



Aquaculture Farm Management with Microsoft Business Central 365



This presentation outlines the functional scope of Navisoft Tunisia's aquaculture farm management solution **NaviFish**, built on Microsoft Business Central 365. Authored by Navisoft Tunisia, this version 2.0 update from November 2025 details a comprehensive system for fish farmers.

The solution covers the entire aquaculture process, from Alevins (Sea Bream, Sea Bass) seeding in cages to fish sales, providing a wide functional perimeter for efficient farm operations.

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Introduction to Aquaculture Management

This document details the functional scope of our aquaculture farm management solution **NaviFish**, built on Microsoft Business Central 365. Designed for sea cage fish farmers, it covers the entire process from Alevins (Sea Bream, Sea Bass) seeding to fish sales.

The solution is fully integrated with Microsoft Business Central 365 ERP, including inventory, sales, and purchase modules, ensuring compatibility with Microsoft Office Tools (Excel, Word, Outlook).

It digitally records daily actions like feeding, treatment, mortality, and fishing, as well as periodic actions such as sampling, Transfer, adjustment and cage emptying. The system offers a user-friendly interface for data analysis and traceability, integrating seamlessly with various modules and Microsoft Office tools.

Accessible via Web Client on PC, Android smartphones, or tablets, it enables real-time data entry and transaction posting, supporting all business levels: production, trade, supply, stocks, accounting, and human resources.



Key Terminology & Zootechnical Formulas

Terminology

- **Population (Number):** Individuals per cage (pieces).
- **AW:** Average weight of an individual (grams).
- **BIOM:** Biomass of a population (Kilograms).
- **Δ AW:** Initial & Final average weight change.
- **Δ BIOM:** Initial & Final biomass variation.
- **I.C:** Food Conversion Index.
- **Age:** Lot age since seeding date.
- **LOT:** Population identifier from seeding to fishing.
- **RR:** Rationing rate (%).
- **GR:** Growth rate (%).
- **DMR:** Daily mortality rates (%).



Zootechnical Formulas

Formulas for In-Progress Cages

- Population (Number): Initial - Mortality + Transfers (+/-) + Regulation (+)
- AW: Last sampling Average Weight
- BIOM: Number * AW (last sampling) / 1000
- I.C.: $\sum \text{Food consumed} / (\Delta \text{BIOM} - \text{Mortality BIOM} - \text{BIOM Trans (+)})$
- Ration Rate: $\sum \text{Food consumed} / \text{average (BIOM)} * 100 / \Delta T$
- Growth Rate: $\Delta \text{AW} * 100 / \text{AWt} - 1$
- Daily Mortality Rate: Dead fish / Total numbers * 100

Formulas for an Empty Cage:

- Population (Number): Initial number - mortality + Trans (+) - Trans (-) - Fishing + Regulation (+)
- AW: Fishing Average Weight
- BIOM: Number Fished * AW (Fishing) / 1000
- I.C.: $\sum \text{Food consumed} / (\Delta \text{BIOM} + \text{BIOM mortality} + \text{BIOM Trans (+)})$
- Ration Rate: $\sum \text{Food consumed} / \text{average (BIOM)} * 100 / \Delta T$
- Growth Rate: $\Delta (\text{AW fishing} - \text{AWi}) * 100 / \text{AW of the last sampling}$
- Mortality Rate: \sum of the mortality rates of the period.

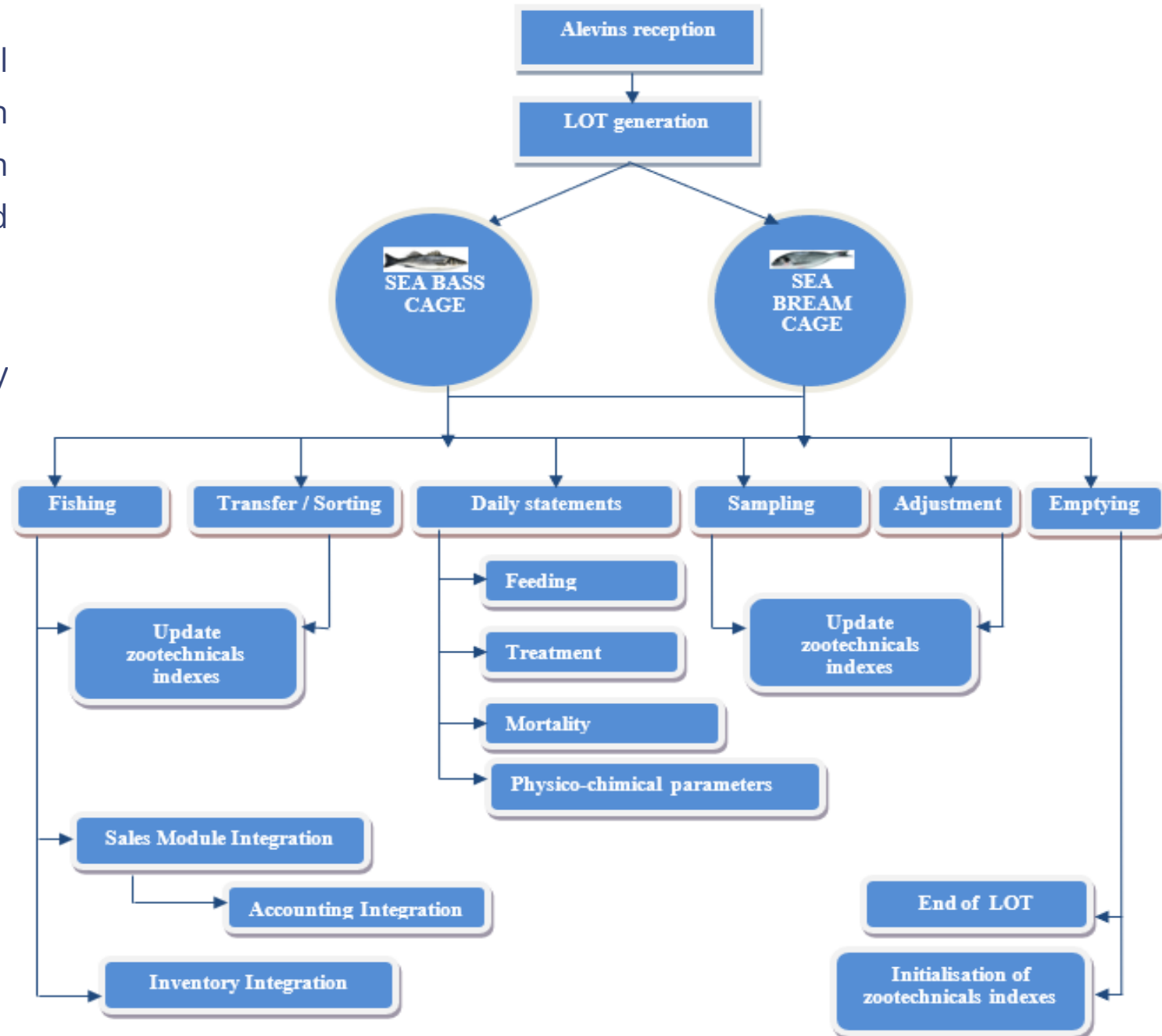
These formulas provide critical insights into the performance of each cage and the overall farm, allowing for precise management and decision-making.



