



Creating
Industrial Intelligence

Petcore Thermoforms Conference 2024

Granada, Spain
25 June 2024

Who we are?

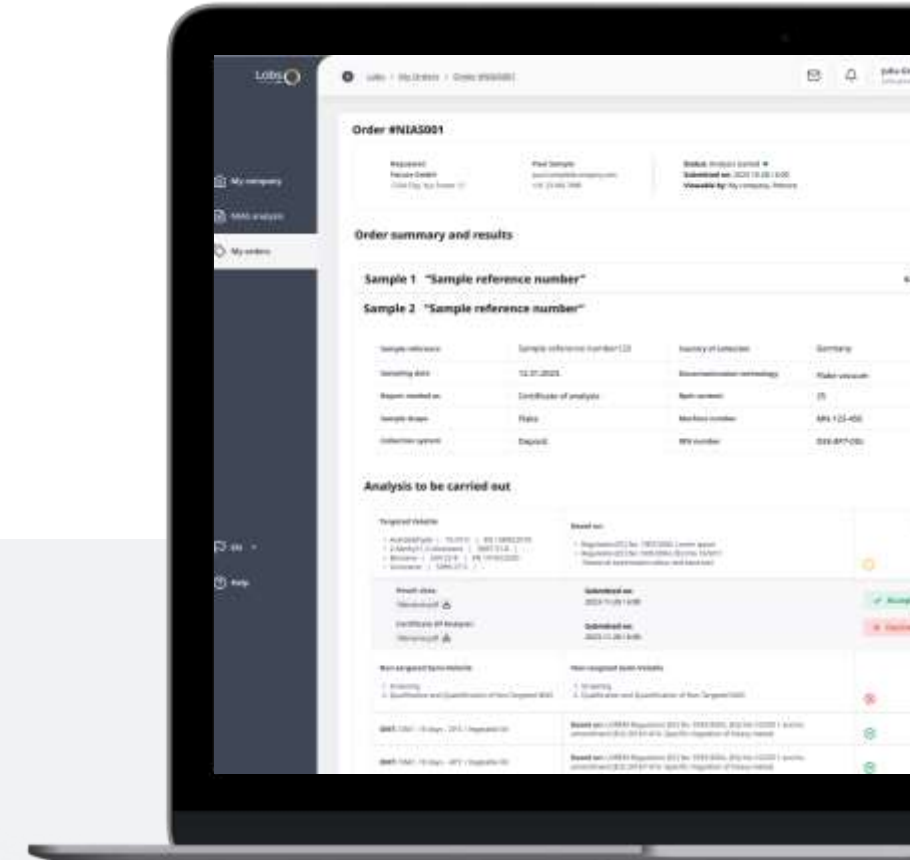
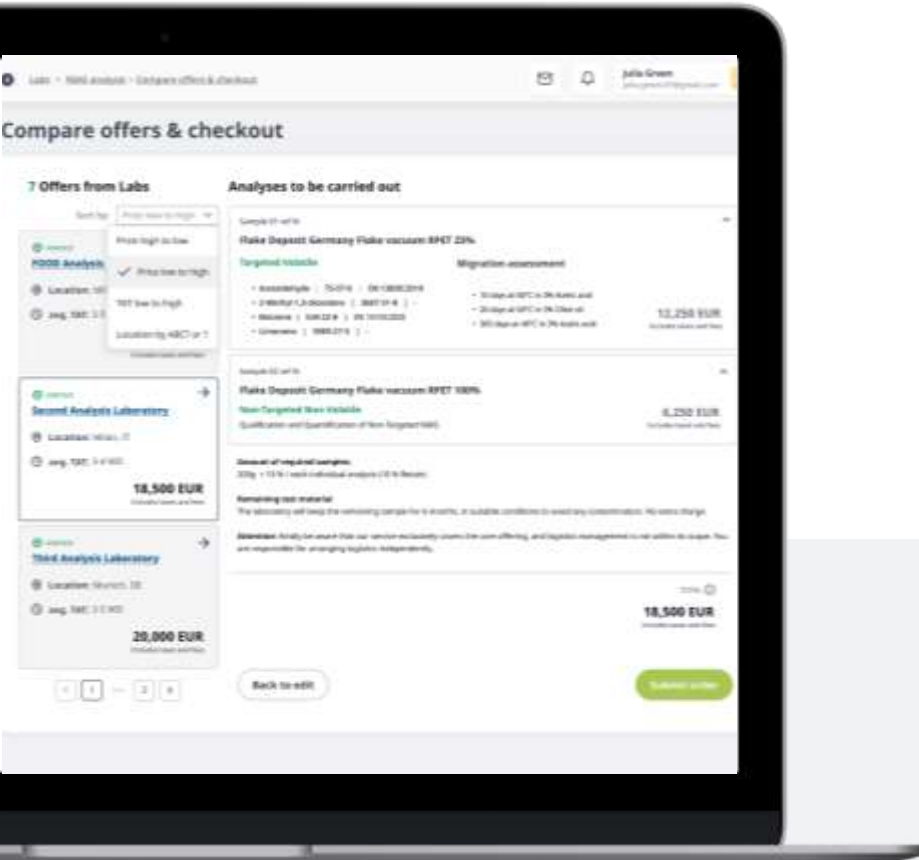
What we do?

