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WHY?

EU LEGISLATION

METRO|NOM

METRO

CUSTOMERS

METRO | NOM

METRO

FOOD SAFETY

METRO|NOM

METRO

SUSTAINABILITY

METRO|NOM

METRO

SUPPLIER BENEFITS

INCREASED TRUST

READY FOR THE FUTURE

INCREASED VISIBILITY

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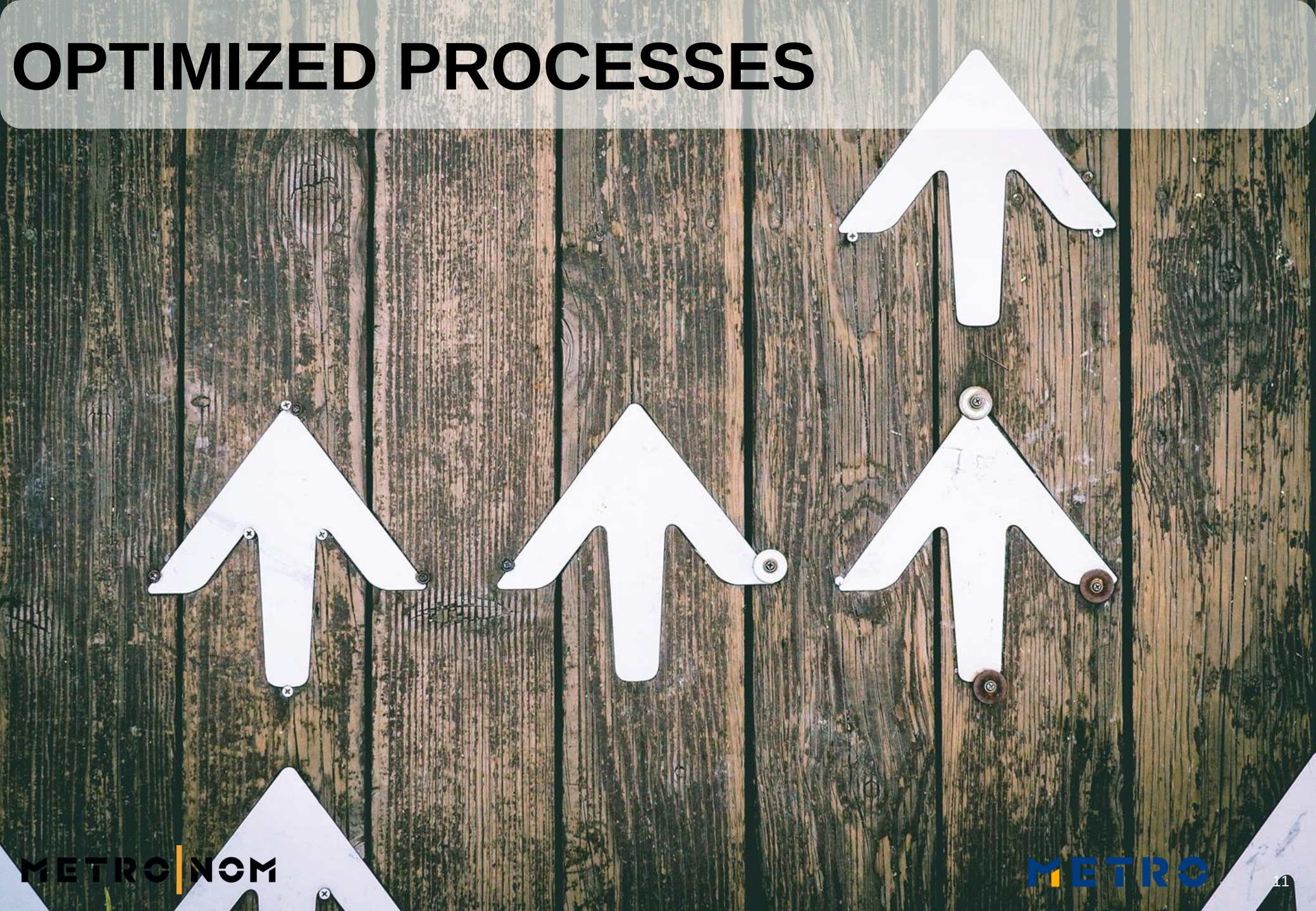
OPTIMIZED PROCESSES