Fish Farming Business Process

The fish farming business process involves several key stages, from initial seeding to final fishing. Each stage is meticulously managed and tracked within the system to ensure optimal growth and efficiency.

The business process in a macroscopic way presentation is as follows:

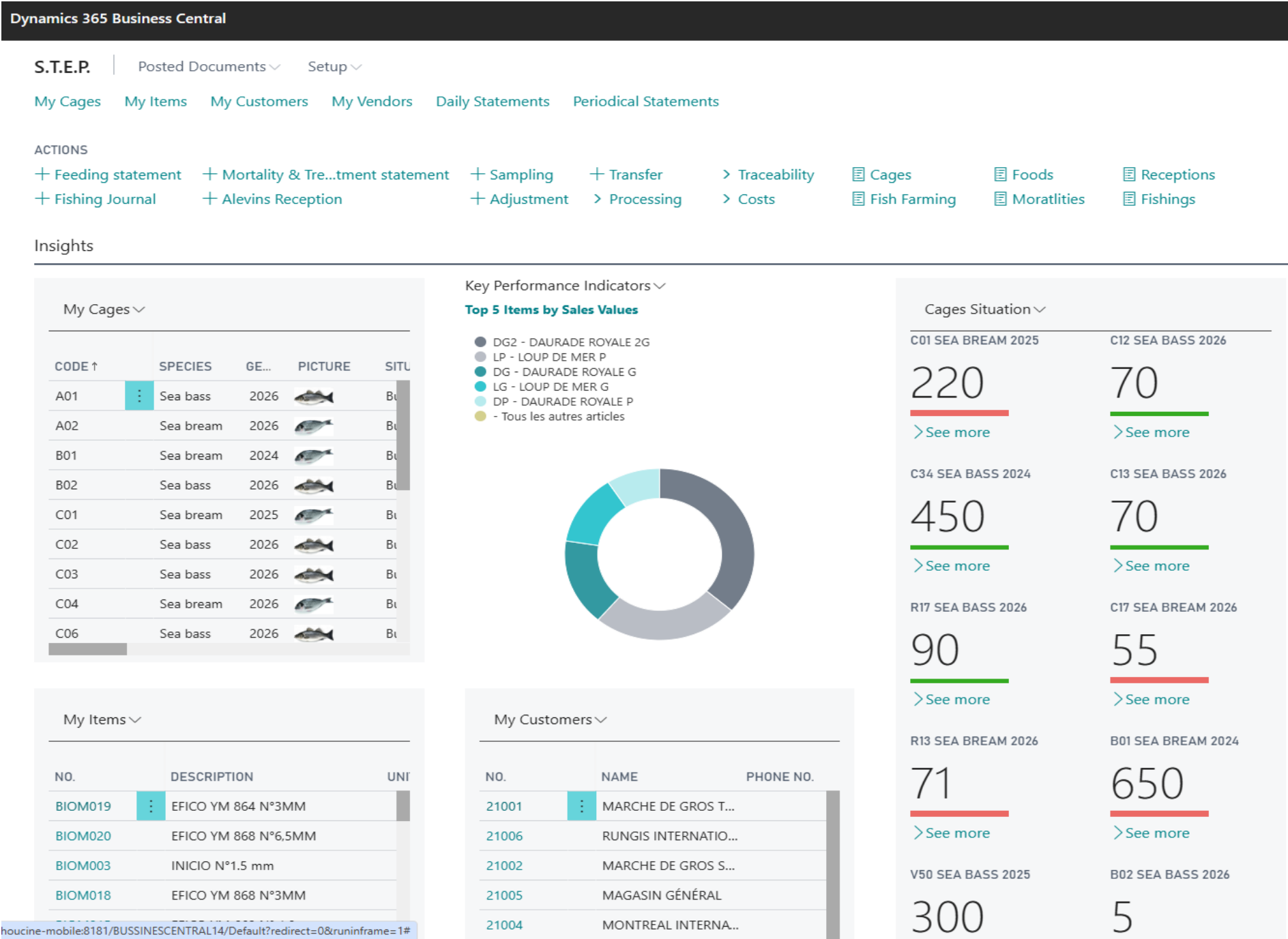


Solution Interface: Cage Management Dashboard

The main Role Center of NaviFish in Microsoft Business Central 365 provides a comprehensive dashboard for cage managers. This customizable interface displays essential data at a glance, including cage codes, species, generation, lot numbers, stock, Average weight (AW), Biomass (BIOM), and Conversion Index (IC).

We can see also, Items Feed and cages with real situation.

The system's ribbon offers quick access to daily and periodic operations such as fishing, feeding, mortality, sampling, and transfers. A reporting component allows for continuous monitoring of Fish-Farming cycles and growth phases.



Cage card:

Detailed information is available through individual cage cards, which include general, specifications and historical data. An overview chart visualizes cage performance, and users can print filtered reports based on species, generation, and cage situation (Empty, Full, Made empty).

←

CAGE CARD

✎

+

🗑

↗

C20 · Sea bass · 2024

Process

Report

Show Attached

Actions

Fewer options

General

Show more

GENERAL

Code

C20

Production Phase

Magnification

Species

Sea bass

Generation

2024

Lot No.

051124ATULR10-B03-C20

Situation

Busy

Age

1,21 Year

Origin

Origin species

TN

BIOMAR

L'AQUACULTURE TUNISIENNE

Avail. stock %

74%

STOCK

4216

Initial stock

-1100

Fishing Cumulation

-5

Mortalities Cumulation

3 111

Available Stock

ACTUALS

3 111

Population

500

Average weight

1555,5

Biomass

📊

2,6

Conversion index

PREVIOUS

3 211

Previous Population

500

Previous Average weight

1606

Previous Biomass

📊

2,56

Previous conversion index

THEORETICAL

0

Theoretical Average Weight

700

0

📊

2

Conversion index Theo.

Specifications >

History

Show less

Creation date

01/01/2017

Last treatment date

05/11/2024

Seeding date

05/11/2024

Last Biomass update


22/01/2026


Date cage installation

Last fishing date

22/01/2026

Picture





051124ATULR10-B03-C20

Cage statistics

F00DS

Food Qty.

9525

Feeding days

84

BIOMASS

Biomass Fishing

-550000

Biomass Mortality

2,5

Biomass Transfer

2 108

Notes +

(There is nothing to show in this view)

Links +

Cages situation:

Overview chart of the cages,

Ability to print the cages with the desired filters, Specie, Generation, and Situation (Empty, Full, Made empty) ...

S.T.E.P.

