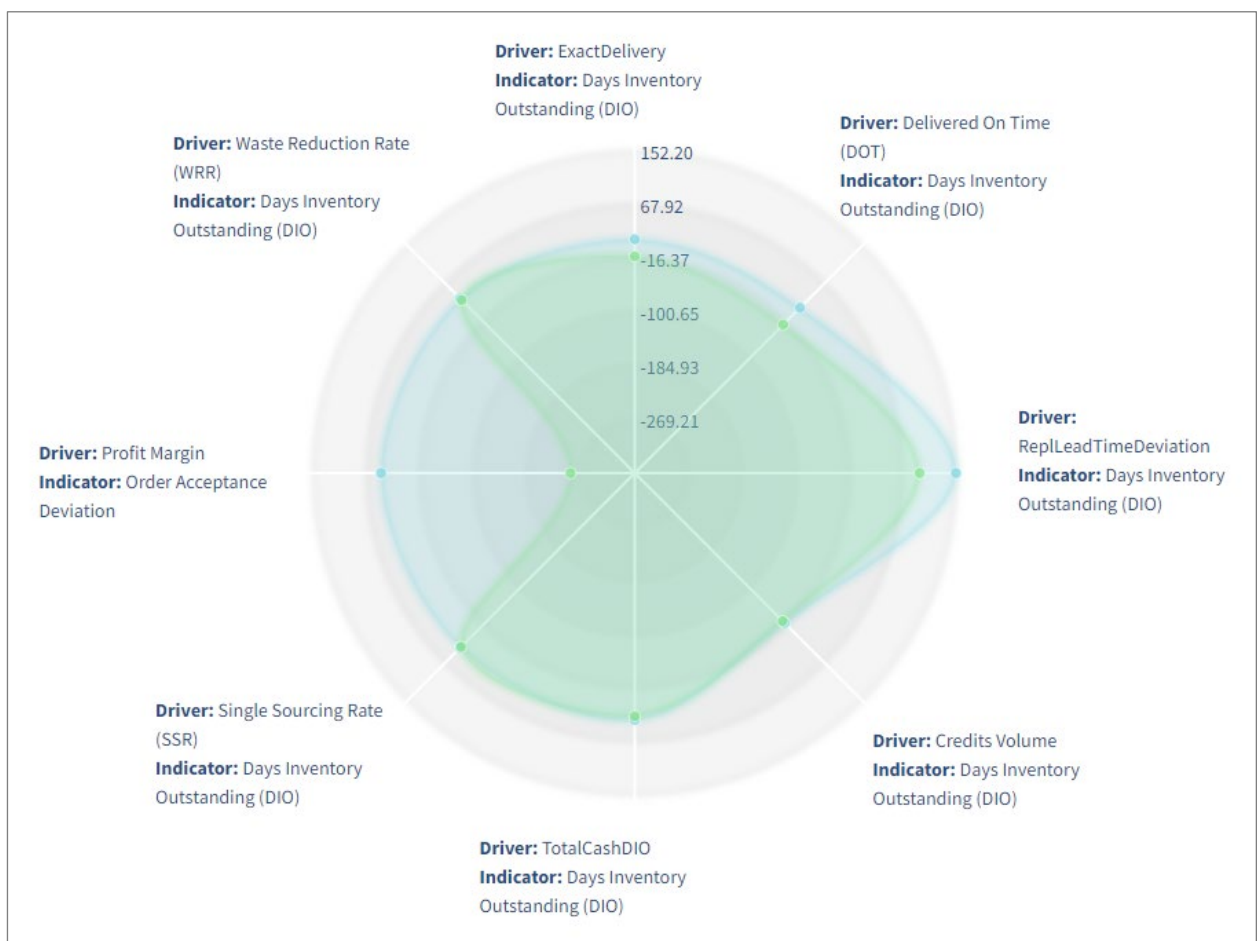


# NEMO Release Letter

Version 2022-08-19



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## Summary

As of August 19, 2022, proALPHA has released NEMO version 2022-08-19.

NEMO – standing for Natural Enterprise Management Optimizer – is a new breed of AaaS – Analytics-as-a-Service – offering from proALPHA. NEMO analyzes all sorts of event data. In particular NEMO analyzes business processes as performed with proALPHA ERP. The objective of NEMO is to enable better daily decisions by relating operational activities (input factors) with financial results (output factors).

NEMO 2022-08-19 features various error corrections and performance improvements. Also, various housekeeping improvements have been implemented.

Furthermore, NEMO 2022-08-19 provides new and improved capabilities triggered by customers:

- Comprehensibility improvements (NEW and IMPROVED)
- More and more precise Metrics (NEW and IMPROVED)
  - Sales
    - Dunning Rate
  - Procurement
    - Average Deviation Purchasing Confirmation Date
    - Average Deviation Confirmation Dates
    - Average Purchasing Preparation Time
    - Missing Purchasing Confirmation Rate
    - Average Number Purchasing Confirmations
  - Facilities
    - Scopes in Metrics
    - Canonical SCOR processes Scopes
    - Auto crawling of MvmtMRPCategory
    - Scope "Is Crawlable" flag
- Reports (NEW and IMPROVED)
  - (SAMPLE) Most Profitable Customers (NEW)
  - (SAMPLE) Most Profitable Parts (NEW)
  - (SAMPLE) Payment Dunning Analysis (NEW)
  - (SAMPLE) Waste Rate Analysis (NEW)
  - (SAMPLE) Customer ABC Classification (IMPROVED)
  - (SAMPLE) Operating Cash Flow (IMPROVED)
  - (SAMPLE) Replenishment Time Analysis (IMPROVED)
- Focus (NEW and IMPROVED)
  - NEMO Reports Infoscape (NEW)
  - Autocompletion support for searching in Value Lists (IMPROVED)

In addition, we are seeking early feedback customers for emerging new product capabilities:

- Project Management
  - After having tested it a while we are confident that customers who use the proALPHA Project Management could benefit from this capability now. Especially we seek customers who want to discuss their requirements towards new metrics with us.

- Process Mining
  - This is a rather new facility. Process Maps can be created flexibly on the fly now. Now before ironing out the last kinks, we'd be interested to solicit feedback from you.
- Panels
  - This is brand-new! We are attempting to reach a new level of dashboards. Our goal is to be able to create and monitor the necessary, and not only the possible KPIs, without IT involvement and on the fly. We'd love to discuss our approach with interested customers at any point in time.

Please apply for being part of this early adopter program because the mentioned new capabilities are not directly accessible to customers.

## Signature Features

### Natural Performance Index (NPI)

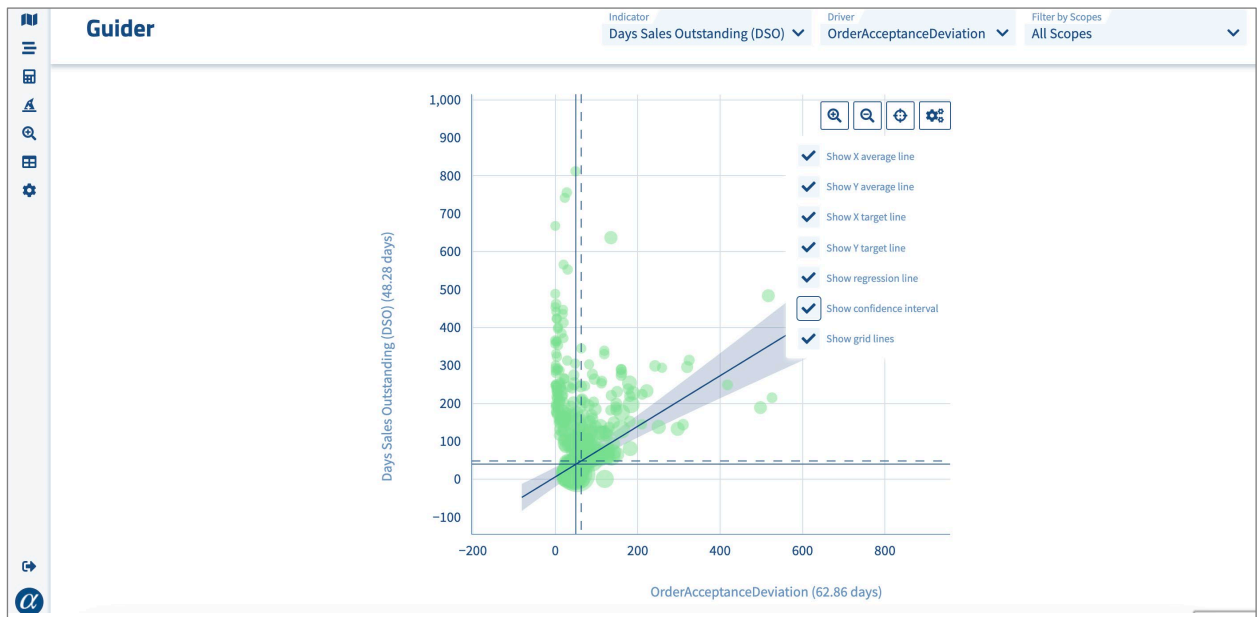
The NPI measures and ranks the fitness of a business. High NPIs indicate a significant improvement potential which is likely to be achieved. They help the user find and decide between the available optimization opportunities and are key to the daily decision support provided by NEMO.

