



# 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 fry (Sea Bream, Sea Bass) seeding in cages to fish sales, providing a wide functional perimeter for efficient farm operations.

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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 fry (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 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

- **Number:** Individuals per cage (pieces).
- **AW:** Average weight of an individual (grams).
- **BIOM:** Biomass of a population (grams).
- **$\Delta$ 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 (%).

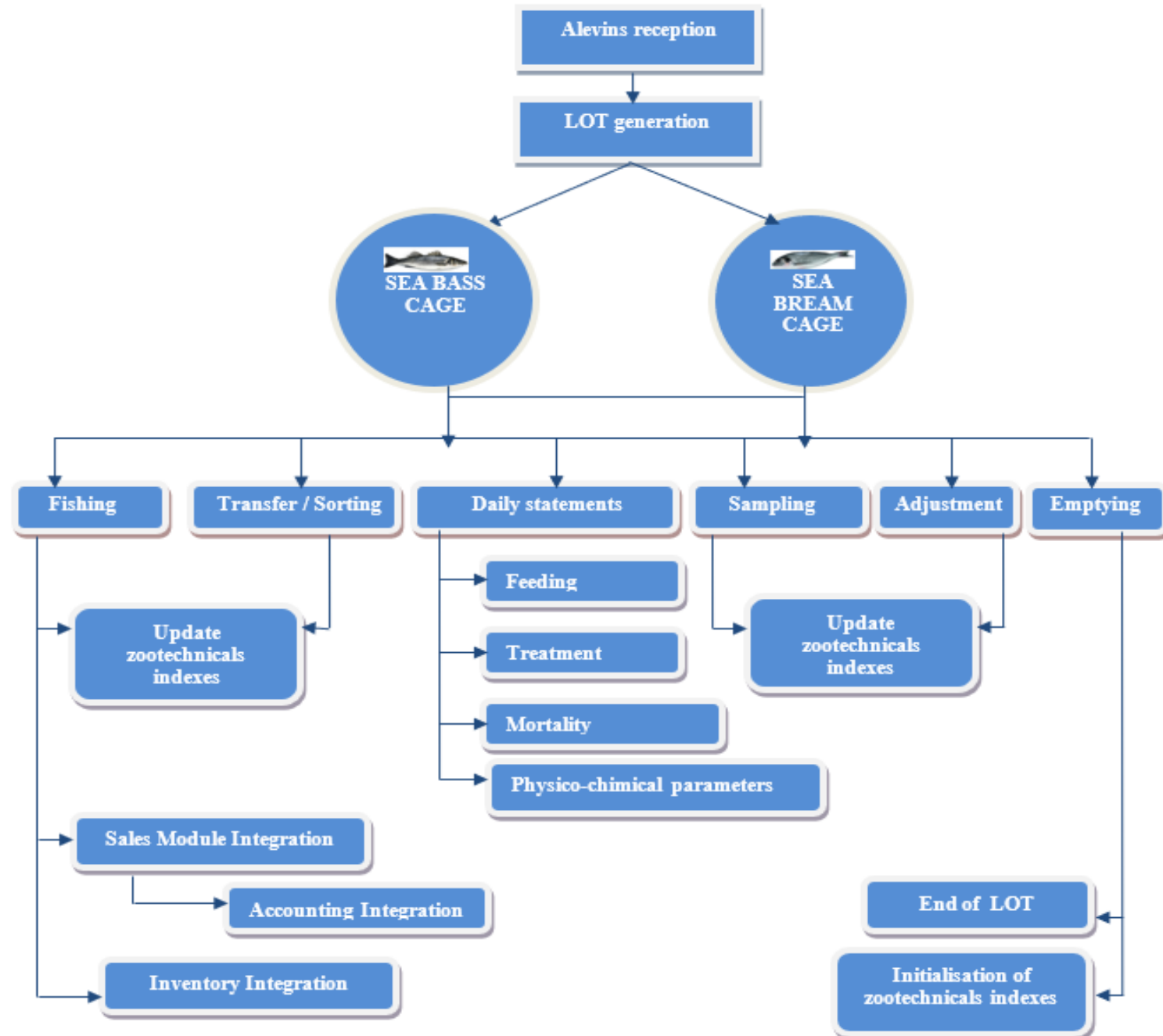
## Formulas for In-Progress Cages

- **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:**  $\Delta \text{AW} * 100 / \text{AW}_t - 1$
- **Daily Mortality Rate:** Dead fish / Total numbers \* 100