Graphic cages situation

24/11/2025 10:21

Page 1

HOUCINE-MOBILE\HOUCINE

0 A01 → Empty	0 A02 → Empty	79 973 C01 → > Sea bream- 2025 Age : 69 Days	0 C02 → Empty	0 C03 → Empty	0 C04 → Empty	0 C06 → Empty	0 C12 → Empty	0 C13 → Empty	0 C14 → Empty	0 C15 → Empty	0 C16 → Empty	552 C17 → Sea bass-2019 Age : 6,76 Year
0 C18 → Empty	0 C20 → Empty	0 C34 → Empty	0 R01 → Empty	74 804 R10 → > Sea bass- 2024 Age : 1,05 Year	49 998 R13 → > Sea bream- 2026 Age : 50 Days	77 880 R15 → > Sea bream- 2024 Age : 1,05 Year	49 995 R17 → > Sea bass- 2026 Age : 50 Days	0 R20 → Empty	0 R21 → Empty	0 S01 → Empty	41 T01 → Sea bream- 2019 Age : 9,63 Year	0 TEST → Empty
3 542 U01 → Sea bass-2019 Age : 9,63 Year	49 980 V50 → > Sea bass- 2025 Age : 69 Days	0 W10 → Emptying	2 398 X10 → Sea bream- 2019 Age : 9 Days	0 Y10 → Empty	0 Z10 → Empty	0 Z98 → Empty	0 Z99 → Empty					



GRAPHIC CAGES SITUATION

✓ SAVED



Daily & Periodical Statements

Daily Statements

Daily statements cover essential actions like feeding, mortality collection, treatment application, and fishing. The system simplifies data processing for these routine tasks.

Feeding:

Users select cages to feed, and the system automatically calculates the rationing rate based on an integrated matrix. It suggests theoretical rations and appropriate food from available stock. Posting feeding data automatically deducts quantities from inventory.

FOODING HEADER

✓ SAVED

Fooding · REE25/0020 · 21/11/2025

Suggest cages...

Calculate Rations...

Fill in Food Qty...

Release

Reopen

Post...

Post and Print...

Show Attached

More options

General

Show more

No.

REE25/0020

...

Oxygen

6

Document Date

21/11/2025

Operator

HOUCINE-MOBILE\HOUCINE

Temperature

20

Status

Open

Feeding Line Subform

Manage


CAGE CODE	GENERA...	SPECIES	LOT NO.	FOOD VENDOR	BIOMASS	RATIONING %	OPERATOR CODE	OPERAT... NAME	FOOD 1	LABEL FOOD
C01		2025	Sea bream	311025ATU...	BIOMAR	4798.38	1.84			BIOM019 EFICO YM 8€
C17		2019	Sea bass	200219ATU...	BIOMAR	149.04	1.2			BIOM014 EFICO YM 8€
R10		2024	Sea bass	051124ATU...	BIOMAR	22441.2	1.1			BIOM020 EFICO YM 8€
R13		2026	Sea bream	191125ATU...	BIOMAR	1499.94	2.1			BIOM026 EFICO PLUS :
R15		2024	Sea bream	051124ATU...	BIOMAR	24921.6	1			BIOM017 EFICO YM 8€
R17		2026	Sea bass	191125ATU...	BIOMAR	1249.88	2.02			BIOM018 EFICO YM 8€
T01		2019	Sea bream	200219ATU...	BIOMAR	11.07	1			BIOM017 EFICO YM 8€
U01		2019	Sea bass	260219ATU...	BIOMAR	991.76	1.2			BIOM014 EFICO YM 8€
V50		2025	Sea bass	311025ATU...	BIOMAR	3998.4	1.63			BIOM014 EFICO YM 8€
X10		2019	Sea bream	260219ATU...	BIOMAR	767.36	1			BIOM017 EFICO YM 8€

Notes +

(There is nothing to show in this view)

Line Details FactBox

CAGE



Number

552

Biomass

149.04

Average weight

270

Delta-Biomass

-1.89

conversion index

3.79

Periodical Statements

Periodic statements manage manipulations like sampling, cage emptying, maintenance, transfers, and Alevin’s reception.

Alevin’s Reception:

This marks the start of the Fish-Farming process, assigning a batch number to the population. Posting Alevin’s reception updates cage cards with initial zootechnical indexes (AW, BIOM, IC) and tracks age, stock, food consumption, and cumulative mortality.

FRY RECEPTION HEADER

✓ SAVED

Fry Reception · REC-25/003 · 21/11/2025

Generate Lot No.

Release

Reopen

Post...

Post and Print...

Show Attached

More options

General

No.

REC-25/003

...

Transport nomenclature

Document Date

21/11/2025

Provenance cage type

Fry vendor

100500

Provenance cage

Fry vendor name

L'AQUACULTURE TUNISIENNE

Operator

HOUCINE-MOBILE\HOUCINE

Transport way

Boat

Status

Open

Transport Ref.

B-ATU-1523

Reception Line SubPage

Manage


CAGE CODE	SPECIES	GENERATI...	CYCLE	LOT NO.	QUANTITY	AVERAGE WEIGHT	BIOMASS	AGE INSEMINATION (D)	UNIT COST (FRY)
A01	Sea bass	2026	01	211125AT...	25 000	25	625	45	1.000
A02	Sea bream	2026	01	211125AT...	30 000	30	900	45	0.850

Notes +

(There is nothing to show in this view)

Line Details FactBox

CAGE



Number

0

Biomass

0

Average weight

0

Delta-Biomass

0

conversion index

0.00

Mortality:

Users input cage mortality quantities and temperatures. A type of skimming (mortality reason) can be specified for each line, such as detected pathology. Posting mortality automatically updates the number of fish on the cage card, while preserving previous zootechnical values.

MORTALITIES HEADER

✓ SAVED

Mortality Treatment & Maintenance · REE25/0021 · 21/11/2025

Suggest cages...ReleaseReopenPost...Post and Print...Show AttachedMore options

General

Show more

No.REE25/0021...OperatorHOUCINE-MOBILE\HOUCINE

Document Date21/11/2025Total died0

Temperature18.0StatusOpen

Oxygen6

Mortalities Line SubPageManage


CAGE CODE	LOT NO.	NOTE	QTY. MORTALITY 1	QTY. MORTALITY 2	TOTAL QTY. MORTALITY	SKIMMING 1	QTY. SKIMMING 1	SKIMMING 2	QTY. SKIMMING 2	REMAR
C01	311025ATU...		1		1					
C17	200219ATU...			2	2					
R10	051124ATU...		5	1	6		1			
R13	191125ATU...				0					
R15	051124ATU...		3	4	7		2			
R17	191125ATU...			1	1					
T01	200219ATU...		1	2	3					
U01	260219ATU...				0					
V50	311025ATU...		4	2	6		1			
X10	260219ATU...		1		1					

Notes +

(There is nothing to show in this view)

Line Details FactBox

CAGE



Number79973
Biomass4798.38
Average weight60
Delta-Biomass-0.48
conversion index0.20

Sampling:

Sampling is crucial for determining the average weight of cages. The new average weight replaces the old one on the cage card after posting, with previous values saved for historical tracking.

