

## **Linde plc Procurement**

Data, Systems, Processes & Compliance (DSPC)

September 2020 Theofanis Zoumis

Making our world more productive



#### The New Linde



- → The leading industrial gases and engineering company
- → Formed in 2018 with the merger of Linde AG and Praxair, Inc – two world-class companies with nearly 140 years of shared history and successful achievements

Uniting with a shared Vision,
Mission and Strategic
Direction, and demonstrating
Our Values and Behaviors in
everything we do

customers
salishing an initiate and balanced portfolio

100+

#### countries

Enabling strong, complementary positions in all key geographies and end markets

~80,000 employees

Achieving our full potential, individually and collectively

\$8 million

charitable giving in 2019

Supporting our communities through contributions and employee volunteerism

6,500+
active patent assets

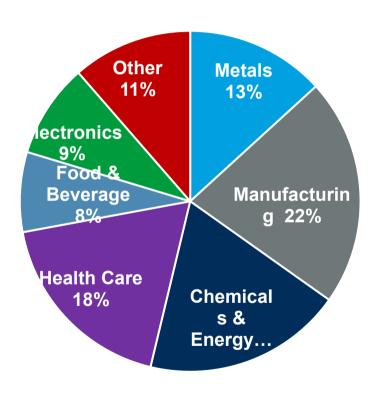
active patent assets worldwide

Leading with innovative products, solutions and technologies

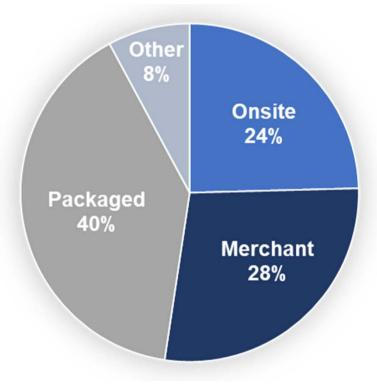
#### **2019 Sales**<sup>(1)</sup>



#### **End Market**



#### **Distribution Mode**



### **Linde plc Procurement Snapshot – YE 2019**



17.2 B\$ Linde 3rd-Party Spend\*



~8k Saving Initiatives



12 Main Commodities 836 Material Groups



~2.1M POs\*\*
and
~9.1M Invoices\*\*



~1100 FTEs in Procurement



80 Countries
with
Procurement presence



>40 ERP Systems

>100k Suppliers thereof >9k A-Suppliers



#### **Data, Systems, Processes & Compliance**

#### Strategic intent and scope



#### Data



- Standardise reporting and KPIs
- Maturity Roadmap
- Monitor procurement performance & controlling
- Discover savings
   opportunities through data transparency

- Design and implement digital tool landscape, e.g.
  - Procurement suite
  - Marketplace for Cmaterials
- Change Management and user training / support

#### **Systems**



#### **Processes**



- Reduce process cost by streamlined processes, e.g.
  - Increase PO automation
  - Robots for repetitive tasks
- Govern processes to ensure compliance

- Develop and implement policies
- Ensure SOX & GDPR compliance
- Mitigate and resolve internal audit findings
- Invoice Audit on overpaid invoices