# 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:



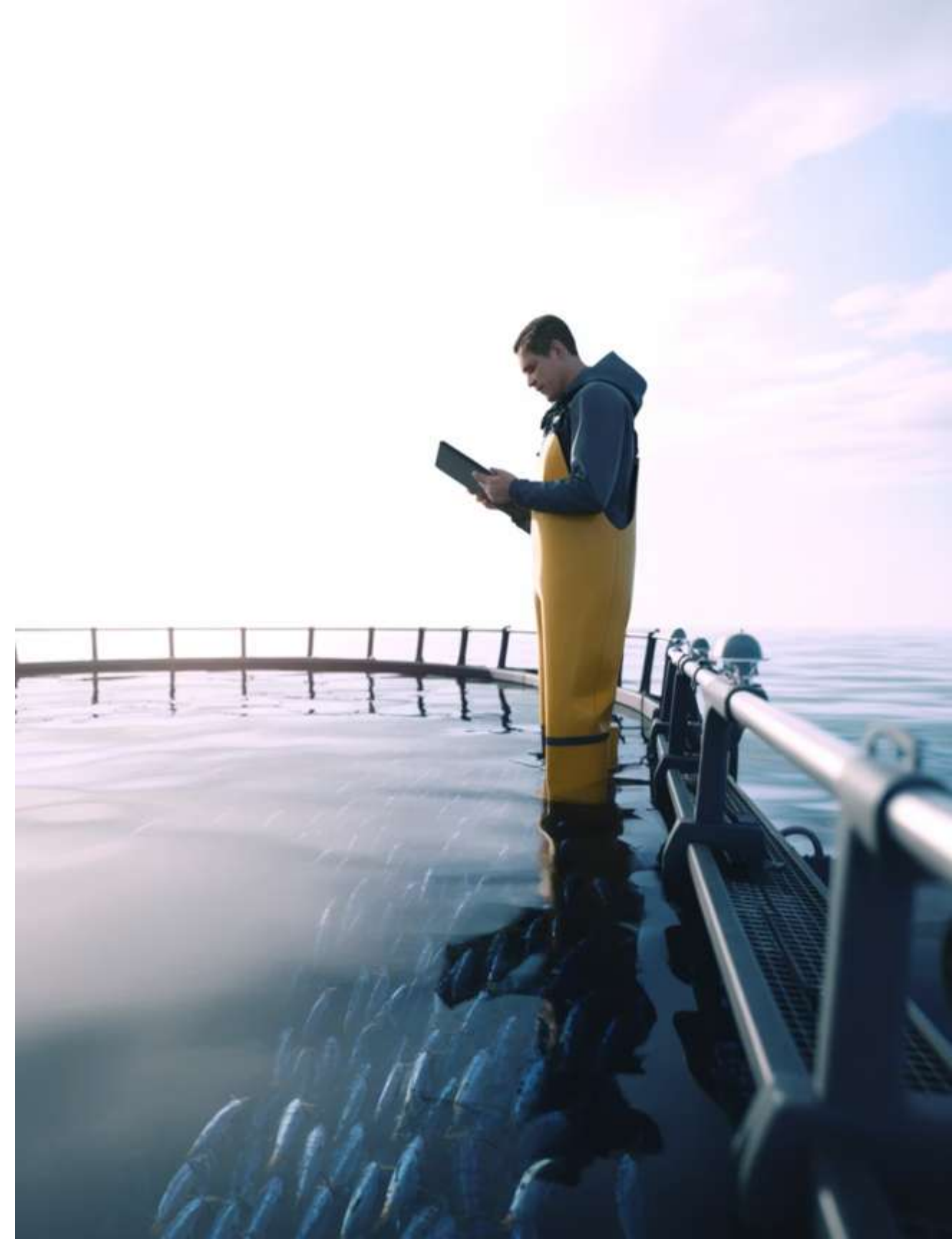


# Zootechnical Formulas

## Formulas for an Empty Cage:

- **Number:** Initial number - mortality + Trans (+) - Trans (-) - Fishing + Regulation (+)
- **AW:** Fishing AW
- **BIOM:** Number sin \* 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.