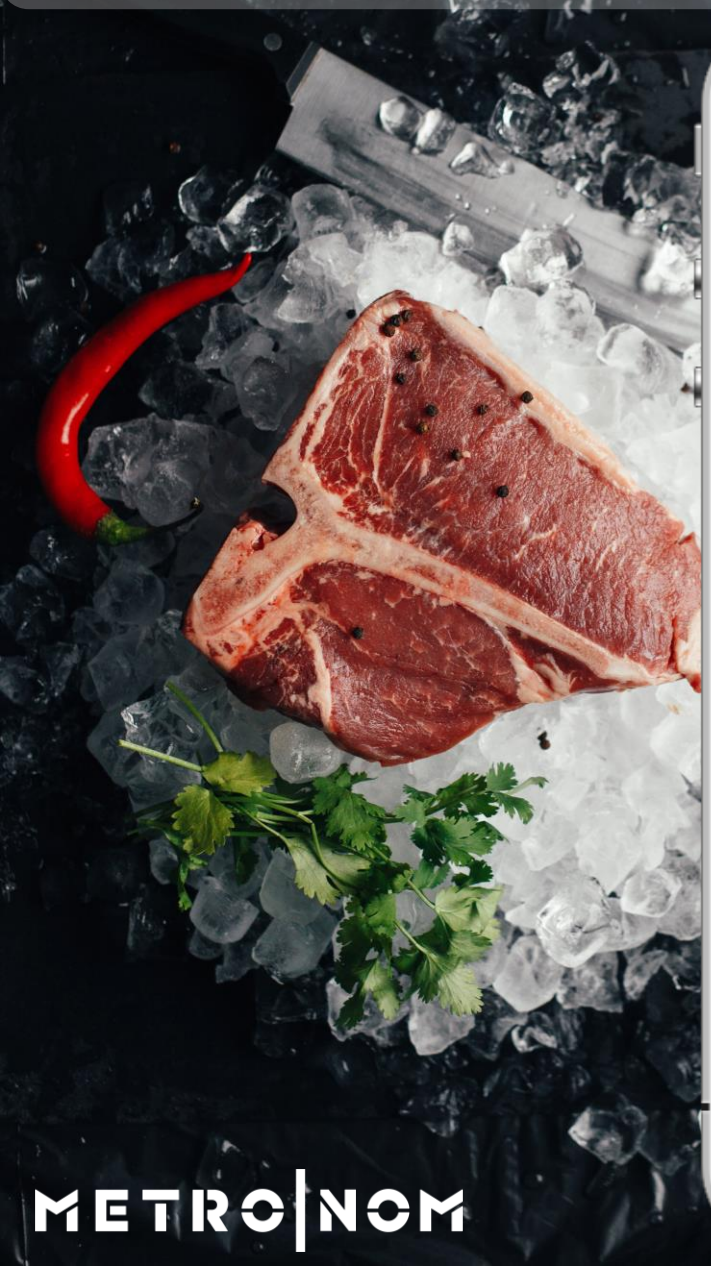
CUSTOMER BENEFITS

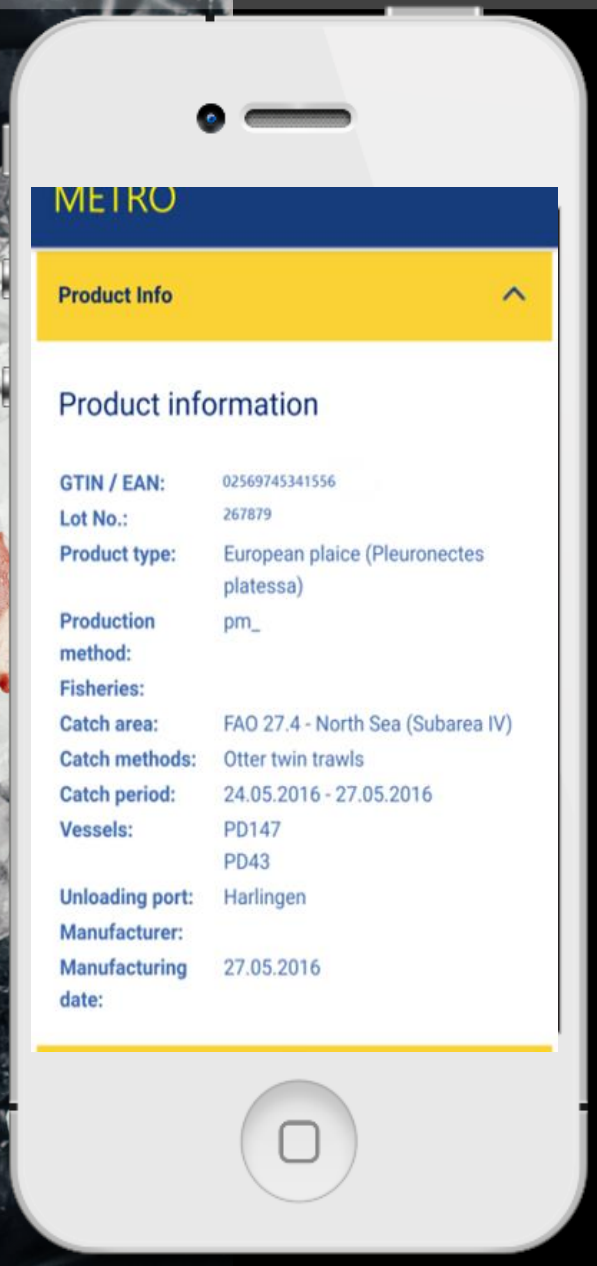
ABILITY TO CHOOSE

SAFE FOOD

TRACEABLE IN THE OWN APP

METRO PRO TRACE





- PRODUCT INFO
- PROCESSING COMPANY
- SLAUGHTERING COMPANY
- MEAT ORIGINS
- COUNTRY OF BIRTH

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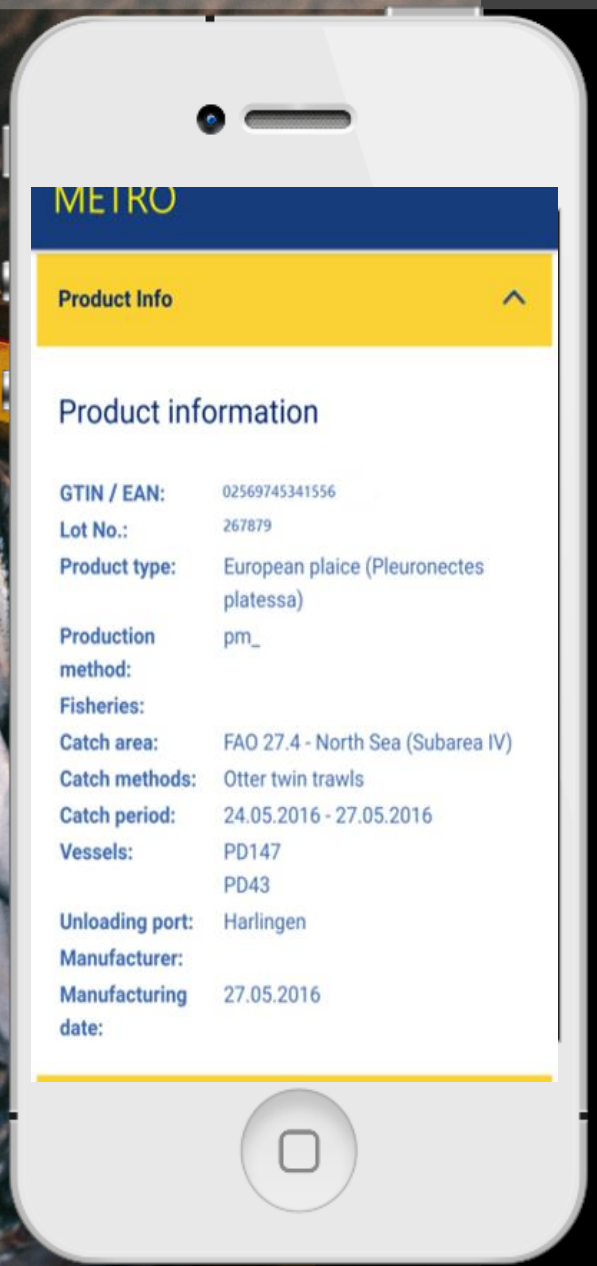
TRACEABLE IN THE OWN APP

METRO PRO TRACE



PRODUCT INFO

CATCH METHOD

ORIGIN

SPECIES

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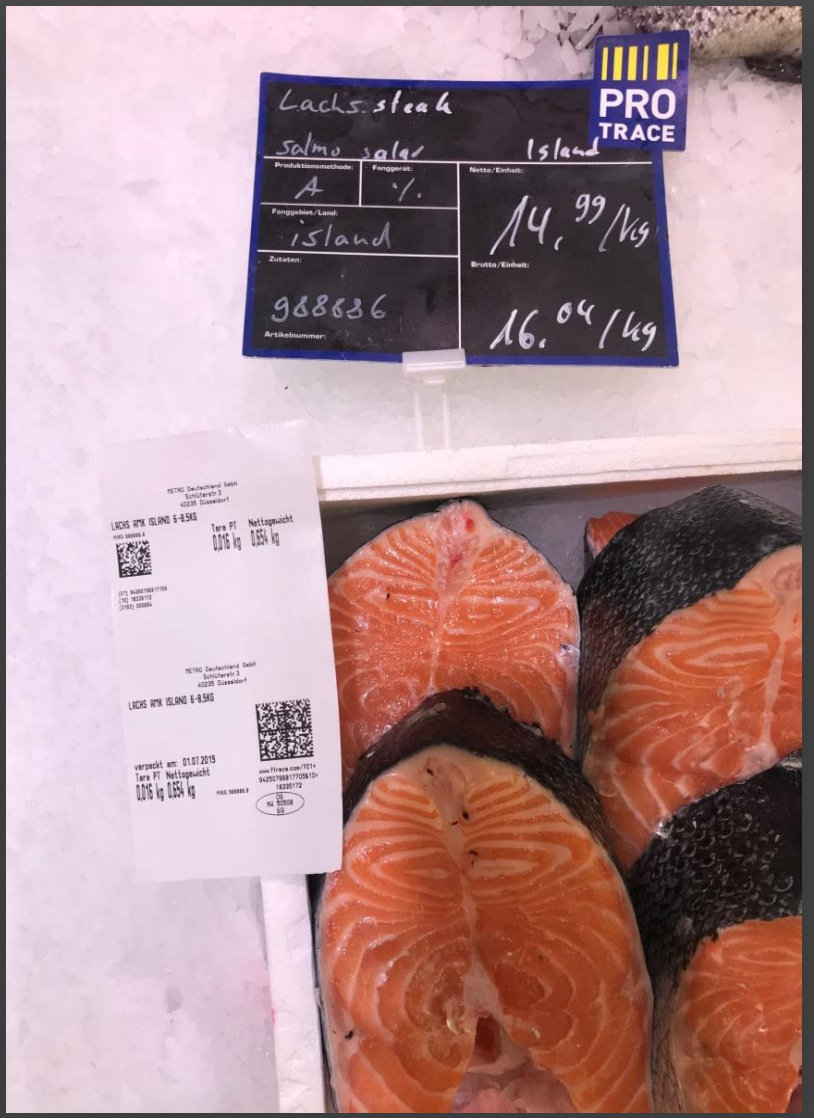
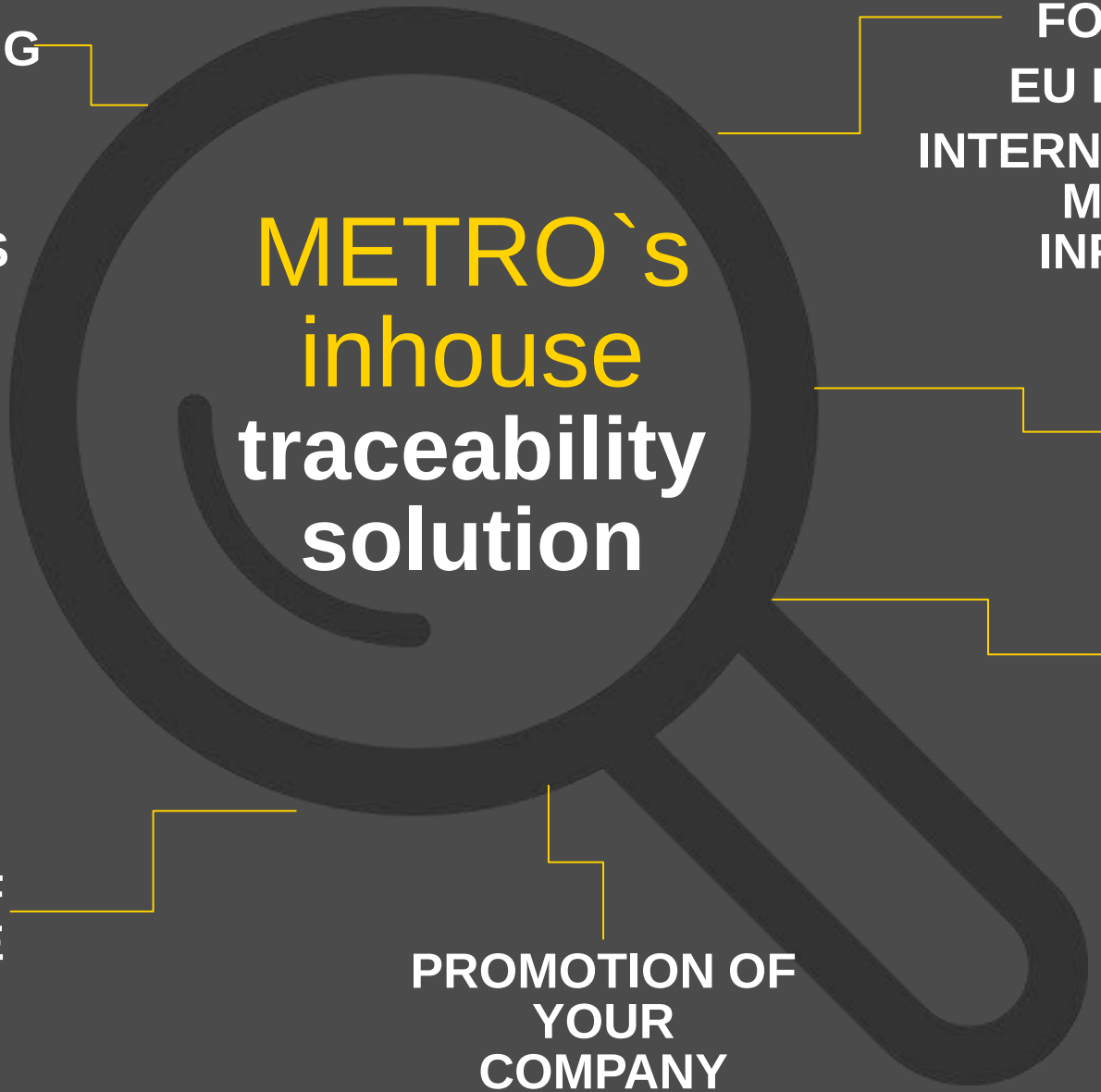
TRACEABLE ON THE SHELF



WHAT IS PIER?