### Natural Leverage Index (NLI)

The NLI measures and ranks the degree of efficiency ("Wirkungsgrad") of a certain operational measure. High NLIs indicate a significant leverage which is likely to be achieved. They help the user find and decide between the available opportunities and as such facilitate the daily decision support provided by NEMO.

### Unsupervised Learning

Since there is no optimum for business process optimization typical machine learning approaches don't apply. Hence NEMO leverages robust advanced statistics out of the so-called space of unsupervised learning algorithms.



### Meta-data Driven

NEMO is not only data- but also metadata-driven. This means that virtually all metrics and scopes can be formed – either manually or automatically.

The Metadata-Editor interface shows the configuration for the **OrderAcceptanceDeviation** metric:

- Search:** Includes a search bar and filters like 'enthält' and 'enthält nicht'.
- Left Panel (Metrics):**
  - Exported Columns
  - Defined Columns
  - Define new Column
  - OrderAcceptanceDeviation (selected)
  - Dow Jones Data
  - DeliveryDateDeviation
  - Delivered On Time (DOT)
  - PurOrderAcceptanceDeviation
  - Days Inventory Outstanding (DIO)
  - Invoice Weight
  - SafetyStock
  - Purchasing Unit Price
  - RequestedDateDeviation
  - CoronaData
  - Days Payables Outstanding (DPO)
  - ExactDelivery
- Right Panel (Configuration for OrderAcceptanceDeviation):**
  - Conflict State: NoConflict
  - Display Name: OrderAcceptanceDeviation
  - Internal Name: order\_acceptance\_deviation
  - Description: example of a canonical metric (Guenther)
  - Unit: days
  - Aggregate to: no aggregation
  - Optimization Orientation: Min
  - Column: order\_acceptance\_deviation
  - Aggregation: maximum
  - Group By: order\_acceptance\_deviation

## Hyper-Dashboard

NEMO continuously ranks all business process correlations. This enables dynamic dashboards which are complementing classical dashboards.



## All Details

NEMO works always on details. There is no need to do any pre-aggregations at all. This means that the user can drill down to the detailed business documents at any point in time and instantaneously.

Here an example for the Payment Method Invoice. The Hyper-Dashboard provides an overview of the top measures for process improvements.



The Ranker table gives the details behind the Hyper-Dashboard.

**Ranker** Filter by Scopes: All Data

R Squared: 0 to 1 (Slider) Apply

**Indicators**

- Waste Reduction Rate (WRR)
- Profit Margin
- Order Acceptance Deviation
- ReplLeadTimeDeviation
- Number of Payment Targets
- Realized Price
- Single Sourcing Rate (SSR)
- Late Invoicing Rate
- Delivered On Time (DOT)
- Days Inventory Outstanding (DIO)
- Average Temperature
- SafetyStock

NPI	NLI	Driver	Indicator	R Squared	Correlation	Actuals	Gain	Scope
601,917,952	40,704.1	Delivered On...	Days Invento...	0.05	0.23	€14,787.66k	€11,839,552...	PaymentMet...
567,153,024	38,353.1	PurExactDeli...	Days Invento...	0.06	0.25	€14,787.66k	€8,897,089.5...	PaymentMet...
558,322,112	40,228.5	PurExactDeli...	Days Invento...	0.07	0.26	€13,878.75k	€8,437,466.6...	[[invoicing_d...
551,381,504	1,133,087.3	ReplLeadTi...	Days Invento...	0.24	0.49	€486.62k	€2,317,477.3...	[[customer_r...
541,763,584	39,035.5	Delivered On...	Days Invento...	0.05	0.22	€13,878.75k	€11,146,345...	[[invoicing_d...
368,957,248	13,932.0	Replenishme...	Days Invento...	0.53	0.73	€26,482.77k	€692,769.54k	[[part_type:[9]]
249,010,336	16,839.1	ReplLeadTi...	Days Invento...	0.02	-0.14	€14,787.66k	€13,503,370...	PaymentMet...
248,111,296	25,661.8	ReplLeadTi...	Days Invento...	0.02	-0.19	€9,668.50k	€6,729,405.4...	[[customer_i...
205,359,856	14,796.7	ReplLeadTi...	Days Invento...	0.04	-0.13	€13,878.75k	€11,834,033...	[[invoicing_d...
176,447,920	32,377.2	PurExactDeli...	Days Invento...	0.09	0.30	€5,449.76k	€1,909,336.5...	[[customer_a...
174,167,904	23,651.6	ReplLeadTi...	Days Invento...	0.03	-0.16	€7,363.89k	€6,652,653.0...	[[customer_a...
172,000,192	3,384.2	Delivered On...	Days Invento...	0.05	0.23	€50,825.06k	€3,189,364.7...	[[part_a_b_c...
171,797,920	3,349.2	Delivered On...	Days Invento...	0.05	0.23	€51,294.62k	€3,269,720.8...	[[invoice_doc...
171,730,720	3,349.2	Delivered On...	Days Invento...	0.05	0.23	€51,274.56k	€3,268,441.8...	[[supplier_a...
160,876,304	3,136.3	PurExactDeli...	Days Invento...	0.07	0.26	€51,294.62k	€2,386,454.0...	[[invoice_doc...
160,813,376	3,136.3	PurExactDeli...	Days Invento...	0.07	0.26	€51,274.56k	€2,385,520.6...	[[supplier_a...
152,162,416	2,993.8	PurExactDeli...	Days Invento...	0.07	0.26	€50,825.06k	€2,277,224.4...	[[part_a_b_c...
141,023,744	14,585.9	Delivered On...	Days Invento...	0.10	0.31	€9,668.50k	€1,458,552.4...	[[customer_i...
128,455,368	13,286.0	PurExactDeli...	Days Invento...	0.06	0.25	€9,668.50k	€2,082,220.8...	[[cus Provide feedback

And the Focus view gives the details behind the Ranker table. And all within seconds.

**Focus** Filter by Scopes: Temporary scope

Start Analysis View

Zoom in Exclude Zoom out Back Next C

Attributes: 732 of 732 Objects: 237,183 of 2,791,918

**CustomerIndustry** 28 values

Value	Frequency
Power	101605
Building technology	75514
General Industry	32122
Process	12003
Sonstige	6878

**Infoscape**

Delivery Data

- ShippingType
- ShippingDateActual
- ShippingDate
- DeliveryDate
- Count(DeliveryDate): 143568
- DeliveryDateActual
- Count(DeliveryDateActual): 139256
- RequestedDate
- TransportTime
- Mean(TransportTime): 2

General

**ShippingDate** 862 + 1 values

Date	Frequency
2017-12-20	1
2018-03-22	2
2018-06-28	1
2018-07-09	7
2018-07-11	1

**CustomerABCClassification** 5 values

Value	Frequency
-	6017
A	99254
B	68432
C	23851
D	39629

**CustomerState** 1448 values

State	Frequency
State 100000	292
State 100001	38
State 100003	23
State 100005	2
State 100006	2

App version: 0.34.2 Provide feedback

### Instantly Live

NEMO doesn't need any customization. Even chart-of-account or financial calendar are not needed for NEMO to function.

# New and Changed Features

## Comprehensibility improvements (NEW and IMPROVED)

The layout of all NEMO apps is much cleaner now. Also new and more up to date ui components are used e.g., searching is now available in a lot more parts of NEMO then before.

All lists are sorted alphabetically in ascending order. And tooltips in various places help understanding NEMO better.