SAMPLING HEADER

✓ SAVED

Sampling · ECH-25/003 · 21/11/2025

ReleaseReopenPost...Post and Print...Show AttachedMore options

General

No.ECH-25/003...Oxygen6

Document Date21/11/2025OperatorHOUCINE-MOBILE\HOUCINE

Temperature17StatusOpen

Sampling Line SubPageManage


CAGE CODE	SPECIES	GENERA...	LOT NO.	NEW AVERAGE WEIGHT	QUANTITY	DISPERSION RATE	GROWTH RATE	GROWTH SPEED	REMARKES
C17	Sea bass	2019	200219ATU...	300	100	0	0	0	
T01	Sea bream	2019	200219ATU...	300	100	0	0	0	
U01	Sea bass	2019	260219ATU...	310	100	0	0	0	
X10	Sea bream	2019	260219ATU...	350	100	0	0	0	

Notes +

(There is nothing to show in this view)

Line Details FactBox

CAGE



Number552
Biomass149.04
Average weight270
Delta-Biomass-1.89
conversion index3.79

NAVISOFT
TUNISIE
Your Business Partner

Fishing:

Fishing Entries are based on Biomass fished and the Average weight of the population. The system detects the quantity in kilograms and the appropriate item No. for commercial sales, updating product stock for delivery.

FISHING JOURNAL LINE

✓ SAVED

Batch NameALIMSTK

ManageProcessFunctionsLineOpen in Excel

ActionsNavigateFewer options

PostPost and PrintLabel

ENTRY TYPE	POSTING DATE	CAGE CODE	SPECIES	GENERA...	N° DE LOT	CUSTOMER NO.	CUSTOMER NAME	POIDS MOYEN	BIOMASSE	NOMBRE	QUANTITY	UNIT OF MEASURE CODE	ITEM NO.	DESCRIPTION
Fishing	21/11/2025	U01	Sea bass	2019	260219AT...	21004	MONTREAL INTERNATION...	300	30000	100	30	KG	LP	LOUP DE MER P
Fishing	21/11/2025	X10	Sea bream	2019	260219AT...	21004	MONTREAL INTERNATION...	330	33000	100	33	KG	DM	DAURADE ROYALI
Fishing	21/11/2025	C17	Sea bass	2019	200219AT...	21004	MONTREAL INTERNATION...	250	10000	40	10	KG	LP	LOUP DE MER P

Emptying:

Emptying cages initializes all cage values, marking the end of a fish population lot or a production cycle. This function is accessible from the home ribbon and resets all values, indicating an empty cage status.

EDIT - EMPTYING CAGES

Cage code

T01

Species

Sea bream

Generation

2019

Emptying date

21/11/2025

Emptying reason

Tail of Lot

Emptying Description

Tailed Lot

Warning: Starting this treatment will reset the cage !

Schedule...

OK

Cancel

Maintenance:

Maintenance tracking records all actions performed on cages and nets, enabling traceability of interventions and planning for future actions like net changes or cleaning.

Mortality Treatment & Maintenance · REE25/0021 · 21/11/2025

Suggest cages...

Release

Reopen

Post...

Post and Print...

Show Attached

More options

R15

R15

R17

T01

U01

V50

X10

Maintenace Line SubPage

Manage

CAGE CODE	SPECIES ▼	GENERATION	LOT NO.	INTERVENTION TYPE	INTERVENTION DESCRIPTION
C01	Sea bream	2025	311025ATUDC01	Miscellaneous	repair stitches

Notes +

(There is nothing to show in this view)

Line Details FactBox

CAGE



Number79973



Total Integration & Sales Business Process

The Cage Management Module is fully integrated with Microsoft Business Central 365's core ERP, including Inventory, Sales, Purchases, and the General Ledger. This ensures seamless data flow and comprehensive financial tracking.

Grafted to the core of the ERP, cages Management Module is totally integrated to Inventory, Sales, Purchases and therefore to the General Ledger.

By using a fooding statement, we can see the interaction with stocks following the Posting of consumption of foods.

S.T.E.P. | Posted Documents

Posted Feeding Statements: All

NO.	STATEMENT
REE+25/0070	Fooding
REE+25/0069	Fooding
REE+25/0068	Fooding
REE+25/0067	Fooding
REE+25/0066	Fooding
REE+25/0065	Fooding
REE+25/0064	Fooding

NAVIGATE

DOCUMENT

Document No. REE+25/0070 Posting Date 24/12/25

Show Related Entries Find Print... Open in Excel More options

RELATED ENTRIES	NO. OF ENTRIES
Item Ledger Entry	20
Value Entry	20
Cage Ledger Entries	20

Sales Business Process

The sales module interacts directly with the technical fish farming module, ensuring complete traceability. For each customer and delivery, the system identifies the specific Lot No. of fish delivered, enabling backward and forward traceability for claims or incidents.



Local Sales

Invoicing processes are streamlined, with automatic stock adjustments and accounting entries upon posting. Final invoices and delivery documents can be generated.

SALES INVOICE

+

✓ SAVED

VF-25/0006 · MAGASIN GÉNÉRAL

Process Posting Prepare Invoice Release Request Approval Navigate Show Attached Actions Navigate Fewer options

General

Show more

Customer Name

MAGASIN GÉNÉRAL

Posting Date

21/11/2025

Contact

Due Date

21/11/2025

Accompanying voucher No.

*

Check / Draft

*

Stamp Fiscal

Bank

*

Lignes

Manage

More options

TYPE	NO.	CROSS-REFERENCE NO.	BAR CODE FONT	DESCRIPTION	LOCATION CODE	QUANTITY	CAGE CODE	PACKAGE CODE	PACKAGE NUMBER	GROSS WEIGHT PACK.	NET WEIGHT PACK.	UNIT OF MEASUR CODE
Item	DM	2D00632525T01		DAURADE ROVALE M	MPF	25	T01	C05	5	31.9	5	KG
Item	LP2	2L00632525C17		LOUP DE MER 2P	MPF	3.6	C17	C04	0.9	4.32	4	KG
				+								
				+								
				+								

Subtotal Excl. VAT (TND)

214.600

Total Excl. VAT (TND)

214.600

Incl. Discount Amount Excl. VAT (TND)

0.000

Total VAT (TND)

40.774

Invoice Discount %

0

Total Incl. VAT (TND)

255.374



Export Sales

Export sales are managed in foreign currencies, with automatic exchange rate conversions. The system generates barcodes per parcel and packing lists. Invoices are accounted for in the foreign currency and converted to local currency for accounting purposes.

SALES INVOICE

+

✓ SAVED

VF-25/0007 · MONTREAL INTERNATIONAL FISH

Process Posting Prepare Invoice Release Request Approval Navigate Show Attached Actions Navigate Fewer options

General

Show more

Customer Name

MONTREAL INTERNATIONAL FISH

Posting Date

21/11/2025

Contact

Due Date

21/11/2025

Accompanying voucher No.