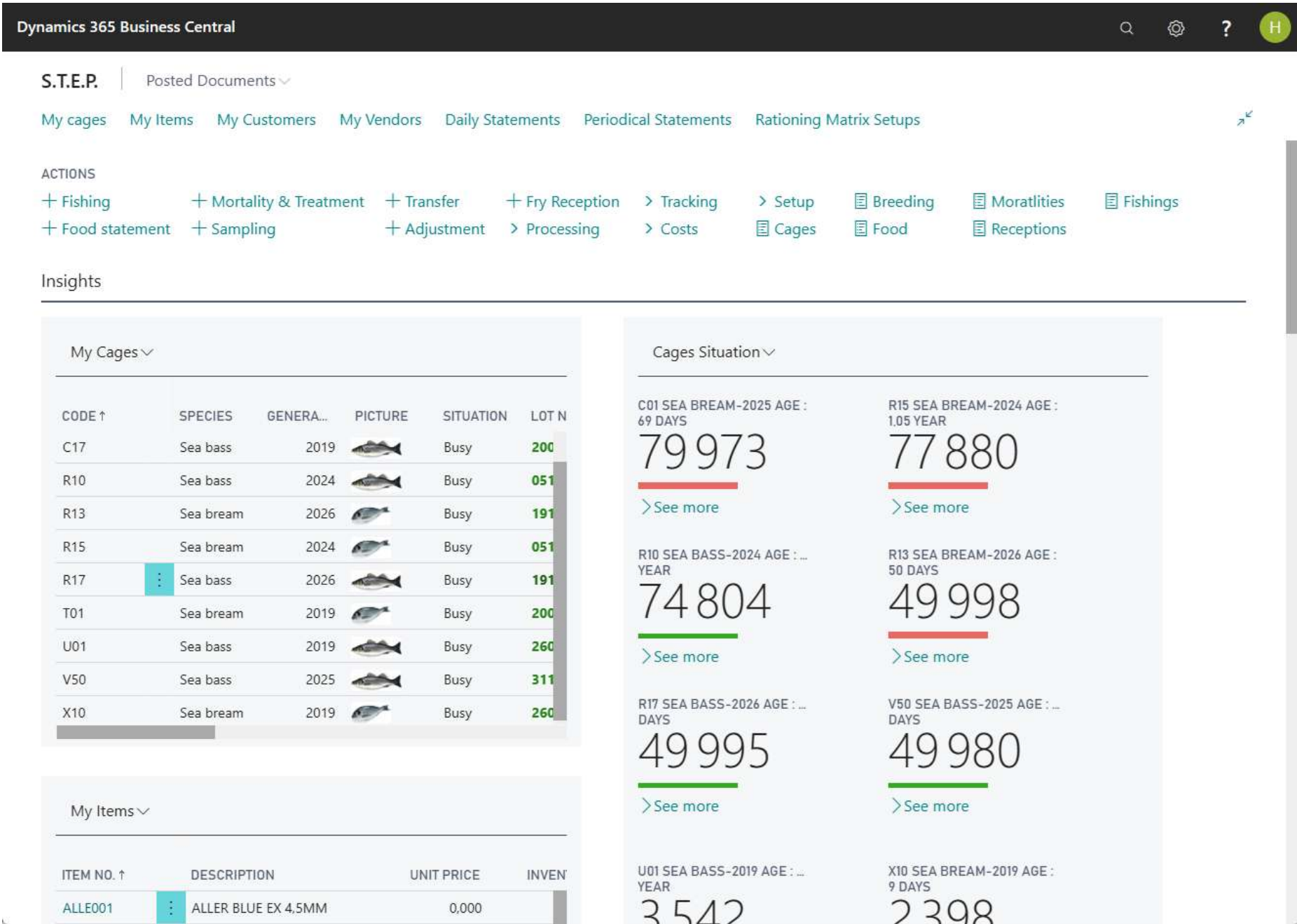


# Solution Interface: Cage Management Dashboard

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 breeding cycles and growth phases.



Cage card:

Detailed information is available through individual cage cards, which include general 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

R10 · Sea bass · 2024

Process

Report

Show Attached

Actions

Fewer options

Picture

List

Ledg. Entries

Fishing entries

Food entries

Mortality entries

Treatment entries

Sampling entries

Transfer entries

General

Show more

GENERAL

Code

R10

Species

Sea bass

Generation

2024

Lot No.

051124ATULR10

Situation

Busy

Age

1,05 Year

Origin species

Cage type

Floating

Diameter

0,000

Food vendor name

BIOMAR

Alevins supplier na...

L'AQUACULTURE TUNISIENNE

Avail. stock %

100%

ACTUALS

74804

320

23 937,28

Number

Average weight

Biomass

14 937,...

0,3

Delta Biomass

Conversion index

PREVIOUS

74804

300

22 441,2

Previous number

Previous Average weight

Previous Biomass

0

0,33

Previous Delta Biomass

Previous conversion index

THEORETICAL

0

0,5

0

Theoretical Average Weight

0

2

Conversion index Theo.

STOCK

75 000

-65

-131

Initial stock

Cumulation Fishes

Cumulation Mortalities

0

74 804

Cumulation transfers

History

Seeding date

05/11/2024

Last sampling date

25/11/2025

Last date modificati...

24/11/2025 11:44

Last entry date

Last feeding date

25/11/2025

Date cage installation

Last output date

Last treatment date

21/11/2025

Date net installation

Last emptying date


12/11/2024

Last cleaning date

Life net (Years)

0

Picture



051124ATULR10

Cage statistics

FOODS

Food Qty.

4445

Feeding days

21

BIOMASS

Biomass Fishing

-15 450

Biomass Mortality

27,8

Biomass Transfer

0

Notes

(There is nothing to show in this view)