METRO`s inhouse **traceability solution**

ONBOARDING OF METRO ULTRA-FRESH SUPPLIERS

DATA COLLECTION FOR

FOOD SAFETY

EU REGULATION

INTERNAL PURPOSES & MARKETING INFORMATION

TAILOR –MADE INTEGRATED PLATFORM

USER-FRIENDLY

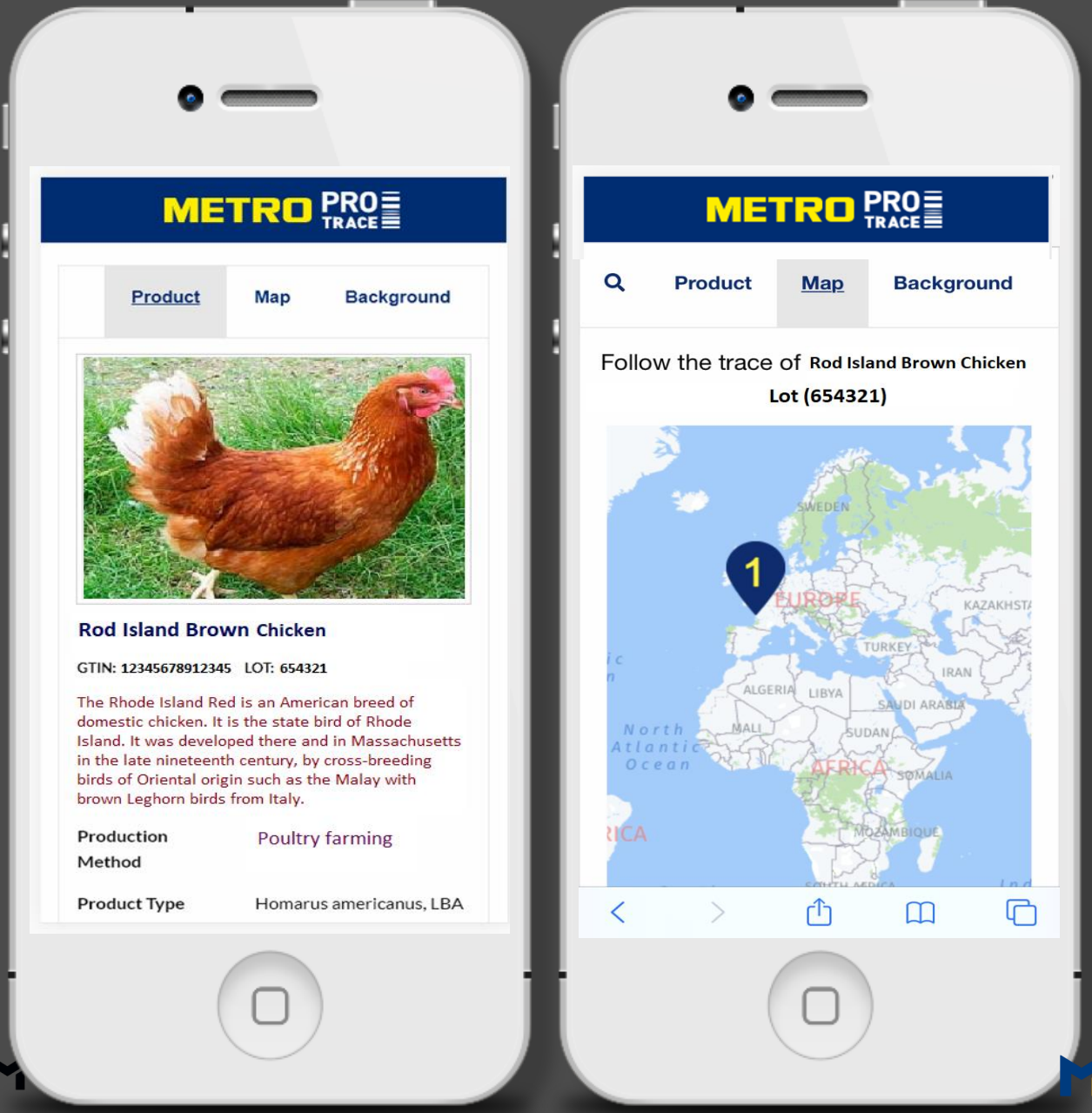
FREE OF CHARGE

PROMOTION OF YOUR COMPANY

PIER 2.0 (1/2) – Your product story

Product Information

- GTIN
- LOT
- Production Method
- Type
- Processing Company
- Processing date
- Catch Mathod
- Catch Area



Interactive MAP

- Ability to zoom
- Applicable to show multiple locations

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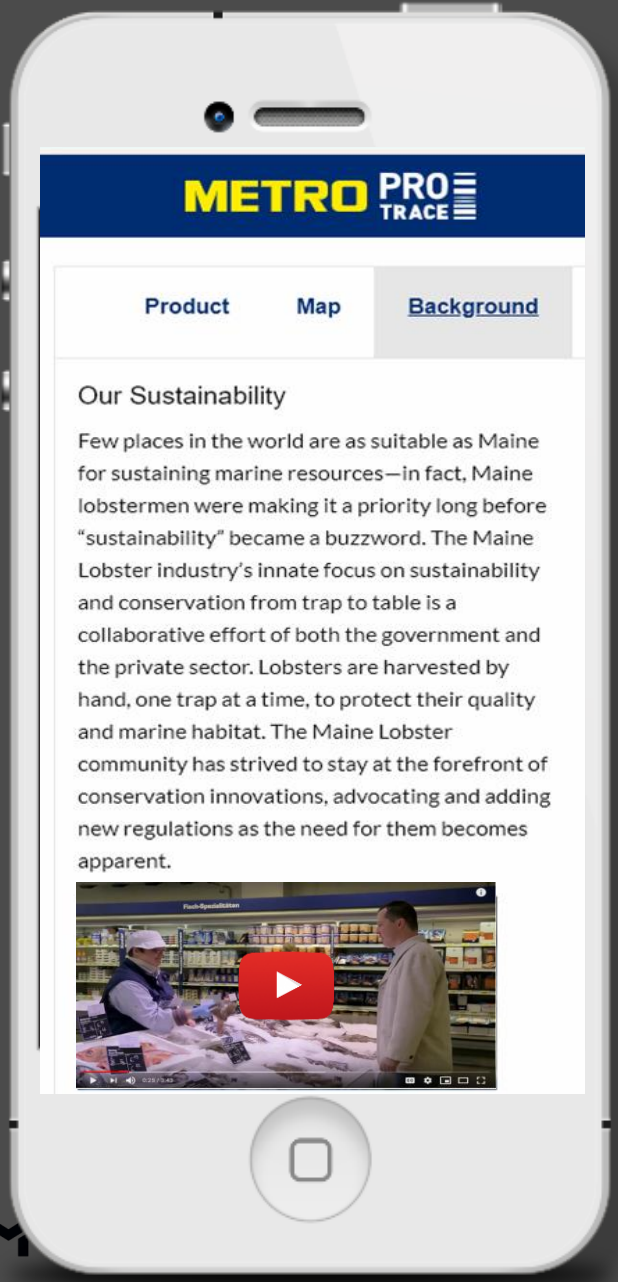
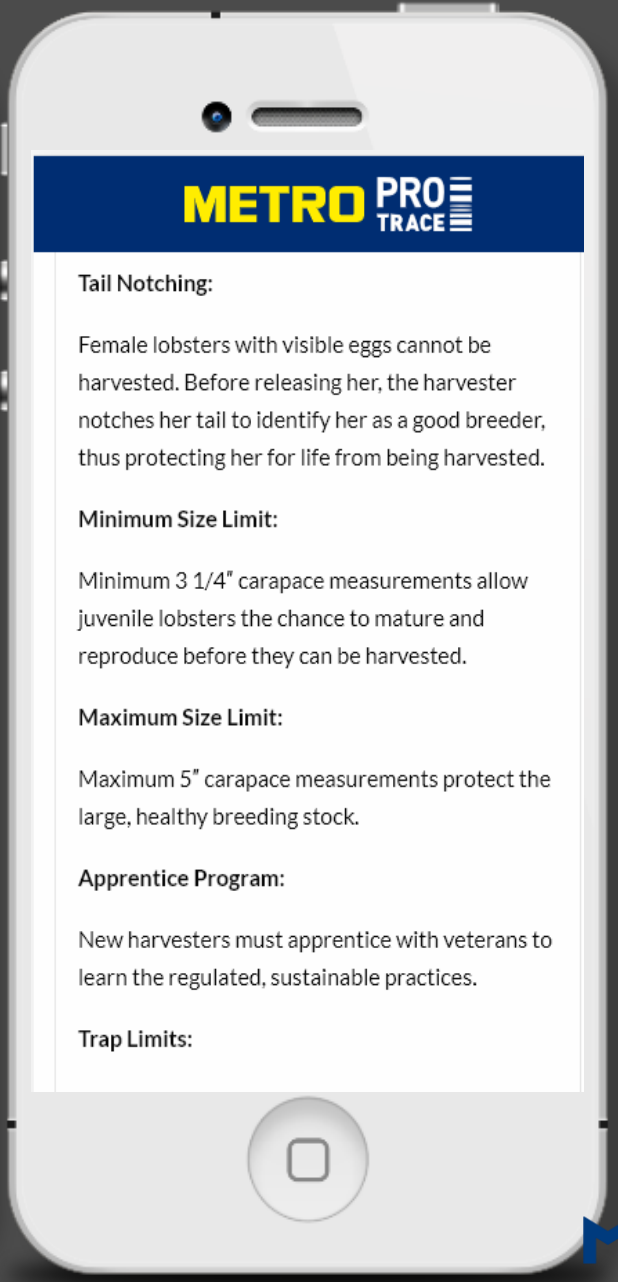
PIER 2.0 (2/2) – Your product story

