



# 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.

# Table of Contents

## 1- Introduction & General Overview

Understanding the solution's purpose and its integration with Microsoft Business Central 365.

## 2- Terminology & Zootechnical Formulas

Key terms and calculation methods for cage management and fish growth.

## 3- Business Process & Solution Interface

Overview of fish farming operations and the user-friendly system interface.

## 4- Daily & Periodical Statements

Managing routine tasks like feeding, mortality, fishing, and periodic actions like sampling and emptying.

## 5- Total Integration & Sales Process

How the system integrates with inventory, sales, and purchasing, including local and export sales.

## 6- Supply & Rearing Cost

Managing procurement and calculating detailed production costs for fish lots.

## 7- Reporting & Settings

Accessing performance reports, dashboards, and system configuration options.

## 8- Traceability & Accessibility

Ensuring full traceability and multi-platform access (PC, tablet, smartphone).

# 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).
- **$\Delta$  AW:** Initial & Final average weight change.
- **$\Delta$  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.:  $\sum$  Food consumed / ( $\Delta$  BIOM - Mortality BIOM - BIOM Trans (+))
- Ration Rate:  $\sum$  Food consumed / average (BIOM) \* 100 /  $\Delta$ T
- Growth Rate:  $\Delta$  AW \* 100 / 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.:  $\sum$  Food consumed / ( $\Delta$  BIOM + BIOM mortality + BIOM Trans (+))
- Ration Rate:  $\sum$  Food consumed / average (BIOM) \* 100 /  $\Delta$ T
- Growth Rate:  $\Delta$  (AW fishing - AWi) \* 100 / AW of the last sampling
- Mortality Rate:  $\sum$  of the mortality rates of the period.

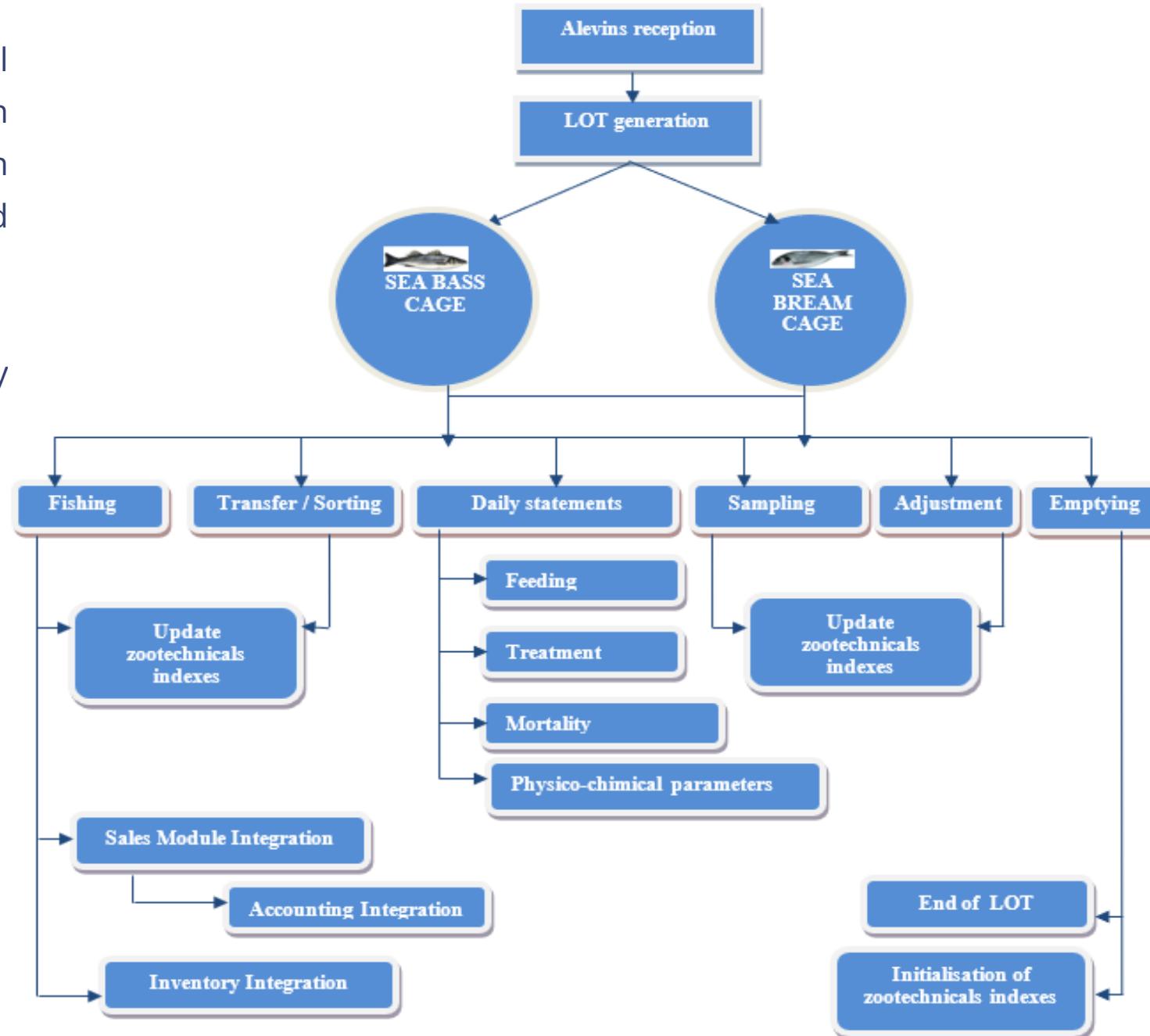
These formulas provide critical insights into the performance of each cage and the overall farm, allowing for precise management and decision-making.



