



Creating  
Industrial Intelligence

# **Petcore Europe & KÖR**

## Launching Labs Platform for Monitoring PET NIAS

26th October, 2023

# KÖR presenters at Petcore

KÖR 2<sup>nd</sup> webinar



**BERND SCHWARZ**

General Manager DACH, KÖR  
Petcore Europe Project Manager



**BALAZS KERESKENYI**

Digital Transformation Officer, KÖR



**LUDWIG COENEN**

Technical Business Development Director DACH, KÖR  
Petcore Europe Client Manager

# Project status - overview

Since the webinar in **September**:

- Our product development team is continuously working on implementing **NIAS-specific features** in Labs
- We had **user interviews** with the **beta tester companies**, and finetuned the plans based on their **feedback**
- **Registration is open**, promotion of the platform started. Some Petcore Europe member companies are already registered, and we made progress with the **onboarding of food contact testing laboratories**
- **Laboratory onboarding** in progress and **valuable comments** received from the Laboratories

# How 'Labs' works

Labs by KÖR is a two-sided online marketplace. It connects **buyers** (in this case Petcore Europe members) and **providers** (laboratories).

KÖR adds decades of background from the Testing, Inspection and Certification (TIC) sector. Beyond our automatized online marketplace, our engineering competency ensures that we provide high-quality solutions to our customers.

The power of our online marketplace:

## For Customers

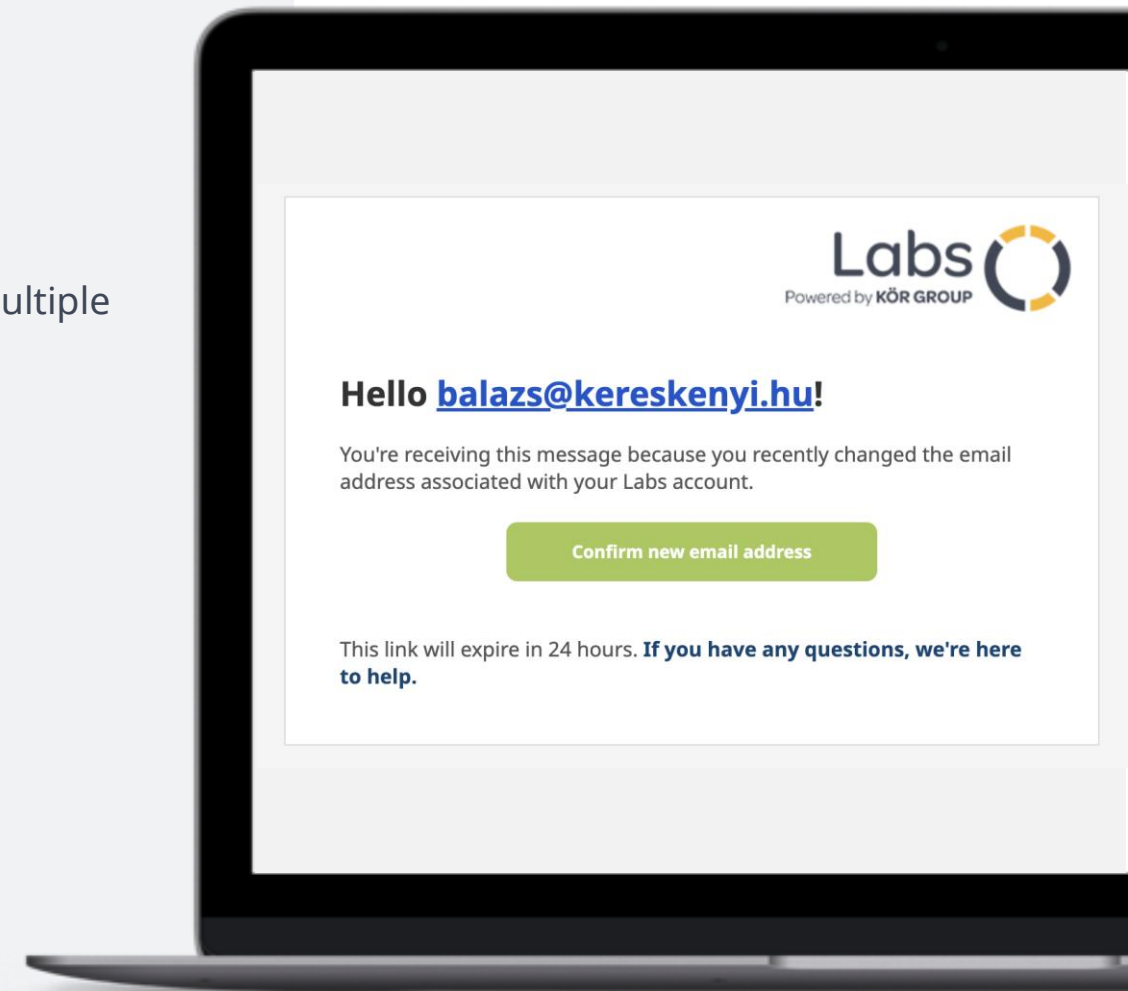
- **Search:** we offer a wide selection of laboratories, so you can select based on location, price and speed
- **Quality:** with our background in quality management we ensure that we only offer the highest quality providers
- **Secure:** data security and privacy is in our DNA
- **Manage:** we take the burden of procurement off your shoulder