Two sided digital Marketplace

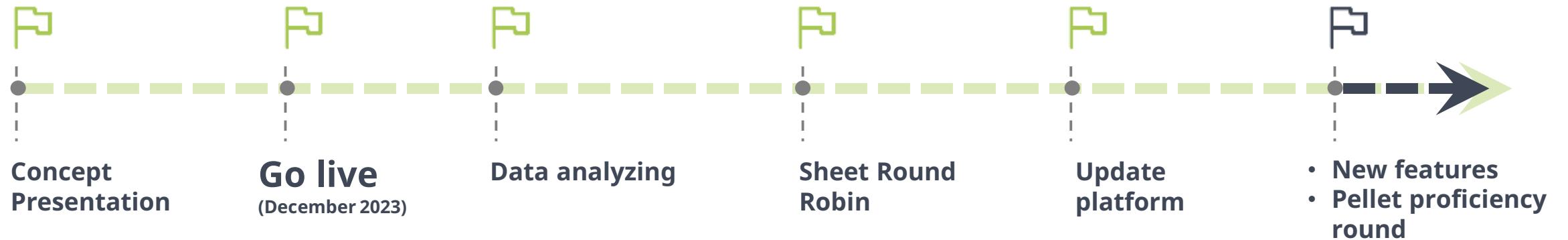


The Purpose

- Comply with 2022 16/16
- Data collection
- Analyse the data
- Reporting
- Safe data storage