*

Check / Draft

*

Stamp Fiscal

Bank

*

Lignes

Manage

More options

TYPE	NO.	CROSS-REFERENCE NO.	BAR CODE FONT	DESCRIPTION	LOCATION CODE	QUANTITY	CAGE CODE	PACKAGE CODE	PACKAGE NUMBER	GROSS WEIGHT PACK.	NET WEIGHT PACK.	UNIT OF MEASUR CODE
Item	LP	1L00732525C17		LOUP DE MER P	MPF	30	C17	C10	5	61	10	KG
Item	DM	1D00732525X10		DAURADE ROVALE M	MPF	60	X10	C10	6	73.2	10	KG
				+								



Wholesale Market

A specialized process for the Tunisian wholesale market handles orders, shipments, payments, and invoicing. Wholesale market fees are automatically applied, and payment methods are managed according to customer settings. Credit sales are also supported.

SALES INVOICE

+

✓ SAVED

VF-25/0005 · MARCHE DE GROS TUNIS

Process Posting Prepare Invoice Release Request Approval Navigate Show Attached Actions Navigate Fewer options

General

Show more

Customer Name

MARCHE DE GROS TUNIS

Stamp Fiscal

Contact

Mandataire - Ste Trabelsi & Fils

Posting Date

21/11/2025

Accompanying voucher No.

V25-125879

Due Date

21/11/2025

Lignes

Manage

More options

TYPE	NO.	CROSS-REFERENCE NO.	BAR CODE FONT	DESCRIPTION	LOCATION CODE	QUANTITY	CAGE CODE	PACKAGE CODE	PACKAGE NUMBER	GROSS WEIGHT PACK.	NET WEIGHT PACK.	UNIT OF MEASUR CODE
Item	DG	2D00632525X10		DAURADE ROVALE G	MPF	50	X10	C10	5	61	10	KG
Charge (Item)	MGCOM			Commission Vendeur	MPF	-1			0	0	0	
Charge (Item)	MGMANU			Manutention et Tri	MPF	-1			0	0	0	
Charge (Item)	MGREDEV			Redevance SOTUMAG	MPF	-1			0	0	0	
Charge (Item)	MGTBM			Taxe Repos BioMer	MPF	-1			0	0	0	

Barcode management for each package is supported for both export and local sales. The system also handles specific requirements for wholesale markets, including cost generation per billing and automatic packing list management.

Dynamics 365 Business Central

S.T.E.P. | Posted Documents

Posted Sales Invoices:

Search

Delete

Process

Invoice

Navigate

Correct

Print/Send

NO. ↑	CUSTOMER NO.	CUSTOMER		UNT	AMOUNT INCLUDING VAT
VF+25/001	21005	MAGASIN GÉNÉRAL	17/11/2025	6 001,000	7 141,000
VF+25/002	21001	MARCHE DE GROS TUNIS	14/11/2025	2 414,800	2 927,800
VF+25/003	21003	HOTEL RUSPINA ****	15/11/2025	1 501,000	1 786,000
VF+25/004	21004	MONTREAL INTERNATIONAL F... CAD	14/11/2025	1 500,00	1 500,00
VF+25/005	21005	MAGASIN GÉNÉRAL	17/11/2025	601,000	715,000

1D02902126B01

600g - 800g

10

21/01/2026

21/01/2026

MONTREAL
INTERNATIONAL
FISH



DLC / use by :

31/01/2026

Supply Process & Rearing Cost

The supply process integrates purchases of Alevins, food, treatments, cages, and nets. Food procurement is the most frequent transaction, managed through a two-step process: reception and billing.

Food stock is automatically adjusted upon validation of receipt. Invoices are recorded in the vendor's currency and converted to local currency for the General Ledger.

Fish-Farming Cost (Production)

A key feature for farmers is the detailed costing of their lots, available with a single click. This includes costs for Alevin’s reception, consumed food and treatments, acquisition of cages and nets, personnel, and various other expenses.

The system calculates unit costs per kilogram and per piece for each production lot and cage, providing comprehensive financial insights.

←

PRODUCTION COSTS

↗

CAGE CODE ↑	SPECIES	GENERA...	LOT NO. ↑	PRODUCTION	ALEVINS COST (LCY)	FEEDING COST	TREATMENT COST	CAGE & NET COST (LCY)	STAFF COST (LCY)	VARIOUS COST (LCY)	TOTAL PRODUCTION COST (LCY)	UNIT COST (LCY) (PIECE)	UNIT (LCY)
A01	Sea bass	2026	211125ATULA01	24905	25 000,000	3 636,635	1 501,855	0,000	0,000	0,000	30 138,490	1,210	
A02	Sea bream	2026	211125ATUDA02	29925	25 500,000	5 295,755	766,855	0,000	0,000	0,000	31 562,610	1,055	
B01	Sea bream	2024	051124ATUDR15-B0...	26269	76 000,000	325,670	0,000	0,000	0,000	0,000	76 325,670	2,906	
B01	Sea bass	2026	150126ATULB01	24950	12 500,000	237,400	0,000	0,000	0,000	0,000	12 737,400	0,511	
B02	Sea bream	2024	051124ATUDR15-B02	27379	76 000,000	7 625,170	1 102,500	0,000	0,000	0,000	84 727,670	3,095	
B02	Sea bass	2026	220126ATULB02	52000	26 000,000	59,350	0,000	0,000	0,000	0,000	26 059,350	0,501	
B03	Sea bass	2024	051124ATULR10-B03	4216	75 000,000	2 504,570	1 470,000	0,000	0,000	0,000	78 974,570	18,732	
C01	Sea bream	2025	311025ATUDC01	79738	48 000,000	17 354,735	1 134,355	0,000	0,000	0,000	66 489,090	0,834	
C02	Sea bass	2026	011225ATULC02	14964	15 000,000	2 797,885	735,000	0,000	0,000	0,000	18 532,885	1,238	
C03	Sea bass	2026	081225ATULC03	24981	25 000,000	3 023,020	0,000	0,000	0,000	0,000	28 023,020	1,122	
C04	Sea bream	2026	081225ATUDC04	29957	27 000,000	3 229,305	0,000	0,000	0,000	0,000	30 229,305	1,009	
C04	Sea bass	2015	150715ATULC4	241289	169 157,800	63 017,928	76,565	0,000	0,000	0,000	232 252,293	0,963	
C06	Sea bass	2026	081225ATULC06	27988	28 000,000	3 011,150	0,000	0,000	0,000	0,000	31 011,150	1,108	
C06	Sea bass	2015	250715ATULC6	220054	154 280,000	36 075,984	76,565	0,000	0,000	0,000	190 432,549	0,865	
C12	Sea bass	2026	081225ATULC12	27984	28 000,000	3 011,150	0,000	0,000	0,000	0,000	31 011,150	1,108	
C13	Sea bass	2026	081225ATULC13	27979	28 000,000	3 011,150	735,000	0,000	0,000	0,000	31 746,150	1,135	
C14	Sea bass	2026	081225ATULC14	19974	20 000,000	3 011,150	1 102,500	0,000	0,000	0,000	24 113,650	1,207	
C15	Sea bream	2026	081225ATUDC15	30995	24 800,000	3 028,230	0,000	0,000	0,000	0,000	27 828,230	0,898	
C16	Sea bream	2026	081225ATUDC16	30982	24 800,000	3 028,230	1 102,500	0,000	0,000	0,000	28 930,730	0,934	
C17	Sea bream	2026	081225ATUDC17	26982	21 600,000	3 028,230	735,000	0,000	0,000	0,000	25 363,230	0,940	
C18	Sea bass	2015	090715ATULC18	248654	174 198,500	46 076,657	76,565	0,000	0,000	0,000	220 351,722	0,886	
C20	Sea bream	2015	020815ATUDC20	265637	186 020,800	50 928,231	76,565	0,000	0,000	0,000	237 025,596	0,892	
C20	Sea bass	2024	051124ATULR10-B0...	3111	75 000,000	118,700	0,000	0,000	0,000	0,000	75 118,700	24,146	
C34	Sea bream	2015	020815ATUDC34	263036	184 193,100	1 123,000	0,000	0,000	0,000	0,000	185 316,100	0,705	