# 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.

Dynamics 365 Business Central

S.T.E.P. | Posted Documents ▾ Setup ▾

My Cages My Items My Customers My Vendors Daily Statements Periodical Statements

ACTIONS

+ Feeding statement + Mortality & Treatment statement + Sampling + Transfer > Traceability  
+ Fishing Journal + Alevins Reception + Adjustment > Processing > Costs Cages Foods Receptions  
+ Alevins Reception

Insights

Key Performance Indicators ▾

**Top 5 Items by Sales Values**

- DG2 - DAURADE ROYALE 2G
- LP - LOUP DE MER P
- DG - DAURADE ROYALE G
- LG - LOUP DE MER G
- DP - DAURADE ROYALE P
- Tous les autres articles

**My Cages**

CODE ↑	SPECIES	GE...	PICTURE	SITU
A01	Sea bass	2026		Bu
A02	Sea bream	2026		Bu
B01	Sea bream	2024		Bu
B02	Sea bass	2026		Bu
C01	Sea bream	2025		Bu
C02	Sea bass	2026		Bu
C03	Sea bass	2026		Bu
C04	Sea bream	2026		Bu
C06	Sea bass	2026		Bu

**My Items**

NO.	DESCRIPTION	UNIT
BIOM019	EFICO YM 864 N°3MM	
BIOM020	EFICO YM 868 N°6,5MM	
BIOM003	INICIO N°1.5 mm	
BIOM018	EFICO YM 868 N°3MM	

**My Customers**

NO.	NAME	PHONE NO.
21001	MARCHE DE GROS T...	
21006	RUNGIS INTERNATIO...	
21002	MARCHE DE GROS S...	
21005	MAGASIN GÉNÉRAL	
21004	MONTREAL INTERNA...	

**Cages Situation**

CAGE	STOCK	AVG. WEIGHT (AW)
C01 SEA BREAM 2025	220	70
C12 SEA BASS 2026	450	70
C34 SEA BASS 2024	90	55
C13 SEA BASS 2026	650	5
R17 SEA BASS 2026	71	
B01 SEA BREAM 2024	300	
B02 SEA BASS 2026		

houceine-mobile:8181/BUSINESSCENTRAL14/Default?redirect=0&runinframe=1#

# 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

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

Initial stock	4216
Fishing Cumulation	-1100
Mortalities Cumulation	-5
Available Stock	3111

ACTUALS

Population	3111
Average weight	500
Biomass	1555,5
Conversion index	2,6

PREVIOUS

Previous Population	3211
Previous Average weight	500
Previous Biomass	1606
Previous conversion index	2,56

THEORETICAL

Theoretical Average Weight	0
Conversion index Theo.	2

Show more

Specifications >

History

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

Show less

Picture



051124ATULR10-B03-C20

QR code

Cage statistics

FOODS

Food Qty.	9525
Feeding days	84

BIMASS

Biomass Fishing	-550 000
Biomass Mortality	2,5
Biomass Transfer	2108

Notes +

(There is nothing to show in this view)

Links +

# Cages situation:



GRAPHIC CAGES SITUATION

✓ SAVED

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.