**Ranker**

Indicators: Days Sales Outstanding (DSO)

NPI	NLI	Driver	Indicator	R Squared	Correlation	Actuals	Gain	Scope
4,399,660	317	Number of Payment T...	Days Sales Outstandin...	0.58	-0.76	€13,899,84k	€7,638,12k	[[mvm_m_r_p_catego...
4,393,066	316	Number of Payment T...	Days Sales Outstandin...	0.58	-0.76	€13,901,30k	€7,635,49k	[[part_a_b_c_classificat...
3,612,796	319	Number of Payment T...	Days Sales Outstandin...	0.58	-0.76	€11,326,68k	€6,248,96k	[[supplier_a_b_c_classi...
36	319	Number of Payment T...	Days Sales Outstandin...	0.58	-0.76	€11,326,68k	€6,248,96k	[[supplier_industry:[]]]
31	240	Early Payments Rate	Days Sales Outstandin...	0.4	0.63	€13,901,30k	€8,306,40k	[[part_a_b_c_classificat...
34	239	Early Payments Rate	Days Sales Outstandin...	0.4	0.63	€13,899,84k	€8,292,72k	[[mvm_m_r_p_catego...
32	369	Number of Payment T...	Days Sales Outstandin...	0.56	-0.75	€8,411,15k	€5,502,10k	[[mvm_m_r_p_catego...
30	322	Number of Payment T...	Days Sales Outstandin...	0.56	-0.75	€8,833,32k	€5,107,69k	[[part_type:[9]]]
38	238	Early Payments Rate	Days Sales Outstandin...	0.4	0.63	€11,326,68k	€6,724,12k	[[supplier_a_b_c_classi...
38	238	Early Payments Rate	Days Sales Outstandin...	0.4	0.63	€11,326,68k	€6,724,12k	[[supplier_industry:[]]]
38	238	Dunning Rate	Days Sales Outstandin...	0.42	0.65	€13,899,84k	€6,158,59k	[[mvm_m_r_p_catego...
38	238	Dunning Rate	Days Sales Outstandin...	0.42	0.65	€13,901,30k	€6,137,01k	[[part_a_b_c_classificat...
38	238	Early Payments Rate	Days Sales Outstandin...	0.47	0.68	€7,577,21k	€4,931,50k	[[supplier_a_b_c_classi...
38	238	Number of Payment T...	Days Sales Outstandin...	0.53	-0.73	€9,006,16k	€4,268,68k	Power (customer indu...
34	243	Early Payments Rate	Days Sales Outstandin...	0.39	0.62	€9,006,16k	€5,674,85k	Power (customer indu...
35	190	Dunning Rate	Days Sales Outstandin...	0.42	0.65	€11,326,68k	€5,136,89k	[[supplier_industry:[]]]
35	190	Dunning Rate	Days Sales Outstandin...	0.42	0.65	€11,326,68k	€5,136,89k	[[supplier_a_b_c_classi...
36	240	Early Payments Rate	Days Sales Outstandin...	0.4	0.63	€8,833,32k	€5,261,11k	[[part_type:[9]]]
37	247	Average Deviation Pur...	Days Sales Outstandin...	0.68	0.83	€8,411,15k	€3,033,30k	[[mvm_m_r_p_catego...
37	240	Early Payments Rate	Days Sales Outstandin...	0.4	0.63	€8,411,15k	€5,037,32k	[[mvm_m_r_p_catego...
1,742,944	194	Order Acceptance De...	Days Sales Outstandin...	0.65	0.81	€9,006,16k	€2,669,13k	Power (customer indu...

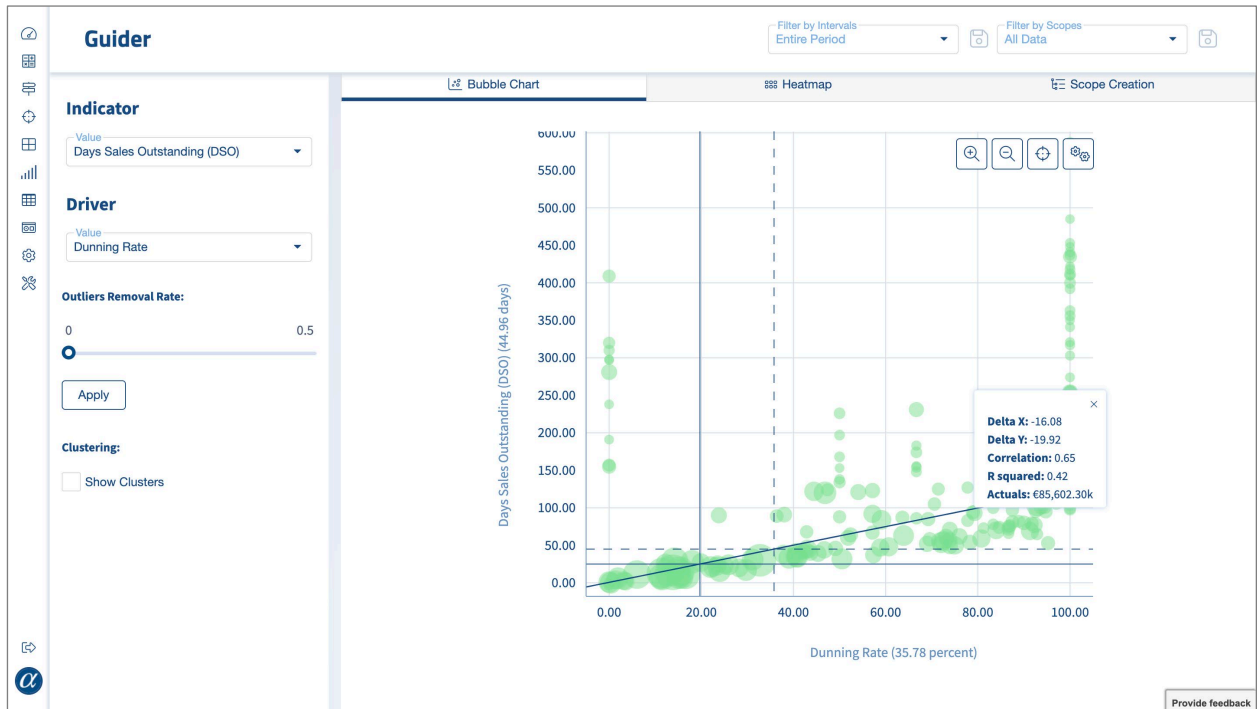
Tooltip for Avg Price Bandwidth: The average price bandwidth is an indicator of price quality in terms of material supply and an indicator of process stability in terms of real production costs. Calculation: Determination of the standard deviation of material costs from the material movements compared to the average costs of these parts.



More and more precise Metrics (NEW and IMPROVED)

Dunning Rate (NEW)

Dunning is a critical process in every enterprise. But due to its sensitive nature it is hardly assessed with respect to its effect on the company performance. Hence, we enabled its qualitative and quantitative analysis with NEMO.



The qualitative effect on DSO is probably no surprise as such. But the quantitative effect is typically unknown today.

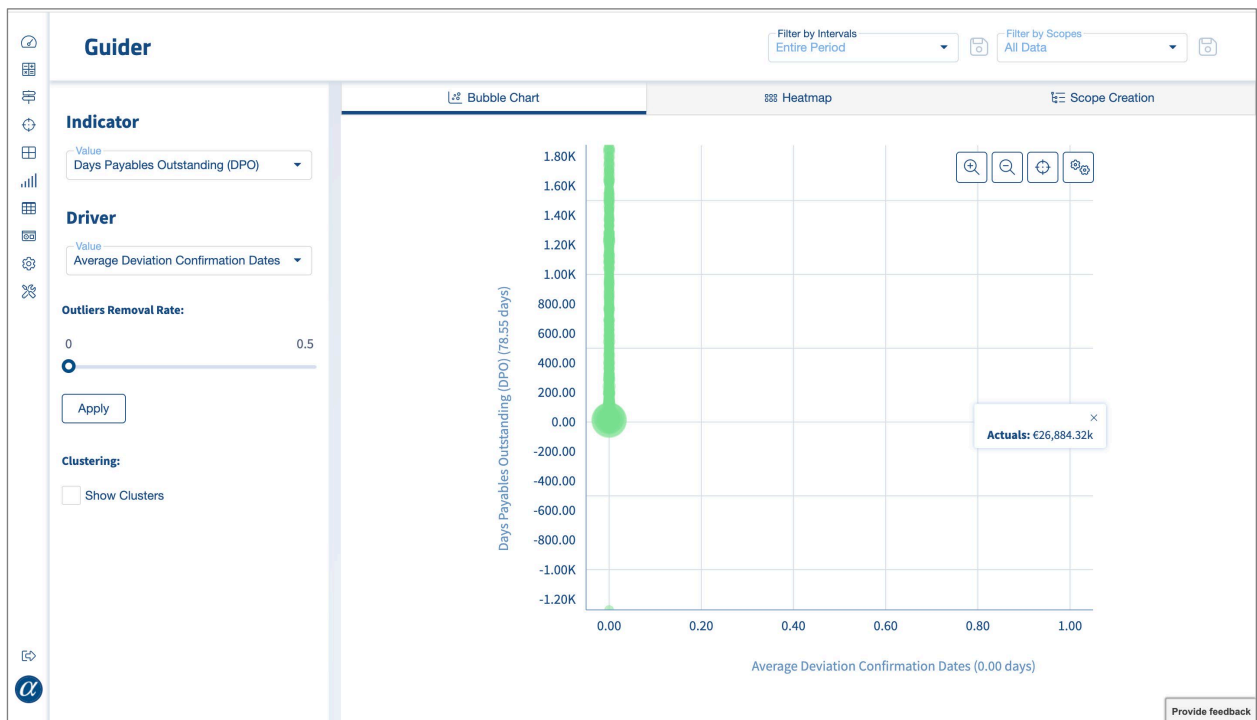
### Average Deviation Purchasing Confirmation Date (NEW)

Deviation between last purchasing confirmation date to requested date in purchasing order.