Links

NAVISOFT

TUNISIE

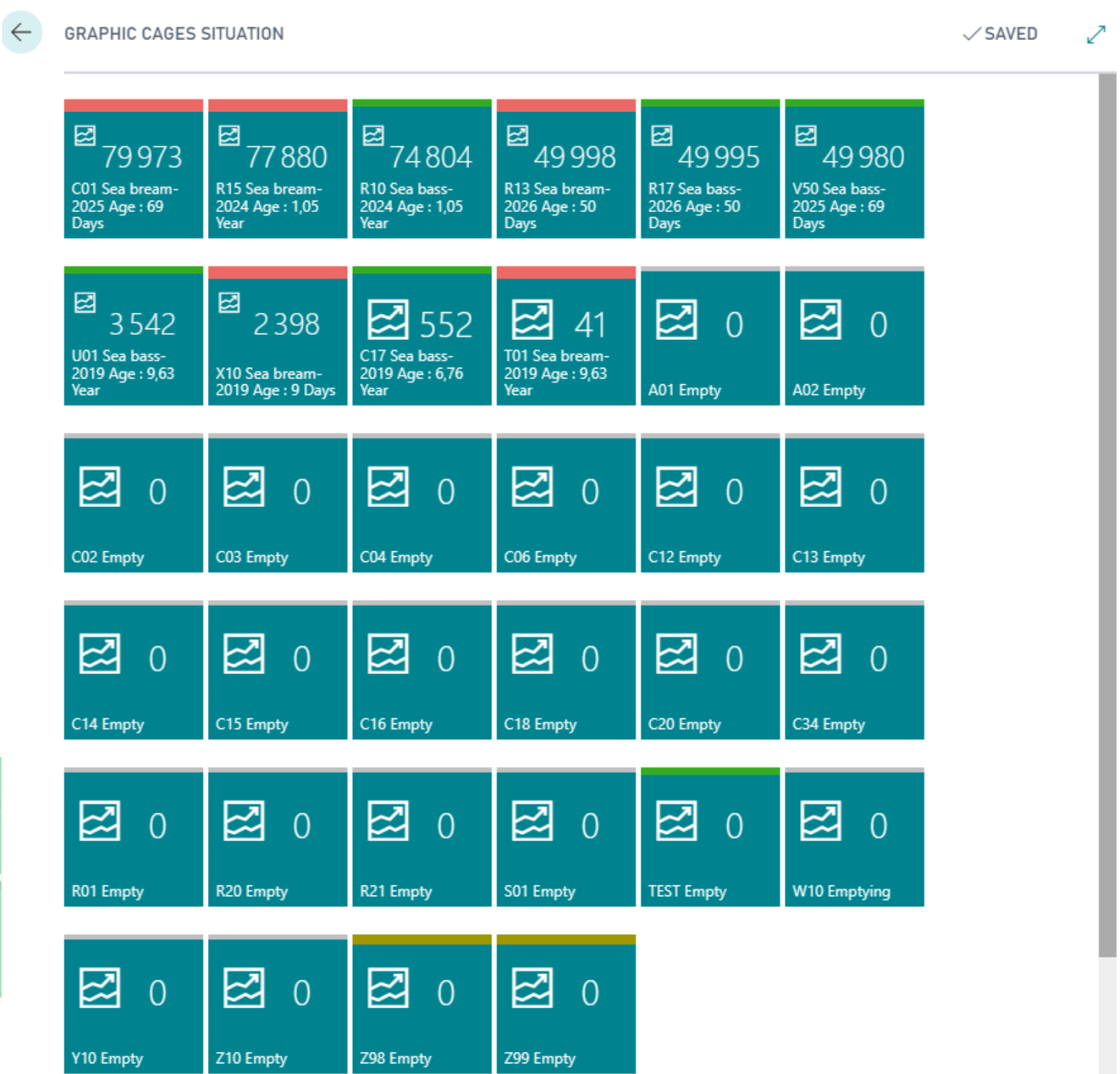
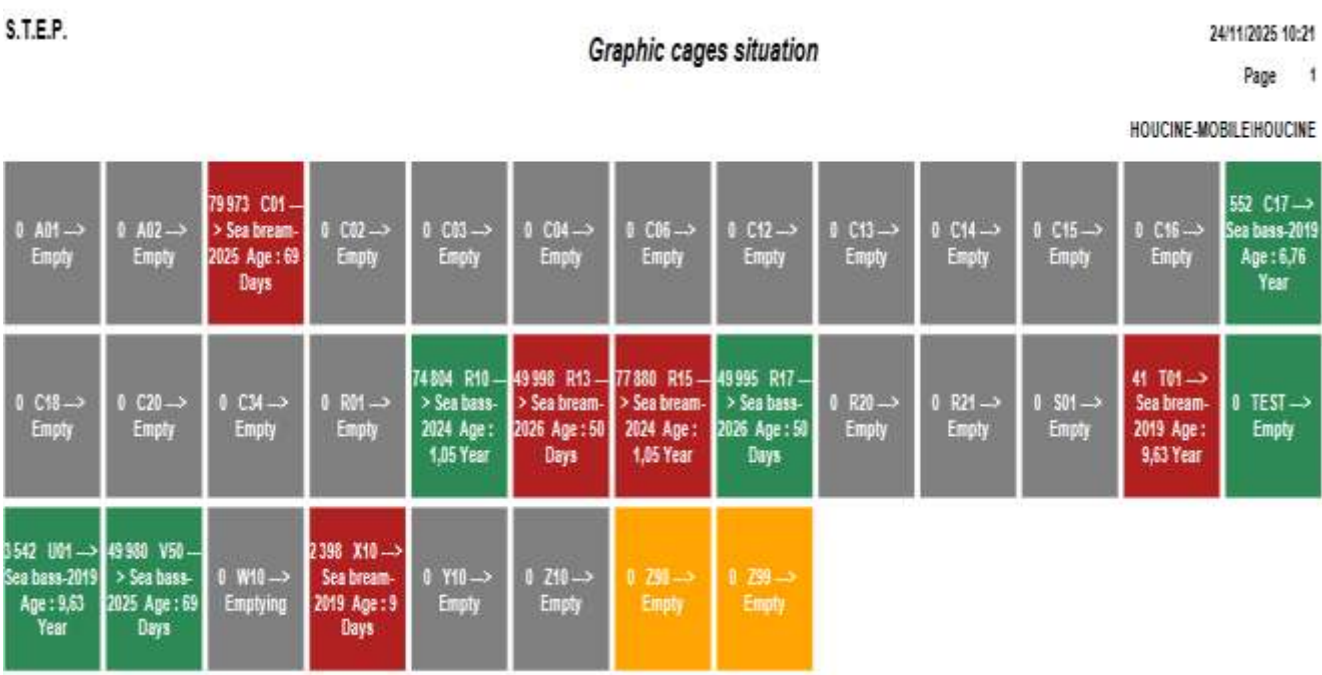
Your Business Partner