Reporting

The reporting module offers relevant follow-up and performance indicators. Reports such as Alevins Reception, Cage Card, Cages State, and evolution charts for Average Weight, Biomass, and Growth are available.

All reports are exportable to PDF, Excel, and Word, facilitating easy sharing and analysis. Dashboards, configurable by the user, provide real-time insights into key performance metrics.

Biomass Evolution

25/12/24..29/11/25

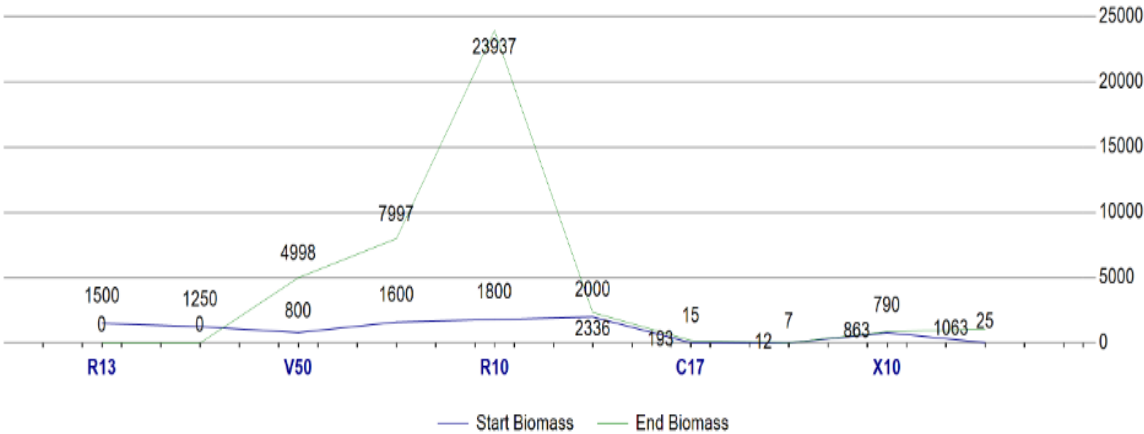
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Page 2

HOUCINE-MOBILE

Average °C																	0		RODINE-RIGIBIL 14/11/21									
Init. Lot			Pos.	Init. date	Code	Start period		End period		Delta Biomass	Delta Biomass	Foods Qty.	Theo. Foods Qty.	Biomass Mortalities	Sales Biomass	Bio. I.C	Eco. I.C	Operator										
Biomass						A.W	Biomass	A.W																				
Sea bream	26			19/11/2025	R13	1500	30	0	0	-1500	-30	100	100	0	0	0,07	0,07											
				Total Cycle :		2750	6	0	0	-2750	-6	200	200	0	0	0,02	0,02											

Total Génération : 2026	2750	0	-2750	200	200	0	0	0,02	0,02
Total (9)	2750	0	-2750	200	200	0	0	0,02	0,02
Total MAGNIFICATION	9787	41399	31612	8700	8700	57	912550		



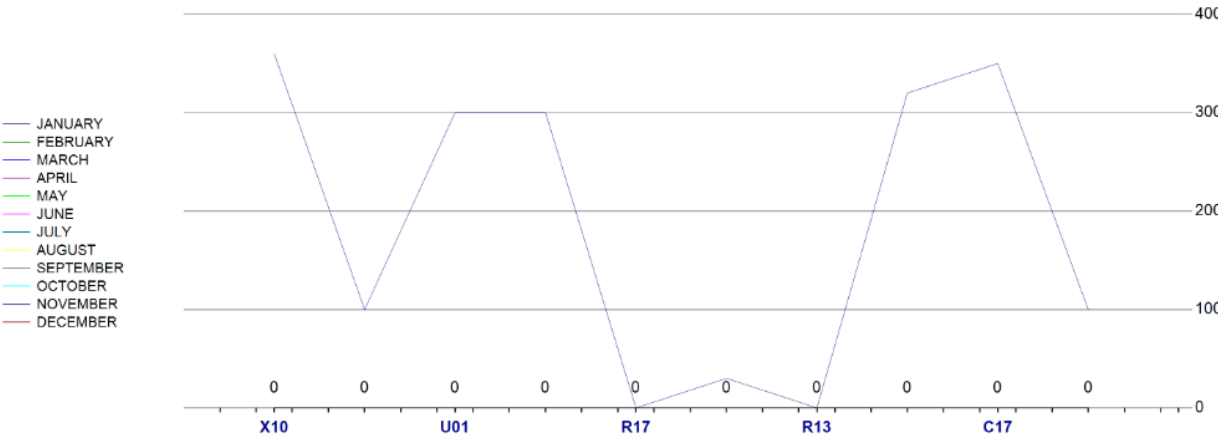
AVERAGE WEIGHT EVOLUTION

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HOUCINE-MOBILE

	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
Cage	AW	Number	AW	Number	AW	Number	AW	Number	AW	Number	AW	Number	AW	Number	AW	Number	AW	Number	AW	Number	AW	Number	AW	Number
X10																					360	2398		
V50																					100	49980		
U01																					300	3542		
T01																					300	41		
R17																								
R15																								
R13																					30	77880		
R10																					320	74804		
C17																					350	552		
C01																					100	79973		



The Traceability Report by cage and by Lot number is to edit summary of Fish-Farming in terms of traceability of origin, feeding and treatment.

Traceability is a population, with mortality data, production, sale, feeding, treatment, and movements.

In addition to the report, a historical Lot No. is now available, to mark the date of seeding and recapitulate feeding, mortality, fishing by cage and Lot No.

Status of the cage shows if the lot has been finished and on what date.