### Average Deviation Confirmation Dates (NEW)

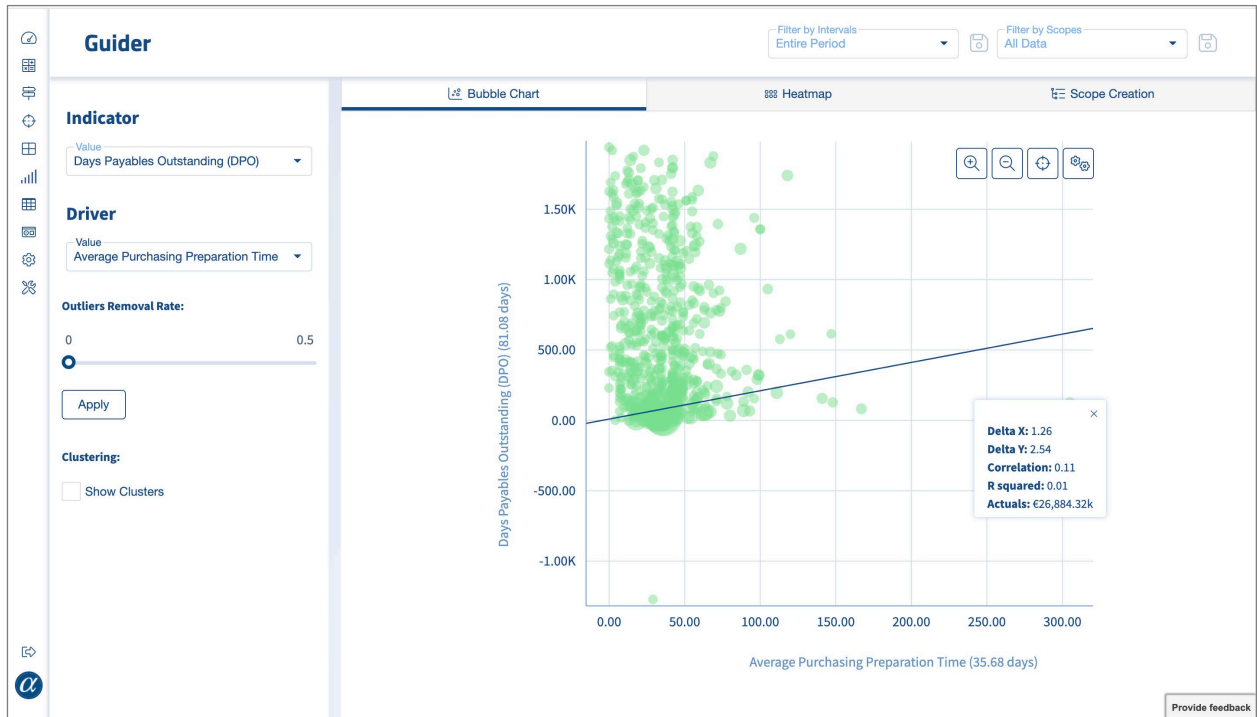
Average time between first and last confirmation dates of purchasing order.



Please note that there is only little deviation in the reference data set.

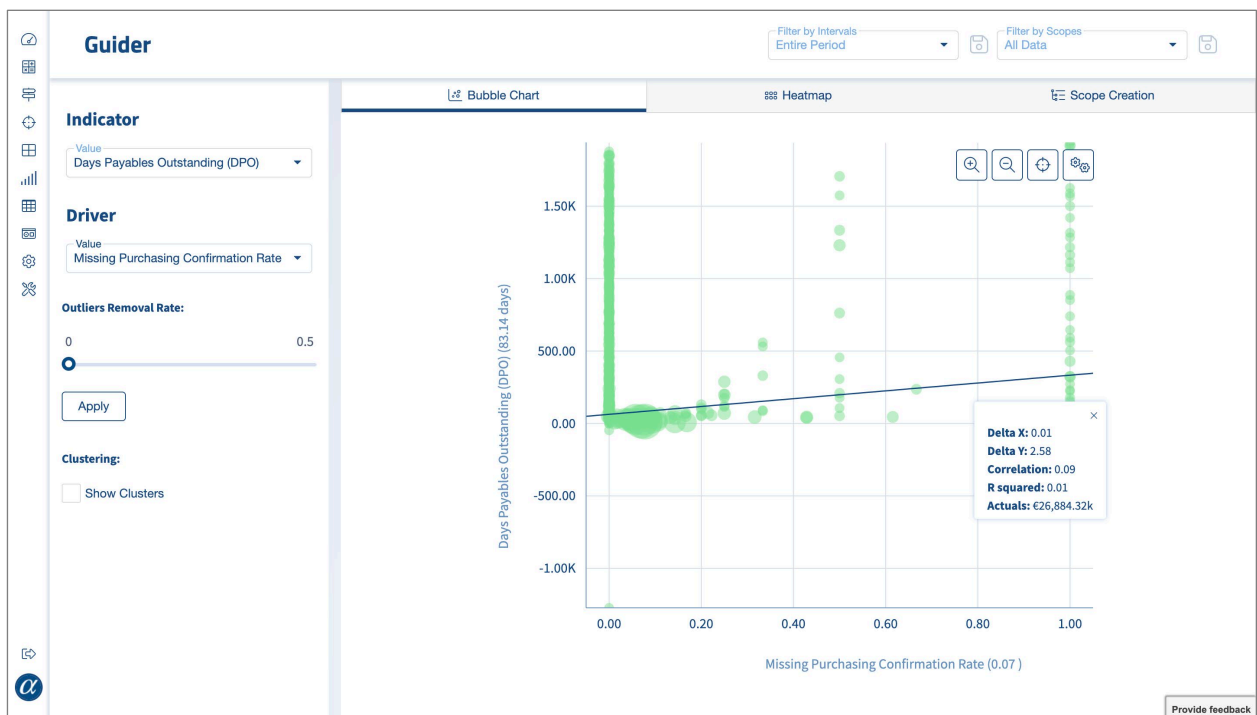
### Average Purchasing Preparation Time (NEW)

Preparation time difference between requested date and creation date in purchasing order.



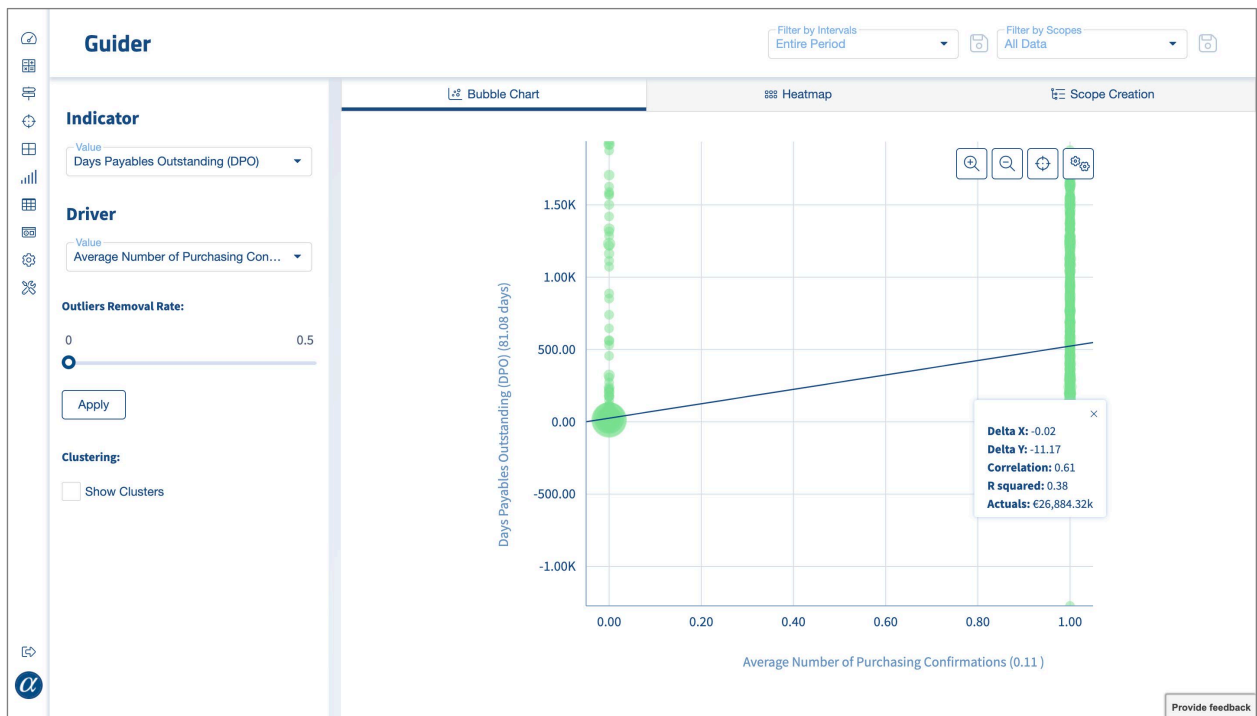
### Missing Purchasing Confirmation Rate (NEW)

Reflects the average number of purchasing order lines without purchasing confirmations due to planning certainty. Calculation: Purchasing orders without a purchasing confirmation are determined from the process data.