## Linde Marketplace LMP What is it all about?



In 2019

... 750 SRM users have the same problem







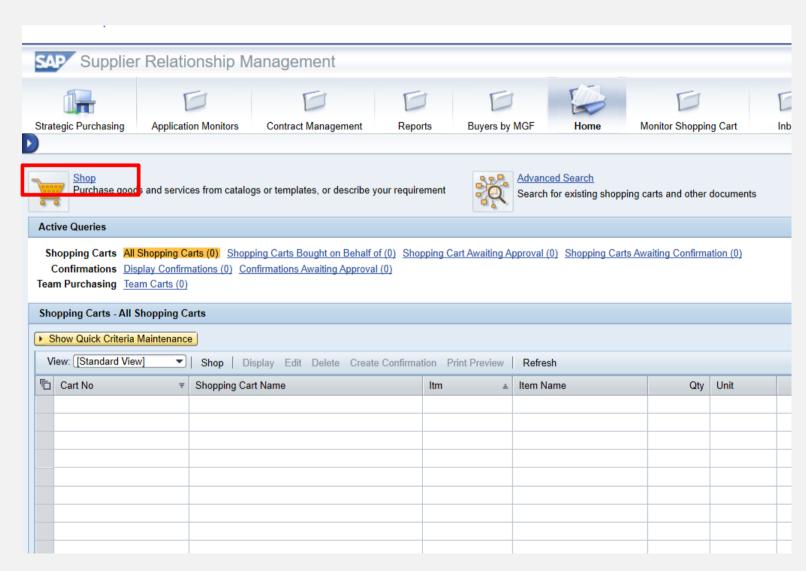


#### **Germany (Period: 15 months)**

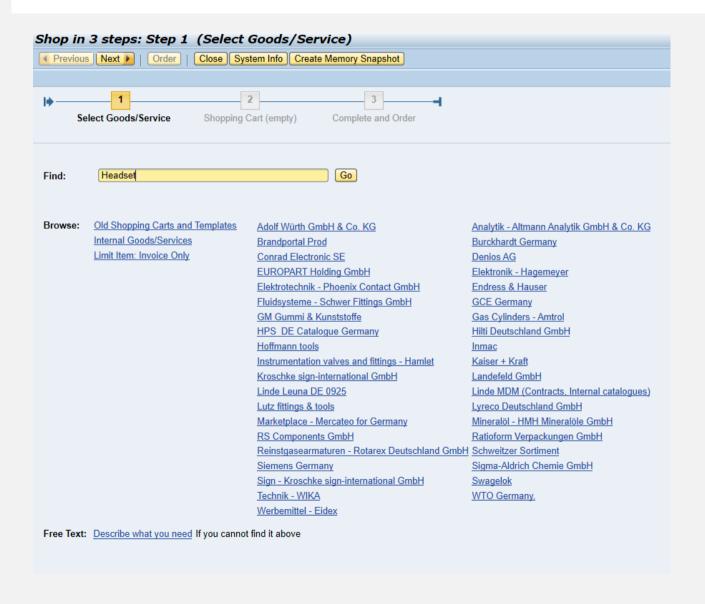
- ~1000 Headsets purchased
- Average unit price: 110,50 EUR
- Price range: 13 to 269 EUR