## For Laboratories

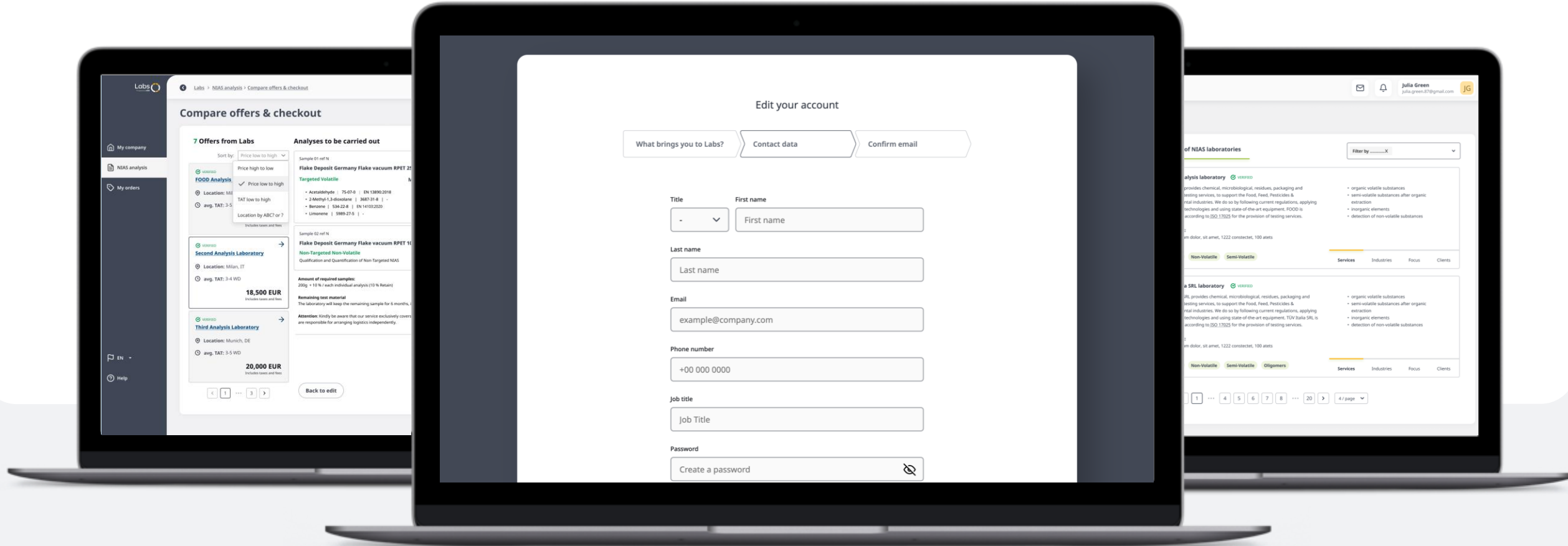
- **Expand:** with our marketplace, laboratories get access to an extended clientele
- **Effectiveness:** easily work in a standard digital format to comply, and also to speed up internal processes
- **Manage:** manage inquiries, capacity, and workload from a single place

# Sign up for free

- **Sign up** in a couple minutes at [labs.kor-group.com](https://labs.kor-group.com)
- **Invite** your team once you are in – avoid creating the same company multiple times (reach out if you did though)
- Don't forget to **confirm** email address  
(*"Action required: Confirm account"*)
- Labs will warn you **if you are already** in the system – all you need is to **reset password**
- Labs will also warn you **if your company** is in the system -
- *"Company registration ID"* – company registration number
- *"TAX"* – tax id / VAT id