## Average Number Purchasing Confirmations (NEW)

Average number of purchasing confirmations per order line.



## Scopes in Metrics (NEW)

In order to enable more precise metrics, we extended the implicit data restriction with an explicit restriction capability now. This is facilitated by adding a scope in the metric definition where desired.

### Define new Metric

Display Name \*  
Enter Display Name...

Internal Name \*  
Enter Internal Name...

Description  
Enter Description...

Unit: without unit | Optimization Orientation: Select...

Column definition and first aggregation

Aggregate to: No aggregation

+ Column: Add aggregation for column

Second aggregation

Group By \*  
Enter Group by...

Formula  
Enter Formula...

Restrict by Scope  
Select...

Case in point is the amended metric DIO.

Natural DIO is a measure of the Tied-up Cash in a company's inventory, describing the number of days that the inventory would last if consumed at the current rate. Calculation: Value of inventory (as determined by the price per unit) divided by daily Consumption. It is called Natural DIO if, like in NEMO, it is calculated from the totality of all data rather than aggregated balance sheet data.

Unit: days | Optimization Orientation: Min

Column definition and first aggregation

Aggregate to: part\_i\_d

Column: d_i_o_days	Aggregation: maximum
Column: d_i_o_days_weighted	Aggregation: maximum
Column: mvmt_average_costs_total_corp_cur	Aggregation: maximum
Column: Add aggregation for column	

Second aggregation

Group By: d\_i\_o\_days

Formula:  $\text{sum}(d\_i\_o\_days\_weighted) / \text{sum}(mvmt\_average\_costs\_total\_corp\_cur)$

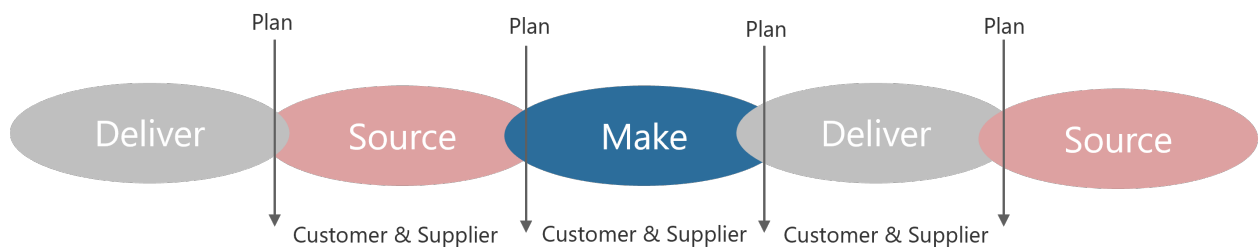
Restrict by Scope: SKU

Here we restricted the evaluation of the metric to stock keeping units only. This yields more precise results, especially gain, though changing the numbers slightly in this case of DIO.

**Canonical SCOR processes Scopes**

The SCOR model depicts the workings of an enterprise in a standardized manner. Example would be the supply chain.

**A Supply Chain**



Reflecting this process structuring can be helpful in creating more precise metrics. Hence, we introduced "Process Source", "Process Make" and "Process Deliver" as standard scopes.

Description  
Cash paid out to suppliers.

Unit  
currency

Optimization Orientation  
Min

Column definition and first aggregation

Aggregate to  
No aggregation

🗑️

Column

payment\_open\_item\_paid\_c\_c

Aggregation

maximum

🗑️

Column

payment\_target

Aggregation

maximum

+

Column

Add aggregation for column

Second aggregation

Group By \*

payment\_target

Formula

sum(payment\_open\_item\_paid\_c\_c)

Restrict by Scope

Process Source

We made use of some of these new standard scopes to make the metrics Cash Paid and Cash Received more precise.

Description  
Cash paid out to suppliers.

Unit  
currency

Optimization Orientation  
Min

Column definition and first aggregation

Aggregate to  
No aggregation

🗑️

Column

payment\_open\_item\_paid\_c\_c

Aggregation

maximum

🗑️

Column

payment\_target

Aggregation

maximum

+

Column

Add aggregation for column

Second aggregation

Group By \*

payment\_target

Formula

sum(payment\_open\_item\_paid\_c\_c)

Restrict by Scope

Process Source

Description  
Cash received from customers.

Unit  
currency

Optimization Orientation  
Max

Column definition and first aggregation

Aggregate to  
No aggregation

🗑️

Column

max

Aggregation

maximum

🗑️

Column

max

Aggregation

maximum

+

Column

Add aggregation for column

Second aggregation

Group By \*

payment\_target

Formula

sum(payment\_open\_item\_paid\_c\_c)

Restrict by Scope

Process Deliver

### Auto crawling of MvmtMRPCategory (NEW)

Based on customer feedback we enabled the exported column MvmtMRPCategory for auto crawling.