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After 1 min

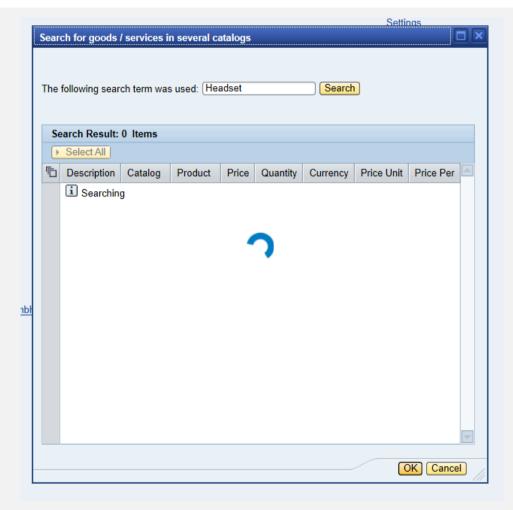
After 2 mins

No result

Search starts automatically again

After 5min

I give up





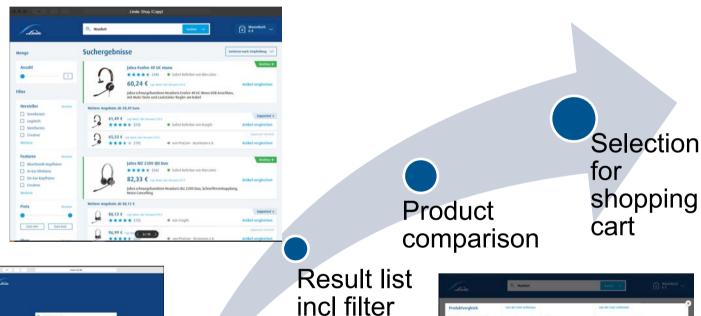
Shop in 3 steps: Step 1 (Select Goods/Service)								
Previous	Next V Order Close Sys	stem Info Create Memory Snapshot						
Select Goods/Service Shopping Cart (empty) Complete and Order								
Find:	Headset	Go						
Browse:	Old Shopping Carts and Templates Internal Goods/Services Limit Item: Invoice Only  Describe what you need If you cannot	Adolf Würth GmbH & Co. KG  Brandportal Frod Conrad Electronic SE Editor Act Floring GmbH Elektrotechnik - Phoenix Contact GmbH Fluidsysteme - Schwer Fittings GmbH GM Gummi & Kunststoffe HPS DE Catalogue Germany Hoffmann tools Instrumentation valves and fittings - Hamlet Kroschke sign-international GmbH Linde Leuna DE 0925 Lote Strings & Lote Marketplace - Mercateo for Germany Reinstgasearmaturen - Rotarex Deutschland GmbH Siemens Germany Sign - Kroschke sign-international GmbH Technik - WIKA Werbemittel - Eidex	Analytik - Altmann Analytik GmbH & Co. KG Burckhardt Germany Denios AG Elektronik - Hagemeyer Endress & Hauser GCE Germany Gas Cylinders - Amtrol Hilti Deutschland GmbH Inmac Kaiser + Kraft Landefeld GmbH Linde MDM (Contracts, Internal catalogues) I vreco Deutschland GmbH Mineralöl - HMH Mineralöle GmbH Ratioform Verpackungen GmbH Schweitzer Sortiment Sigma-Aldrich Chemie GmbH Swagelok WTO Germany.					
Free Text:	Describe what you need If you cannot	find it above						



