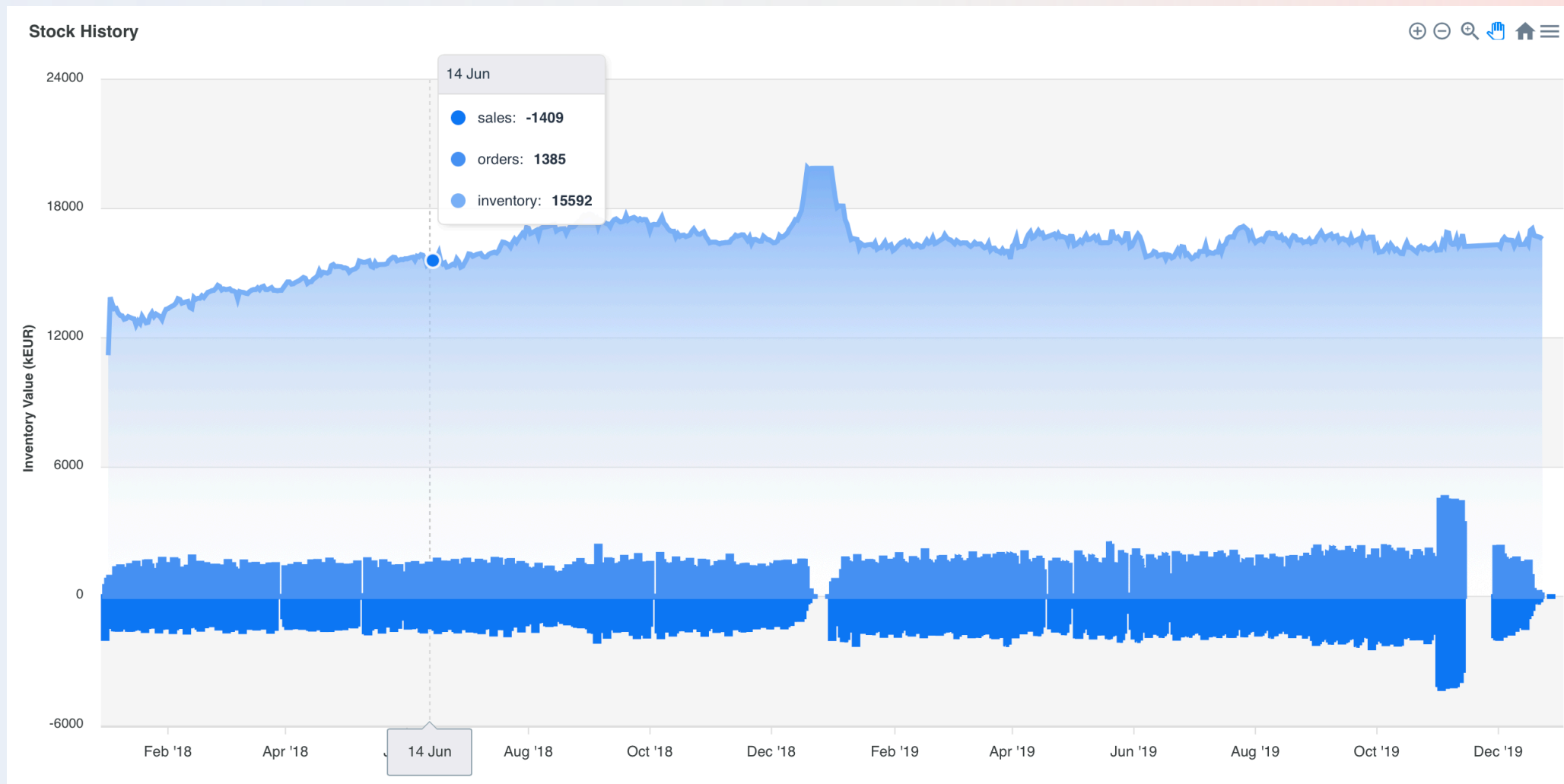
Bestandsverläufe

Historisch

Simulation statisch

Simulation dynamisch mit Prognosen

Historischer Bestandsverlauf

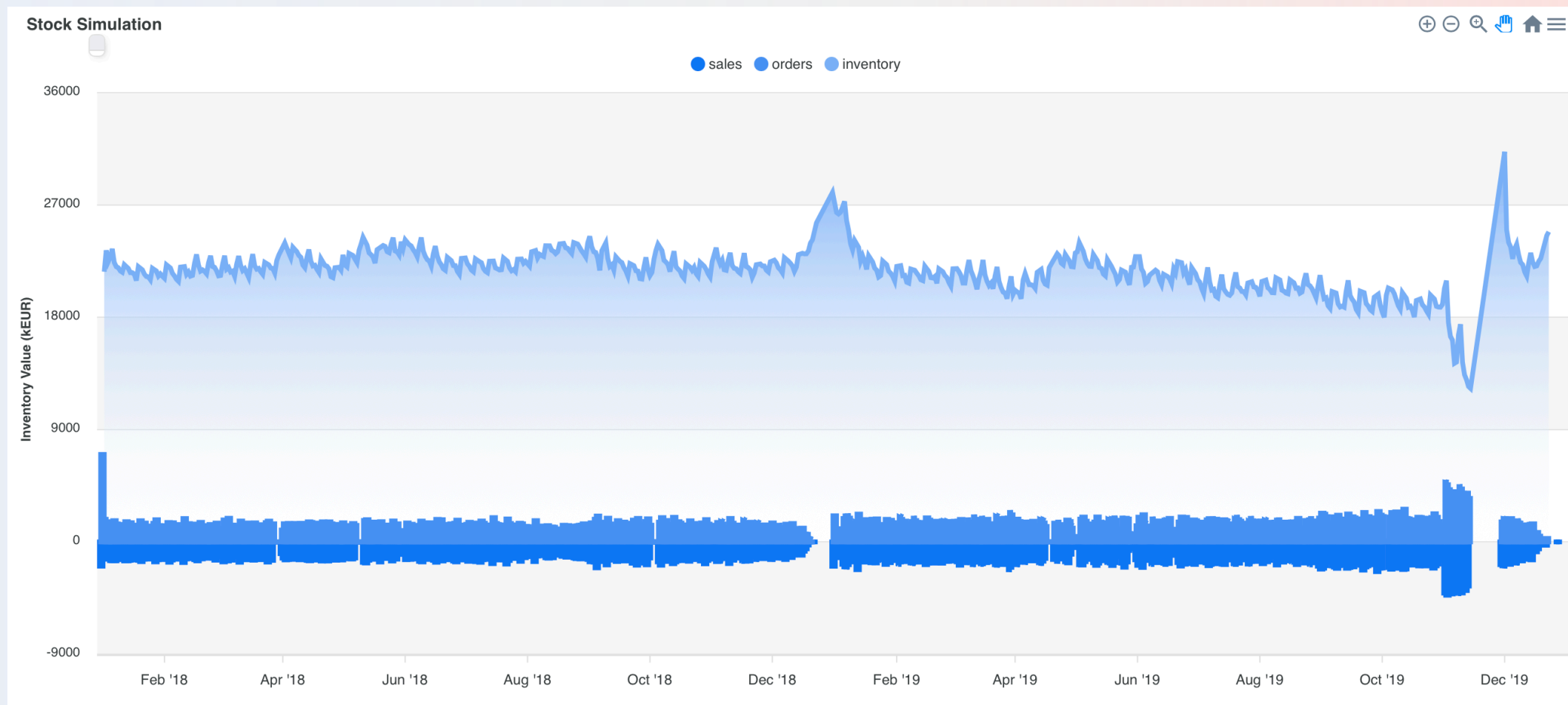


Historischer Bestandsverlauf

History Simulation Results

Simulation settings		Stock statistics		Service levels and annual cost	
Ordering cost (EUR)	12.00	Simulated days	726	Average alpha0 service level	91.09
Warehousing interest (%)	15.00	Average stock quantity	44'713'855	Average alpha1 service level	84.06
Simulation logic	Historical stock simulation logic	Average stock value (EUR)	16'127'108	Average beta service level	88.71
Replenishment policy	(s,S) replenishment policy	Total demand quantity	1'630'208'272	Global alpha0 service level	89.08
Stockout policy	Partial backlog stockout policy	Total demand value (EUR)	769'505'994	Global alpha1 service level	81.55
Expiration policy	Simple Expiration Policy	Total number of picks	1'090'732	Global beta service level	90.40
		Total number of orders	315'656	Total number of stockouts	120'228
		Total number of overage days	1'011'639	Total number of stockout days	120'228
		Total number of underage days	1'750'449	Total number of stockout periods	24'824
		Total overage quantity	10'402'514	Storage Cost (EUR)	2'419'066
		Total overage value (EUR)	5'718'298	Ordering Cost (EUR)	1'904'371
		Total underage quantity	8'885'608	Opportunity Cost (EUR)	6'191'647
		Total underage value (EUR)	7'277'866	Scraping Cost (EUR)	0
		Total number of scraped items	0	Total Cost (EUR)	10'515'084