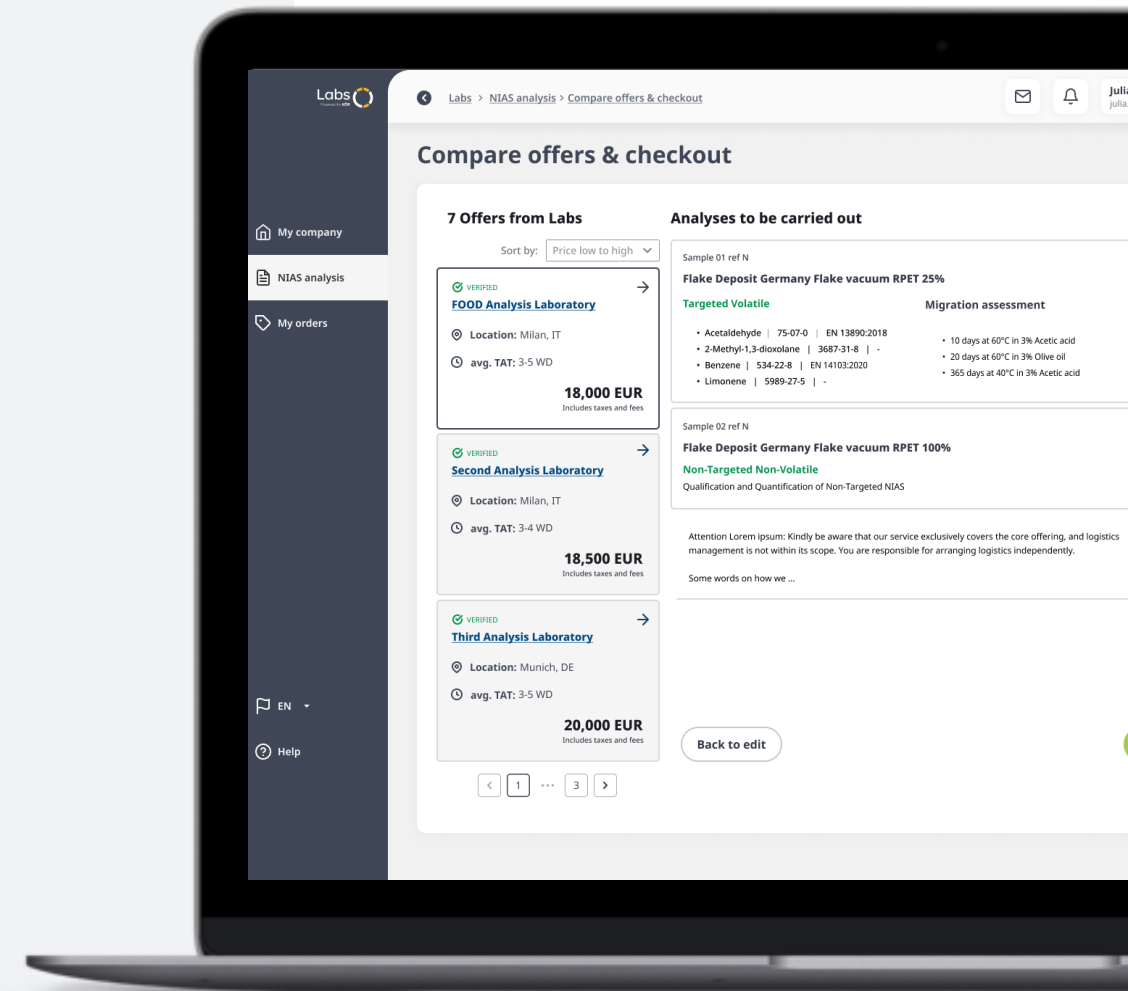


# Demo – Registration

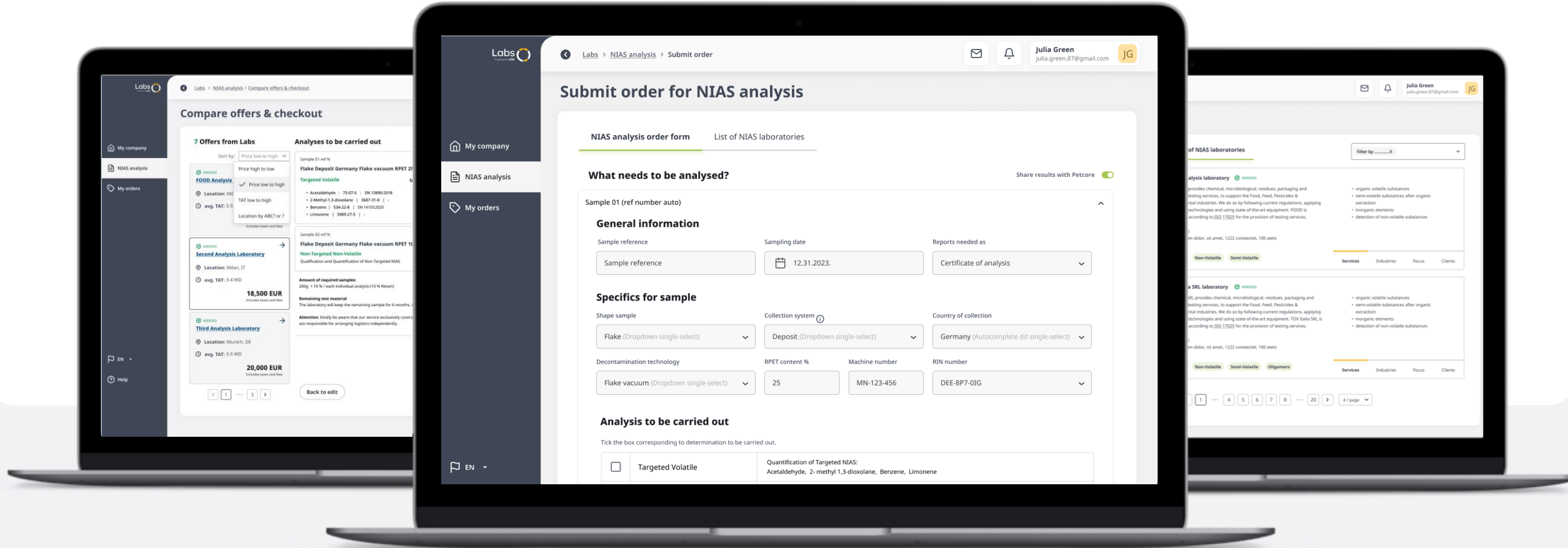


# Order NIAS analysis

- Use the NIAS order form to submit an order or choose from laboratory list directly
- Instant price calculation before sending the order
- Wait for confirmation from the laboratory
- Select to share results with Petcore *before* sending the order
- Only the data necessary to perform the analysis will be sent to the laboratories
- View orders, edit draft orders, or clone previous orders



# Demo – NIAS order form





# View results

- Track order status
- Get results on a separate standardized result sheet format for each sample
- View, accept or reject the results
- Download invoices

The screenshot displays the Lobs web application interface. The left sidebar contains navigation links: 'My company', 'NIAS analysis', 'My orders', 'EN', and 'Help'. The main content area shows the details for 'Order #NIAS001'. At the top, it lists the requester 'Future GmbH' and the sample provider 'Paul Sample'. Below this, the 'Order summary and results' section is visible. It includes a table for 'Sample 1' and 'Sample 2' with columns for sample reference, sampling date, report needed, sample shape, and collection system. The 'Analysis to be carried out' section follows, detailing various tests such as 'Targeted Volatile', 'Non-targeted Semi-Volatile', and 'OMT' (Olfactory Monitoring Test) with their respective parameters and results. The interface is clean and professional, with a dark blue header and sidebar.