←

LOTS HISTORY

→


Manage

Open in Excel

🔍

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CAGE CODE	LOT NO.	SPECIES	GENERATION	STATUS	CUMULATION FISHES	CUMULATION MORTALITIES	FOOD QTY.	SEEDING DATE	EMPTYING DATE
C01	210417ATULC01	Sea bass	2017	Refined	0	-22	375	21/04/2017	31/12/2024
C01	311025ATUDC01	Sea bream	2025	In progress	0	-27	925	31/10/2025	—
C02	210417ATUDC02	Sea bream	2017	Refined	0	-33	375	21/04/2017	—
C03	260417ATULC03	Sea bass	2017	Refined	0	-76	925	26/04/2017	—
C04	150715ATULC4	Sea bass	2015	Refined	0	-365	26 845	08/03/2016	—
C06	250715ATULC6	Sea bass	2015	Refined	0	-346	15 210	08/03/2016	—
C12	260417ATUDC12	Sea bream	2017	Refined	0	-20	1 150	26/04/2017	—
C17	200219ATULC17	Sea bass	2019	In progress	-1 405	-43	600	20/02/2019	—
C18	090715ATULC18	Sea bass	2015	Refined	0	-201	19 425	08/03/2016	—
C20	020815ATUDC20	Sea bream	2015	Refined	0	-107	22 675	08/03/2016	—
C34	020815ATUDC34	Sea bream	2015	Refined	0	-97	3 945	08/03/2016	08/04/2016
C34	270416ATULC34	Sea bass	2016	Refined	0	-89	1 955	27/04/2016	—
R01	030715ATUDR1	Sea bream	2015	Refined	0	-274	30 508	08/03/2016	—
R10	051124ATULR10	Sea bass	2024	In progress	-65	-131	4 445	05/11/2024	—
R13	110815ATUDR13	Sea bream	2015	In progress	0	-155	22 740	08/03/2016	—
R13	191125ATUDR13	Sea bream	2026	In progress	0	-2	100	19/11/2025	—
R15	051124ATUDR15	Sea bream	2024	In progress	-2 065	-55	4 205	05/11/2024	—
R17	180815ATUDR17	Sea bream	2015	In progress	0	-145	17 665	08/03/2016	—
R17	191125ATULR17	Sea bass	2026	In progress	0	-5	100	19/11/2025	—
R20	060815ATUDR20	Sea bream	2015	Refined	0	-194	23 730	08/03/2016	—
R21	050416ATUDR21	Sea bream	2015	Refined	0	-105	450	08/03/2016	09/04/2016
R21	270416ATUDR21	Sea bream	2016	Refined	0	-104	3 050	27/04/2016	—
S01	110416ATUDS01	Sea bream	2016	Refined	0	-90	2 950	11/04/2016	—



TRACEABILITY REPORT

19/11/25..22/01/26

HOUCINE-MOBILE
HOUCINE

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INFORMATION S

Lot :

Band :

Lot No.

Cage :

Vendor :

Arived on :

R17Sea bass -2026

Sea bass -2026

191125ATULR17

R17

Hatchery

19/11/2025

Population :

AW (g) :

Biomass (Kg) :

Laying date :

49 945

67,5

3 371,29

MORTALITY - SKIMMING

	Number	Biomass (Kg)	Mortality rate	Survival rate
Mortality	-55	1,23	0,11	99,89
Nodaviros	0	0	0	100
Asphyxia	0	0	0	100
Vibriosis	0	0	0	100
Cryp	0	0	0	100
Past	0	0	0	100
Lympho	0	0	0	100
Photobac	9	8	14,08	85,94
Myxospor	0	0	0	100
TOTAL	64	9,23	14,17	

Sale :

Production :

Index conversion :

0

4 495

0,5

FOODING

Food	Start date	End date	Lot No.	Quantity (Kg)
EFICO YM 888 N°3MM	20/11/2025	03/01/2026	BIOM-18-001	1610
EFICO YM 888 N°6,5MM	17/12/2025	22/01/2026	BIO-19-123456	400
EFICO YM 888 N° 4.5	04/01/2026	09/01/2026	BIO14-123456	250
TOTAL				2260

TREATMENTS

Treatment	Start date	End date	Lot No.	Quantity (Kg)
Vitamine B1	29/11/2025	29/11/2025	123456	0,5
Vitamine C	26/11/2025	26/11/2025	1258900	0,5
Bactocell 100MD	13/01/2026	13/01/2026	BAC-00257418	2
TOTAL				3,0

MOUVEMENTS

Type - Date - Bande	Origin cage	NBR	BIOM	AW	Destination	Provenance
INITIALISATION 19/11/2025 Sea bass 2026	R17	50000	1 250,00	0		Sea bass 2026

Settings, Traceability & Accessibility

Settings

The settings module allows for flexible parameter definition, including document series numbers, archiving options, default stores, and formulas for fish lot populations. A crucial component is the rationing matrix, which automatically calculates daily rationing rates and food quantities per cage based on seawater temperature, species, and average weight.

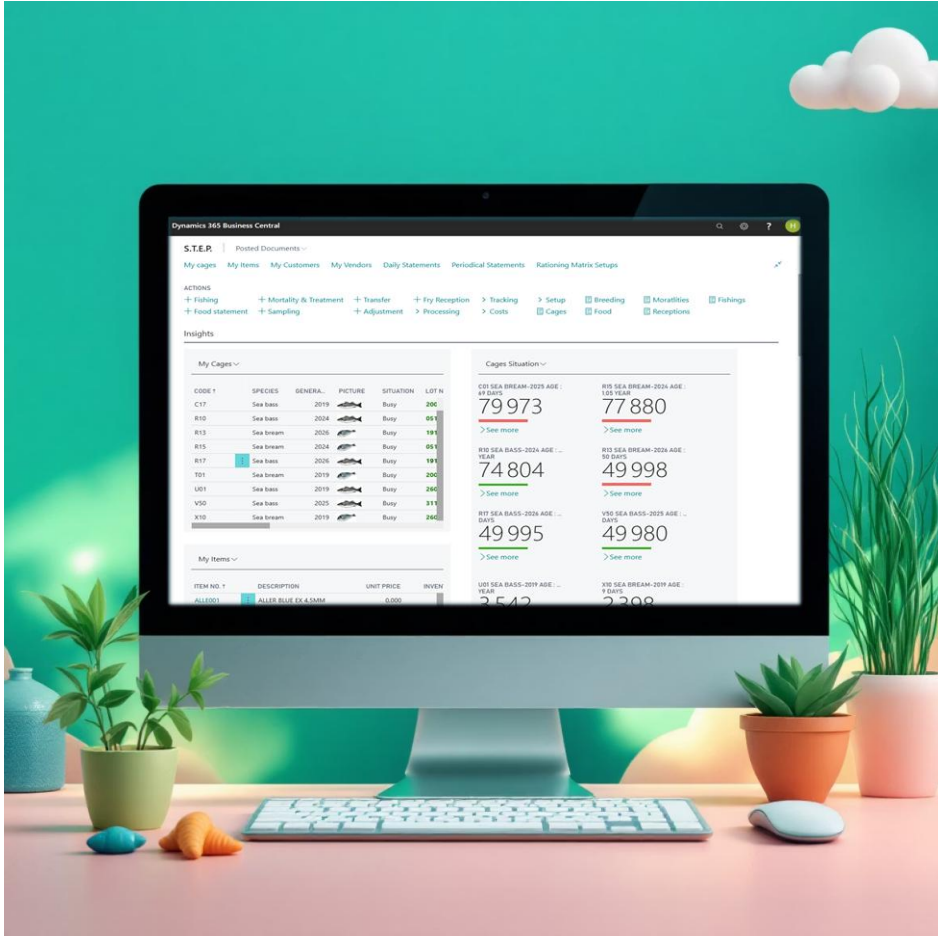
Traceability

A comprehensive traceability report by cage and lot number provides a summary of Fish-Farming, including origin, feeding, treatment, and movements. This historical data ensures full traceability from seeding to final disposition, crucial for quality control and incident management.