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 →> Sea bass-2019 Age : 6,76 Year	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 bream-2026 Age : 50 Days	0 R20 → Empty	0 R21 → Empty	0 S01 →> Sea bream-2019 Age : 9,63 Year	41 T01 →> Sea bream-2019 Age : 9,63 Year	0 TEST → Empty
3542 U01 →> Sea bass-2019 Age : 9,63 Year	49 980 V50 →> Sea bass-2025 Age : 69 Days	0 W10 → Empty	2398 X10 →> Sea bream-2019 Age : 9 Days	0 Y10 → Empty	0 Z10 → Empty	0 Z98 →> Empty	0 Z99 →> Empty					

79 973 C01 Sea bream-2025 Age : 69 Days	77 880 R15 Sea bream-2024 Age : 1,05 Year	74 804 R10 Sea bass-2024 Age : 1,05 Year	49 998 R13 Sea bream-2026 Age : 50 Days	49 995 R17 Sea bass-2026 Age : 50 Days	49 980 V50 Sea bass-2025 Age : 69 Days
---	---	--	---	--	--

3542 U01 Sea bass-2019 Age : 9,63 Year	2398 X10 Sea bream-2019 Age : 9 Days	552 C17 Sea bass-2019 Age : 6,76 Year	41 T01 Sea bream-2019 Age : 9,63 Year	0 A01 Empty	0 A02 Empty
--	--------------------------------------	---------------------------------------	---------------------------------------	-------------	-------------

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	0 C18 Empty	0 C20 Empty	0 C34 Empty
-------------	-------------	-------------	-------------	-------------	-------------

0 R01 Empty	0 R20 Empty	0 R21 Empty	0 S01 Empty	0 TEST Empty	0 W10 Emptying
-------------	-------------	-------------	-------------	--------------	----------------

0 Y10 Empty	0 Z10 Empty	0 Z98 Empty	0 Z99 Empty
-------------	-------------	-------------	-------------

# 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

救人 + 保存 ✓ 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**

No.	REE25/0020	Oxygen	6
Document Date	21/11/2025	Operator	HOUCINE-MOBILE\HOUCINE
Temperature	20	Status	Open

Fooding Line Subform | Manage

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

Notes + (There is nothing to show in this view)

Line Details FactBox



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

救人 + 保存 ✓ 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		

Notes + (There is nothing to show in this view)

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...	25000	25	625	45	1.000
A02	Sea bream	2026	01	211125AT...	30000	30	900	45	0.850

Line Details FactBox



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

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

✓ SAVED

Suggest cages... Release Reopen Post... Post and Print... Show Attached More options

**General**

No.	REE25/0021	Operator	HOUCINE-MOBILE\HOUCINE
Document Date	21/11/2025	Total died	0
Temperature	18.0	Status	Open
Oxygen	6		

**Mortalities Line SubPage** Manage

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



Number: 79973  
Biomass: 4798.38  
Average weight: 60  
Delta-Biomass conversion index: -0.48

## 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

Sampling · ECH-25/003 · 21/11/2025

✓ SAVED

Release Reopen Post... Post and Print... Show Attached More options

**General**

No.	ECH-25/003	Operator	HOUCINE-MOBILE\HOUCINE
Document Date	21/11/2025	Status	Open
Temperature	17		

**Sampling Line SubPage** Manage

CAGE CODE	SPECIES	GENERA...	LOT NO.	NEW AVERAGE WEIGHT	QUANTITY	DISPERSION RATE	GROWTH RATE	GROWTH SPEED	REMARQUES
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



Number: 552  
Biomass: 149.04  
Average weight: 270  
Delta-Biomass conversion index: -1.89

## 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 Name ..... ALIMSTK

---

Manage **Process** Functions Line Actions Navigate Fewer options

---

Post Post and Print Label

---

ENTRY TYPE	POSTING DATE		CAGE CODE	SPECIES	GENERA...	N° DE LOT	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 ROYALE	
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.



# 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.

The screenshot shows the Microsoft Business Central 365 interface for managing feeding statements. The left sidebar displays a list of posted documents, with the first one, 'RE+25/0070', selected and highlighted in teal. The main area shows the details for this document: Document No. REE+25/0070 and Posting Date 24/12/25. Below this, a table lists related entries, with 'Cage Ledger Entries' highlighted in a red box. The table has columns for RELATED ENTRIES and NO. OF ENTRIES, with values 20, 20, and 20 respectively.