**Order #NIAS001**

Requester: Future GmbH  
1234 City, Xyz Street 12

Paul Sample  
paul.sample@company.com  
+91 23 456 7890

Status: Analysis started  
Submitted on: 2023-10-28 / 6:00  
Viewable by: My company, Petcare

**Order summary and results**

**Sample 1 "Sample reference number"** 6,000 EUR

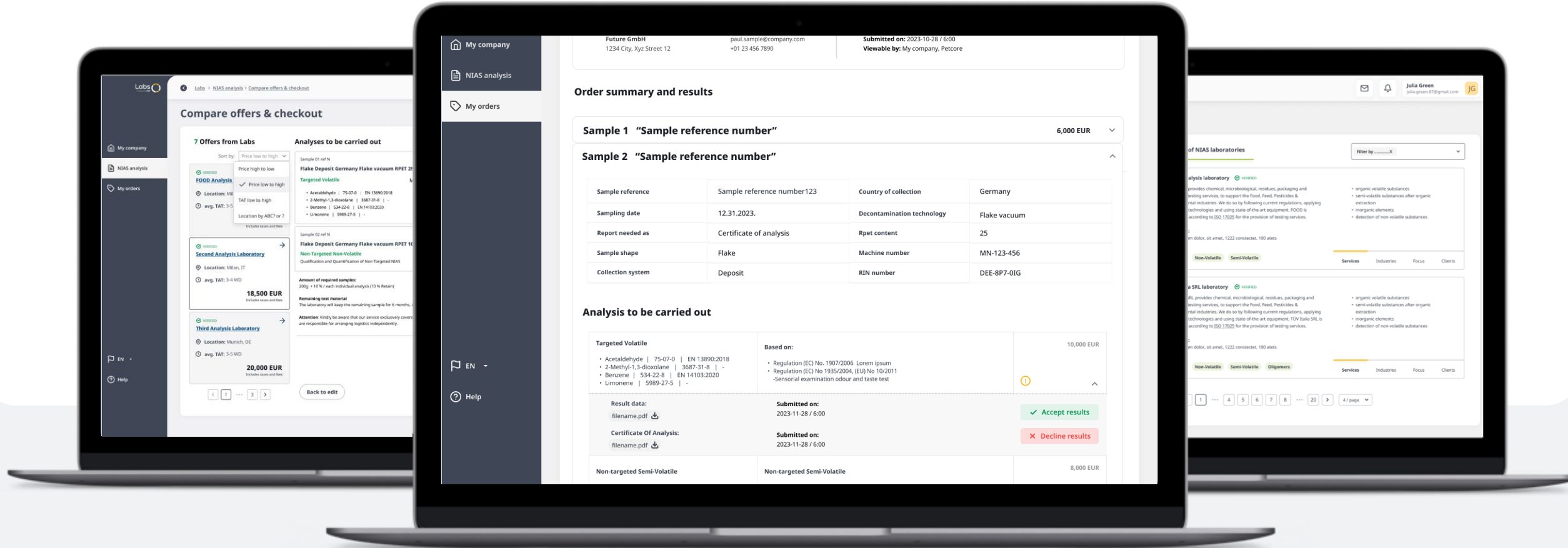
**Sample 2 "Sample reference number"**

Sample reference	Sample reference number	Country of collection	Germany
Sampling date	12.31.2023.	Decontamination technology	Flake vacuum
Report needed as	Certificate of analysis	Rpet content	25
Sample shape	Flake	Machine number	MN-123-456
Collection system	Deposit	RDN number	DEE-8P7-0IG

**Analysis to be carried out**

Targeted Volatile	Based on:	10,000 EUR
• Acetaldehyde   75-07-0   EN 13890:2018 • 2-Methyl-1,3-dioxolane   3687-31-8   - • Benzene   534-22-8   EN 14103:2020 • Limonene   5989-27-5   -	• Regulation (EC) No. 1831/2003, Annex I (part) • Regulation (EC) No. 1831/2003, Annex I (part) • Sensory examination odour and taste test	
Result data: Filename.pdf	Submitted on: 2023-11-28 / 6:00	✓ Accept ✗ Reject
Certificate Of Analysis: Filename.pdf	Submitted on: 2023-11-28 / 6:00	✓ Accept ✗ Reject
Non-targeted Semi-Volatile	Non-targeted Semi-Volatile	8,000 EUR
1. Screening 2. Qualification and Quantification of Non-Targeted NSAS	1. Screening 2. Qualification and Quantification of Non-Targeted NSAS	
OMT: OM1-10 days - 20°C / Vegetable Oil	Based on: LOREM Regulation (EC) No 1935/2004, (EU) No 10/2011 and its amendment (EU) 2016/1416- Specific migration of heavy metals	2,000 EUR
OMT: OM2-10 days - 40°C / Vegetable Oil	Based on: LOREM Regulation (EC) No 1935/2004, (EU) No 10/2011 and its amendment (EU) 2016/1416- Specific migration of heavy metals	2,000 EUR
SMT: 10 days / 20°C / Terephthalic acid	Based on: LOREM Regulation (EC) No 1935/2004, (EU) No 10/2011 - Specific migration of Primary Amine...	2,000 EUR

# Demo – getting results



# Data privacy

- If the customer selected to share the results with Petcore, then sample data, and results are shared in a separated Petcore data bank. Data bank is where the reports to DG SANTE reports are originated from.
- Certificate of analysis, and risk assessment only available to the customer
- Result numbers are by default also only visible to the customer who requested the analysis
- Within Petcore there are multiple access levels to the data bank

# Marketplace release plan – next steps

The initial version of the NIAS analysis in Labs will roll out the week of Nov 6.