# Cages situation:

Overview chart of the cages,

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

Fooding · REE25/0020 · 21/11/2025

Suggest cages...Calculate Rations...Fill in Food Qty...ReleaseReopenPost...Post and Print...Show AttachedMore options

General

No.REE25/0020Oxygen6Document Date21/11/2025OperatorHOUCINE-MOBILE/HOUCINETemperature20StatusOpen

Fooding Line Subform

Manage


CAGE CODE	GENERAL	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 BE
C17	2019	Sea bass	200219ATU...	BIOMAR	149.04	1.2			BIOM014	EFICO YM BE
R10	2024	Sea bass	051124ATU...	BIOMAR	22441.2	1.1			BIOM020	EFICO YM BE
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 BE
R17	2026	Sea bass	191125ATU...	BIOMAR	1249.88	2.02			BIOM018	EFICO YM BE
T01	2019	Sea bream	200219ATU...	BIOMAR	11.07	1			BIOM017	EFICO YM BE
U01	2019	Sea bass	260219ATU...	BIOMAR	991.76	1.2			BIOM014	EFICO YM BE
V50	2025	Sea bass	311025ATU...	BIOMAR	3998.4	1.63			BIOM014	EFICO YM BE
X10	2019	Sea bream	260219ATU...	BIOMAR	767.36	1			BIOM017	EFICO YM BE

Notes +

(There is nothing to show in this view)

Line Details FactBox

CAGE



Number552Biomass149.04Average weight270Delta-Biomass-1.89conversion index3.79

## Periodical Statements

Periodic statements manage manipulations like sampling, cage emptying, maintenance, transfers, and fry reception.

### Fry Reception:

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

FRY RECEPTION HEADER

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

Generate Lot No. ReleaseReopenPost...Post and Print...Show AttachedMore options

General

No.REC-25/003Transport nomenclatureDocument Date21/11/2025Provenance cage typeFry vendor100500Provenance cageFry vendor nameL'AQUACULTURE TUNISIENNEOperatorHOUCINE-MOBILE/HOUCINETransport wayBoatStatusOpenTransport RefB-ATU-1523

Reception Line SubPage

Manage


CAGE CODE	SPECIES	GENERATL.	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		0.850

Notes +

(There is nothing to show in this view)

Line Details FactBox

CAGE



Number0Biomass0Average weight0Delta-Biomass0conversion index0.00

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

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

General


No.REE25/0021OperatorHOUCINE-MOBILE/HOUCINEDocument Date21/11/2025Temperature18.0Oxygen6Total died0StatusOpen

Notes

(There is nothing to show in this view)

Line Details FactBox

CAGE



Number79973Biomass4798.38Average weight60Delta-Biomass-0.48Conversion index0.20

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	REMARKS
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					

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

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

General


No.ECH-25/003OxygenOperatorHOUCINE-MOBILE/HOUCINEDocument Date21/11/2025Temperature17StatusOpen

Notes

(There is nothing to show in this view)

Line Details FactBox

CAGE



Number552Biomass149.04Average weight270Delta-Biomass-1.59Conversion index3.79

Sampling Line SubPage

Manage

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

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 number for commercial sales, updating finished product stock for delivery.

FISHING JOURNAL LINE

✓ SAVED

Batch Name

ALIMSTK

Manage

Process

Functions

Line

Open in Excel

Actions

Navigate

Fewer options

Post

Post and Print

Label

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 data, 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.

MORTALITIES HEADER

+

✓ SAVED

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, encompassing 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 food statement, we can see the interaction with stocks following the Posting of consumption of food.

S.T.E.P.

Posted Documents

Posted Statements: All

NO.	STATEME... TYPE	DOCUME DATE ↓
REE+25/0019	Mortality Tr...	21/11/20
REE+25/0018	Fooding	21/11/20
REE+25/0017	Fooding	21/11/20
REE+25/0016	Fooding	20/11/20
REE+25/0015	Mortality Tr...	20/11/20
REE+25/0014	Fooding	20/11/20
REE+25/0013	Mortality Tr...	19/11/20
REE+25/0012	Fooding	19/11/20
REC+25/002	Fry Recepti...	19/11/20

← NAVIGATE

✓ SAVED

DOCUMENT

Document No. REE+25/0018

Posting Date 21/11/25

Show Related Entries

Find

Print...