Background Information (1/2)

- About the company
- Sustainability info
- Catching method details





Background Information (2/2)

- Add pictures
- Add videos to show traceability
- EPCIS technology
- No restrictions to size of the files

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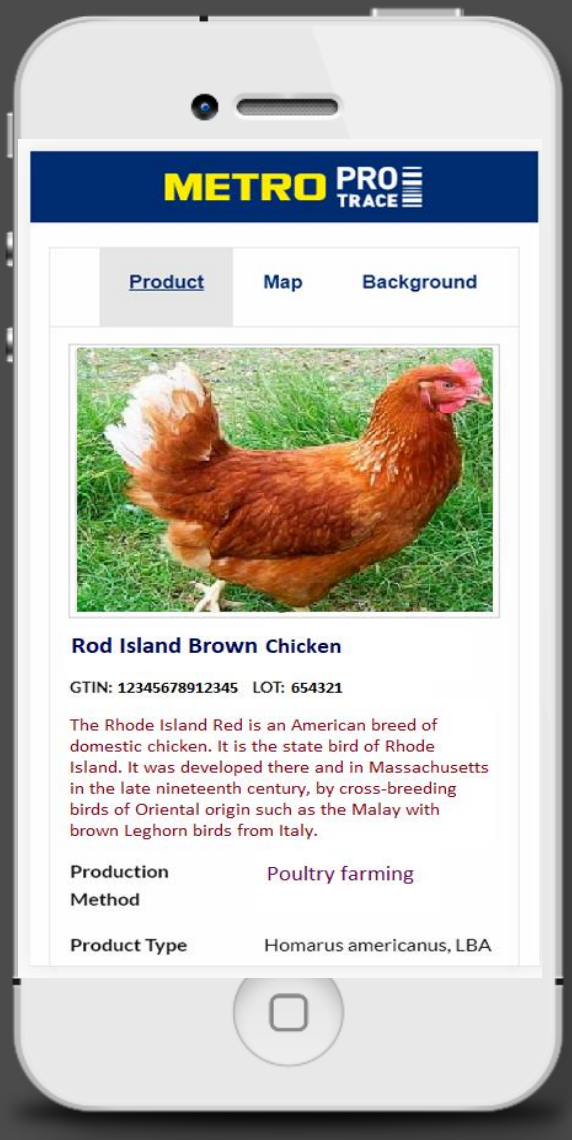
PIER 2.0 – How to retrieve the information?



OPTION 1: Scan the barcode

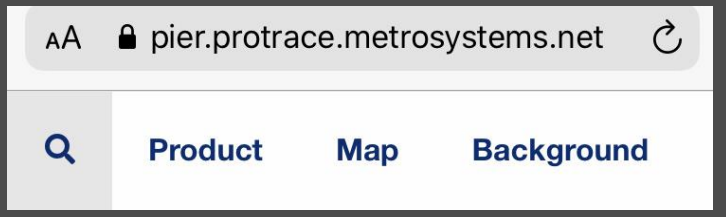
01008885080039961019260WW1

OPTION 2: Scan the QR code

Retrieve the product story in PROTRACE APP

METRO PRO TRACE

Retrieve the product story on the specific product website



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YOUR ON-BOARDING JOURNEY

PREPARATION

1. GET THE TRAINING

2. CHOOSE AN OPTION FOR DATA UPLOADING

3. REQUEST FOR GLN & GTINS FROM YOUR LOCAL GS1

4. CREATION AND ASSIGNING OF GTIN 14

ON-BOARDING BOOTCAMP

1. VALIDATION OF MASTER DATA

2. PIER LOGIN CREDENTIALIALS WILL BE SENT TO YOU

USAGE

1. LOG INTO PIER

2. SUBMIT YOUR TRACEABILITY DATA

3. CHECK YOUR LABELING

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PREPARATION 2: CHOOSE AN OPTION FOR DATA UPLOADING

MANUAL

SEMI AUTOMATIC

AUTOMATIC

HOW MANY ARTICLES DO YOU HAVE?
HOW OFTEN DO YOU SUPPLY TO METRO?

PREPARATION 3: REQUEST FOR GLN & GTINS FROM YOUR LOCAL GS1

GS1 GLOBAL – find & contact

https://www.gs1.org/

Search by GLN – check your GLN

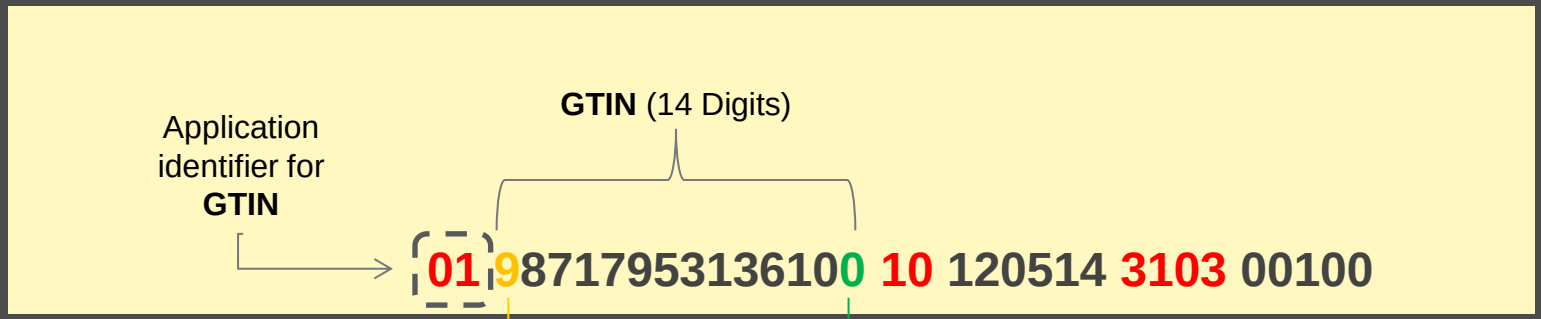
http://gepir.gs1.org/index.php/search-by-gln

Search by GTIN – check existing or new GTINS

http://gepir.gs1.org/index.php/search-by-gtin

PREPARATION 4 (1/2): CREATION OF GTIN 14

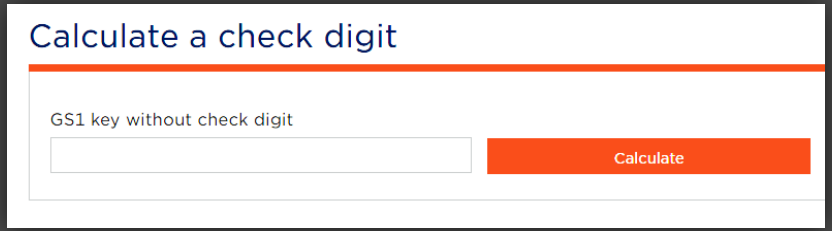
From your Local GS1 Provider you will receive a 13 digits code (GTIN13). In order to build your GTIN14 you have to add the first digit and then recalculate the last (check digit).



Type of weight Digit: In case of having a 13 digits code (GTIN13), you will have to add the first digit according to the type of weight of the product:

- **Fix-weight** products will always start with **0**.
- **Variable weight** products will always start with **9**.