The **presented features** will be available for all Petcore Europe members:

- ordering NIAS analysis, including migration assessments
- access to multiple laboratories, with real-time pricing
- repetitive ordering
- access to reports and certificate documents

Soft launch with beta testers including laboratories starts next week.

As of Tuesday, **18** users are already **registered** to the system from **8 different laboratories**, and we are in talks with much more, and plan to have a greater expansion in laboratory partners in 2024.

*If you are working with a laboratory that is not part of this initiative, let them know, and we will help to bring them onboard, and go through the round robin test.*

# Need help?

## Labs customer support

We provide dedicated support for NIAS testing at the project start for questions, problems and feedback regarding both the “chemical” and the “technical” part of the process.

Email to use in case of need: **[support@kor-group.com](mailto:support@kor-group.com)**

- is monitored by our support team,
- on **working days 9am-5pm CET**.

Problems are either addressed on the very same day or escalated to our technical concierge / software development team.

In **super urgent cases**, call **+49 173 3942758**



**MELEK DEMIR**

Dedicated Customer  
Support Representative  
for Petcore members, KÖR



**EMOKE HEGYI**

Dedicated Customer  
Support Representative  
for NIAS testing laboratories, KÖR

**Email:** [support@kor-group.com](mailto:support@kor-group.com)

**Phone:** **+49 173 3942758**

# KÖR business contacts



**LUDWIG COENEN**

Technical Business Development Director DACH, KÖR  
Petcore Europe Client Manager

[ludwig.coenen@kor-group.com](mailto:ludwig.coenen@kor-group.com)

Tel. +49 (173) 39440284



**BERND SCHWARZ**

General Manager DACH, KÖR  
Petcore Europe Project Manager

[bernd.schwarz@kor-group.com](mailto:bernd.schwarz@kor-group.com)

Tel. +49 162 3440276

# Appendix

# KÖR in a nutshell

25+ years industrial background.

Roots from Quality-management.

Focused development in TIC business since 2018.

## **Branch offices:**

- for Western-Europe in Düsseldorf (DE)
- for Central and Eastern Europe in Budapest (HU)

## **Wide competency network: 3000+ laboratories activated in Europe:**

- Independent laboratories
- Universities
- Institutes
- Manufacturers

## **Delivered solutions through Digital marketplace:**

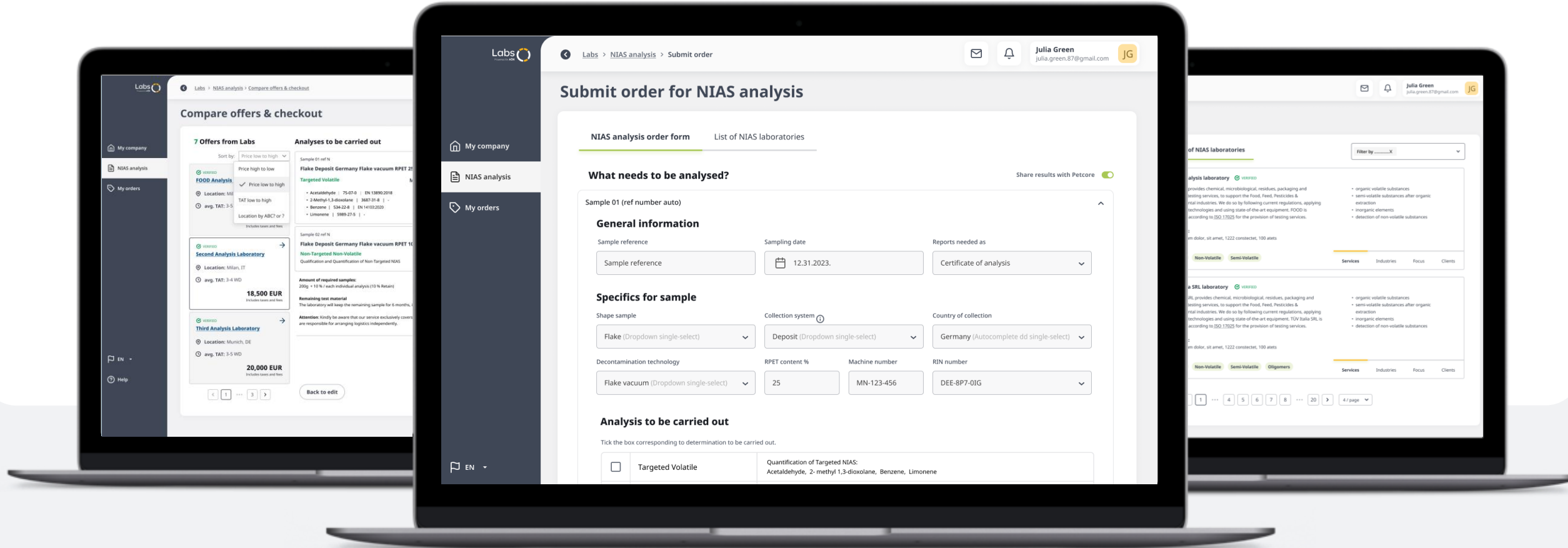
- Testing
- Analysis
- Measurement
- Validation
- Calibration
- Failure analysis