Open in Excel

More options

RELATED ENTRIES	NO. OF ENTRIES
Item Ledger Entry	10
Value Entry	10
Cage Ledger Entry	10

# 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

Power 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

Lines

Message

More options

TYPE	NO.	CROSS-REFERENCE NO.	BAR CODE	DESCRIPTION	LOCATION CODE	QUANTITY	CAGE CODE	PACKAGE CODE	PACKAGE NUMBER	GROSS WEIGHT	NET WEIGHT	UNIT OF MEASURE
Item	DM	200005252101		CAJON DE ROULE M	MFF	22	TO	CO	5	31.9	5	KG
Item	AP	200005252107		LOUP DE MER P	MFF	3.6	C17	CM	8.9	4.32	4	KG

Subtotal Excl. VAT (TND)

214.680

Total Excl. VAT (TND)

214.680

Vat Discount Amount Excl. VAT (TND)

0.0000

Total VAT (TND)

43.776

Invoice Discount %

0

Total Incl. VAT (TND)

258.456



## 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

Power 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

Lines

Message

More options

TYPE	NO.	CROSS-REFERENCE NO.	BAR CODE	DESCRIPTION	LOCATION CODE	QUANTITY	CAGE CODE	PACKAGE CODE	PACKAGE NUMBER	GROSS WEIGHT	NET WEIGHT	UNIT OF MEASURE
Item	AP	200005252107		LOUP DE MER P	MFF		C17	C10	5	61	10	KG
Item	DM	200005252103		CAJON DE ROULE M	MFF	60	X10	C10	6	13.2	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 · MARCHÉ DE GROS TUNIS

Process

Posting

Prepare

Invoice

Release

Request Approval

Navigate

Show Attached

Actions

Navigate

Power options

General

Show more

Customer Name

MARCHÉ DE GROS TUNIS

Stamp Fiscal

☒

Contact

Mandataire : Ous Trabelsi B. Fil

Posting Date

21/11/2025

Accompanying voucher No.

025-123879

Due Date

21/11/2025

Lines

Message

More options

TYPE	NO.	CROSS-REFERENCE NO.	BAR CODE	DESCRIPTION	LOCATION CODE	QUANTITY	CAGE CODE	PACKAGE CODE	PACKAGE NUMBER	GROSS WEIGHT	NET WEIGHT	UNIT OF MEASURE
Item	DC	200005252510		CAJON DE ROULE G	MFF	30	X10	C10	5	61	10	KG
Charge (Item)	MARCOM			Commission Vendeur	MFF	-1			0	0	0	
Charge (Item)	MARHURU			Manutention et Tr	MFF	-1			0	0	0	
Charge (Item)	MAGREN			Redevance SOTUNAG	MFF	-1			0	0	0	
Charge (Item)	MARBM			Taxe Repas Bédier	MFF	-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

1L00231825R10

MONTREAL INTERNATIONAL FISH



DLC / use by :  
1L00231825R10

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# Supply Process & Rearing Cost

The supply process integrates purchases of fry, 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.

## Rearing Cost (Production)

A key feature for farmers is the detailed costing of their lots, available with a single click. This includes costs for fry 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.