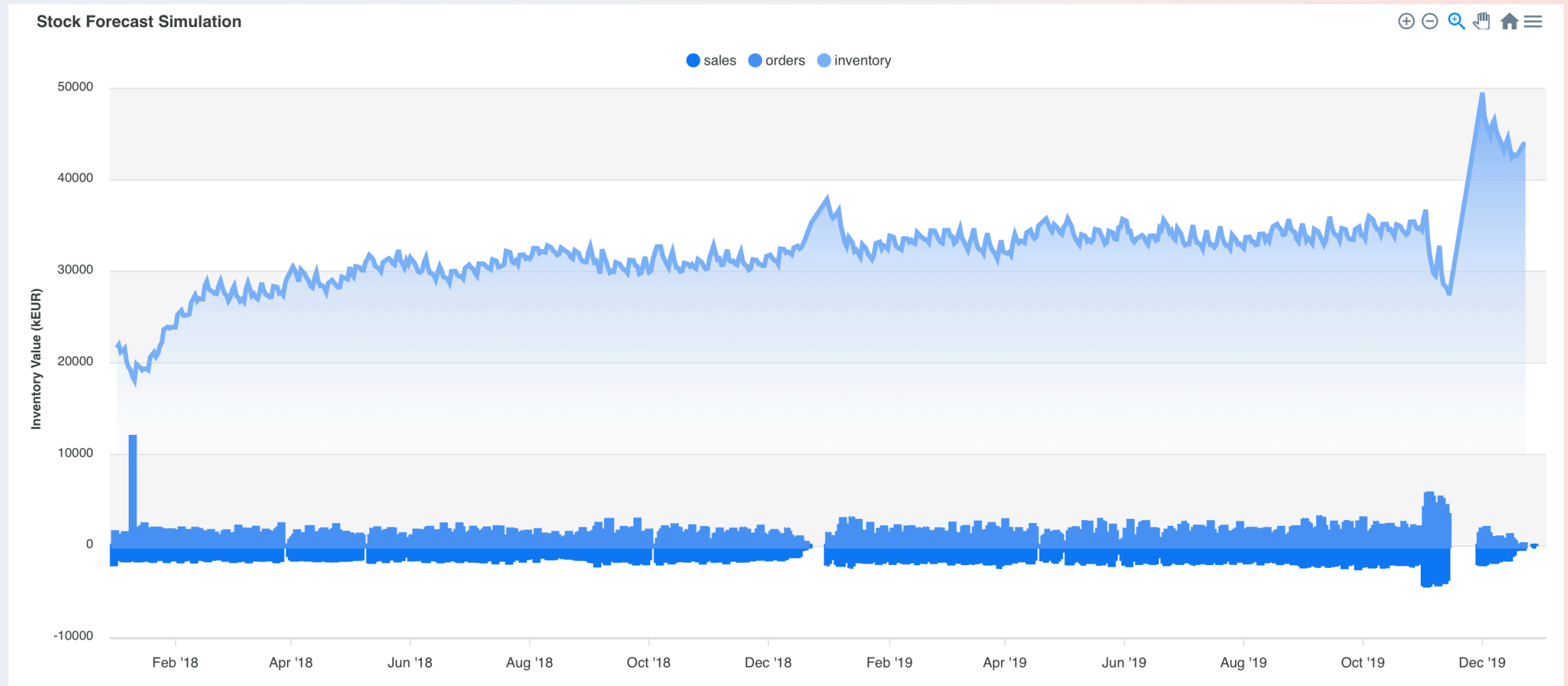
Statische Bestandsimulation



Statische Bestandsimulation

Inventory Simulation Results					
Simulation settings		Stock statistics		Service levels and annual cost	
Ordering cost (EUR)	12.00	Simulated days	726	Average alpha0 service level	59.61
Warehousing interest (%)	15.00	Average stock quantity	57'241'386	Average alpha1 service level	74.45
Simulation logic	A simple stock simulation logic	Average stock value (EUR)	22'190'873	Average beta service level	60.02
Replenishment policy	(s,S) replenishment policy	Total demand quantity	1'631'179'717	Global alpha0 service level	96.29
Stockout policy	Partial backlog stockout policy	Total demand value (EUR)	769'505'994	Global alpha1 service level	99.03
Expiration policy	Simple Expiration Policy	Total number of picks	1'092'039	Global beta service level	95.14
		Total number of orders	119'869	Total number of stockouts	40'566
		Total number of overage days	892'650	Total number of stockout days	40'566
		Total number of underage days	293'109	Total number of stockout periods	22'051
		Total overage quantity	6'341'994	Storage Cost (EUR)	3'328'631
		Total overage value (EUR)	4'044'569	Ordering Cost (EUR)	723'177
		Total underage quantity	13'163'355	Opportunity Cost (EUR)	5'532'399
		Total underage value (EUR)	6'465'889	Scraping Cost (EUR)	0
		Total number of scraped items	0	Total Cost (EUR)	9'584'207

Dynamische Bestandsimulation

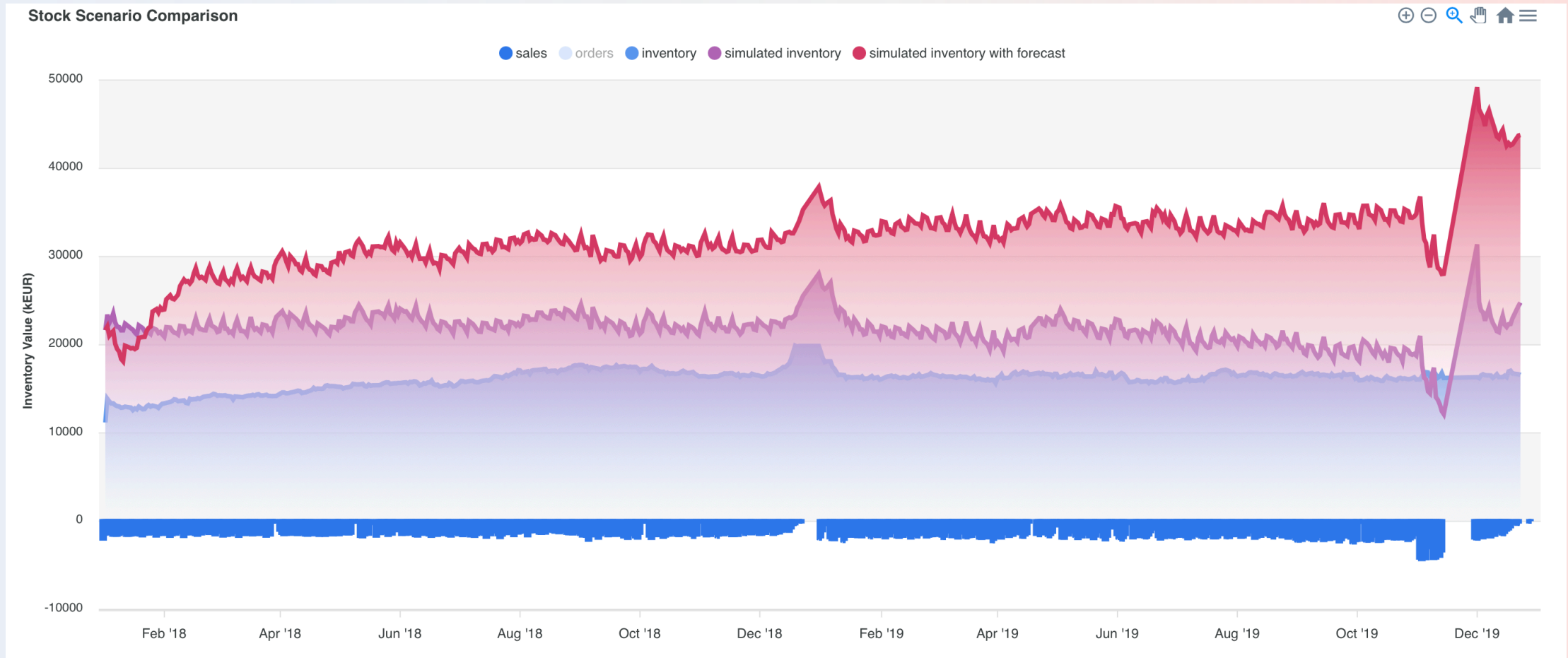


Dynamische Bestandsimulation

Inventory Simulation Forecast Results

Simulation settings		Stock statistics		Service levels and annual cost	
Ordering cost (EUR)	12.00	Simulated days	726	Average alpha0 service level	61.77
Warehousing interest (%)	15.00	Average stock quantity	78'466'206	Average alpha1 service level	78.29
Simulation logic	A stock simulation logic using forecasts	Average stock value (EUR)	32'536'850	Average beta service level	62.14
Replenishment policy	(s,S) replenishment policy	Total demand quantity	1'631'179'717	Global alpha0 service level	97.54
Stockout policy	Partial backlog stockout policy	Total demand value (EUR)	769'505'994	Global alpha1 service level	99.28
Expiration policy	Simple Expiration Policy	Total number of picks	1'092'039	Global beta service level	97.04
		Total number of orders	95'892	Total number of stockouts	26'862
		Total number of overage days	2'737'957	Total number of stockout days	26'862
		Total number of underage days	171'932	Total number of stockout periods	16'558
		Total overage quantity	37'379'082	Storage Cost (EUR)	4'880'528
		Total overage value (EUR)	21'030'169	Ordering Cost (EUR)	578'522
		Total underage quantity	12'667'113	Opportunity Cost (EUR)	3'186'498
		Total underage value (EUR)	7'315'676	Scraping Cost (EUR)	0
		Total number of scraped items	0	Total Cost (EUR)	8'645'547

Übersicht Bestandsimulation



Übersicht Bestandsimulation

Cost Details

ID	Description	Storage Stat	Storage Dyn	Ordering Stat	Ordering Dyn	Opportunity €	Opportunity £	Scraping Stat	Scraping Dyn	Total Stat	Total Dyn
606100001	Mepla Rohr d...	6040	5742	271	278	-124078	-140415	0	0	-117767	-134396
602110001	Mepla Rohr d2...	4678	5239	-1695	-1780	-138201	-135049	0	0	-135218	-131590
602130001	MeplaFlex Ro...	4040	4340	-1840	-1925	-120568	-120941	0	0	-118368	-118526
152424000	Manschette	4612	5543	-652	-820	-114399	-115620	0	0	-110439	-110898
440302001	SB-WC H110 ...	6480	9140	-440	-640	-113071	-117828	0	0	-107032	-109328
603110001	Mepla Rohr d2...	3646	4095	-1581	-1689	-94975	-99130	0	0	-92910	-96724
602100001	Mepla Rohr d2...	3657	4172	-386	-507	-92661	-94141	0	0	-89390	-90475
601131001	MeplaFlex Ro...	3034	3207	-1888	-1925	-85703	-86555	0	0	-84558	-85273
488316000	Bausatz kompl	6053	7929	-820	-1038	-57964	-71081	0	0	-52732	-64190
110230001	KF WC H88 Ar...	1304	1424	-537	-579	-58931	-58501	0	0	-58164	-57656
881431000	Kasten montie...	1761	1981	-947	-995	-58858	-56182	0	0	-58044	-55197
881333000	Nippel lang zu...	5042	7500	-90	-356	-57265	-61777	0	0	-52313	-54633
111280001	DF WC H88 C...	856	962	-97	-133	-52938	-53307	0	0	-52179	-52477
488224000	WC-Gestell B...	7066	8722	-157	-380	-42134	-60522	0	0	-35224	-52181
261199001	SPAGA OEM J...	12451	26257	-332	-459	-65924	-76435	0	0	-53805	-50636
601130001	MeplaFlex Ro...	1560	1830	-2015	-2063	-50792	-50162	0	0	-51246	-50396