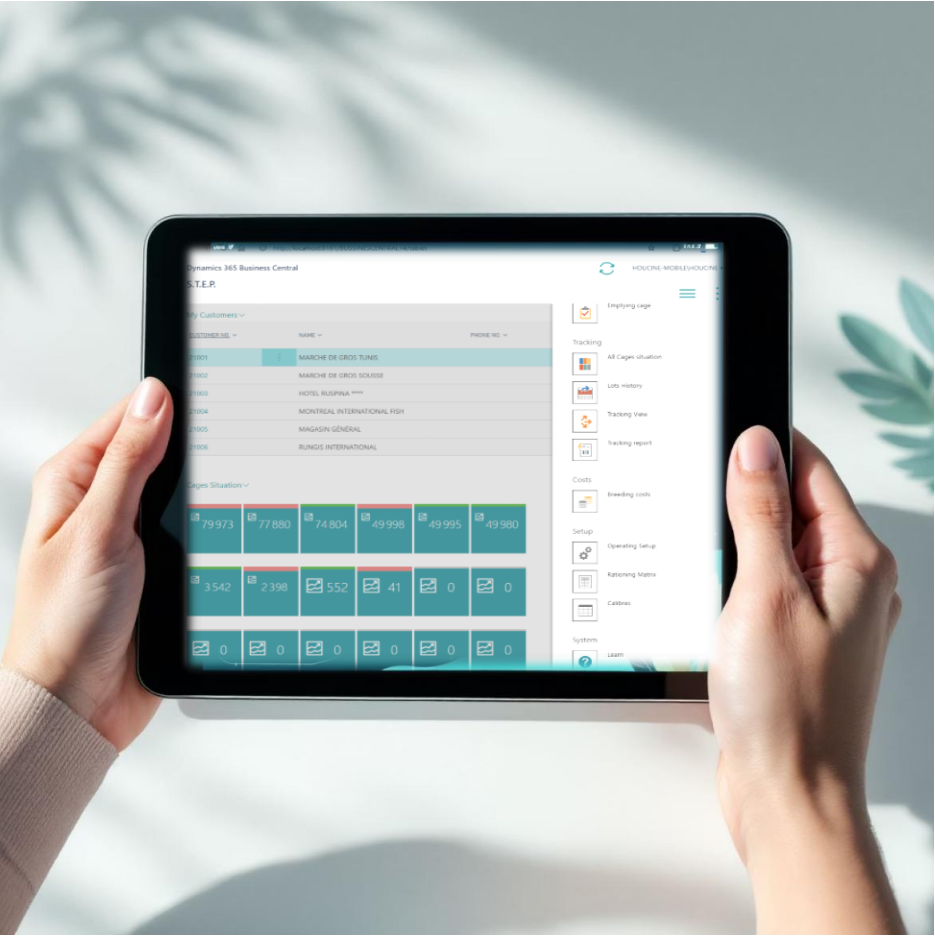
Accessibility Web & Mobile

Microsoft Business Central 365 is accessible via its Windows Client, web browsers (IE, Chrome, Edge, Firefox) on PC, and dedicated applications for tablets and Android smartphones. This multi-platform accessibility ensures real-time data availability and dashboard access from anywhere.

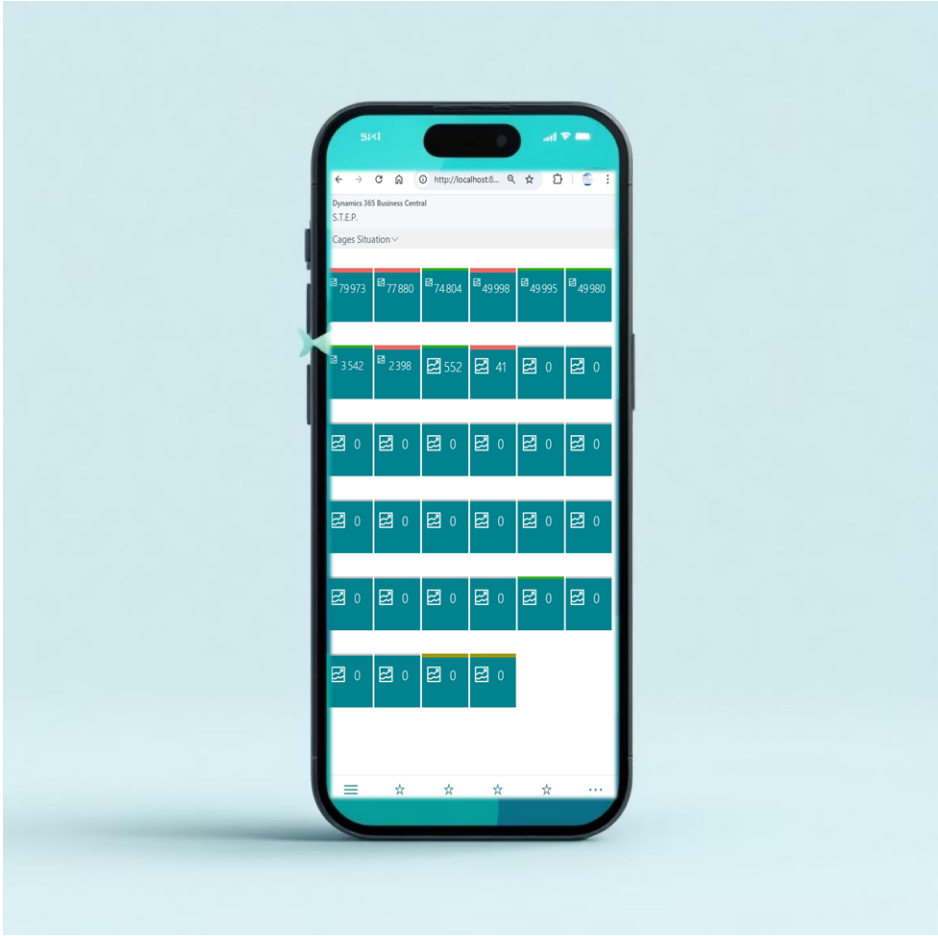
PC Interface



Tablet Interface



Smartphone Interface



Thanks



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