← BREEDING COSTS

Search

Recalculate

Show Attached

Open in Excel

More options

Filter

Menu

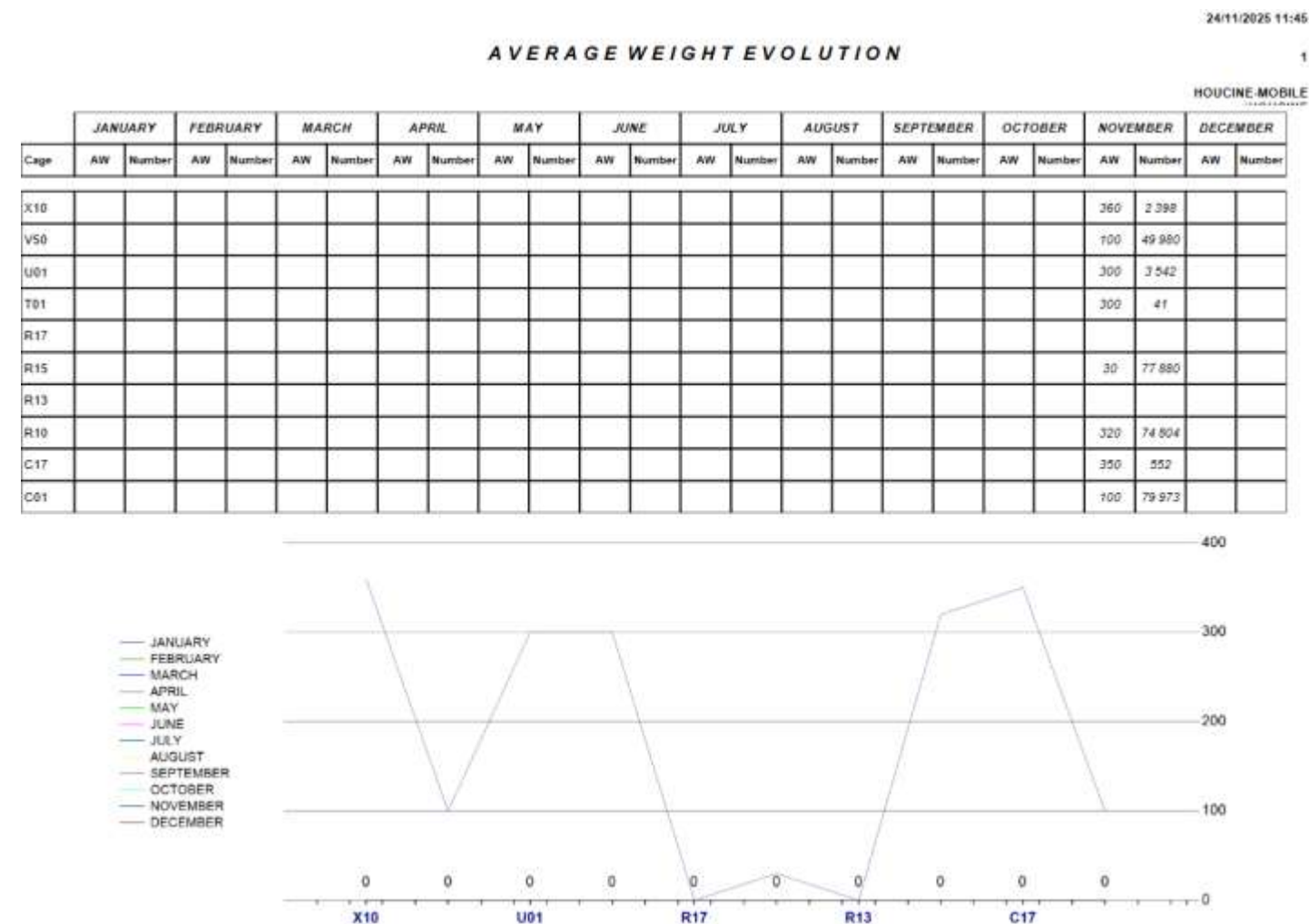
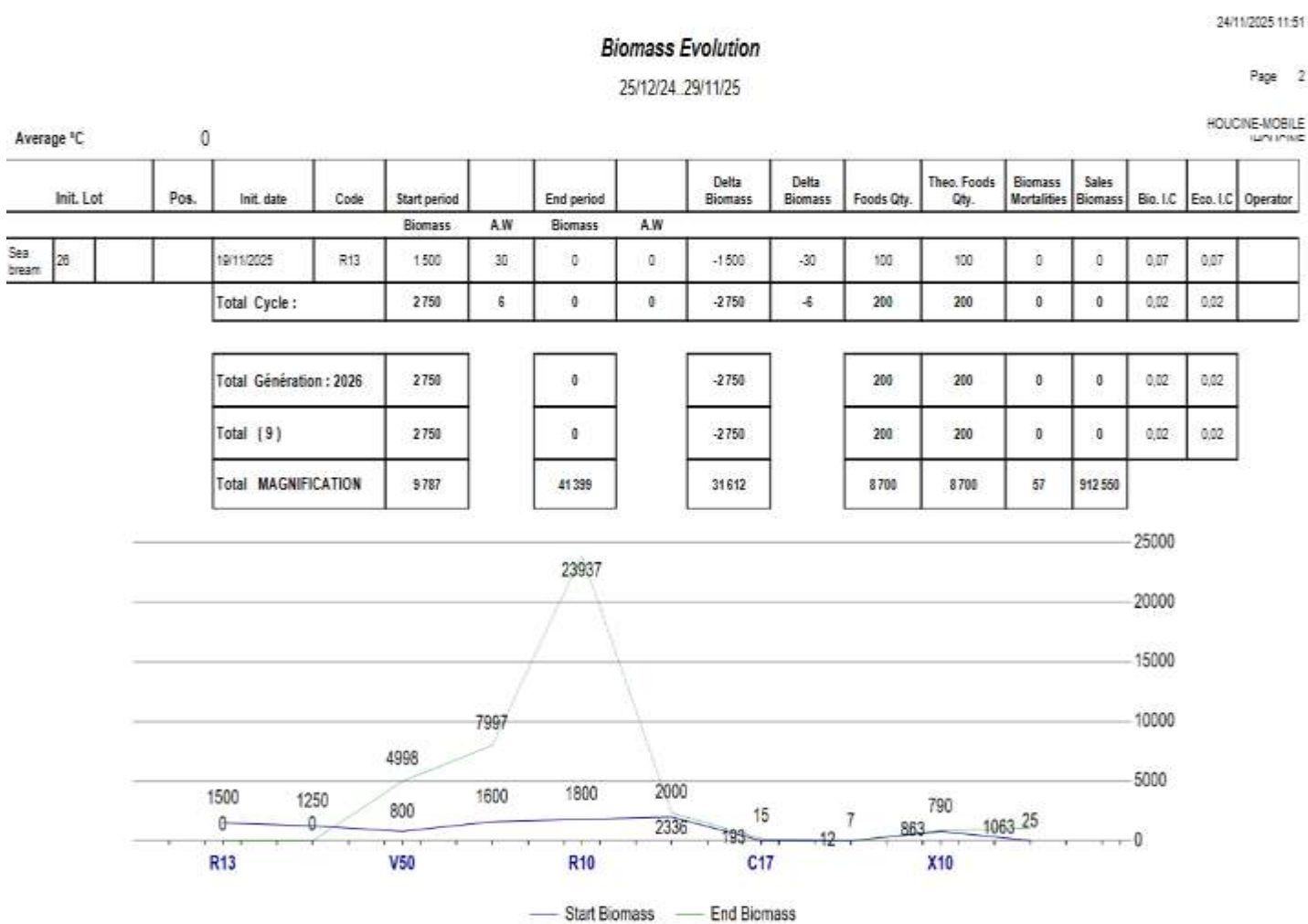
Info