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

VF-25/0006 · MAGASIN GÉNÉRAL

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

General

Customer Name	MAGASIN GÉNÉRAL	Posting Date	21/11/2025
Contact		Due Date	21/11/2025
Accompanying voucher No.	*	Check / Draft	*
Stamp Fiscal	<input checked="" type="checkbox"/>	Bank	*

Lines Manage More options

TYPE	NO.	CROSS-REFERENCE NO.	BAR CODE FONT	DESCRIPTION	LOCATION CODE	QUANTITY	CAGE CODE	PACKAGE CODE	PACKAGE NUMBER	GROSS WEIGHT	NET WEIGHT	UNIT OF MEASUR
Item	DM	2D00632525T01		DAURADE ROYALE 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

Inv. 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

VF-25/0007 · MONTREAL INTERNATIONAL FISH

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

General

Customer Name	MONTRÉAL INTERNATIONAL FISH	Posting Date	21/11/2025
Contact		Due Date	21/11/2025
Accompanying voucher No.	*	Check / Draft	*
Stamp Fiscal	<input checked="" type="checkbox"/>	Bank	*

Lines Manage More options

TYPE	NO.	CROSS-REFERENCE NO.	BAR CODE FONT	DESCRIPTION	LOCATION CODE	QUANTITY	CAGE CODE	PACKAGE CODE	PACKAGE NUMBER	GROSS WEIGHT	NET WEIGHT	UNIT OF MEASUR
Item	IP	1L00732525C17		LOUP DE MER P	MPF	50	C17	C10	5	61	10	KG
Item	DM	1D00732525X10		DAURADE ROYALE 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

VF-25/0005 · MARCHE DE GROS TUNIS

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

General

Customer Name	MARCHE DE GROS TUNIS	Stamp Fiscal	<input checked="" type="checkbox"/>
Contact	Mandataire : Ste Trabelsi & Fils	Posting Date	21/11/2025
Accompanying voucher No.	V25-125079	Due Date	21/11/2025

Lines Manage More options

TYPE	NO.	CROSS-REFERENCE NO.	BAR CODE FONT	DESCRIPTION	LOCATION CODE	QUANTITY	CAGE CODE	PACKAGE CODE	PACKAGE NUMBER	GROSS WEIGHT	NET WEIGHT	UNIT OF MEASUR
Item	DG	2D00532525X10		DAURADE ROYALE 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)	MGREDV	-		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

1D02902126B01

S.T.E.P. | Posted Documents

Posted Sales Invoices: | Search Delete | Process | Invoice | Navigate | Correct | Print/Send

600g - 800g

NO. ↑	CUSTOMER NO.	CUSTOMER	DATE	UNIT	AMOUNT INCLUDING VAT	
VF+25/001	21005	MAGASIN GÉNÉRAL	17/11/2025	6001,000	7141,000	10
VF+25/002	21001	MARCHE DE GROS TUNIS	14/11/2025	2414,800	2927,800	21/01/2026
VF+25/003	21003	HOTEL RUSPINA ****	15/11/2025	1501,000	1786,000	
VF+25/004	21004	MONTREAL INTERNATIONAL F... CAD	14/11/2025	1500,00	1500,00	21/01/2026
VF+25/005	21005	MAGASIN GÉNÉRAL	17/11/2025	601,000	715,000	

Print Bar code Labels... | Print Bar code Labels... | Update Document

**Montreal International Fish**

Barcode: 1002902126801

QR Code

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.