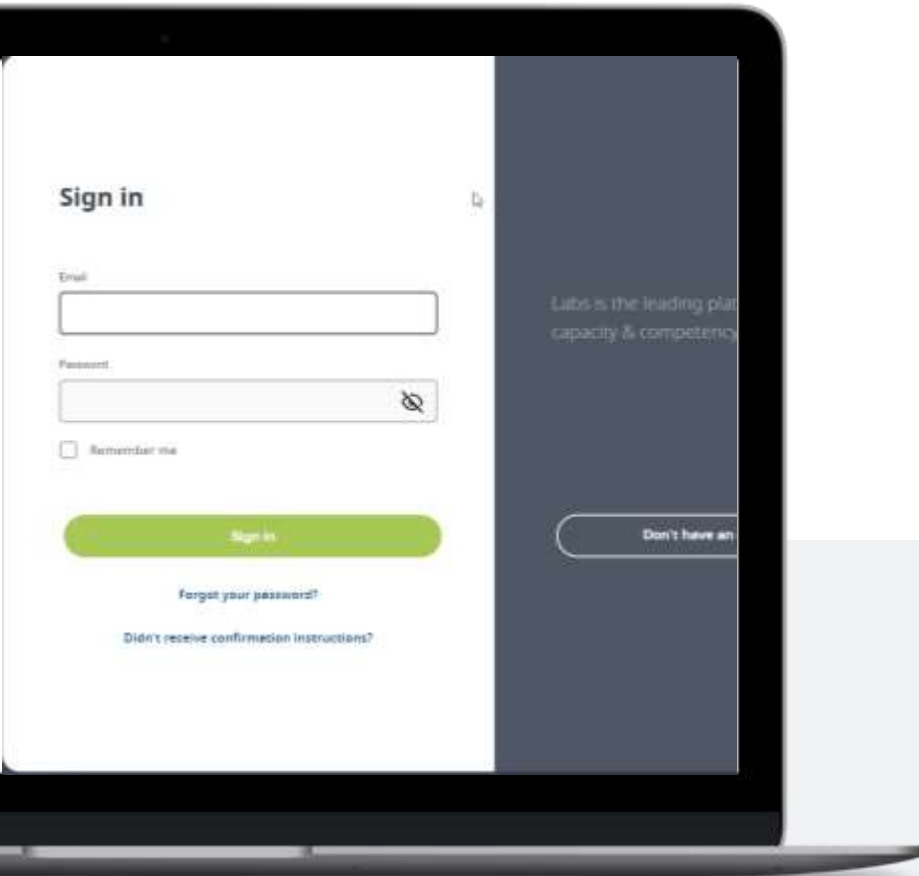


What was done so far



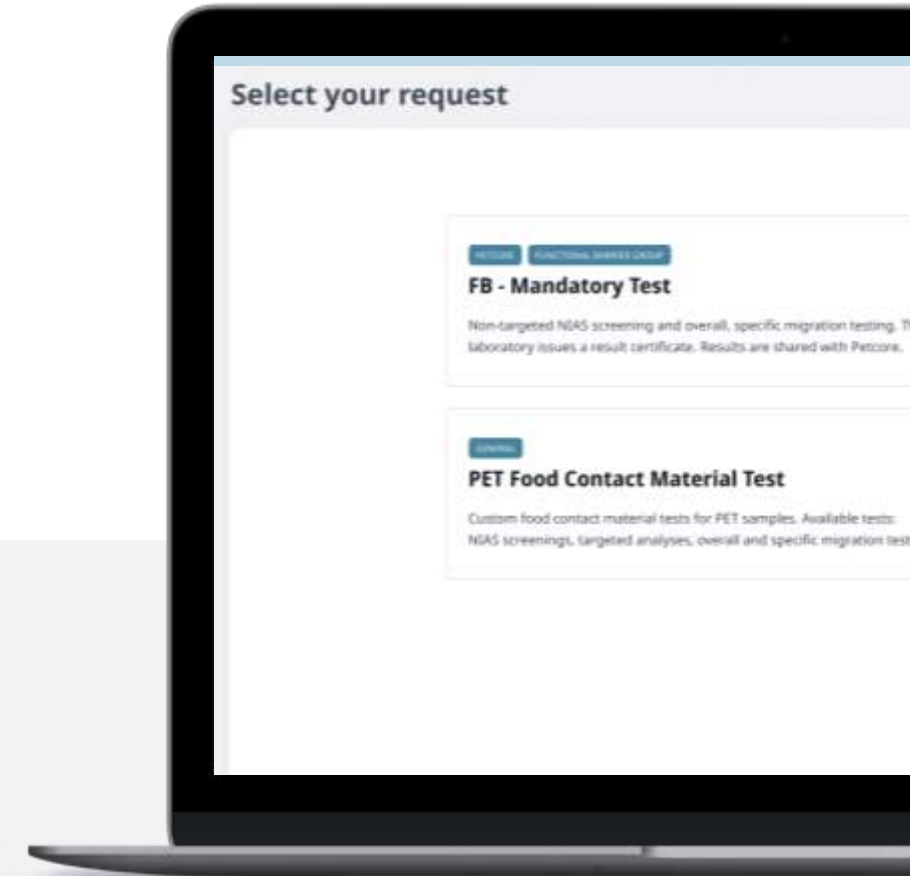
New features of Labs:

Mandatory / Optional Testing



After logging in, you will now have access to the order forms for the mandatory tests, and optional FCM tests.