Bestandsverläufe Einzelartikel

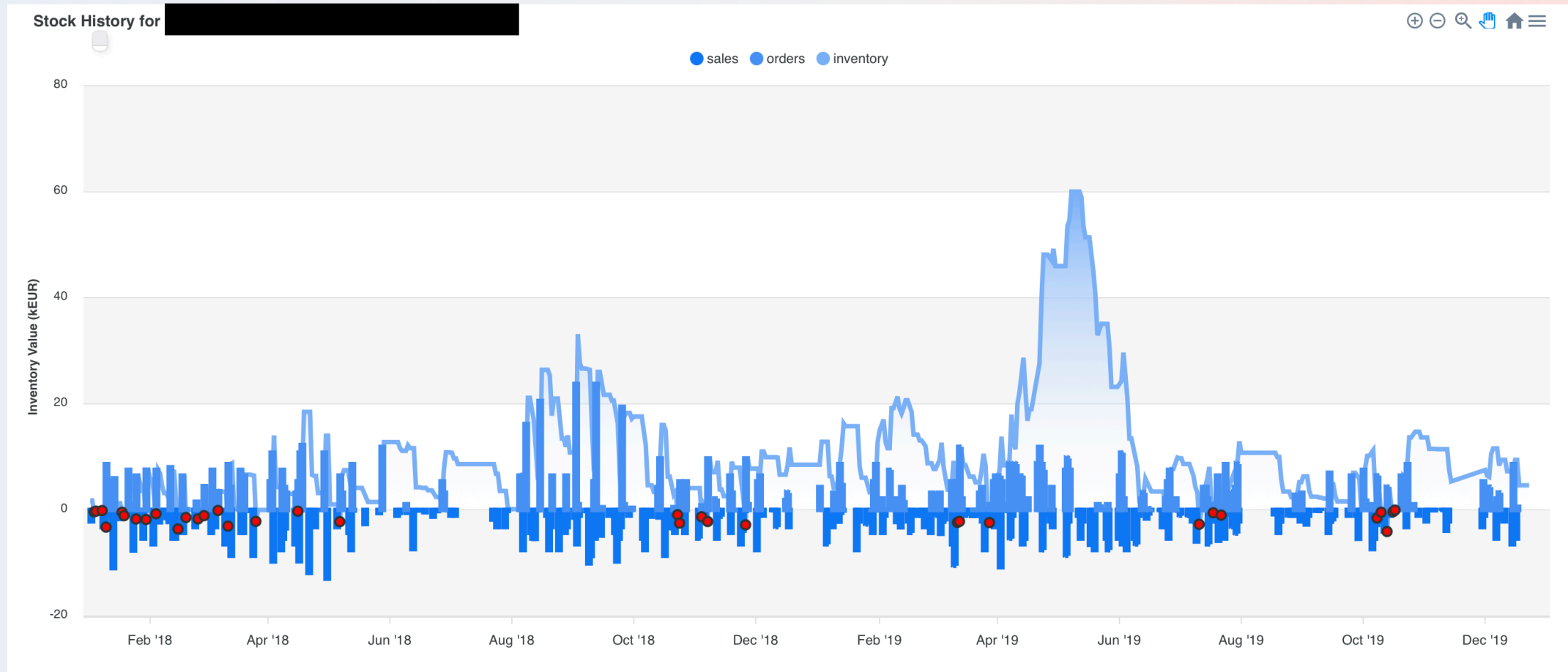
Historisch

Simulation statisch

Simulation dynamisch mit Prognosen

Artikel xxxxxx

Einzelresultate



Einzelresultate

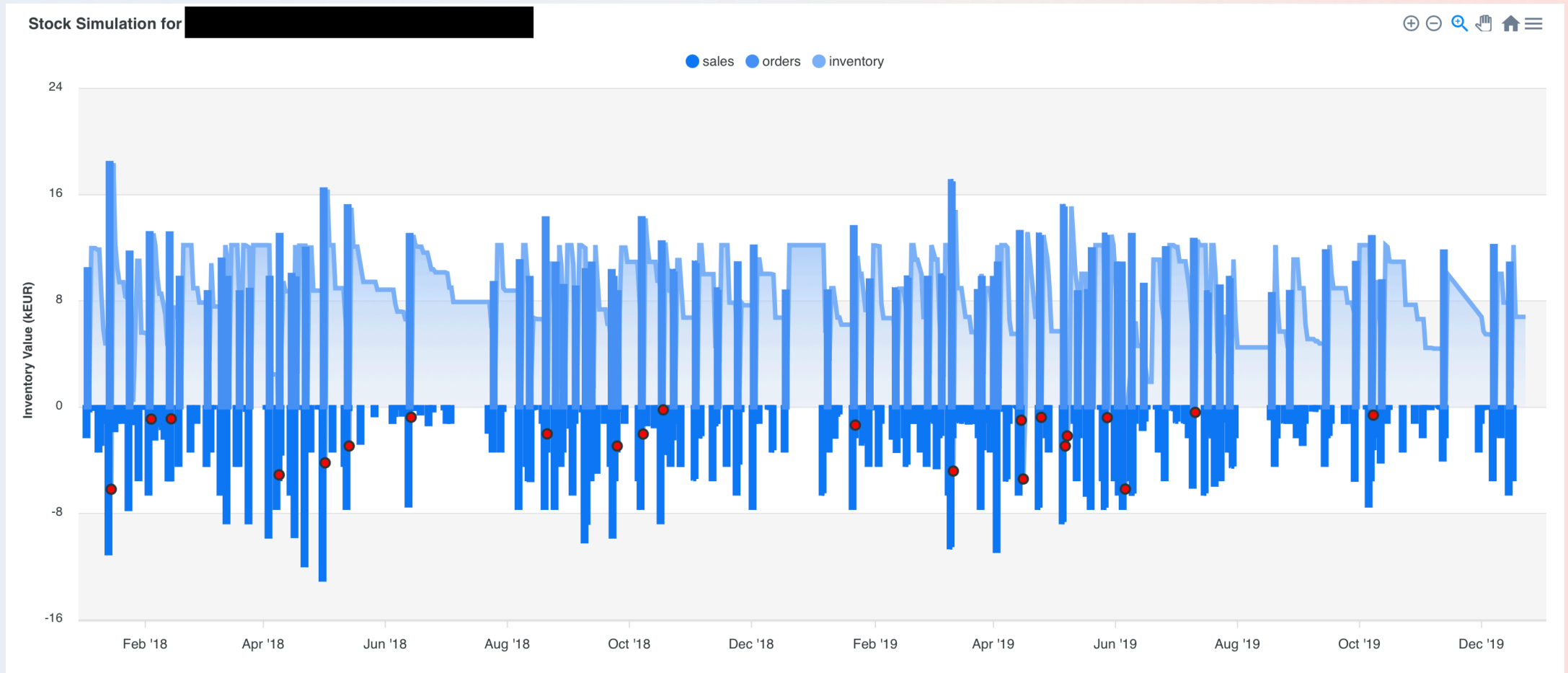


Einzelresultate

History Simulation Results

Simulation settings		Stock statistics		Service levels and annual cost	
Ordering cost (EUR)	12.00	Simulated days	726	Average alpha0 service level	87.55
Warehousing interest (%)	15.00	Average stock quantity	4'336	Average alpha1 service level	74.16
Simulation logic	Historical stock simulation logic	Average stock value (EUR)	9'755	Average beta service level	93.76
Replenishment policy	(s,S) replenishment policy	Total demand quantity	373'624	Global alpha0 service level	87.55
Stockout policy	Partial backlog stockout policy	Total demand value (EUR)	840'654	Global alpha1 service level	74.16
Expiration policy	Simple Expiration Policy	Total number of picks	273	Global beta service level	93.76
		Total number of orders	163	Total number of stockouts	34
		Total number of overage days	147	Total number of stockout days	34
		Total number of underage days	203	Total number of stockout periods	23
		Total overage quantity	656	Storage Cost (EUR)	1'463
		Total overage value (EUR)	1'475	Ordering Cost (EUR)	983
		Total underage quantity	1'770	Opportunity Cost (EUR)	5'272
		Total underage value (EUR)	3'983	Scraping Cost (EUR)	0
		Total number of scraped items	0	Total Cost (EUR)	7'719