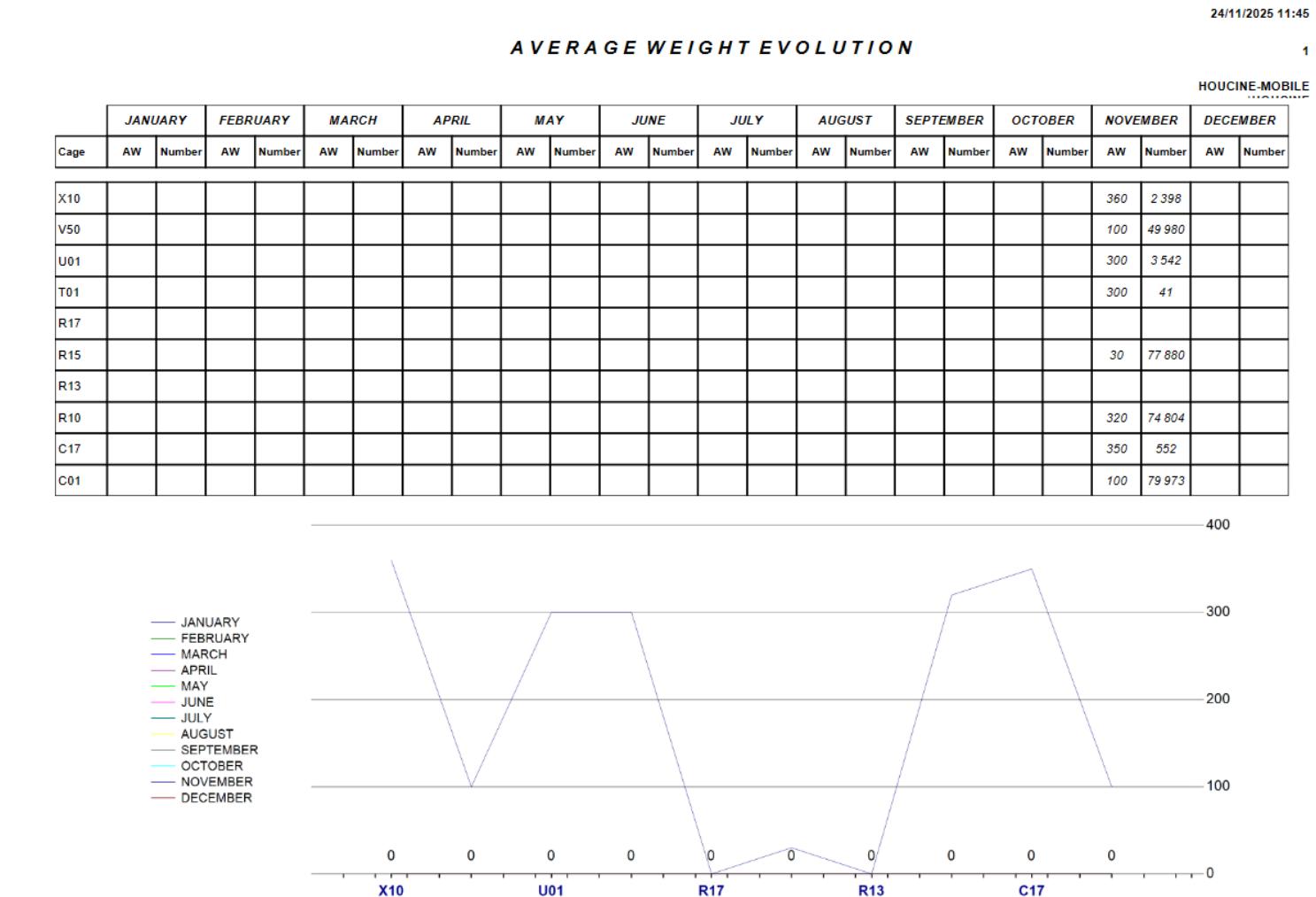
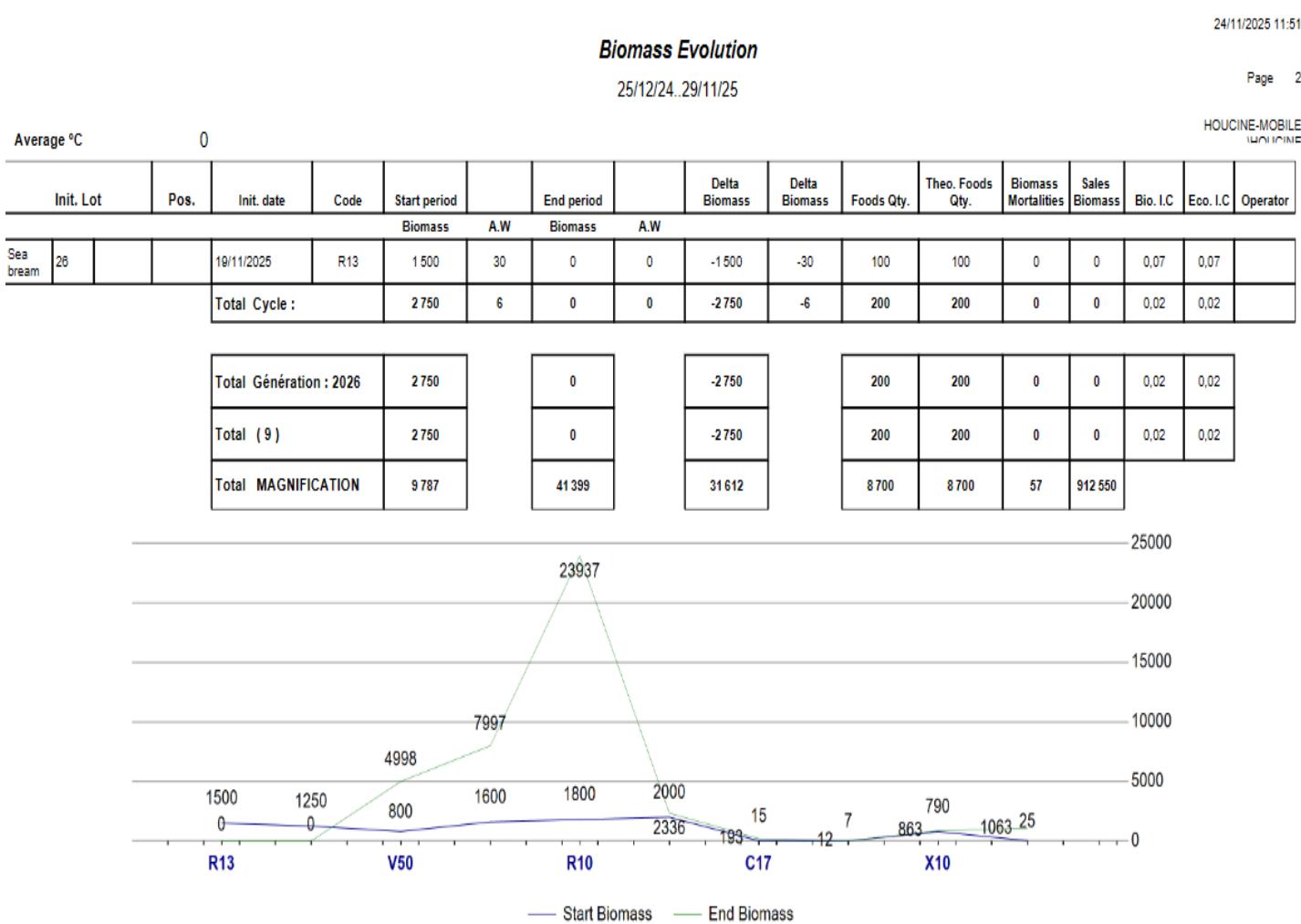
The system calculates unit costs per kilogram and per piece for each production lot and cage, providing comprehensive financial insights.