Using Labs is free of charge!



Mandatory testing

The current mandatory tests include NIAS and Specific Migration (to be confirmed shortly by Petcore).

PET FCM testing

Samples

NIAS screenings

Targeted tests

QM

QNT

1 Alerts

2 Samples types

100% REVIEWED

10

Add PET samples

All samples must be PET

Sample-1

Sample reference ID

Sample date

Sample origin

TAMP-49-0001

09/12/2024

Flake

☐ The sample contains recycled PET

Duplicate sample

Delete sample

Sample-2 / SMF-IN001 Flake

Sample-3

Sample reference ID

Sample date

Sample origin

TAMP-49-0001

09/12/2024

Flake

☒ The sample contains recycled PET

Describe your sample

Filling out these optional fields helps store more data for future actions, analysis, or review

Required PET content

Required PET percentage

Selected material

0%

0%

PET consumer output

Desired migration for leaching

Desired migration

Baseline number (2004 or 2006)

Flake structure

RT1 IN A12

MCN0001

☒ The sample has a BPA layer structure

A/B/C layer details

RT1 (BPA/PC/PC)

RT2 (BPA/PC)

RT3 (BPA/PC)

100%

0%

100%

Report on leaching: A1/B1/C1

Report on leaching: D1/E1/F1/G1/H1

Test in RT1: 100%

Duplicate sample

Delete sample

+ Add new sample

FB - Mandatory testing

Samples

2 Samples types

Conducted tests

List of tests that will be conducted by the laboratory

☒ NIAS screenings

Samples: Input sample, Output sample

☒ Non-Targeted Volatile (qualification & semi-quantification)

☒ Non-Targeted Semi-Volatile (qualification & semi-quantification)

☒ Non-Targeted Non-Volatile (qualification & semi-quantification)

☒ Specific Migration Test

Test media / Simulant: Ethanol 95% Migration conditions: 10 days , 60 °C Sample: Output sample

Mandatory analysis:

☒ Targeted quantitative NIAS testing: VOC, semi-VOC, non-VOC (Benzene, Limonene, BPA, phthalates).

The targeted quantitative NIAS testing is mandatory when the specific migration is selected.
This analysis is either validated or skipped by the laboratory depending on the NIAS screening results of the output sample.

Optional analysis:

☐ Non-targeted semi-quantitative NIAS screening: VOC, semi-VOC, non-VOC.

☐ Quantitative determination of benzoic acid /o-phthalic acid in food simulants.

☐ Quantitative determination of monoethylene glycol and diethylene glycol in food simulants.

☐ Quantitative determination of primary aromatic Amines.

☒ Elements (Ba, Ca, Mn, Zn, Cu, Fe, Li, Al, Ni, Mg, Cr, As, Pb, Cd, Sb).

☐ Overall Migration Test

Test media / Simulant: Ethanol 95% Migration conditions: 10 days , 60 °C Sample: Output sample