List View  Add to Cart   Cart Preview   Compare   Number of Ite												
								Select	Quantity	Action	Supplier	Short Description
	1	7	ProCom - Bestmann e.K.	Headset schnurlos 1-ohriq f.Tel,PC,Mobil	08-04-05 Voice fixline hardware	Each.	232.80 EUR	1	JB9555-583-111X- LIN		Engage 75 mono einohrig inkl. Anschlussmöglichkeit für alle Linde Telefone, PC und Mobiltelefone. Die korrekte Endkonfiguration erfolgt telefonisch oder per Mailabfrage an Sie durch die Fa. ProCom-Bestmann. Eine Antwort ist danach erforderlich.	MDM_DE_PGV
	1	Ä	ProCom - Bestmann e.K.	USB Headset ANC, Nackenbügel beidohrig	08-04-05 Voice fixline hardware	Each.	144.80 EUR	1	JB7099-823-309X- LIN		Jabra Evolve 75e ANC mit Nackenbügel beidohrig. Mikrofon am Kabel. USB Anschluss via Dongle, mit Mute- Taste und Lautstärke-Regler am Headset, bis zu 14 Stunden Gesprächszeit	MDM_DE_PGV
	1	Ä	ProCom - Bestmann e.K.	Headset schnurgeb.1-ohrig alle Telefone	08-04-05 Voice fixline hardware	Each.	73.00 EU		3-820-104X-		Jabra BIZ 2300 einohrig incl. Anschlußkabel zum Anschluß an alle Linde Telefone	MDM_DE_PGV
	1	Ä	ProCom - Bestmann e.K.	Umschalter zwischen Telefon und Headset	08-04-05 Voice fixline hardware	Each.	<u>19.70</u>	1	JE 19X-LIN		Jabra DanaSwitch. Umschalter zwischen Telefon und Headset für Telefone ohne Headset Schnittstelle (Ericsson, Aastra, Mitel)	MDM_DE_PGV
	1	Ä	ProCom - Bestmann e.K.	Headset schnurlos 1-ohriq alle Telefone	08-04-05 Voice fixline hardware	Each.	152.20 EUR		8-25-508-1X-LIN		Jabra PRO 920 einohrig inkl. Anschlussmöglichkeit für alle Linde Telefone. Die korrekte Endkonfiguration erfolgt telefonisch oder per Mailabfrage an Sie durch die Fa. ProCom-Bestmann. Eine Antwort ist danach erforderlich.	MDM_DE_PGV
	1	Ä	ProCom - Bestmann e.K.	USB Headset schnurgebunden 2-ohrig	08-04-05 Voice fixline hardware	Each.	60.50 EUR	1	JB6399-829-209X- LIN		Jabra Evolve 40 UC beidohrig, USB Anschluss für VolP- Softphones. Mobiltelefone und Tablets über 3,5mm Klinkenstecker.	MDM_DE_PGV
	1	Ä	ProCom - Bestmann e.K.	USB Headset schnurlos 2-ohriq	08-04-05 Voice fixline hardware	Each.	128.80 EUR	1	JB6599-823-499X- LIN		Jabra EVOLVE 65 UC beidohrig inkl. Ladestation, USB Anschluss via Dongle, mit Mute-Taste und Lautstärke- Regler am Headset, Busylight integriert, Bluetooth, bis zu 10 Stunden Gesprächszeit	MDM_DE_PGV
	1	Ä	ProCom - Bestmann e.K.	USB Headset schnurlos 1-ohriq	08-04-05 Voice fixline hardware	Each.	123.50 EUR	1	JB6593-823-499X- LIN		Jabra EVOLVE 65 UC einohrig inkl. Ladestation, USB Anschluss via Dongle, mit Mute-Taste und Lautstärke- Regler am Headset, Busylight integriert, Bluetooth, bis zu 10 Stunden Gesprächszeit	MDM_DE_PGV
	1	Ä	ProCom - Bestmann e.K.	USB Headset schnurgebunden 1-ohrig	08-04-05 Voice fixline hardware	Each.	54.50 EUR	1	JB6393-829-209X- LIN		Jabra Evolve 40 UC einohrig, USB Anschluss für VolP- Softphones. Mobiltelefone und Tablets über 3,5mm Klinkenstecker.	MDM_DE_PGV
	1	``	ProCom - Bestmann e.K.	Headset schnurlos 2-ohrig f.Tel,PC,Mobil	08-04-05 Voice fixline hardware	Each.	239.15 EUR	1	JB9559-583-111X- LIN		Engage 75 duo beidohrig inkl. Anschlussmöglichkeit für alle Linde Telefone, PC und Mobiltelefone. Die korrekte Endkonfiguration erfolgt telefonisch oder per Mailabfrage an Sie durch die Fa. ProCom-Bestmann. Eine Antwort ist danach erforderlich.	MDM_DE_PGV
	1	``	ProCom - Bestmann e.K.	USB Headset schnurlos 2-ohriq ANC	08-04-05 Voice fixline hardware	Each.	199.80 EUR	1			(Großraumbüro)::Jabra EVOLVE 75 ANC beidohrig inkl. Ladestation, USB Anschluss via Dongle, Active Noise Cancelation (ANC) mit vier Mikrophonen für z.B. Großraumbüro, Mute-Taste und Lautstärke-Regler am Headset, 2 Busylight integriert, Bluetooth, bis zu 15 Stunden Gesprächszeit.	MDM_DE_PGV
	1	``	ProCom - Bestmann e.K.	Headset schnurlos 2-ohriq alle Telefone	08-04-05 Voice fixline hardware	Each.	177.95 EUR	1	JB920-29-508-1X-LIN		Jabra PRO 920 beidohrig inkl. Anschlussmöglichkeit für alle Linde Telefone. Die korrekte Endkonfiguration erfolgt telefonisch oder per Mailabfrage an Sie durch die Fa. ProCom-Bestmann. Eine Antwort ist danach erforderlich.	MDM_DE_PGV
	1	Ä	ProCom - Bestmann e.K.	Headset schnurgeb. 2-ohrig alle Telefone	08-04-05 Voice fixline hardware	Each.	93.00 EUR	1	JB2309-820-104X- LIN		Jabra BIZ 2300 beidohrig incl. Anschlußkabel zum Anschluß an alle Linde Telefone	MDM_DE_PGV