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 (LC)
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	29225	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.



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

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	26845	08/03/2016	-
C06	250715ATULC6	Sea bass	2015	Refined	0	-346	15210	08/03/2016	-
C12	260417ATUDC12	Sea bream	2017	Refined	0	-20	1150	26/04/2017	-
C17	200219ATULC17	Sea bass	2019	In progress	-1405	-43	600	20/02/2019	-
C18	090715ATULC18	Sea bass	2015	Refined	0	-201	19425	08/03/2016	-
C20	020815ATUDC20	Sea bream	2015	Refined	0	-107	22675	08/03/2016	-
C34	020815ATUDC34	Sea bream	2015	Refined	0	-97	3945	08/03/2016	08/04/2016
C34	270416ATULC34	Sea bass	2016	Refined	0	-89	1955	27/04/2016	-
R01	030715ATUDR1	Sea bream	2015	Refined	0	-274	30508	08/03/2016	-
R10	051124ATULR10	Sea bass	2024	In progress	-65	-131	4445	05/11/2024	-
R13	110815ATUDR13	Sea bream	2015	In progress	0	-155	22740	08/03/2016	-
R13	191125ATUDR13	Sea bream	2026	In progress	0	-2	100	19/11/2025	-
R15	051124ATUDR15	Sea bream	2024	In progress	-2065	-55	4205	05/11/2024	-
R17	180815ATUDR17	Sea bream	2015	In progress	0	-145	17665	08/03/2016	-
R17	191125ATULR17	Sea bass	2026	In progress	0	-5	100	19/11/2025	-
R20	060815ATUDR20	Sea bream	2015	Refined	0	-194	23730	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	3050	27/04/2016	-
S01	110416ATUDS01	Sea bream	2016	Refined	0	-90	2950	11/04/2016	-



## TRACEABILITY REPORT

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

### INFORMATIONS

Lot :	R17Sea bass -2026
Band :	Sea bass -2026
Lot No.	191125ATULR17
Cage :	R17
Vendor :	Hatchery
Arrived on :	19/11/2025

Population :	49945
AW (g) :	67,5
Biomass (Kg) :	3371,29
Laying date :	

### 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	14,06	85,94
Myxospor	0	0	0	100
<b>TOTAL</b>	<b>64</b>	<b>9,23</b>	<b>14,17</b>	

Sale : 0

Production : 4495

Index conversion : 0,5

### FOODING

Food	Start date	End date	Lot No.	Quantity (Kg)
EFICO YM 868 N°3MM	20/11/2025	03/01/2026	BIOM-18-001	1610
EFICO YM 868 N°6,5MM	17/12/2025	22/01/2026	BIO-19-123456	400
EFICO YM 868 N° 4,5	04/01/2026	09/01/2026	BIO14-123456	250
<b>TOTAL</b>				<b>2260</b>

### 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
<b>TOTAL</b>				<b>3,0</b>

### MOUVEMENTS

Type - Date - Bande	Origin cage	NBR	BIOM	AW	Destination	Provenance
INITIALISATION 19/11/2025 Sea bass 2026	R17	50000	1250,00	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.