Einzelresultate

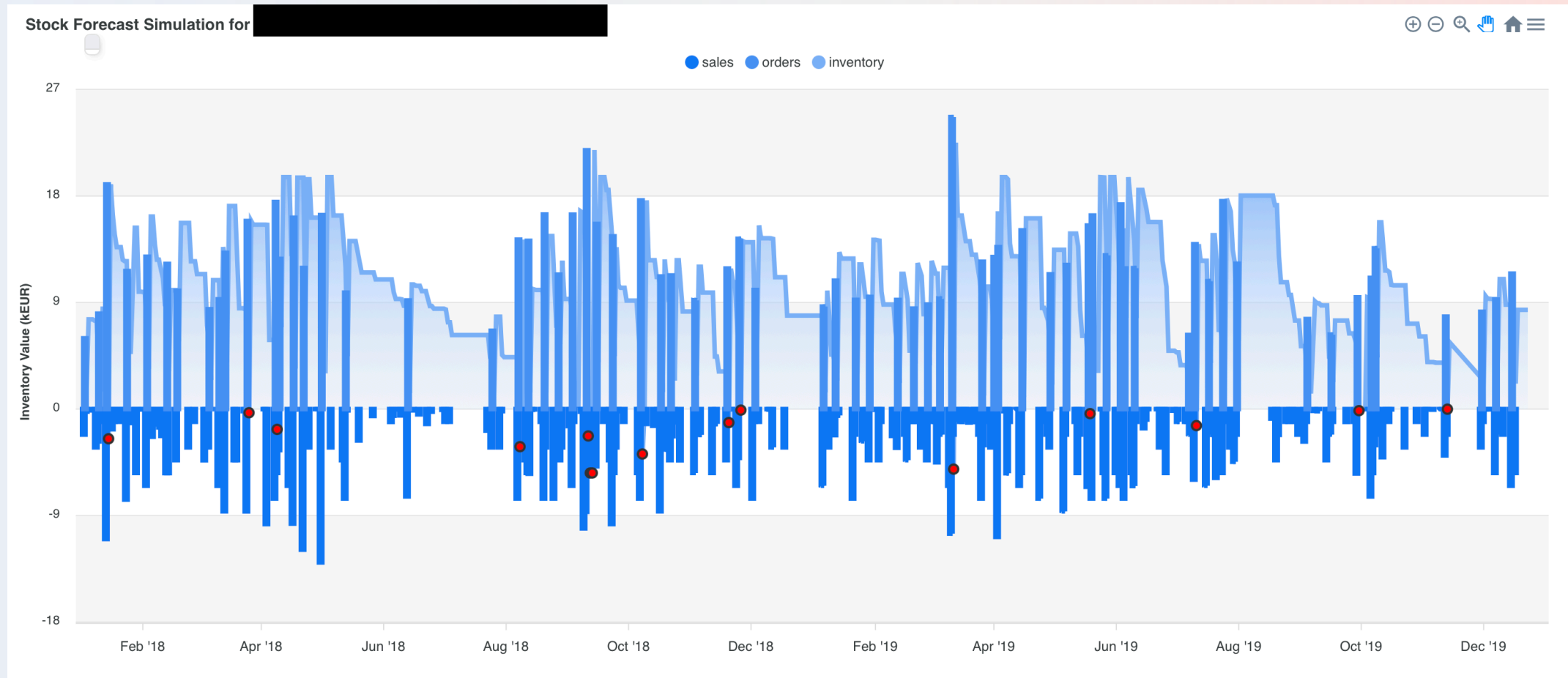


Einzelresultate

Inventory Simulation Results

Simulation settings		Stock statistics		Service levels and annual cost	
Ordering cost (EUR)	12.00	Simulated days	726	Average alpha0 service level	91.94
Warehousing interest (%)	15.00	Average stock quantity	3'779	Average alpha1 service level	77.53
Simulation logic	A simple stock simulation logic	Average stock value (EUR)	8'503	Average beta service level	93.54
Replenishment policy	(s,S) replenishment policy	Total demand quantity	373'624	Global alpha0 service level	91.94
Stockout policy	Partial backlog stockout policy	Total demand value (EUR)	840'654	Global alpha1 service level	77.53
Expiration policy	Simple Expiration Policy	Total number of picks	273	Global beta service level	93.54
		Total number of orders	77	Total number of stockouts	22
		Total number of overage days	0	Total number of stockout days	22
		Total number of underage days	92	Total number of stockout periods	20
		Total overage quantity	0	Storage Cost (EUR)	1'276
		Total overage value (EUR)	0	Ordering Cost (EUR)	465
		Total underage quantity	1'147	Opportunity Cost (EUR)	5'459
		Total underage value (EUR)	2'581	Scraping Cost (EUR)	0
		Total number of scraped items	0	Total Cost (EUR)	7'199

Einzelresultate

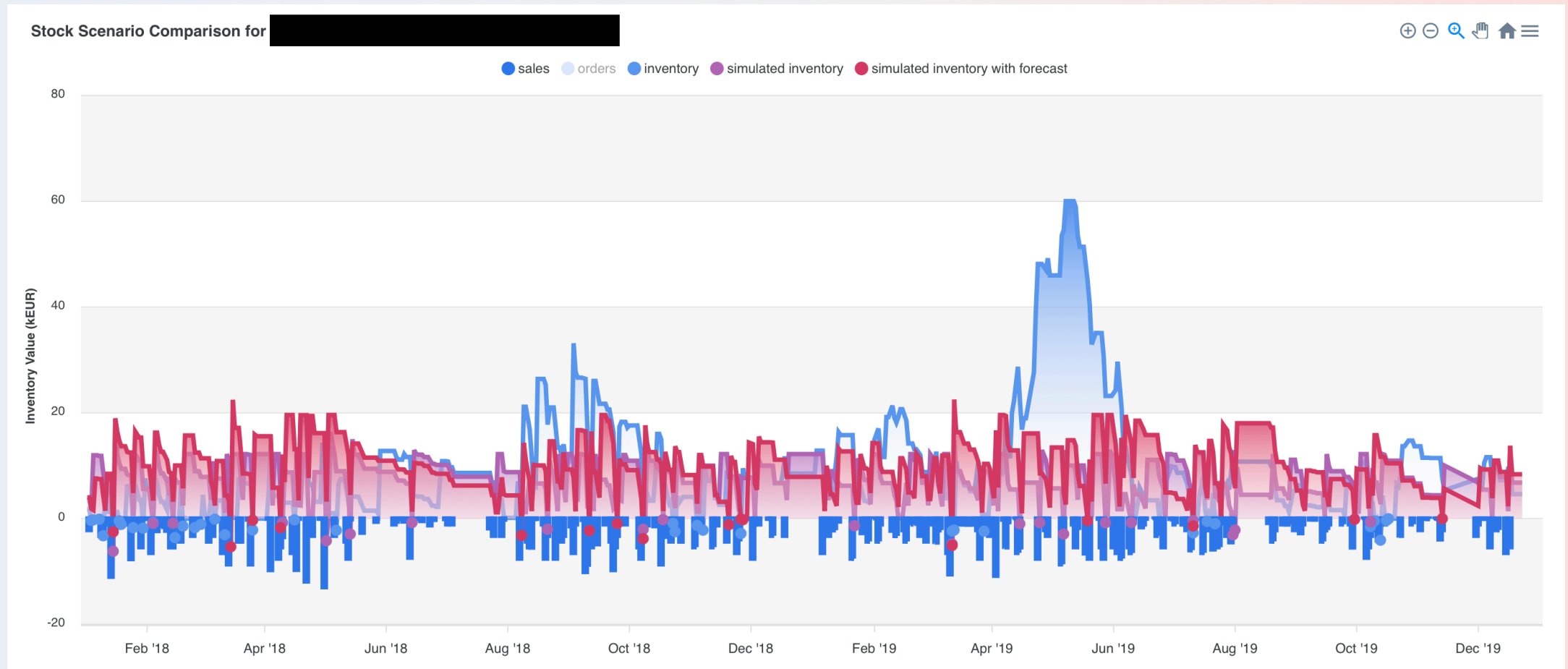


Einzelresultate

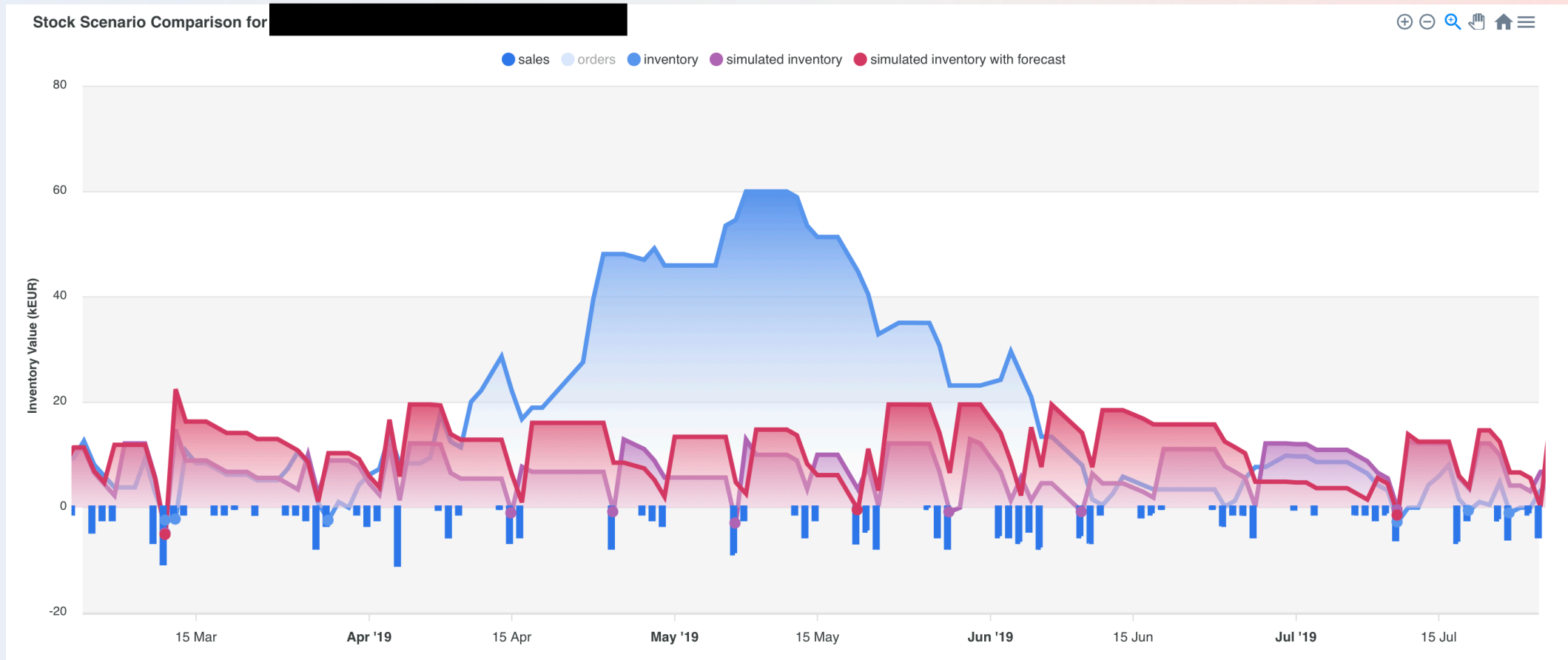
Inventory Simulation Forecast Results

Simulation settings		Stock statistics		Service levels and annual cost	
Ordering cost (EUR)	12.00	Simulated days	726	Average alpha0 service level	94.51
Warehousing interest (%)	15.00	Average stock quantity	4'645	Average alpha1 service level	85.39
Simulation logic	A stock simulation logic using forecasts	Average stock value (EUR)	10'451	Average beta service level	96.10
Replenishment policy	(s,S) replenishment policy	Total demand quantity	373'624	Global alpha0 service level	94.51
Stockout policy	Partial backlog stockout policy	Total demand value (EUR)	840'654	Global alpha1 service level	85.39
Expiration policy	Simple Expiration Policy	Total number of picks	273	Global beta service level	96.10
		Total number of orders	69	Total number of stockouts	15
		Total number of overage days	198	Total number of stockout days	15
		Total number of underage days	88	Total number of stockout periods	13
		Total overage quantity	1'588	Storage Cost (EUR)	1'568
		Total overage value (EUR)	3'572	Ordering Cost (EUR)	416
		Total underage quantity	731	Opportunity Cost (EUR)	3'300
		Total underage value (EUR)	1'645	Scraping Cost (EUR)	0
		Total number of scraped items	0	Total Cost (EUR)	5'284