#### MvmtMRPCategory

Conflict State  
 NoConflict

Display Name \*  
 MvmtMRPCategory

Internal Name \*  
 mvmt\_m\_r\_p\_category

Description  
 #ERP-Origin: character/'MD\_Artikel\_DispoArt\_Info'/

Unit  
 without unit

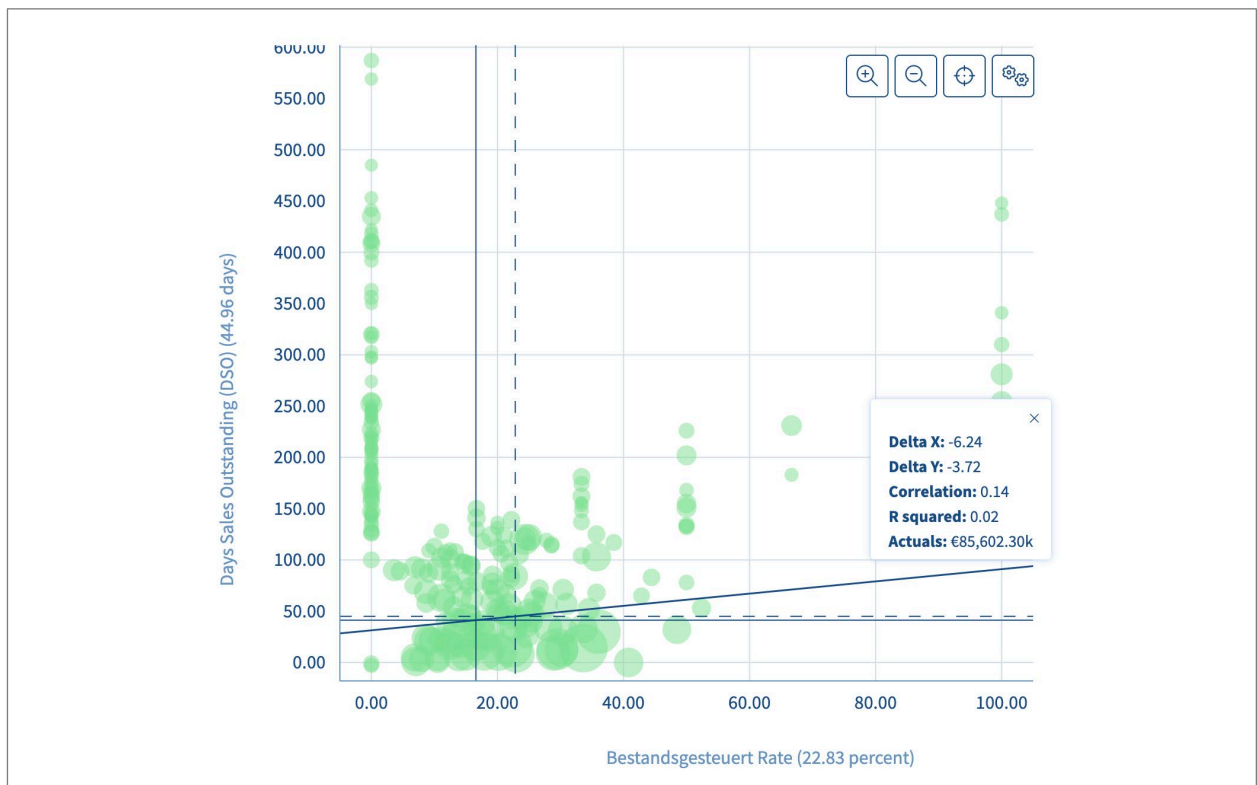
Data Type \*  
 string

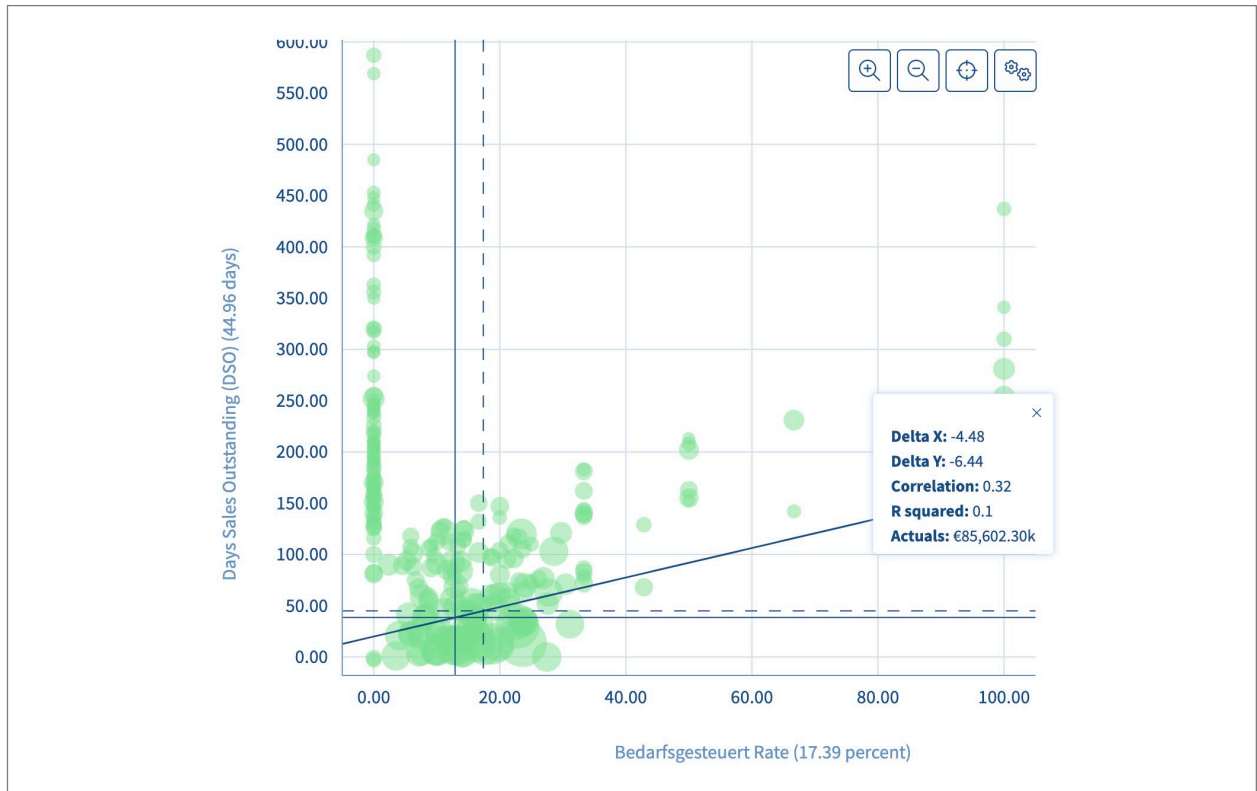
Attribute Group Internal Name  
 general

Categorial Type: 
Business Event:

This way new maybe custom-specific metrics can be derived leveraging the ranker results.

Two examples would be:





Such metrics might come in quite handy for dealing with the currently brittle supply chain conditions.

**Scope “Is Crawlable” Flag (NEW)**

Only if the “Is Crawlable” flag is set on (check mark set) in the scope definition this scope will be crawled. Otherwise, it will be ignored by the crawler.

**SKU**

Name: SKU

Description: Stock keeping units.  
Required for DIO calculation among others.

```
[
  [
    {
      "column": "part_type",
      "values": [
        "4"
      ],
      "include": true,
      "from": null,
      "to": null,
      "restrictionType": null
    }
  ],
  {

```

Is Crawlable:



The scope SKU will not be crawled with this setting of the "Is Crawlable" flag.

## Reports (NEW and IMPROVED)

### (SAMPLE) Most Profitable Customers (NEW)

Customers are ranked by their profit margin.

Customer id	Name	Industry	Country	City	Profit margin	Profitability ranking
101069	Ahlers-Kemper	Sonstige	Country 101069	Bad Zurzach	100.00	1
100990	AH Liebmann	General Industry	Country 100990	Bad Zurzach	100.00	1
103242	Aileen	Power	Country 103242	Balve-Binolen	100.00	1
103322	Aixtra Sport	Power	Country 103322	Banteln	100.00	1
103195	Agravis Landmaschinen	Oberflächenveredelung und Wärmebe...	Country 103195	Bad Soden im Taunus	100.00	1
103263	A. Jochem - TUI TRAVELStar	Power	Country 103263	Barby	100.00	1
101428	AKTIV-MARKT Steinmaier	Power	Country 101428	Bautzen OT Niederkaina	100.00	1
100218	Alzente Herrenmode	Building technology	Country 100218	Bedburg-Hau-Huisberden	100.00	1
103439	ala la Casa del Fiore	General Industry	Country 103439	Beelitz-Heilstätten	100.00	1
103356	A. Klebe	Power	Country 103356	Barnstorf	100.00	1
102245	Alara by Italy	Building technology	Country 102245	Beetzseeheide	100.00	1
103443	Alarm-Zentrale Ulrich Baumewerd e.K.	Power	Country 103443	Behl	100.00	1
101580	Albatros Apotheke	Power - Waste, Sludge	Country 101580	Beidenfeth	100.00	1
101339	Alkenta Getränkemarkt	Power	Country 101339	Beckum	100.00	1
103493	Alber-Der Metzger oHG	Power	Country 103493	Beilrode	100.00	1
102017	absolut tabu	Power	Country 102017	Arnsberg-Holzén	100.00	1
102949	Aber Hallo Getränkecenter	Chemistry	Country 102949	Anhausen	100.00	1
102977	24h Automat	Building technology	Country 102977	Aichach	100.00	1
101888	ABC-Schuh	Power	Country 101888	Ammerbuch - Poltringen	100.00	1
103303	Airfield	General Industry	Country 103303	Balve - Grückeck	100.00	1
103422	Akustik Kastner	Power	Country 103422	Bechhofen-Sachebach	100.00	1
103466	Alanya	Power	Country 103466	Beesten	100.00	1

### (SAMPLE) Most Profitable Parts (NEW)

Parts are ranked by their profit margin.

Part id	Part group	Part type	Part desc 1	Part desc 2	Part desc 3	Part desc 4	Profit margin	Profitability ranking
10243	1381	Cost/Service Part	10 Spiele-Hits Vol. 1 (2003, m...				100.00	1
10064	1311	Service Item	31 for Windows (1998, Ultiso...				100.00	1
322247	2514	Assembly General	3D Ms. Maze: Tropical Adven...				100.00	1
10205	1381	Cost/Service Part	3D Ultra Mini Golf Adventure...				100.00	1
10174	1381	Cost/Service Part	3x3 Eyes: Juma Hokan (1995, ...				100.00	1
10198	1311	Service Item	The 4th Unit (1987, Data Wes...				100.00	1
10074	1311	Service Item	4 Wheel Drive (1991, Gremlin...				100.00	1
17541700	1212	End Product	A Jumper Robot Adventure (...				100.00	1
10176	1381	Cost/Service Part	Akinator (2007, Scimob) (And...				100.00	1
17092200	1911	End Product	Amped 3 (2005, 2K Sports) (...				100.00	1
348110	3259	Purchased Parts	Abarenbo Princess (2001, Ent...				100.00	1
10084	1381	Cost/Service Part	AeroWings (1999, Crave Ente...				100.00	1
10199	1311	Service Item	AeroWings 2: Air Strike (2000...				100.00	1
10244	1381	Cost/Service Part	A Fairy Tale (2009, Rock Solid...				100.00	1
321783	2433	Assembly General	Arc the Lad: End of Darkness ...				100.00	1
317527	ZC	Assembly General	Arc the Lad: Twilight of the S...				100.00	1
15684500	AV	End Product	Arctic (1988, Artthink Corpora...				100.00	1
319319	4999	Purchased Parts	Annihilate (2013, Unknown P...				100.00	1
348240	3259	Purchased Parts	Antago (1990, Art of Dreams)...				100.00	1
15502200	1124	End Product	Assault Wings 1944 (2005, G...				100.00	1
333056	ZC	Assembly General	Astal (1995, SEGA Enterprises...				100.00	1
CFG384338	1921	Configured Part	Banzai (1989, Swedish Softw...				100.00	1

## (SAMPLE) Payment Dunning Analysis (NEW)

The main purpose of this report is to display information about specific customers who have experienced payment dunning.