## **Supported industrial sectors:**

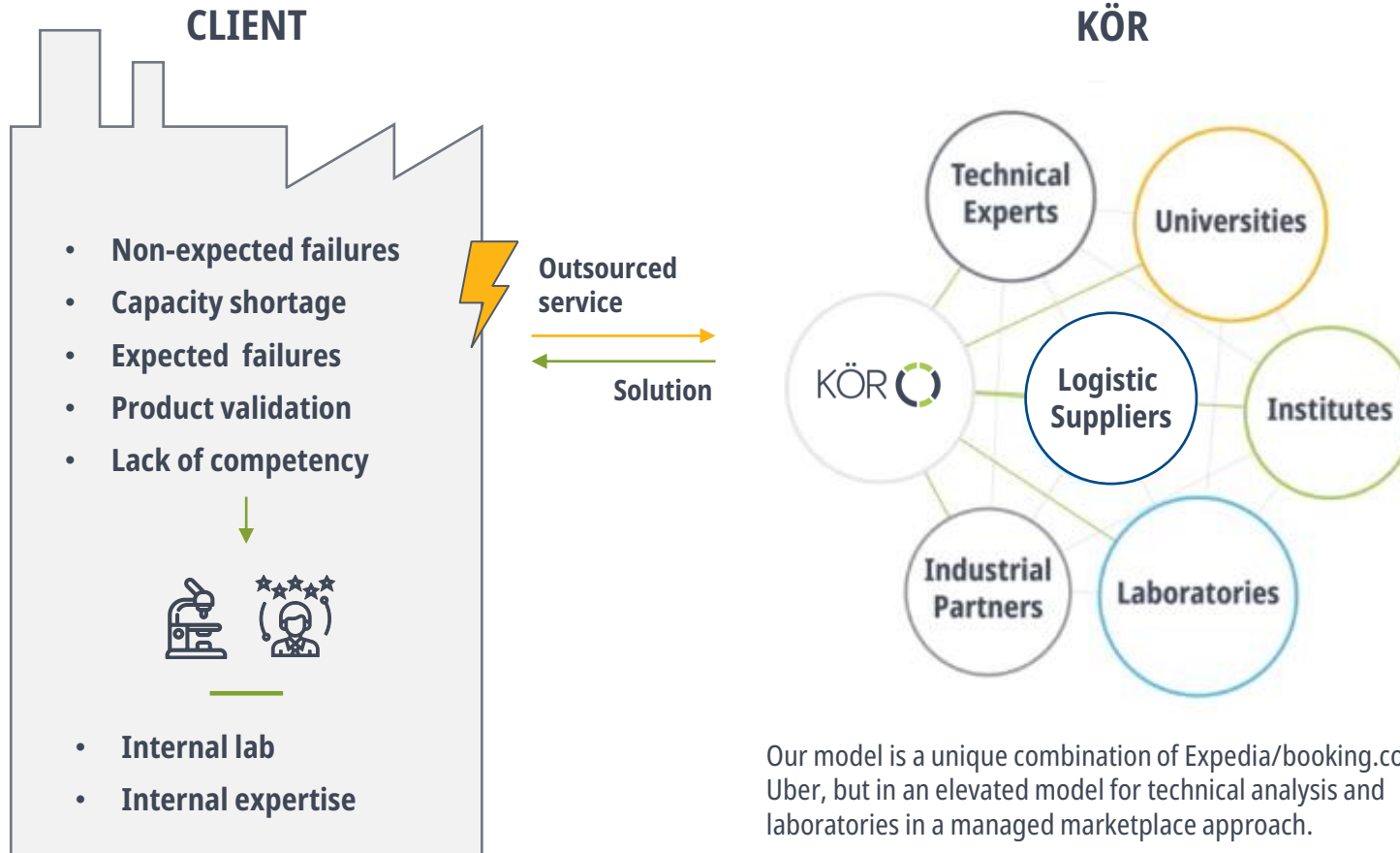
- Chemical
- Automotive
- Electronics
- Aerospace
- Heavy and other transportation



# Labs: Your testing platform.



# Our concept to support clients



KÖR organizes its vast vendor base as an integrator with their competencies to a network for its clients' disposal.

# Our strategic pillars



## Driving operational innovation

Two-sided marketplace provides a new, standardized method for KÖR clients and testing laboratories to find each other, communicate, exchange data, and do business.



## Understanding the power of data & data security

**Labs** was designed with data privacy in mind. The implemented multi-level user permission solution ensures that valuable information is always in the right hands for insightful decision-making.



## Providing value-added solutions

Currently there is no market player that besides operating a two-sided marketplace also provides solution on top that covers the rest of the workflow.



## Creating a market network

KÖR's two-sided marketplace - **Labs** will create a true potential of a market network of industrial players, where transactions can happen between everyone and everything.

# Petcore Europe & KÖR Accompany Letter

## Accompany Letter

Petcore Europe, NIAS Working Group, KÖR official Accompany Letter

Signed by:

- **Casper van den Dungen** – Chairman, NIAS Working Group
- **Martin Stephan** – Secretary General, Petcore Europe
- **Gyula Tóth** – CEO, KÖR

Members will receive this Accompany Letter.



### Introduction of Labs platform for Monitoring PET NIAS Accompany Letter

Working group NIAS of Petcore; Harmonized NIAS measurements - Offering Labs, KÖR's online platform for the PET value chain to harmonize compulsory measurements.

As Petcore Europe is representing already more than 170 members of the PET value chain, it has decided to create an online platform that offers supply and demand for harmonized NIAS measurements. The basis of the measurements was already set by the published guidelines for NIAS measurements\* back in 2020. Trails of these measurements have been performed by taskforce which was presented on the Petcore Europe conference in 2023. The NIAS Working Group is responsible for organizing the introduction of this platform.