Einzelresultate

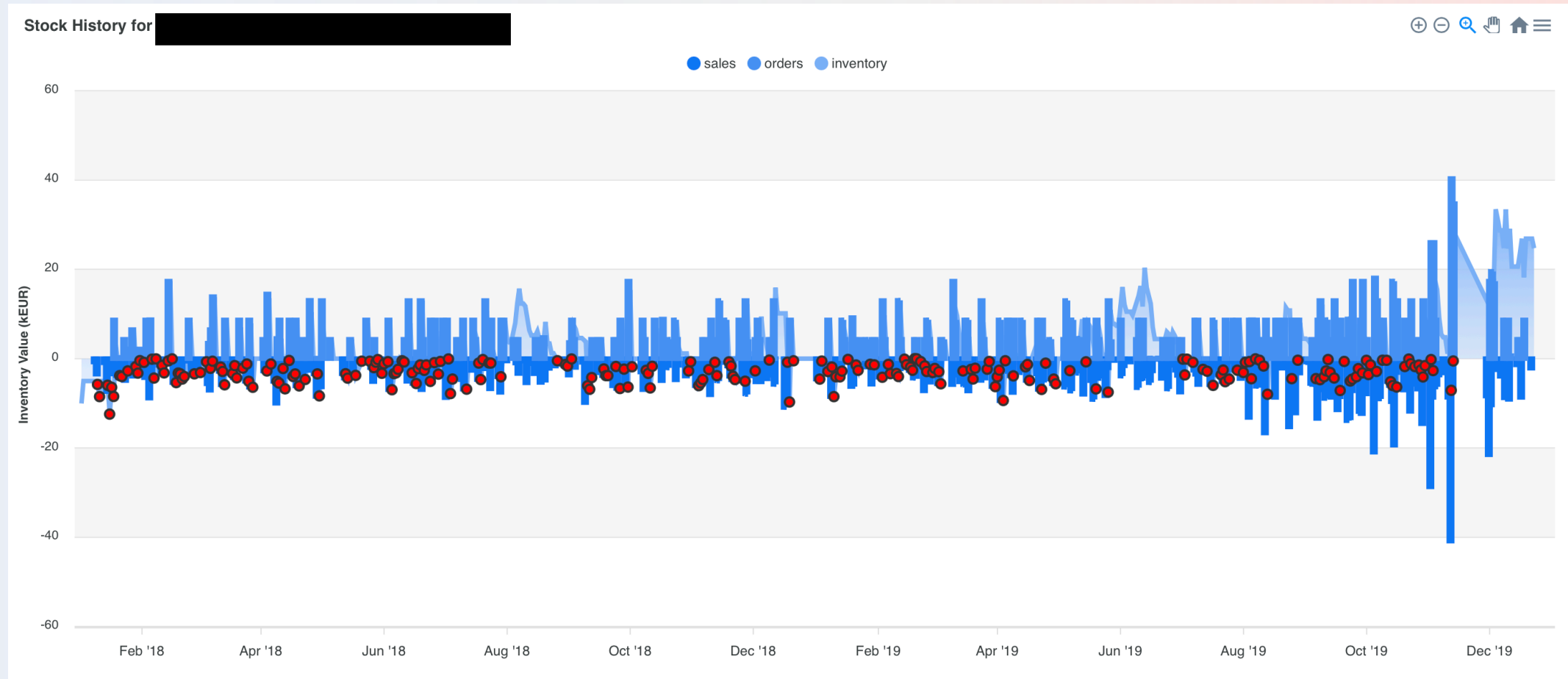


Einzelresultate



Artikel xxxxxx

Einzelresultate

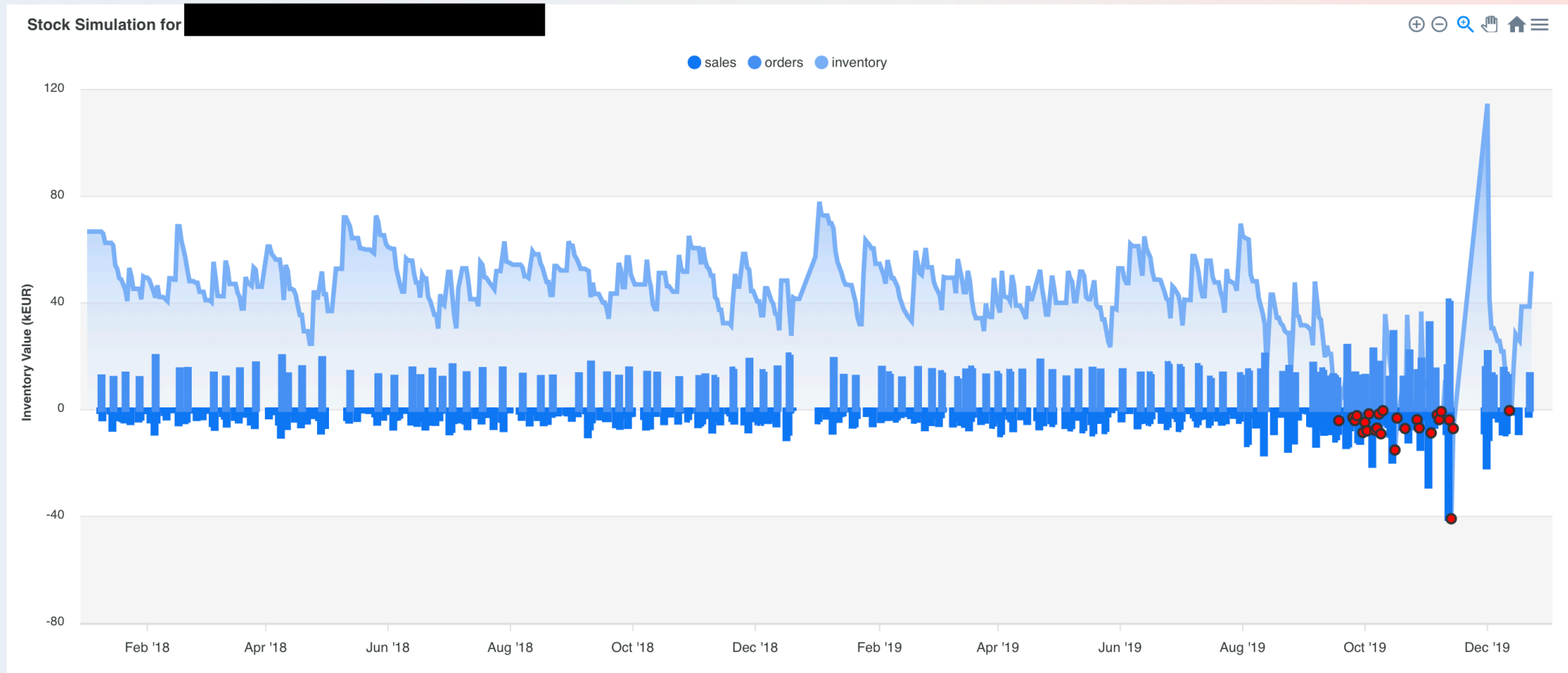


Einzelresultate

History Simulation Results

Simulation settings		Stock statistics		Service levels and annual cost	
Ordering cost (EUR)	12.00	Simulated days	726	Average alpha0 service level	41.81
Warehousing interest (%)	15.00	Average stock quantity	521	Average alpha1 service level	17.60
Simulation logic	Historical stock simulation logic	Average stock value (EUR)	2'261	Average beta service level	58.22
Replenishment policy	(s,S) replenishment policy	Total demand quantity	389'815	Global alpha0 service level	41.81
Stockout policy	Partial backlog stockout policy	Total demand value (EUR)	1'691'797	Global alpha1 service level	17.60
Expiration policy	Simple Expiration Policy	Total number of picks	409	Global beta service level	58.22
		Total number of orders	248	Total number of stockouts	239
		Total number of overage days	0	Total number of stockout days	239
		Total number of underage days	618	Total number of stockout periods	103
		Total overage quantity	0	Storage Cost (EUR)	339
		Total overage value (EUR)	0	Ordering Cost (EUR)	1'496
		Total underage quantity	931	Opportunity Cost (EUR)	71'081
		Total underage value (EUR)	4'040	Scraping Cost (EUR)	0
		Total number of scraped items	0	Total Cost (EUR)	72'916