7 |

KÖR

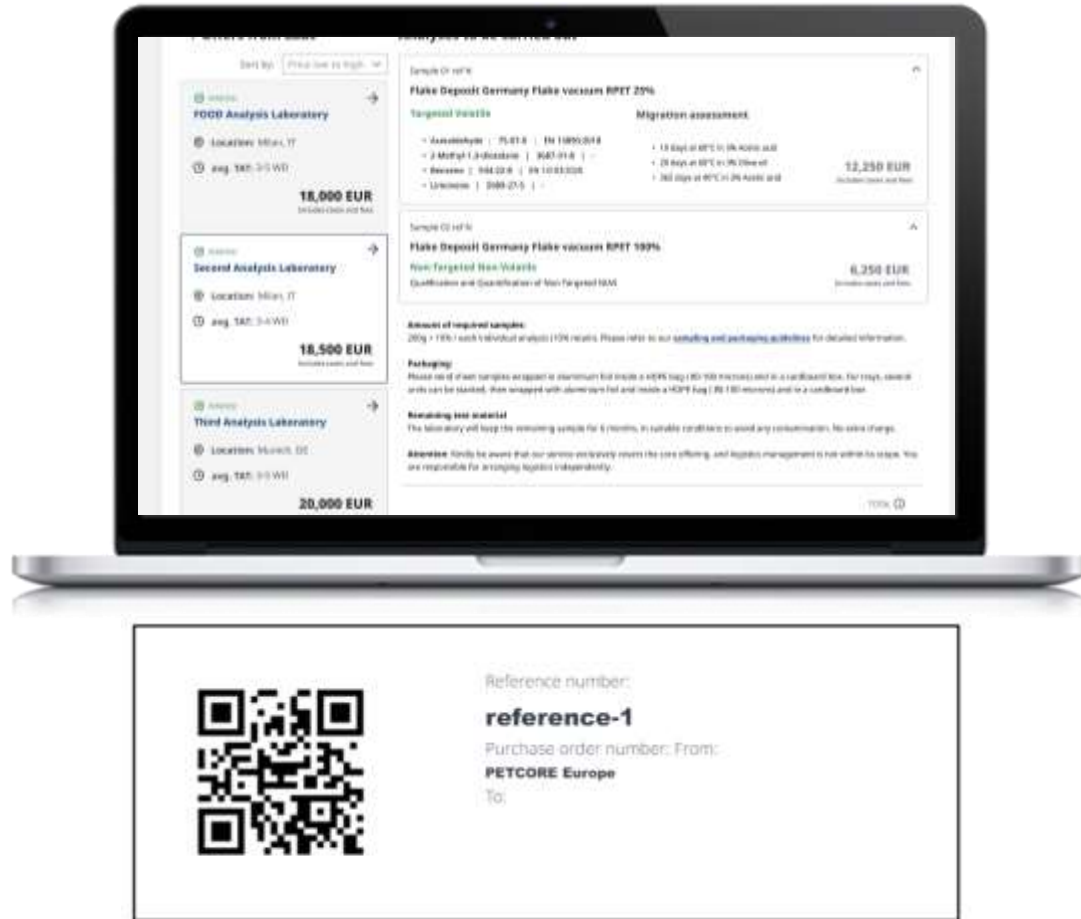
Optional FCM testing

Among the additional FCM tests available are NIAS and Migration. Soon, all FCM-related tests offered by the labs participating on the platform will be available to assist Petcore members in their audits and certification efforts.

The screenshot shows the 'PET FCM testing' interface with the 'NIAS screening' section active. At the top, there are tabs for 'Samples', 'NIAS screenings', 'Targeted tests', 'OMT', and 'SMT'. A price range of '€1000 - €2000' is displayed. The 'NIAS screening' section has a sub-header 'Select samples for audit analysis'. Below this, there are three categories: 'Non-Targeted Volatile (qualification & semi-quantification)', 'Non-Targeted Semi-Volatile (qualification & semi-quantification)', and 'Non-Targeted Non-Volatile (qualification & semi-quantification)'. Each category has a 'Download all' button and a list of sample IDs (e.g., Sample1 / SMP-0014, Sample2 / SMP-0024, Sample3 / SMP-0034, Sample4 / SMP-0044) with checkboxes for selection.

The screenshot shows the 'PET FCM testing' interface with the 'Overall Migration' section active. At the top, there are tabs for 'Samples', 'NIAS screenings', 'Targeted tests', 'OMT', and 'SMT'. A price range of '€1000 - €2000' is displayed. The 'Overall Migration' section has a sub-header 'Add test cases and select their samples'. Below this, there are three test cases: 'Test-1', 'Test-2', and 'Test-3'. Each test case has a 'Migration conditions' dropdown (e.g., DM3 - 30 min, 40 °C) and a 'Test media / Solution' dropdown (e.g., Ethanol 10%). Below each test case, there is a 'Samples' section with a list of sample IDs (e.g., Sample1 / SMP-0014, Sample2 / SMP-0024, Sample3 / SMP-0034, Sample4 / SMP-0044) and buttons for 'Duplicate test' and 'Delete test'.