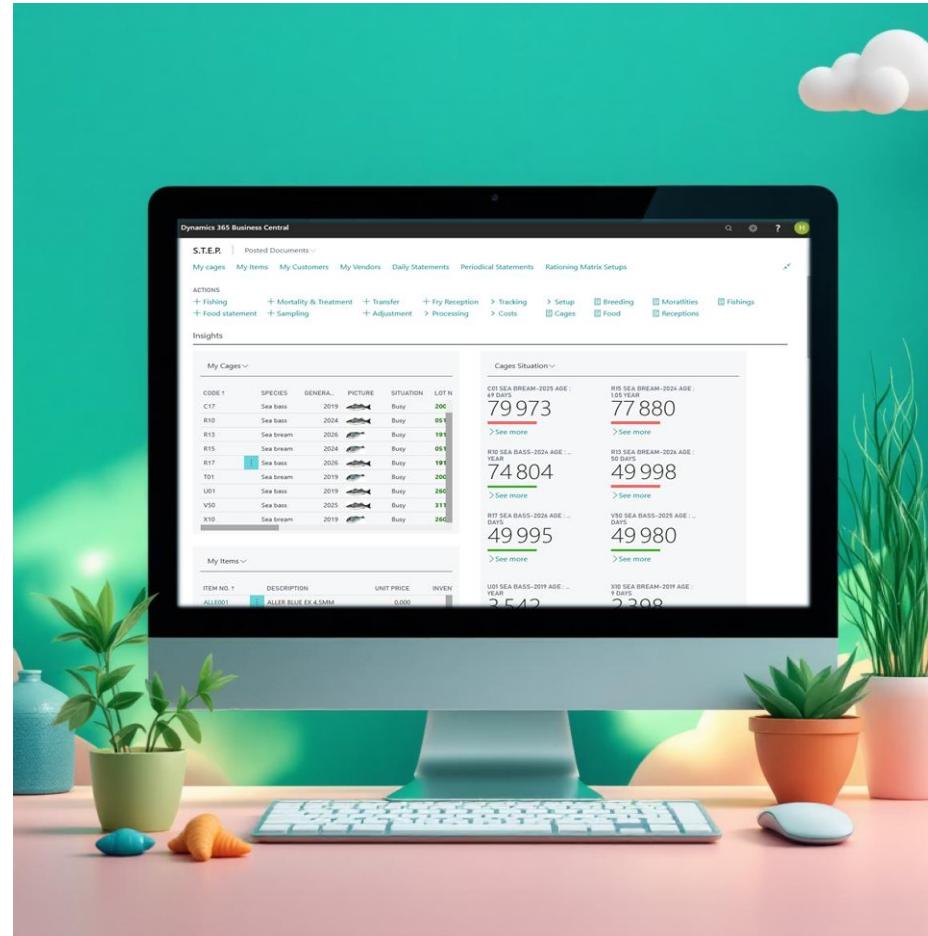
## Traceability

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.