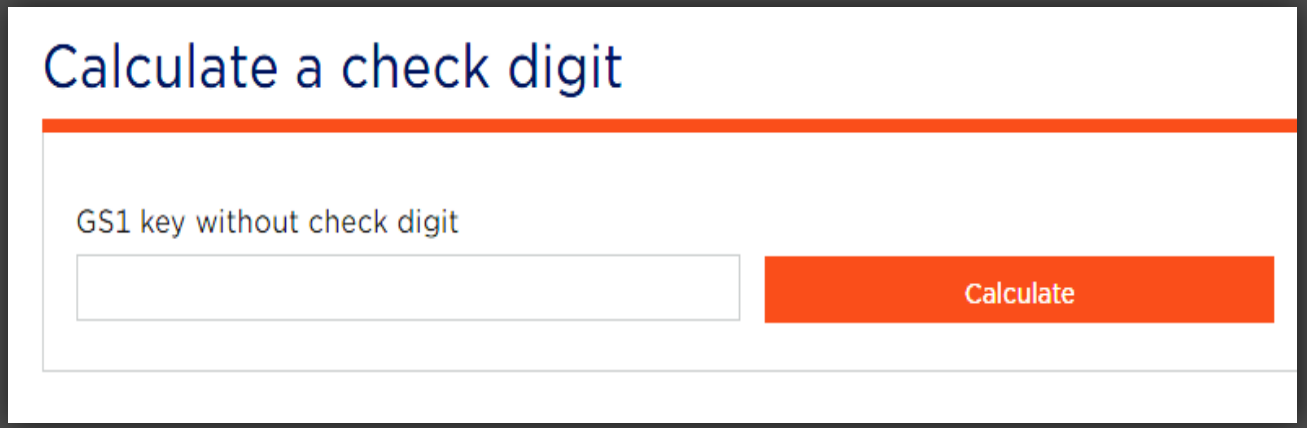
Check Digit: Last digit comes from a formula depending on the other 13 values of the GTIN14. Can be calculated on https://www.gs1.org/services/check-digit-calculator



PREPARATION 4 (1/2): CREATION OF GTIN 14

STEPS TO CHECK YOUR GTIN14

1. Add your **GTIN13** in the search bar
2. Add 0 or 9 at the beginning of your GTIN13
3. Delete the last digit
4. Click on “Calculate check digit”
5. You will receive your GTIN14



8717953136107 → **9871795313610 0**

PREPARATION 4 (2/2): ASSIGNING OF GTINs

FISH

FISHING
FARMING
→ PROCESSING

MEAT

SLAUGHTERING

PROCESSING

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FISH

Step 1: Fishing/Farming

GTIN "A" is assigned

Raw
Product

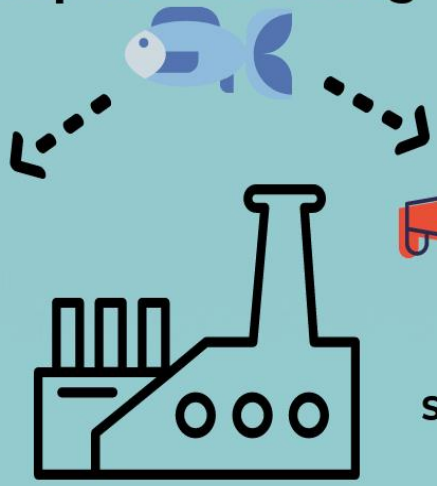
Fisherman catches

Step 2: Processing

Final
Product

Situation A

Supplier sells the whole fish and assigns GTIN "A"



Situation B

Supplier processes the fish and assigns GTIN "B"

Final
Product

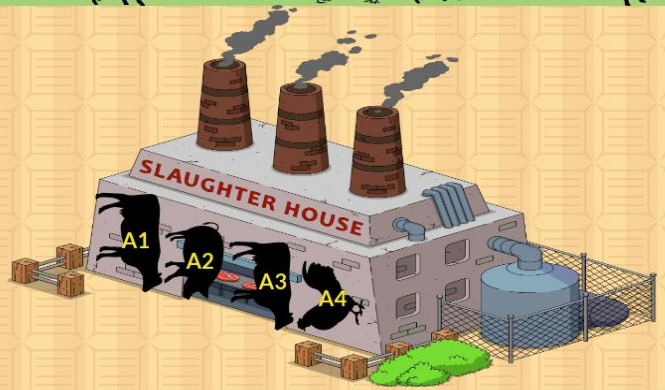
MEAT

Step 1: Slaughtering

RAW
product

Born
in Ukraine

RAW
product



Slaughtered
in Germany

Meat is slaughtered and
GTIN "A" is assigned

Step 2: Processing

Final
products

Situation A

Supplier sells the carcass
and assigns GTIN "A1"

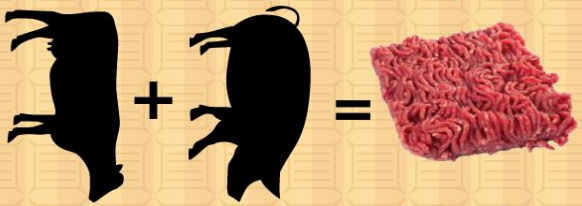
Situation B

Supplier processes the carcass
and assigns "GTIN "B1, B2, B3..."

Final
products

Situation C

GTIN "A1" GTIN "A2" GTIN "C"



Supplier processes raw products, mixes
them and assigns GTIN "C"

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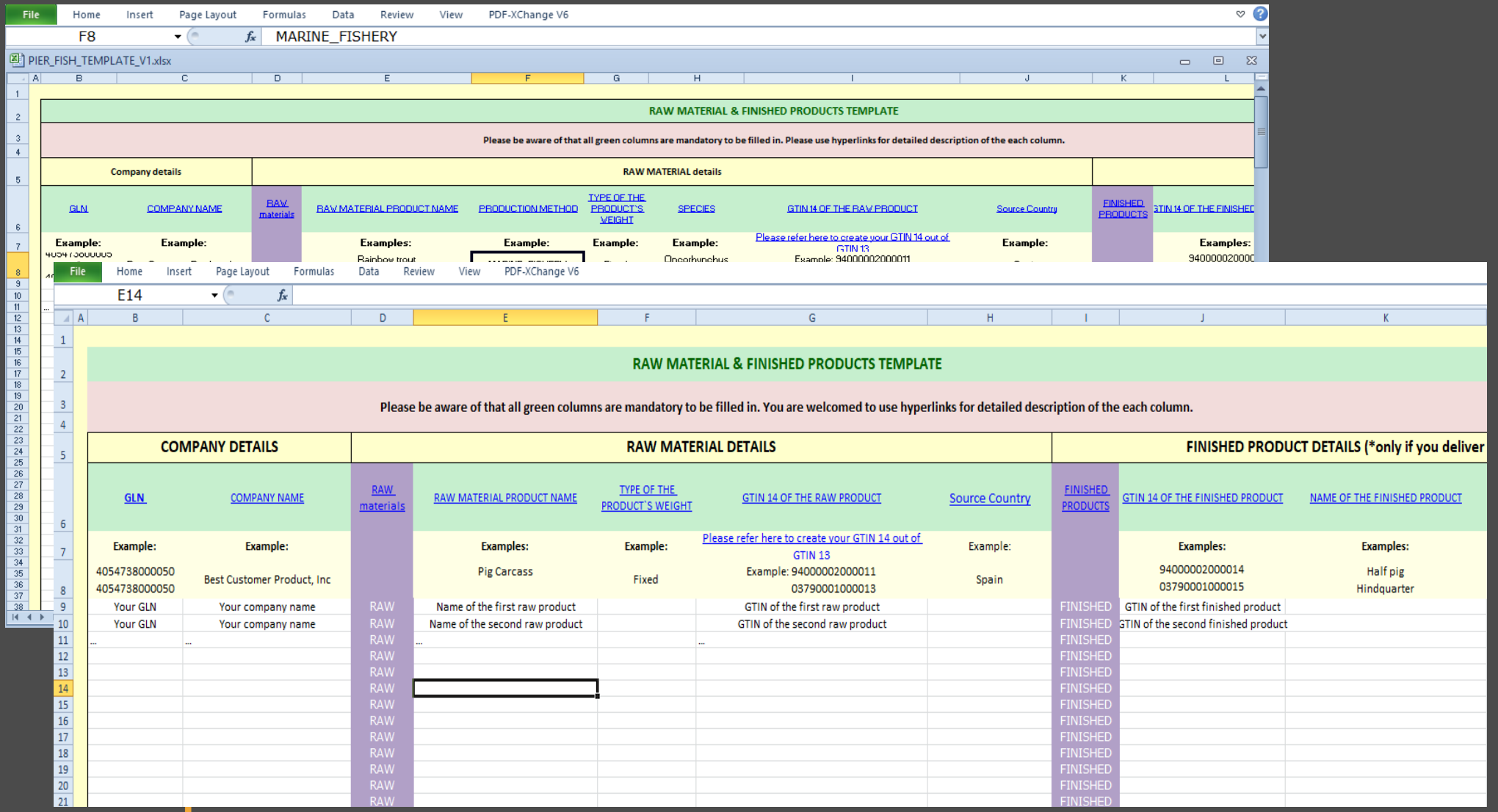
ONBOARDING 1: VALIDATION OF MASTER DATA

FILL in and SEND BACK TO

pier@sourcingsupport.de



File Home Insert Page Layout Formulas Data Review View PDF-XChange V6

F8 MARINE_FISHERY

PIER_FISH_TEMPLATE_V1.xlsx

RAW MATERIAL & FINISHED PRODUCTS TEMPLATE

Please be aware of that all green columns are mandatory to be filled in. Please use hyperlinks for detailed description of the each column.