Einzelresultate

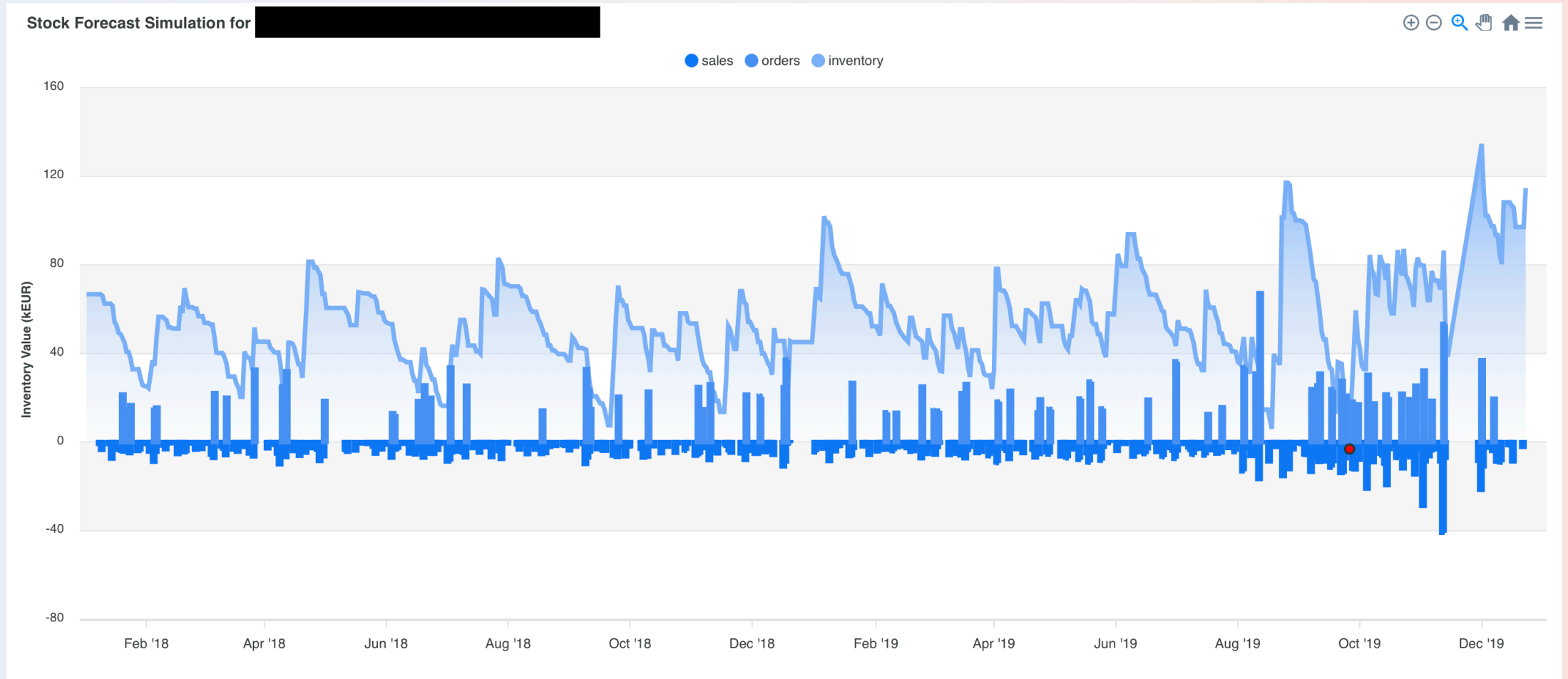


Einzelresultate

Inventory Simulation Results

Simulation settings		Stock statistics		Service levels and annual cost	
Ordering cost (EUR)	12.00	Simulated days	726	Average alpha0 service level	93.64
Warehousing interest (%)	15.00	Average stock quantity	10'033	Average alpha1 service level	91.20
Simulation logic	A simple stock simulation logic	Average stock value (EUR)	43'542	Average beta service level	90.28
Replenishment policy	(s,S) replenishment policy	Total demand quantity	389'815	Global alpha0 service level	93.64
Stockout policy	Partial backlog stockout policy	Total demand value (EUR)	1'691'797	Global alpha1 service level	91.20
Expiration policy	Simple Expiration Policy	Total number of picks	409	Global beta service level	90.28
		Total number of orders	112	Total number of stockouts	26
		Total number of overage days	430	Total number of stockout days	26
		Total number of underage days	82	Total number of stockout periods	11
		Total overage quantity	2'622	Storage Cost (EUR)	6'531
		Total overage value (EUR)	11'380	Ordering Cost (EUR)	676
		Total underage quantity	671	Opportunity Cost (EUR)	16'531
		Total underage value (EUR)	2'911	Scraping Cost (EUR)	0
		Total number of scraped items	0	Total Cost (EUR)	23'738

Einzelresultate

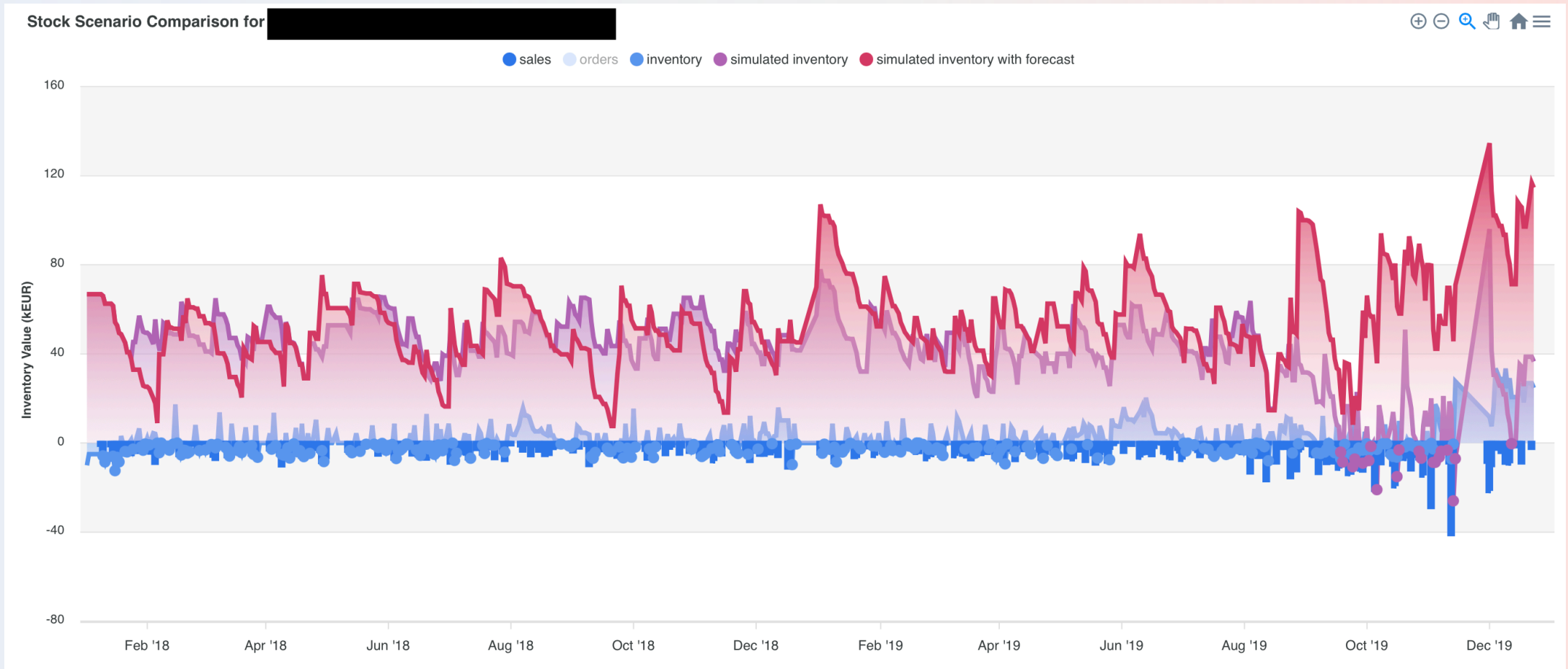


Einzelresultate

Inventory Simulation Forecast Results

Simulation settings		Stock statistics		Service levels and annual cost	
Ordering cost (EUR)	12.00	Simulated days	726	Average alpha0 service level	99.76
Warehousing interest (%)	15.00	Average stock quantity	12'653	Average alpha1 service level	99.20
Simulation logic	A stock simulation logic using forecasts	Average stock value (EUR)	54'915	Average beta service level	99.82
Replenishment policy	(s,S) replenishment policy	Total demand quantity	389'815	Global alpha0 service level	99.76
Stockout policy	Partial backlog stockout policy	Total demand value (EUR)	1'691'797	Global alpha1 service level	99.20
Expiration policy	Simple Expiration Policy	Total number of picks	409	Global beta service level	99.82
		Total number of orders	76	Total number of stockouts	1
		Total number of overage days	466	Total number of stockout days	1
		Total number of underage days	54	Total number of stockout periods	1
		Total overage quantity	17'100	Storage Cost (EUR)	8'237
		Total overage value (EUR)	74'214	Ordering Cost (EUR)	459
		Total underage quantity	1'959	Opportunity Cost (EUR)	312
		Total underage value (EUR)	8'501	Scraping Cost (EUR)	0
		Total number of scraped items	0	Total Cost (EUR)	9'008