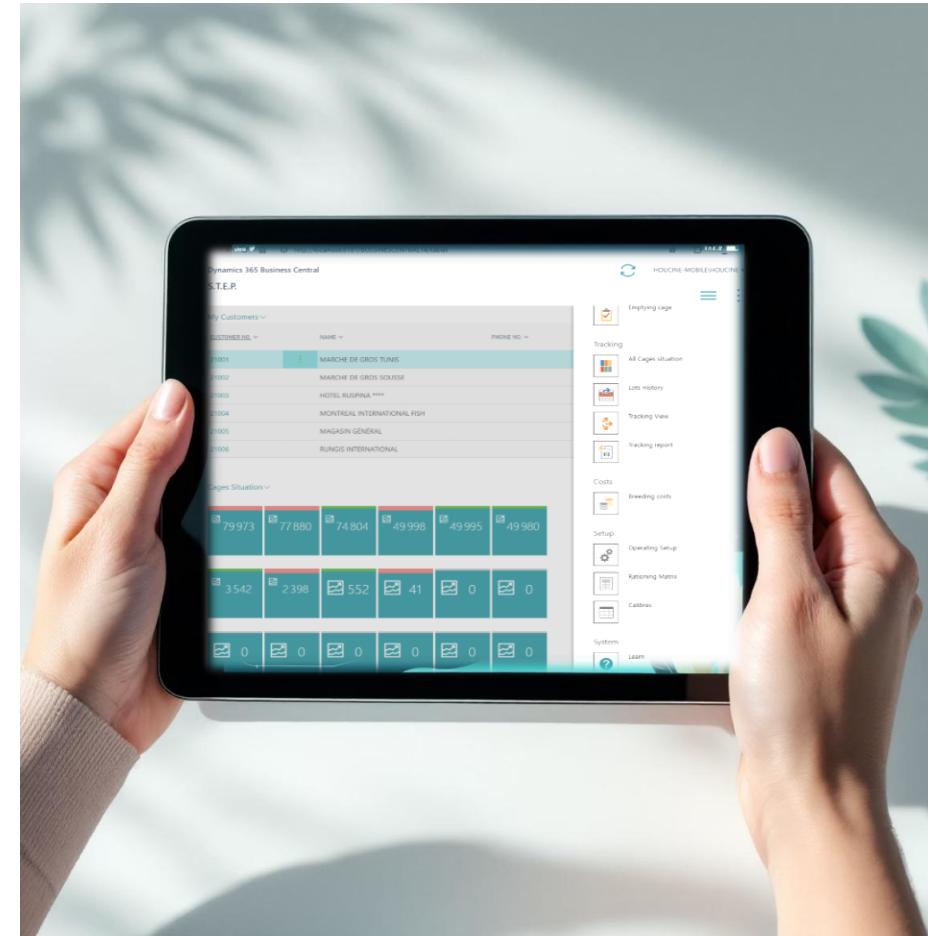
## Accessibility Web & Mobile

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.

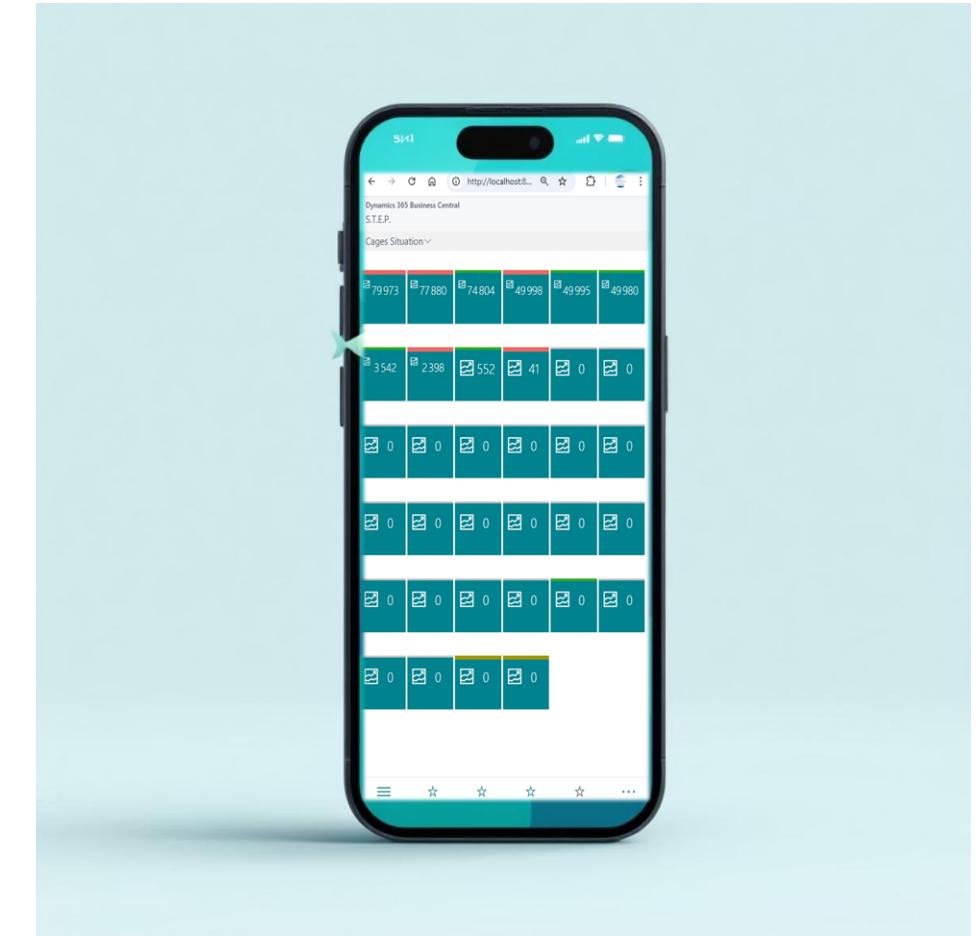
### PC Interface



### Tablet Interface



### Smartphone Interface



# Thanks



<https://navisoft.tn/en/navifish>

contact@navisoft.tn

(+216) 22 540 009