Invoice no	Customer id	Name	Industry	Country	City	Dunning rate	Last dunning date	Dunning date deviati...	Last dunning level	Dunning level check
20405334	101045	1a-Autoreparatur	Power	Country 101045	Adorf	6	2020-10-05	52	2	raised
20405337	101165	16 Boutique Matthies	Power	Country 101165	Adelmannsfelden	6	2020-10-05	0	1	unchanged
20405342	100151	1a Autoservice Maik Le...	Building technology	Country 100151	Affeking	4	2020-12-14	122	3	raised
20405346	101191	17 Netto Marken-Disc...	Power	Country 101191	Adelsdorf	7	2020-08-14	0	0	unchanged
20405359	101070	1000 Kleine Dinge	Power	Country 101070	Aasen	4	2020-08-14	0	0	unchanged
20405373	100814	02 Reisecenter Delphini	Power	Country 100814	Aachen	2	2020-09-03	20	0	unchanged
20405388	100151	1a Autoservice Maik Le...	Building technology	Country 100151	Affeking	4	2020-12-14	122	3	raised
20405394	100648	1a Autoservice Martin	General Industry	Country 100648	Affing	4	2020-09-16	0	1	unchanged
20405396	100814	02 Reisecenter Delphini	Power	Country 100814	Aachen	8	2020-09-03	20	0	unchanged
20405419	100869	24 H Shop	General Industry	Country 100869	Aichelberg	6	2020-10-05	0	1	unchanged
20405421	101057	24h Videostore	Power	Country 101057	Aichstetten	2	2020-10-21	16	2	raised
20405463	100073	1-2-3 Autoservice	Building technology	Country 100073	Ach	2	2020-10-21	48	1	raised
20405468	100814	02 Reisecenter Delphini	Power	Country 100814	Aachen	10	2020-09-16	13	0	unchanged
20405470	100871	28 Modefisur Studio H	General Industry	Country 100871	Ainning - Hammerau	2	2020-12-14	102	2	raised
20405598	101141	2-rad	Power	Country 101141	Albisheim	16	2020-09-16	0	0	unchanged
20405612	101070	1000 Kleine Dinge	Power	Country 101070	Aasen	3	2020-09-03	0	0	unchanged
20405623	101045	1a-Autoreparatur	Power	Country 101045	Adorf	9	2020-10-05	32	2	raised
20405625	101467	18a Fleischererei Kaschau	Power	Country 101467	Adelsdorf-Neuhaus	90	2020-10-05	0	1	unchanged
20405634	101127	1000 Körner	Building technology	Country 101127	Abbandorf	56	2020-09-16	13	0	unchanged
20405636	101127	1000 Körner	Building technology	Country 101127	Abbandorf	10	2020-09-16	13	0	unchanged
20405637	101127	1000 Körner	Building technology	Country 101127	Abbandorf	22	2020-09-16	13	0	unchanged
20405651	100814	02 Reisecenter Delphini	Power	Country 100814	Aachen	22	2020-09-16	13	0	unchanged

## (SAMPLE) Waste Rate Analysis (NEW)

This report contains some parts with a high percentage of waste. Therefore, the main purpose of this report is to inform the customer which part IDs need more attention.

Part id	Part group	Part type description	Part desc 1	Part desc 2	Part desc 3	Part desc 4	Movement amount	Waste	Waste rate
103547	4611	Purchased Parts	005 (1981, SEGA Enterpris...				2283	6	0.26
111776	4632	Purchased Parts	007: Everything or Nothin...				3298	17	0.51
119928	4743	Purchased Parts	007: Everything or Nothin...				144	1	0.69
111772	4632	Purchased Parts	10 Great Games (1987, Gr...				4007	7	0.17
103551	4611	Purchased Parts	10 Jahre Interaktive Unter...				1700	6	0.35
100655	2612	Purchased Parts	10... Knockout! (1985, Am...				3681	3	0.08
103542	4611	Purchased Parts	17 Ritter: Auf der Suche n...				2617	6	0.22
111771	4632	Purchased Parts	10six Online (1998, SegaS...				4002	8	0.19
103508	2651	Purchased Parts	10 Talismans (2006, Nevo...				2138	1	0.04
101215	4511	Purchased Parts	1991 Du Ma Racing (1991...				1247	2	0.16
104379	4611	Purchased Parts	1-1 (2007, UltimateArcade...				610	2	0.32
329095	4999	Make-To-Stock Assembly	2400 A.D. (1987, ORIGIN ...				803	2	0.24
103544	4611	Purchased Parts	25,000 Sudoku Puzzles (2...				2149	2	0.09
329097	4999	Make-To-Stock Assembly	2in1: Zirkus Tycoon + Airli...				1394	2	0.14
103550	4611	Purchased Parts	2K Essentials Collection: B...				1509	2	0.13
104294	4623	Purchased Parts	2K Power Pack: The Darkn...				115	1	0.86
100656	2612	Purchased Parts	2 Pak Special: Cavern Blas...				2011	3	0.14
107442	2651	Make-To-Stock Alternative	2 Shot Diary (1994, Mink ...				1344	6	0.44
103561	4611	Purchased Parts	2 Shot Diary 2: Memory 1...				1693	1	0.05
336041	4999	Purchased Parts	3D Bat Attack (1984, Che...				655	1	0.15
104378	4611	Purchased Parts	3D Maze (1984, Masterbro...				885	3	0.33
103532	2335	Purchased Parts	3D Pool (2004, dbi Games...				359	1	0.27

### (SAMPLE) Customer ABC Classification (IMPROVED)

An error in Profit Margin calculation has been fixed.

### (SAMPLE) Operating Cash Flow (IMPROVED)

There was a discrepancy between the definition of metrics (cash paid and cash received) and key figures in reports. The way the key figures are calculated has been adjusted and now the values are consistent.

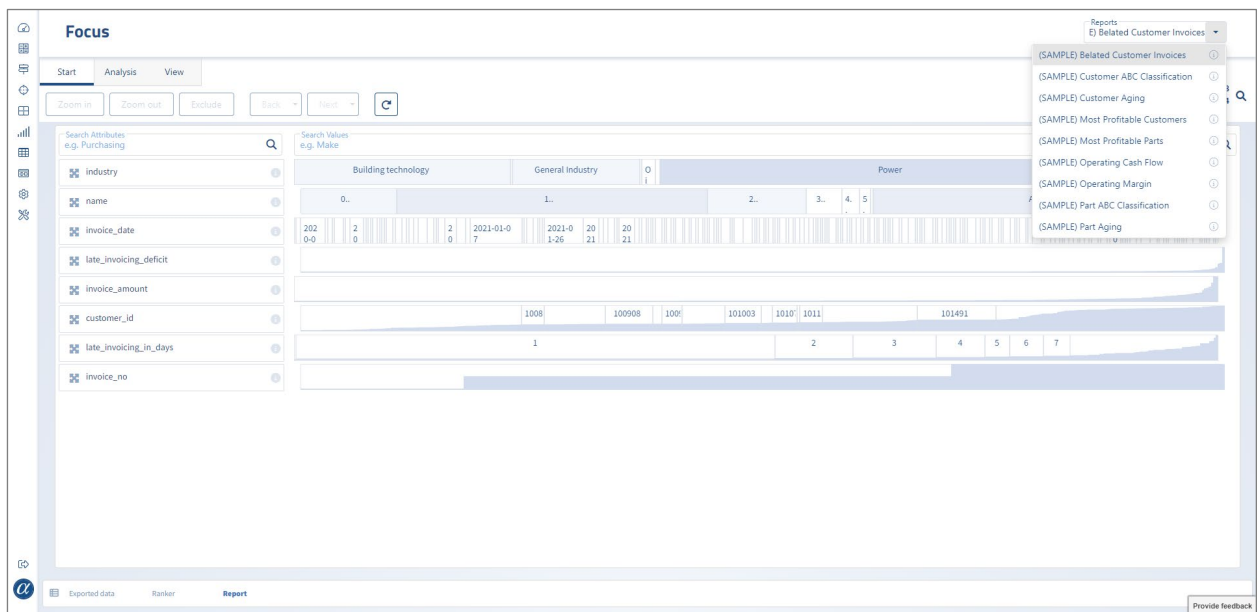
### (SAMPLE) Replenishment Time Analysis (IMPROVED)

The Replenishment time analysis has been simplified. Previous versions of reports had problems with too many columns and complex calculations making them difficult to read. Therefore, we redesigned the report by selecting only the practical columns.