Company details		RAW MATERIAL details							FINISHED PRODUCTS	
GLN	COMPANY NAME	RAW materials	RAW MATERIAL PRODUCT NAME	PRODUCTION METHOD	TYPE OF THE PRODUCT'S WEIGHT	SPECIES	GTIN 14 OF THE RAW PRODUCT	Source Country	FINISHED PRODUCTS	GTIN 14 OF THE FINISHED
Example:	Example:		Examples:	Example:	Example:	Example:	Please refer here to create your GTIN 14 out of GTIN 13 Example: 94000002000011	Example:		Examples: 940000020000
			Rainbow trout			Oncorhynchus				

File Home Insert Page Layout Formulas Data Review View PDF-XChange V6

E14

RAW MATERIAL & FINISHED PRODUCTS TEMPLATE

Please be aware of that all green columns are mandatory to be filled in. You are welcomed to use hyperlinks for detailed description of the each column.

COMPANY DETAILS		RAW MATERIAL DETAILS					FINISHED PRODUCT DETAILS (*only if you deliver		
GLN	COMPANY NAME	RAW materials	RAW MATERIAL PRODUCT NAME	TYPE OF THE PRODUCT'S WEIGHT	GTIN 14 OF THE RAW PRODUCT	Source Country	FINISHED PRODUCTS	GTIN 14 OF THE FINISHED PRODUCT	NAME OF THE FINISHED PRODUCT
Example: 4054738000050 4054738000050	Example: Best Customer Product, Inc		Examples: Pig Carcass	Example: Fixed	Please refer here to create your GTIN 14 out of GTIN 13 Example: 94000002000011 03790001000013	Example: Spain		Examples: 94000002000014 03790001000015	Examples: Half pig Hindquarter
Your GLN	Your company name	RAW	Name of the first raw product		GTIN of the first raw product		FINISHED	GTIN of the first finished product	
Your GLN	Your company name	RAW	Name of the second raw product		GTIN of the second raw product		FINISHED	GTIN of the second finished product	
...	...	RAW	...		...		FINISHED		
		RAW					FINISHED		
		RAW					FINISHED		
		RAW					FINISHED		
		RAW					FINISHED		
		RAW					FINISHED		
		RAW					FINISHED		
		RAW					FINISHED		
		RAW					FINISHED		
		RAW					FINISHED		
		RAW					FINISHED		
		RAW					FINISHED		

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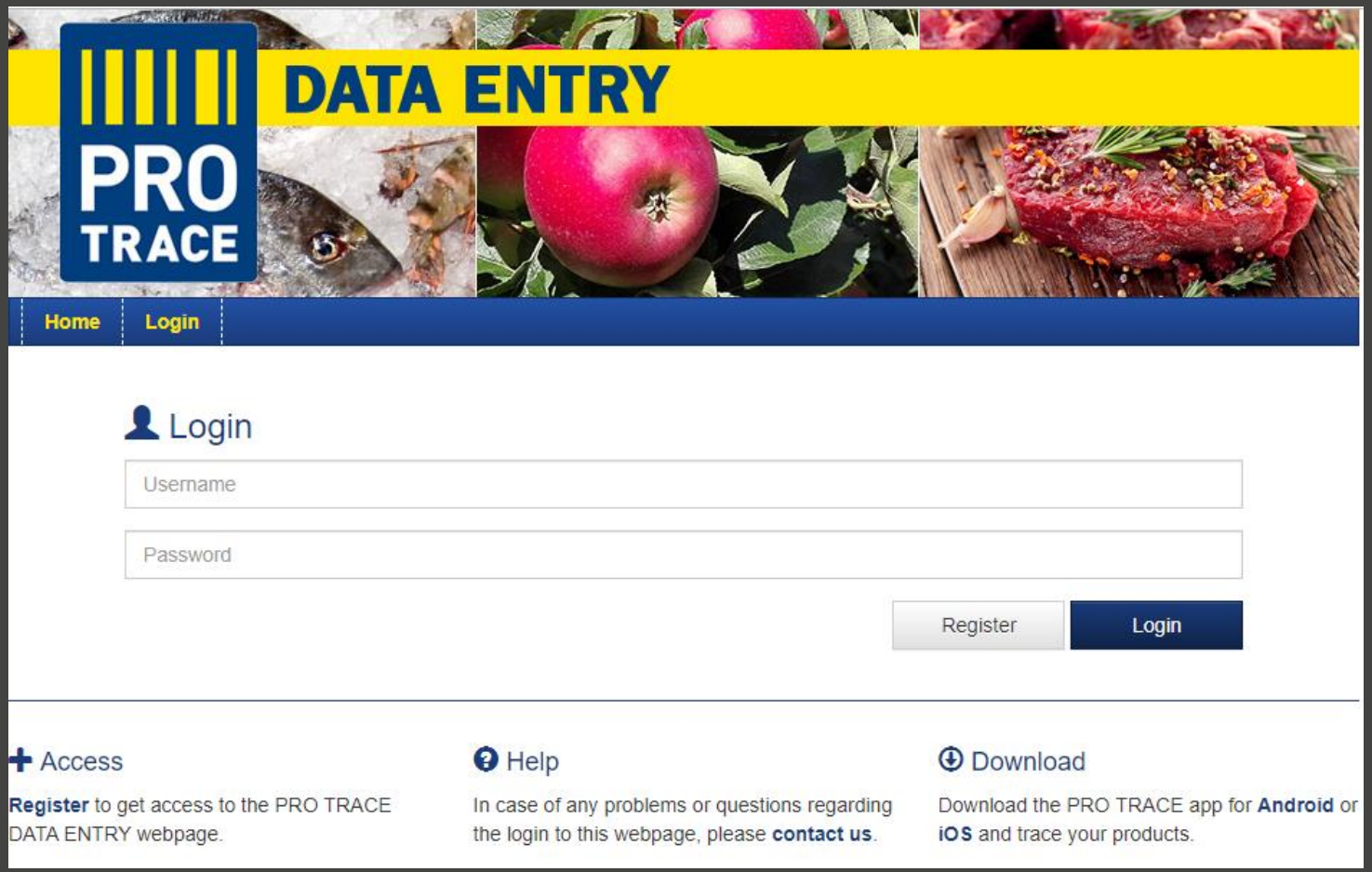
USAGE 1: LOG INTO PIER

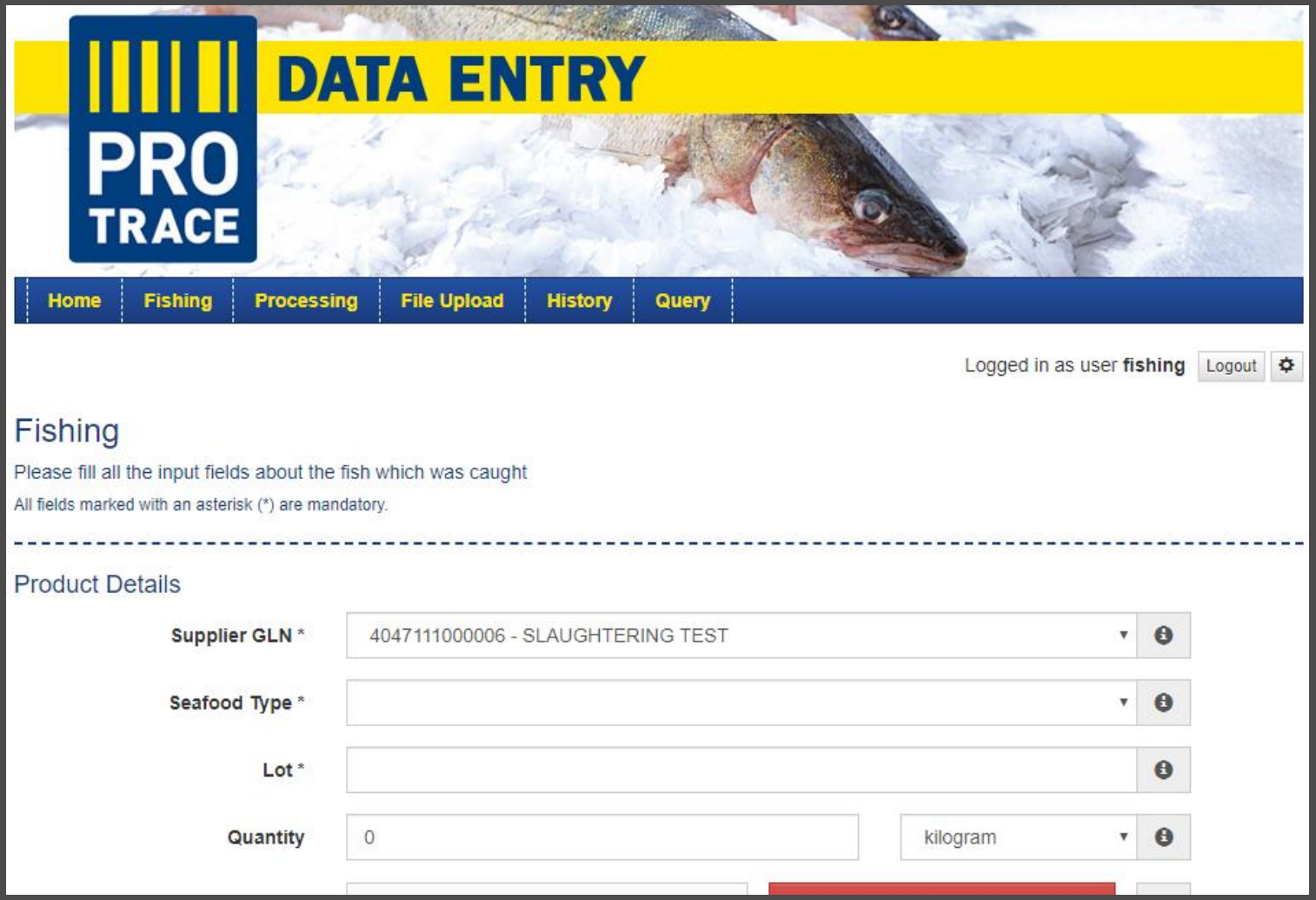
USERNAME & PASSWORD will be sent by EECC GmbH