By the introduction of the new regulation for direct food contact applications EN 2022/1816, extra NIAS data are requested for the development of the novel technology but also for the monitoring of the suitable technology. The target of the platform is to create a harmonized concept which enables all members of the value chain to order PET NIAS measurements. The reports will be in a standard digital format which will facilitate the monitoring function of the various results in time. A special database function will be integrated which can be used to manage the monitoring function. As different reports and monitoring will be required 3 different Databases will be created individually have secured and limited access. These sub-platforms are the following:

- **Functional Barrier Group** (to facilitate the novel technology reporting to DG Sante and it's monitoring)
- **Depolymerization Working Group** (to facilitate the BHET reporting to DG Sante and it's monitoring)
- **Geni Group** (to facilitate the NIAS reports and monitoring of bottles and trays throughout the PET value chain)

For the demand of NIAS measurements all Petcore Europe members of these groups will be offered to contribute to use the Labs online platform.

For the supply of NIAS measurements, many laboratories are targeted to contribute to this platform as the required capacity and the today presented ones will require this. As the harmonization requires a validated level playing field, it is required that the different laboratories need to comply to base the monitoring of the results on a repeatable quality level. A proficiency test is required for the laboratories to secure the contribution of the results to this platform. We do understand that PET NIAS measurements can consist of targeted and non-targeted substances. The proficiency test will need to address both options to assure consistency in the results.

The Labs online platform is provided by KÖR ([www.kor-group.com](http://www.kor-group.com)), a company that has been selected to tailor-made their existing and proven, cloud-based supply and demand solution to all Petcore Europe Members. They need to be able to order NIAS measurements at various laboratories. As KÖR is working in a 17085 ISO and in a 27001 ISO environment, specific requests are needed to build the functionality of the platform. As Petcore Europe we seek the support and cooperation of facilitating information and opportunities to help building this harmonized concept of supply and demand for NIAS measurements.

Casper van den Dungen  
Chairman - NIAS Working Group

Martin Stephan  
Secretary General - Petcore Europe

Gyula Tóth  
CEO - KÖR

# Understanding the challenge

The screenshot shows a web form titled "Submit order for NIAS analysis". The form is divided into several sections:

- General information:** Includes fields for "Sample reference", "Sampling date" (12.31.2023), and "Reports needed as" (Certificate of analysis).
- Specifics for sample:** Includes dropdowns for "Shape sample" (Flake), "Collection system" (Deposit), "Country of collection" (Germany), "Decontamination technology" (Flake vacuum), "RPET content %" (25), "Machine number" (MN-123-456), and "RIN number" (DEE-877-01G).
- Analysis to be carried out:** A table with checkboxes for various analysis types: Targeted Volatile, Non-Targeted Volatile, Targeted Semi-Volatile / Non-Volatile, Non-Targeted Semi-Volatile, Non-Targeted Non-Volatile, and Oligomer. Each checkbox has a corresponding description of the analysis.
- Migration assessment:** Includes a section for "Overall migration (OMT)" and "Specific migration (SMT)" with dropdowns for "Analyte" (Terephthalic acid) and "Metal" (Metal).

- Performing testing
- Mandatory reporting - secured database
- Sustainable production

The screenshot shows a web page titled "Compare offers & checkout". The page displays two columns of information:

- 7 Offers from Labs:** A list of offers with a "Sort by" dropdown (Price low to high, Price high to low, Price low to high, TAT low to high, Location by ABC? or ?). The offers include "FOOD Analysis" (18,500 EUR) and "Second Analysis Laboratory" (20,000 EUR).
- Analyses to be carried out:** A section detailing the analysis to be performed, including "Flake Deposit Germany Flake vacuum RPET 25%", "Targeted Volatile", and "Non-Targeted Non-Volatile". It also includes a table of "Amount of required samples" and a "Remaining test material" section.

# Our solution

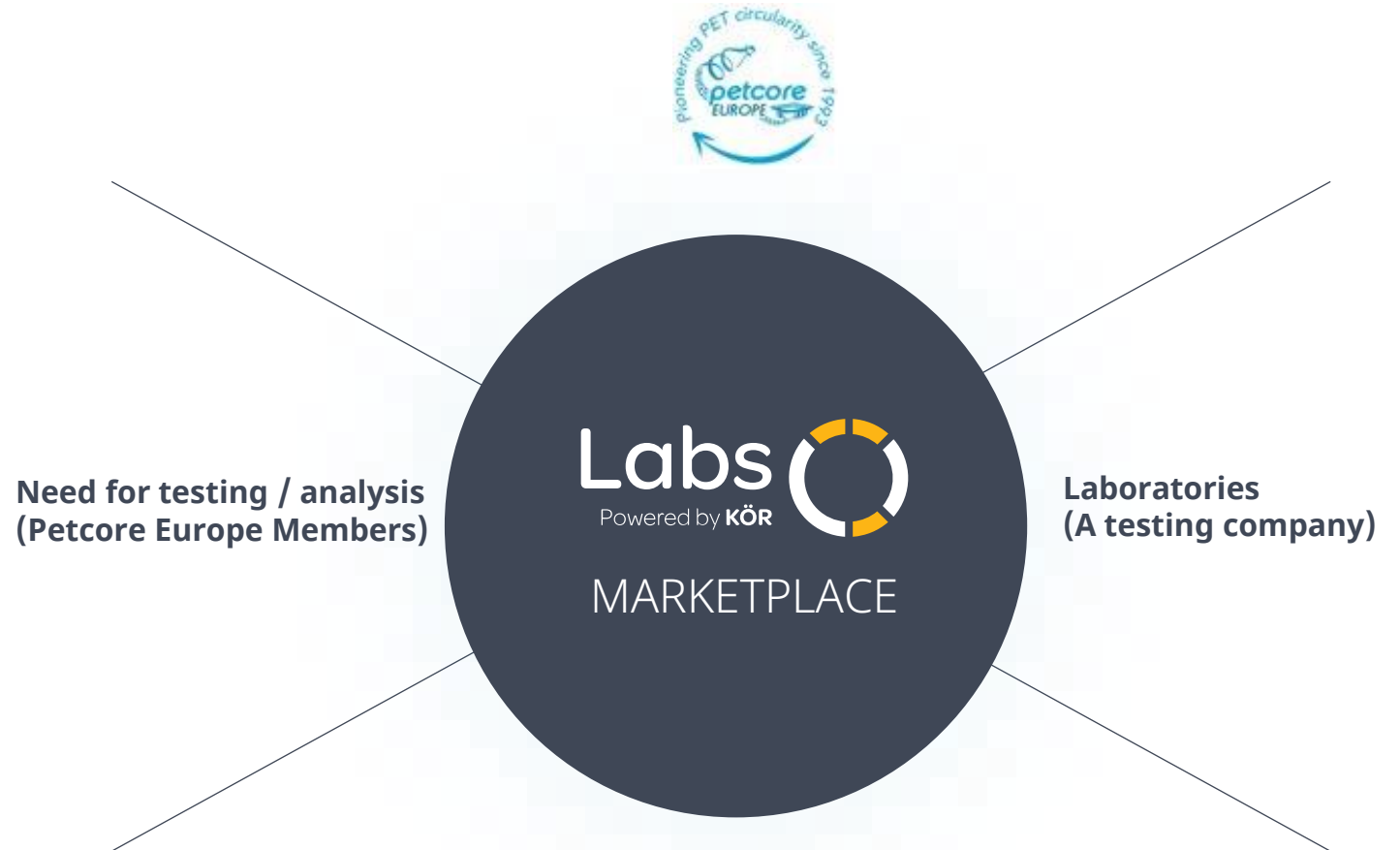
## Digital marketplace for lab request.