#### **Linde Marketplace LMP Demands for a new solution**



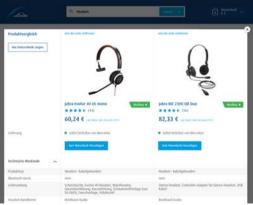






incl filter

Search mask



# **Linde Marketplace LMP Possible Options considered**



gournal	Own development	Artificial intelligence	SAP SRM add on	Marketplace
Limitations	Background search required, but only possible for 1/3 of our catalogues	Solution is not clear yet, for them this is a standard solution, but still very pricy	OCI5 required, not available in all catalogues	Only non configurable catalogues. No guided buying.
Price	€	€€€	€€	€

Based on the feature set and additional price competition through the number of suppliers in the market place Mercateo was chosen.

## Linde Marketplace LMP Guided Product Search – Business Case





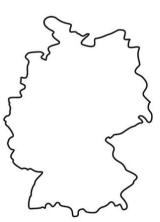
Savings of **20 T€** for headsets only



Potential savings estimated to <u>1% of indirect spend</u>, due to:

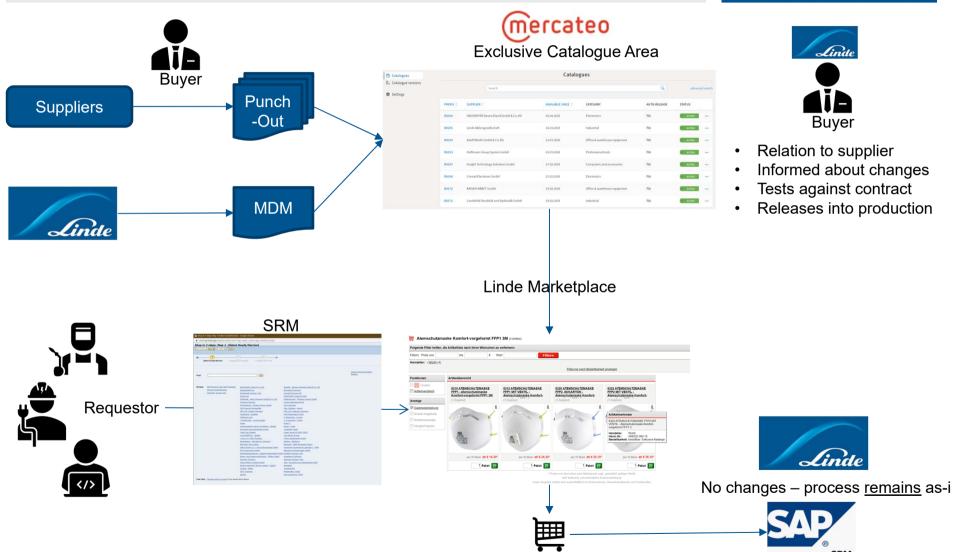
- Easy access, search and comparison
- Supplier needs to maintain "catalogue"
- Consideration of delivery time, freight cost, scaled pricing and number of deliveries
- Vastly greater price competition





# **Linde Marketplace LMP Setup - Today**





# Linde Marketplace LMP Achievements, Challenges & Next Steps



- Positive user experience and customer feedback
- Additional savings achieved (~8%)
- PO Automation improved by 2%
- Technical: Punch-out catalogues have to be "flat"
- Vendors: Resistance by some vendors with own web shop
- Own organization: Covid 19: Lock down, furlough & Internal grown catalog
- Integrate Linde internal catalogues
- Move further content into Marketplace
- Roll solution out to other countries

9/30/2020



## Thank you for your attention.

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