Main benefits of using Labs



- Validated partners
- Choice of offers
- Sample label printing
- Laboratories can upload and update their pricelists themselves
- Standardized processing of results

Key features

- Comprehensive test ordering
- Instant pricing and laboratory selection
- One-stop shopping
- Fully digital

PET FCM testing 1. About 2. Order samples

1 Samples 2 NIAS screenings 3 Targeted tests 4 SMT 5 SMT

ADD PET SAMPLES

All sample tests on PET

Sample-1

Sample reference ID: SMP-EN-0001 Sample date: 09/12/2020 Sample type: Flake

☐ The sample contains recycled PET

Sample-2 / SMP-IN001 / Flake

Sample-3

Sample reference ID: SMP-EN-0001 Sample date: 09/12/2020 Sample type: Flake

☒ The sample contains recycled PET

Describe your sample

Filling out these optional fields helps our AI assist data for future actions, analysis, or results

Required PET content: %

Non-recycled PET content: %

☒ The sample has ABA layer structure

ABA layer details

ABA layer thickness: mm

ABA layer material:

FB - Mandatory testing 1. Samples 2. Report types

Conducted tests

List of tests that will be conducted by the laboratory

☒ **NIAS screenings**

Samples: Input sample, Output sample

- ☒ Non-Targeted Volatile (qualification & semi-quantification)
- ☒ Non-Targeted Semi-Volatile (qualification & semi-quantification)
- ☒ Non-Targeted Non-Volatile (qualification & semi-quantification)

☒ **Specific Migration Test**

Test media / Simulant: Ethanol 95% Migration conditions: 10 days, 60 °C Sample: Output sample

Mandatory analysis:

- ☒ Targeted quantitative NIAS testing: VOC, semi-VOC, non-VOC (Benzene, Limonene, BPA, phthalates).

Optional analysis:

- ☐ Non-targeted semi-quantitative NIAS screening: VOC, semi-VOC, non-VOC.
- ☐ Quantitative determination of terephthalic acid (o-phthalic acid) in food simulants.
- ☐ Quantitative determination of monoethylene glycol and diethylene glycol in food simulants.
- ☐ Quantitative determination of primary aromatic Amines.
- ☒ Elements (Ba, Ca, Mn, Zn, Cu, Fe, Li, Al, Ni, Mg, Cr, As, Pb, Cd, Sb).

☐ **Overall Migration Test**

Test media / Simulant: Ethanol 95% Migration conditions: 10 days, 60 °C Sample: Output sample

Future improvements

Continuously expanding test portfolio

The platform is open for everyone

The screenshot displays the 'PET FCM testing' interface. At the top, there are tabs for 'Samples', 'NIAS screenings', 'Targeted tests', 'OMT', and 'SMT'. A price range of '€1000 - €2000' is shown. Below the tabs, the 'NIAS screening' section is active, with the instruction 'Select samples for each analysis.' There are three categories of screening: 'Non-Targeted Volatile (qualification & semi-quantification)', 'Non-Targeted Semi-Volatile (qualification & semi-quantification)', and 'Non-Targeted Non-Volatile (qualification & semi-quantification)'. Each category has a 'Deselect all' button and a row of sample selection buttons labeled 'Sample1 / SMP-0014', 'Sample2 / SMP-0024', 'Sample3 / SMP-0034', and 'Sample4 / SMP-0044'.

The screenshot displays the 'PET FCM testing' interface with the 'Overall Migration' section active. It shows three test configurations: 'Test-1' (DM3 - 30 min., 40 °C; Ethanol 10%), 'Test-2' (OM1 - Ethanol 20%), and 'Test-3' (DM3 - 2 hours, 70 °C; Acetic acid 2%). Each test has a 'Duplicate test' button and a 'Delete test' button. At the bottom, there is a '+ Add new test' button.



If you think of FCM testing think of Labs!

Sign up today!



Thank you!

Ludwig COENEN

Mario BAHLOULI

www.kor-group.com

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