### Focus (NEW and IMPROVED)

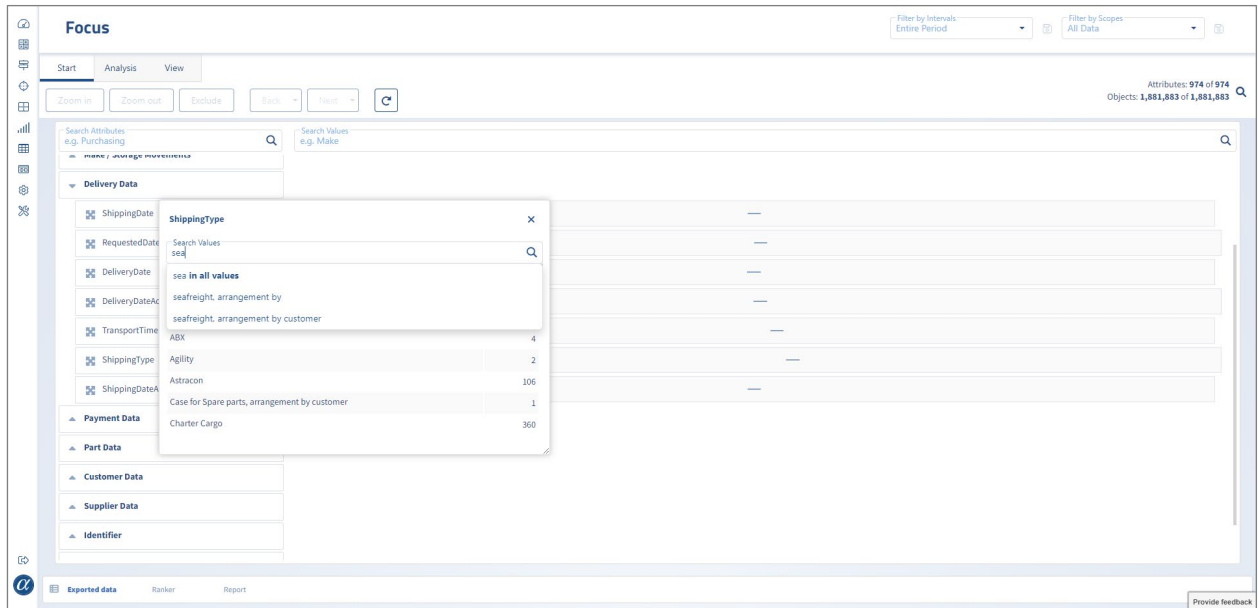
#### NEMO Reports Infoscape (NEW)

In addition to the Default Infoscape NEMO Reports data can now be analyzed with Focus as well.



### Searching in Value Lists (IMPROVED)

Searching in Value Lists now supports autocompletion.



## Compatibility and Limitations

### Compatibility

NEMO is compatible with all ERP releases from 6.1 onwards.

### Functional Limitations

Following functionality is restricted as of now:

- WRR doesn't comprise production waste yet.
- Updating of Reports is not supported yet.
- Calculations of Driver and Indicators are not based on Intervals yet.

### Component Status

- Project Management support is only available as beta currently.
- Qlik integration doesn't function yet.

### Known Issues

- None

## Documentation

Apart from this Release Letter, the following documentation is available from pAWorld (<https://paworld.proalpha.com/display/RN/Knowledge>).

- NEMO Glossary 2022-06-24 (no update)
- NEMO Data Structure 2022-05-13 (no update)
- NEMO Formula Syntax 2022-07-22 (no update)

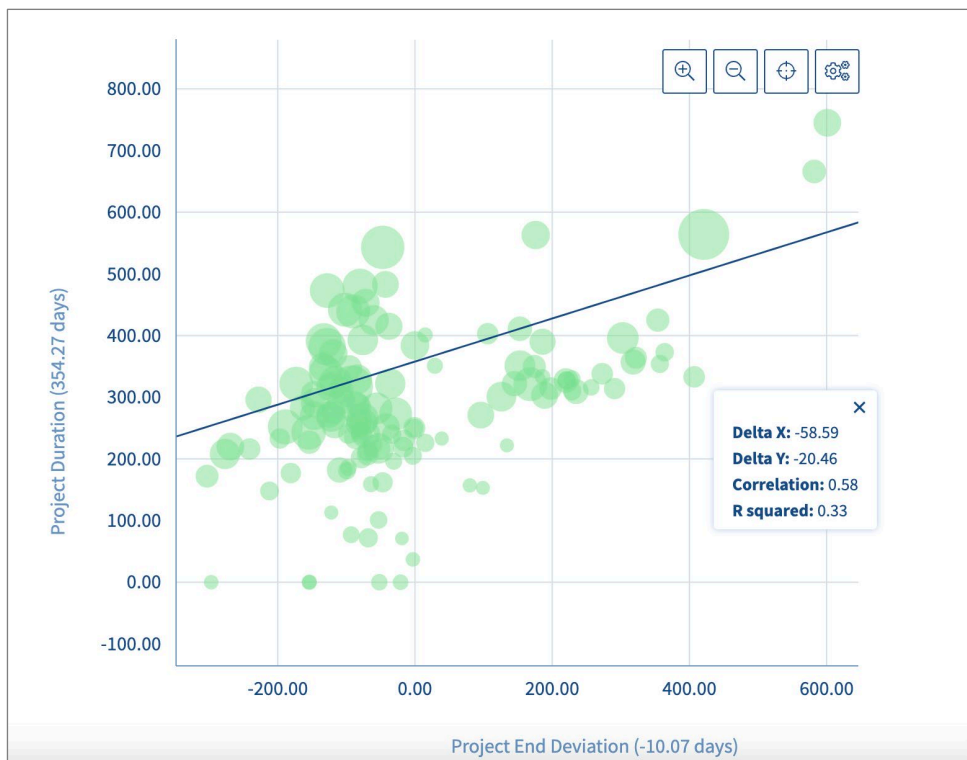
## Availability

All customer environments as well as DEMO have been updated already.

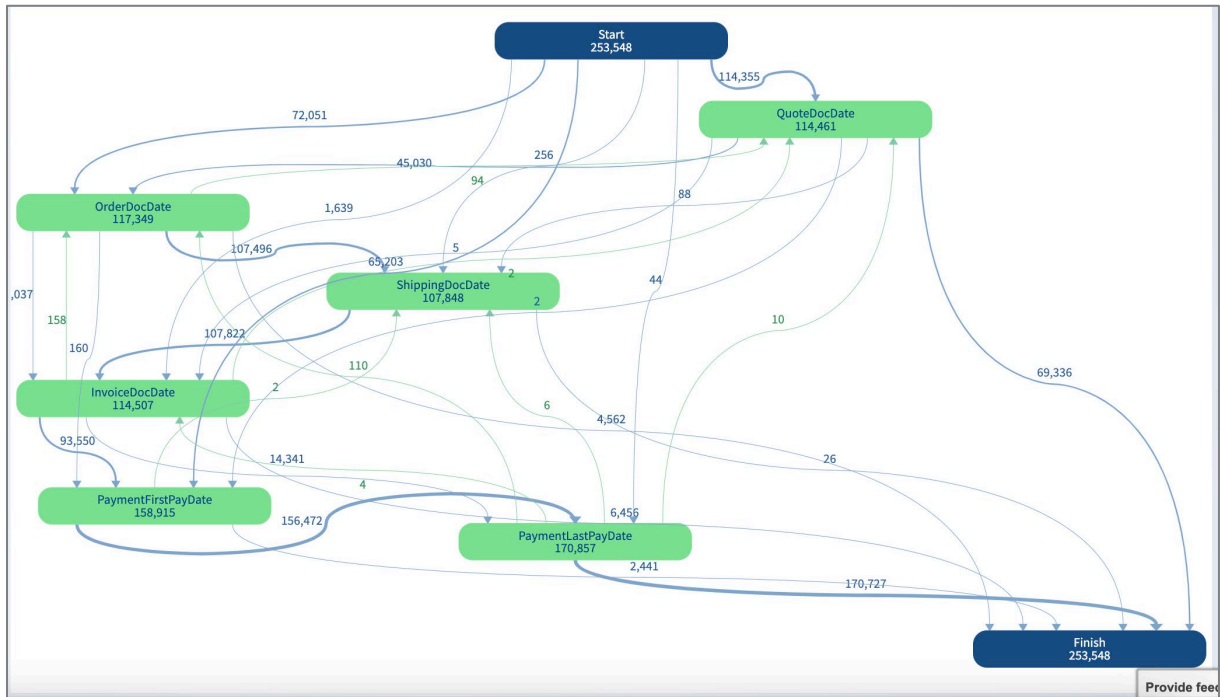
## Early Adopter Program

Here a sneak preview of our new emerging capabilities.

### Project Management



Process Mining



Panels