Einzelresultate

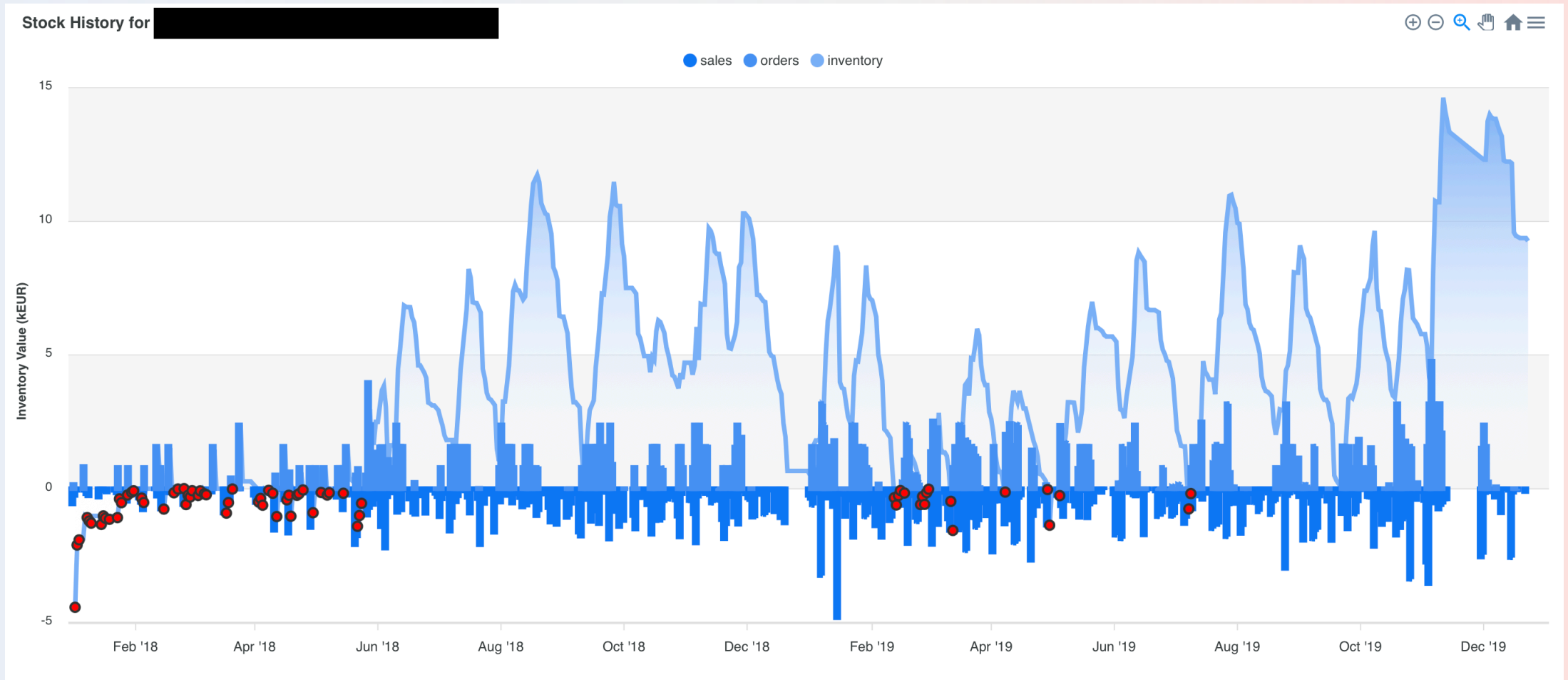


Einzelresultate



Artikel xxxxxx

Einzelresultate

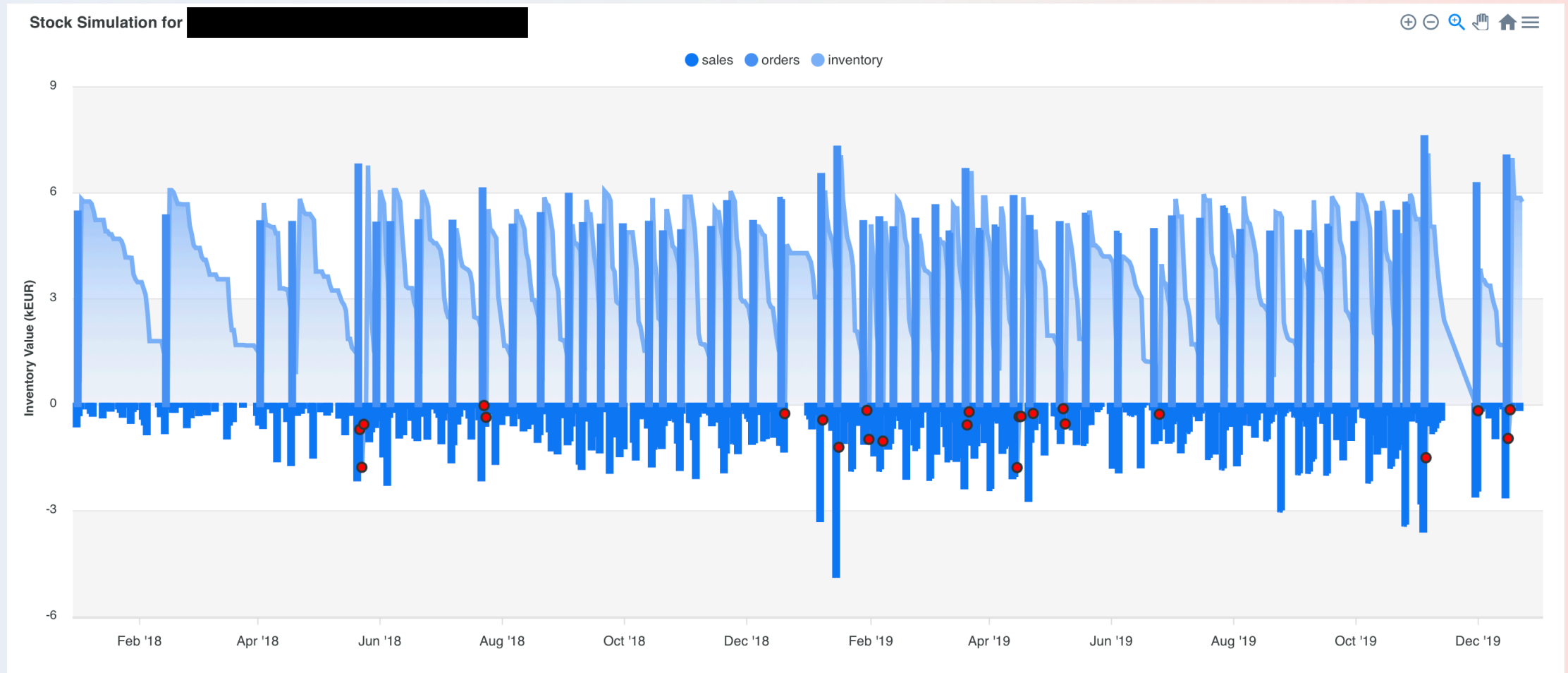


Einzelresultate

History Simulation Results

Simulation settings		Stock statistics		Service levels and annual cost	
Ordering cost (EUR)	12.00	Simulated days	726	Average alpha0 service level	86.02
Warehousing interest (%)	15.00	Average stock quantity	52'778	Average alpha1 service level	67.31
Simulation logic	Historical stock simulation logic	Average stock value (EUR)	4'197	Average beta service level	90.73
Replenishment policy	(s,S) replenishment policy	Total demand quantity	3'707'601	Global alpha0 service level	86.02
Stockout policy	Partial backlog stockout policy	Total demand value (EUR)	294'831	Global alpha1 service level	67.31
Expiration policy	Simple Expiration Policy	Total number of picks	508	Global beta service level	90.73
		Total number of orders	247	Total number of stockouts	71
		Total number of overage days	178	Total number of stockout days	71
		Total number of underage days	196	Total number of stockout periods	17
		Total overage quantity	40'067	Storage Cost (EUR)	630
		Total overage value (EUR)	3'186	Ordering Cost (EUR)	1'490
		Total underage quantity	6'671	Opportunity Cost (EUR)	2'747
		Total underage value (EUR)	530	Scraping Cost (EUR)	0
		Total number of scraped items	0	Total Cost (EUR)	4'867

Einzelresultate

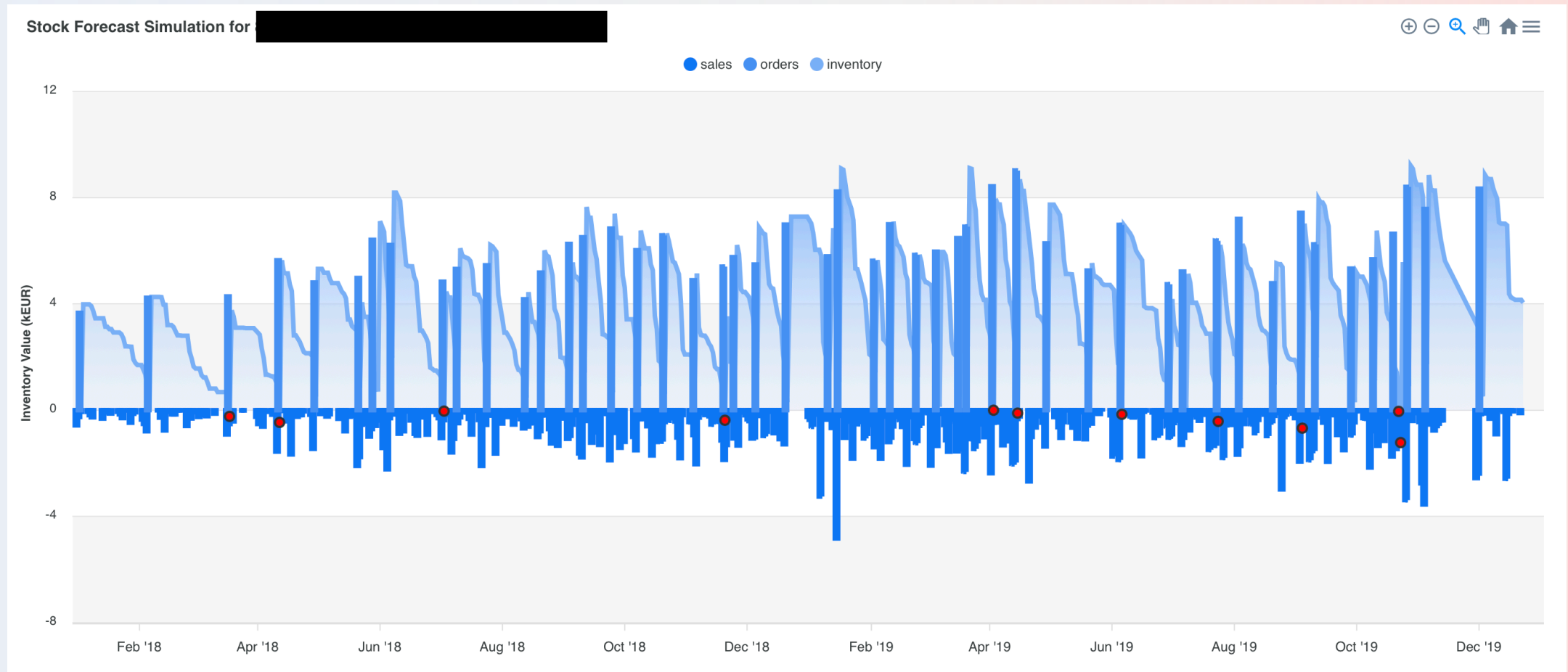


Einzelresultate

Inventory Simulation Results

Simulation settings		Stock statistics		Service levels and annual cost	
Ordering cost (EUR)	12.00	Simulated days	726	Average alpha0 service level	95.28
Warehousing interest (%)	15.00	Average stock quantity	45'741	Average alpha1 service level	73.08
Simulation logic	A simple stock simulation logic	Average stock value (EUR)	3'637	Average beta service level	95.09
Replenishment policy	(s,S) replenishment policy	Total demand quantity	3'707'601	Global alpha0 service level	95.28
Stockout policy	Partial backlog stockout policy	Total demand value (EUR)	294'831	Global alpha1 service level	73.08
Expiration policy	Simple Expiration Policy	Total number of picks	508	Global beta service level	95.09
		Total number of orders	55	Total number of stockouts	24
		Total number of overage days	0	Total number of stockout days	24
		Total number of underage days	76	Total number of stockout periods	14
		Total overage quantity	0	Storage Cost (EUR)	546
		Total overage value (EUR)	0	Ordering Cost (EUR)	332
		Total underage quantity	15'247	Opportunity Cost (EUR)	1'456
		Total underage value (EUR)	1'212	Scraping Cost (EUR)	0
		Total number of scraped items	0	Total Cost (EUR)	2'333