USAGE 2: SUBMIT YOUR TRACEABILITY DATA

OPTION 1 – MANUAL Upload

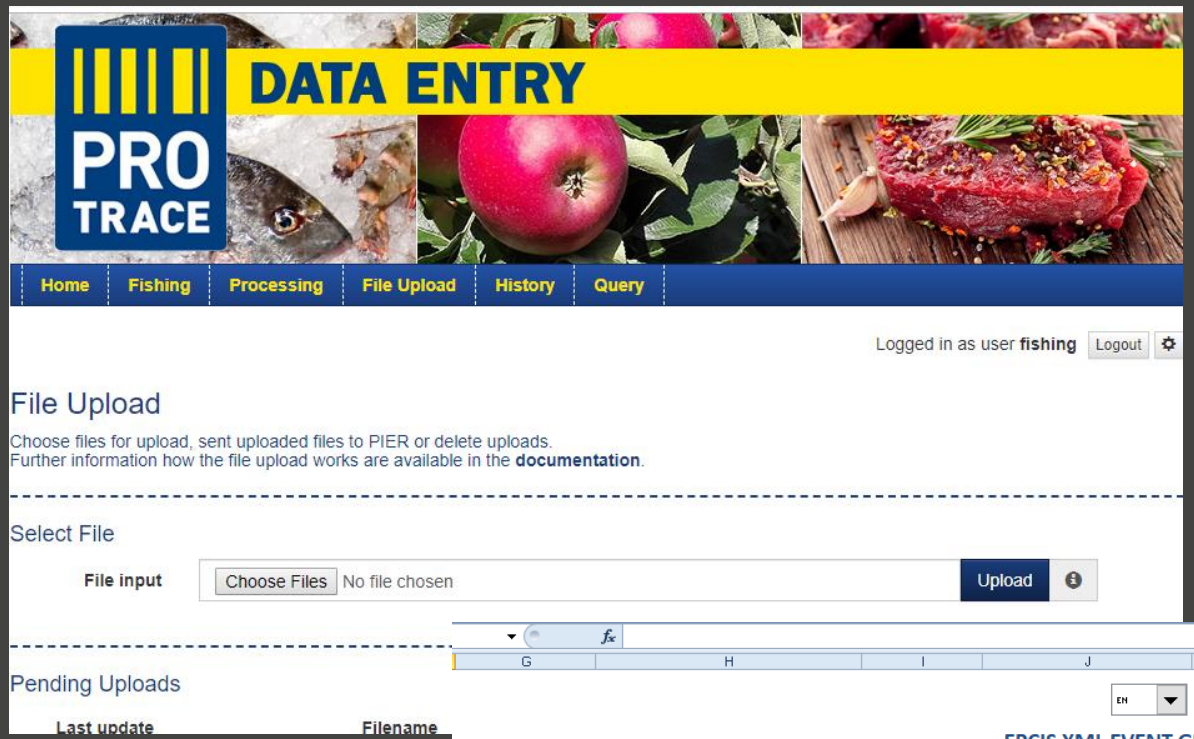
PROVIDE DATA PER EACH GTIN AND LOT* NUMBER

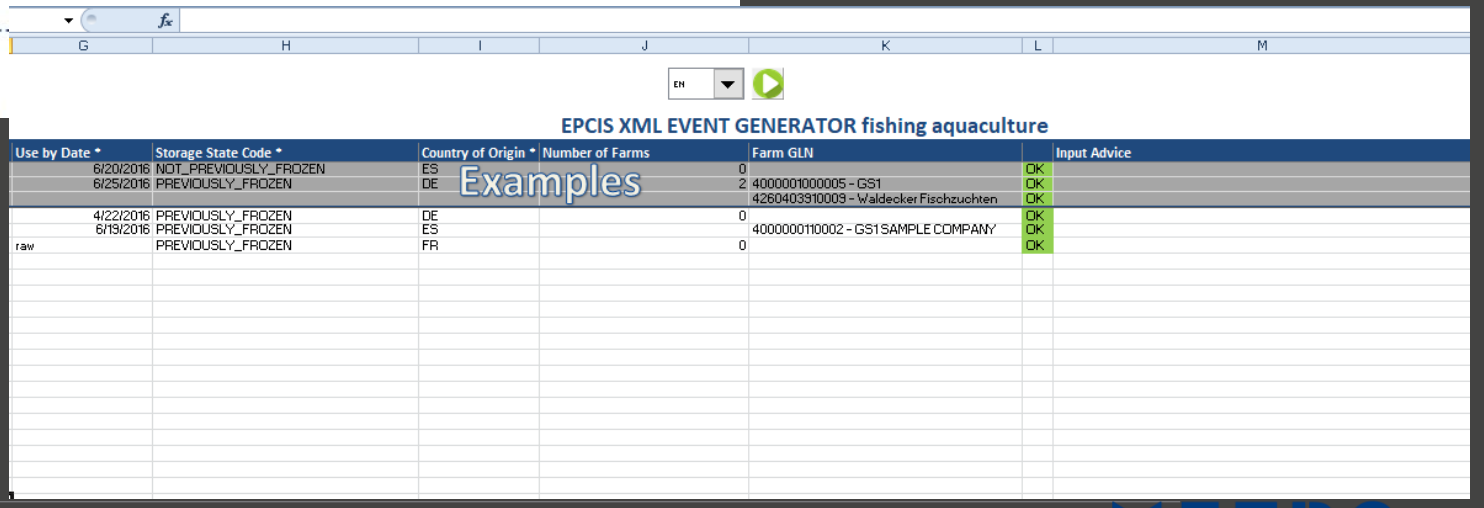


***EVERY NEW SHIPMENT = NEW LOT NUMBER**

USAGE 2: SUBMIT YOUR TRACEABILITY DATA

OPTION 2 (page 1): SEMI-AUTOMATIC UPLOAD





USAGE 2: SUBMIT YOUR TRACEABILITY DATA

OPTION 2 (page 2) - SEMI-AUTOMATIC UPLOAD: HOW DOES IT WORK?

- CONFIGURATION UPFRONT
- ADD ARTICLE, LOCATION, FARM MASTER DATA
- ONLY OUTPUT DATA IS ENTERED
- INPUT DATA IS GENERATED BY THE CONVERTER BASED ON THE OUTPUT LGTIN
- WORKS WITHOUT RAW GTINS

SLAUGHTERING (INPUT)

```
<ObjectEvent>
    <eventTime>2019-03-24T00:00:00Z</eventTime>
    <eventTimeZoneOffset>+02:00</eventTimeZoneOffset>
    <epcList/>
    <action>ADD</action>
    <bizStep>urn:epcglobal:cbv:bizstep:commissioning</bizStep>
    <readPoint>
        <id>urn:epc:id:sgln:4005615.00000.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:4005615.00000.0</id>
    </bizLocation>
    <extension>
        <quantityList>
            <quantityElement>
                <epcClass>urn:epc:class:lgtin:4018294.089310.201903240b</epcClass>
                <quantity>1</quantity>
                <uom>KGM</uom>
            </quantityElement>
        </quantityList>
        <ilmd>
            <fT:preStageDetails>
                <fT:agricultureDetails>
                    <fT:farmIdentificationNumber fT:farmIdentType="GLN">4000001000005</fT:farmIdentificationNumber>
                    <fT:proportionPercentOfLot>100</fT:proportionPercentOfLot>
                    <fT:proportionRankingOfLot>1</fT:proportionRankingOfLot>
                    <fT:countriesOfBirth>
                        <fT:countryCode>DE</fT:countryCode>
                    </fT:countriesOfBirth>
                </fT:agricultureDetails>
            </fT:preStageDetails>
        </ilmd>
    </extension>
</ObjectEvent>
```