**Labs, a two-sided managed marketplace.** Integrated bubble especially tailored for **Petcore Europe members**

- to find the right testing partners,
- to order tests,
- to optimize laboratory costs,
- to have centralized results,
- to have standardized results,
- to support the mandatory reporting for NT as per Art 10 and 32 of EU 2022/1616
- to have accessible and secured data

All in all:

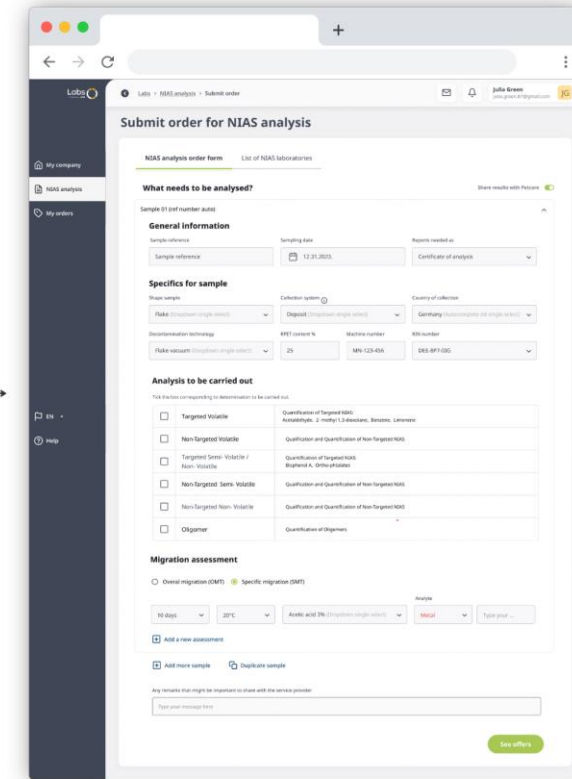
- to be able to simplify and optimize the process of **Food Content Material Testing** through our **Labs Marketplace**.



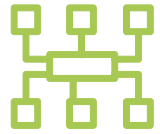
# Data flow and data privacy

All data flows are protected by NDAs between each parties:

- Laboratories only see the data which is required to perform an analysis
- Analysis results are private to members or shared with Petcore Europe
- KÖR provides a dedicated Data Bank for Petcore Europe
- Data access authorization strategy differentiated per stakeholder

A screenshot of a web application interface for submitting an order for NIAS analysis. The form is titled "Submit order for NIAS analysis" and includes sections for "General information", "Specimens for sample", "Analysis to be carried out", and "Migration assessment". The "General information" section has fields for "Sample reference", "Sampling date", and "Report needed as". The "Specimens for sample" section has fields for "Sample type", "Collection system", "Quantity of collection", "Dispositif", "KPIET content N", "Machine number", and "KPI number". The "Analysis to be carried out" section has a table with checkboxes for "Targeted variable", "Non-targeted variable", "Targeted Genes / Proteins / Metabolites", "Non-targeted Genes / Proteins / Metabolites", "Non-targeted Genes / Proteins / Metabolites", "Non-targeted Genes / Proteins / Metabolites", and "Organism". The "Migration assessment" section has a table with checkboxes for "Overall migration (OMT)", "Specific migration (SMT)", "VE steps", "SPE", "Acidic acid (AA) (Oligonucleotide single select)", "Neutral", and "Type of acid".

# Working with KÖR you will have benefits



Single gate service complying to  
Petcore Europe/ EU regulations



Standardized, good quality data



Saving cost & time  
to focus on core competencies



Comparable data network



Wide laboratory network  
competitive test-prices guaranteed



Certified Laboratories



Data security and accessibility acc.  
to ISO27001 requirements



Technical support along your testing needs





**Thank you!**

**[www.kor-group.com](http://www.kor-group.com)**

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