Einzelresultate

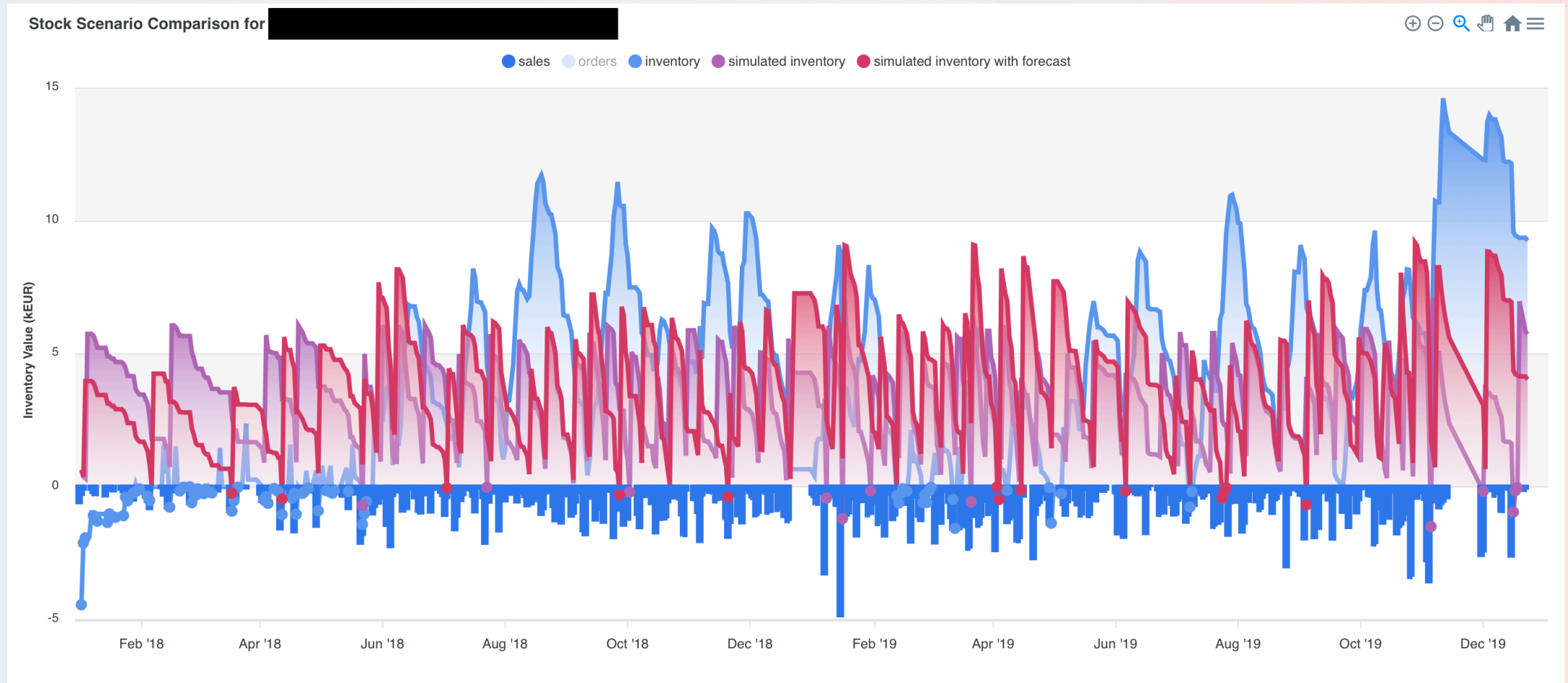


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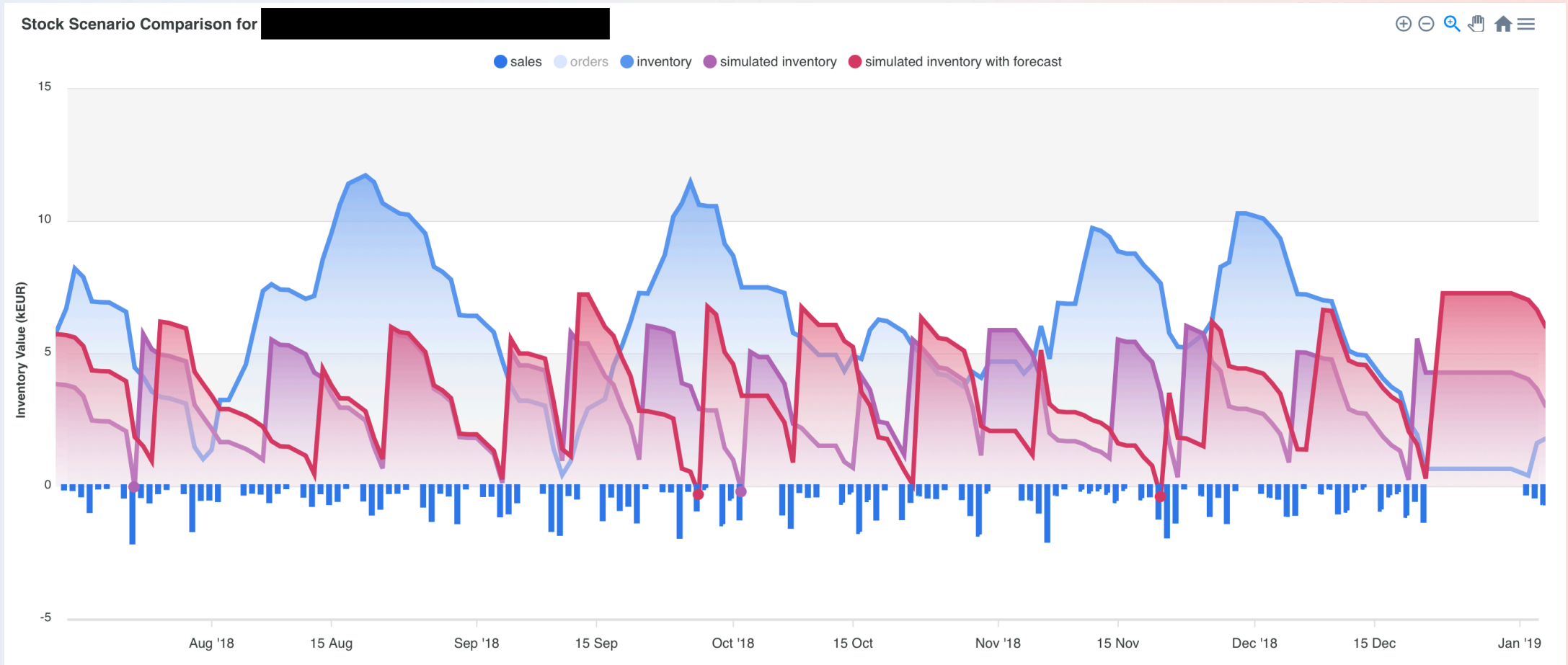
Inventory Simulation Forecast Results

Simulation settings		Stock statistics		Service levels and annual cost	
Ordering cost (EUR)	12.00	Simulated days	726	Average alpha0 service level	97.83
Warehousing interest (%)	15.00	Average stock quantity	52'883	Average alpha1 service level	80.77
Simulation logic	A stock simulation logic using forecasts	Average stock value (EUR)	4'205	Average beta service level	98.73
Replenishment policy	(s,S) replenishment policy	Total demand quantity	3'707'601	Global alpha0 service level	97.83
Stockout policy	Partial backlog stockout policy	Total demand value (EUR)	294'831	Global alpha1 service level	80.77
Expiration policy	Simple Expiration Policy	Total number of picks	508	Global beta service level	98.73
		Total number of orders	49	Total number of stockouts	11
		Total number of overage days	105	Total number of stockout days	11
		Total number of underage days	63	Total number of stockout periods	10
		Total overage quantity	11'026	Storage Cost (EUR)	631
		Total overage value (EUR)	877	Ordering Cost (EUR)	296
		Total underage quantity	8'637	Opportunity Cost (EUR)	377
		Total underage value (EUR)	687	Scraping Cost (EUR)	0
		Total number of scraped items	0	Total Cost (EUR)	1'303

Einzelresultate



Einzelresultate



Empfehlungen

- Mittels dynamischer Lagerhaltung lassen sich die Gesamtkosten von 10.5 Mill. EUR auf 8.6 Mill EUR p.a. verringern (18% Kostenersparnis)
- Dabei lässt sich der beta-Servicegrad von 90.4% auf 97% erhöhen
- Die Anzahl der Outbound-Bestellvorgänge reduziert sich von 315'000 auf 96'000 p.a. (70% weniger Outbound-Bestellungen)

Mögliche weitere Schritte

- Periodische Übernahme aller Bestellparameter auf Articlelebene in das ERP-System
- Implementation eines automatisierten Daten-Interfaces zwischen dem ERP-System und GAPS Crystal

Mitgelieferte Resultat-Dateien

- Excel-Liste Übersicht.xls (Lager-basiert)
- Excel-Liste Lagerhaltungsparameter.xls (Artikel-basiert)
 - Bestell-Politik
 - Servicegrad, Sicherheitsbestand, optimale Bestellmenge, Bestellpunkt
 - Zu erwartende Lagermengen, Lagerhaltungskosten und Bestellkosten
- Excel-Liste Lagersimulation.xls (Artikel-basiert)
 - Stockouts, erzielter Servicegrad
 - Mittlerer Lagerbestand