PROCESSING (OUTPUT)

```
<TransformationEvent>
    <eventTime>2019-03-24T00:00:00Z</eventTime>
    <eventTimeZoneOffset>+02:00</eventTimeZoneOffset>
    <inputQuantityList>
        <quantityElement>
            <epcClass>urn:epc:class:lgtin:4018294.089310.201903240b</epcClass>
            <quantity>1</quantity>
            <uom>KGM</uom>
        </quantityElement>
    </inputQuantityList>
    <outputQuantityList>
        <quantityElement>
            <epcClass>urn:epc:class:lgtin:4018294.089310.201903240</epcClass>
            <quantity>1</quantity>
            <uom>KGM</uom>
        </quantityElement>
    </outputQuantityList>
    <bizStep>urn:epcglobal:cbv:bizstep:transforming</bizStep>
    <readPoint>
        <id>urn:epc:id:sgln:4047111.00001.0</id>
    </readPoint>
    <bizLocation>
        <id>urn:epc:id:sgln:4047111.00001.0</id>
    </bizLocation>
    <ilmd>
        <fT:useByDate>2019-06-24</fT:useByDate>
        <fT:bestBeforeDate>2019-06-24</fT:bestBeforeDate>
    </ilmd>
```

Input LGTIN / Input Quantity is generated based on the Output LGTIN / Output Quantity

USAGE 2: SUBMIT YOUR TRACEABILITY DATA

OPTION 3: AUTOMATIC / CAPTURE INTERFACE

Submission of EPCIS Events (XML) via web service

WHAT

TECHNIQUE TO SUBMIT DATA

XML VIA HTTP POST

AUTHENTIFICATION

BASIC

USER CREATION

DURING MASTER DATA UPLOAD PROCESS

XML STRUCTURE

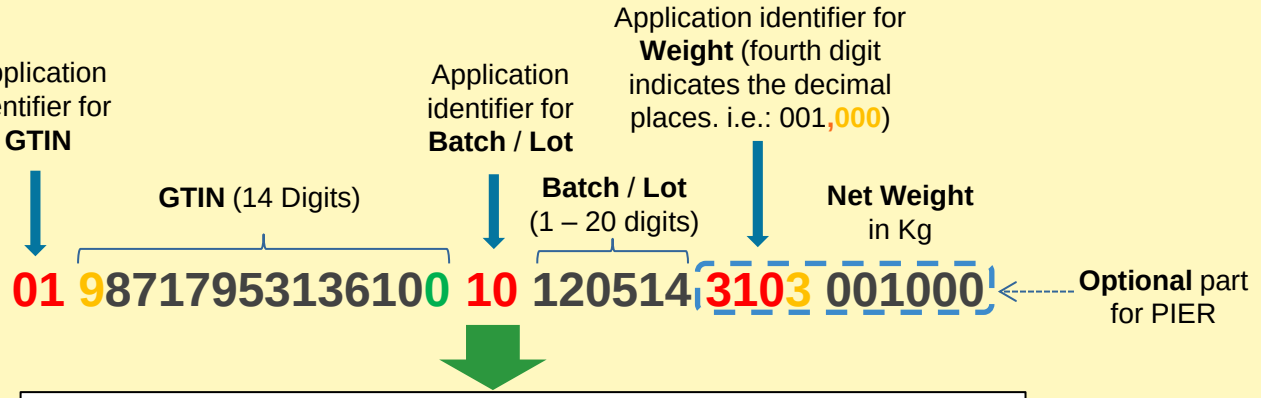
THE EPC GLOBAL STANDARD

FOR SUPPLIERS WITH:

- **HIGH AMOUNT** OF DATA
- **IT CAPABILITIES** ONSITE (DEPARTMENT & EMPLOYEES)
- CAPABLE **TO IMPLEMENT THE LOGIC** TO CREATE AND SUBMIT XML FILES TO PIER

USAGE 3: CHECK YOUR LABELING

KEY POINTS of GS1-128 BARCODE



GS1-128 code: 01987179531361001012051431030010 00

GS1-128 Barcode:

List of all application identifiers
https://www.gs1.org/standards/barcodes/application-identifiers

Note: In some examples the application identifier are written with spaces or in brackets, this is just for readability and shall not be encoded into the barcode:

✓ 010871 ✗ (01) 0871

YOUR ON-BOARDING JOURNEY

PREPARATION

- ☑ GET THE TRAINING
- ☑ CHOOSE AN OPTION FOR DATA UPLOADING
- 3. REQUEST FOR GLN & GTINS FROM YOUR LOCAL GS1
- 4. CREATION AND ASSIGNING OF GTIN 14

ON-BOARDING BOOTCAMP

- 1. VALIDATION OF MASTER DATA
- 2. PIER LOGIN CREDENTIALIALS WILL BE SENT TO YOU

USAGE

- 1. LOG INTO PIER
- 2. SUBMIT YOUR TRACEABILITY DATA
- 3. CHECK YOUR LABELING

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TUTORIALS & TIMELINE

Welcome to PRO TRACE!

Get on board with METRO

About | Tutorials | Guides | Templates | On-boarding ste

What means PRO TRACE?

- **PRO** like "product": Using PRO TRACE you get more information about a proc take to the store, get your questions answered.
- **PRO** like "professional" as our professional customers and the professional qu
- **PRO** means "for": METRO commits proactive for traceability and transparency
- **TRACE** is the benefit, it is about: traceability of products for every customer, e

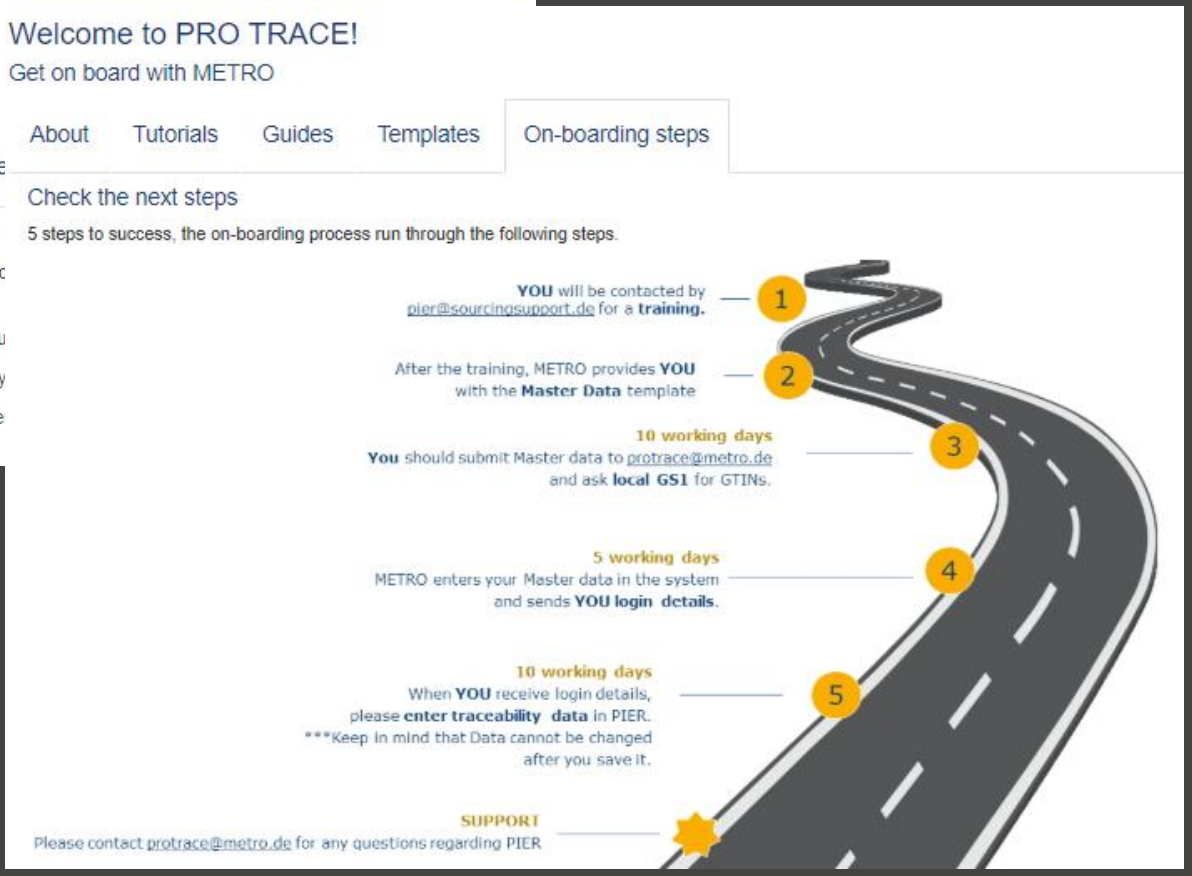
Welcome to PRO TRACE!

Get on board with METRO

About | Tutorials | Guides | Templates | On-boarding steps

Check the next steps

5 steps to success, the on-boarding process run through the following steps.



METRO
YOUR SUCCESS IS OUR BUSINESS

BUSINESS OWNER:

CORPORATE RESPONSIBILITY

Britta Gallus

britta.gallus@metro.de

FIRST LEVEL SUPPORT

OFFER SOLUTION SERVICES

pier@sourcingsupport.de

eLearnings & “HOW TOs”

https://suppliers.sourcingsupport.metro.de/support/solutions/15000003769

PRODUCT OWNERs:

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MIKAEL KHALIKIAN

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CTO

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