CAGE CODE ↓	GENERA...	LOT NO. ↓	PRODUCTION	FRY COST	FEEDING COST	TREATMENT COST	CAGE & NET COST	STAFF COST	VARIOUS COST	TOTAL PRODUCTION COST	UNIT COST (PIECE)	UNIT COST (KG)
Z10	2017	110417AT...	29 970	13 500,000	0,000	0,000	0,000	0,000	0,000	13 500,000	0,450	45,045
Y10	2017	110417AT...	24 939	12 500,000	0,000	0,000	0,000	0,000	0,000	12 500,000	0,501	100,245
Y10	2016	070416AT...	499 850	350 000,000	0,000	0,000	0,000	0,000	0,000	350 000,000	0,700	17,505
X10	⋮	2019 260219AT...	2 398	0,000	505,350	0,000	0,000	0,000	-1 600,000	2 105,350	0,878	2,744
X10	2017	110417AT...	29 939	13 500,000	0,000	0,000	0,000	0,000	0,000	13 500,000	0,451	45,092
W10	2019	260219AT...	3 626	1 800,000	1 154,800	25,710	0,000	0,000	0,000	2 980,510	0,822	2,740
W10	2016	050416AT...	249 967	175 000,000	13 206,850	38,565	0,000	0,000	0,000	188 245,415	0,753	6,276
V50	2025	311025AT...	49 980	37 500,000	1 567,300	0,000	0,000	0,000	0,000	39 067,300	0,782	9,771
V50	2017	110417AT...	24 925	12 500,000	0,000	0,000	0,000	0,000	0,000	12 500,000	0,502	71,644
V50	2016	110416AT...	14 900	10 500,000	2 195,961	0,000	0,000	0,000	0,000	12 695,961	0,852	7,409
U01	2019	260219AT...	3 542	2 250,000	1 714,555	12,855	0,000	0,000	0,000	3 977,410	1,123	2,246

# Reporting

The reporting module offers relevant follow-up and performance indicators. Reports such as Fry 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.





A traceability report by cage and by Lot number is to edit summary of breeding 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.

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LOTS HISTORY

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Manage

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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	-1405	-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	-2065	-53	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	-

24/11/2025 12:05

HOUCINE-MOBILE

HOUCINE

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TRACEABILITY REPORT

20/02/19...24/11/25

INFORMATION S

Lot :

Band :

Lot No.

Cage :

Vendor :

Arrived on :

C17Sea bass01-2019

Sea bass01-2019

200219ATULC17

C17

Hatchery

20/02/2019

Population :

AW (g) :

Biomass (Kg) :

Laying date :

552

225

124,2

MORTALITY - SKIMMING

	Number	Biomass (Kg)	Mortality rate	Survival rate
Mortality	-43	5,23	7,79	92,21
Nodavirae	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	0	0	0	100
Myxospor	0	0	0	100
TOTAL	43	5,23	7,79	

Sale :

Production :

Index conversion :

273,35

149,31

11,58

FOODING

Food	Start date	End date	Lot No.	Quantity (Kg)
EFICO YM 868 N° 4.5	12/11/2024	18/11/2024	S79580	1318,905
EFICO YM 868 N° 4.5	13/11/2025	21/11/2025	BIO14-123456	300
INICIO N°1.5 mm	26/02/2019	12/11/2024	123456	110,76
TOTAL				1729,665

TREATMENTS

Treatment	Start date	End date	Lot No.	Quantity (Kg)
Vitamine B1	12/11/2024	12/11/2024	123456	15,96
Vitamine C	12/11/2024	12/11/2024	789456	15,96
TOTAL				31,92

MOUVEMENTS

Type - Date - Bande	Origin cage	NBR	BIOM	AW	Provenance	Destination
INT 20/02/2019 Sea bass012019	C17	2000	15	0		Sea bass012019
FIS 15/11/2025 Sea bass012019	C17	-50	0	0		Sea bass012019
FIS 15/11/2025 Sea bass012019	C17	-10	0	0		Sea bass012019
FIS 15/11/2025 Sea bass012019	C17	-20	0	0		Sea bass012019
FIS 15/11/2025 Sea bass012019	C17	-200	0	0		Sea bass012019
FIS 15/11/2025 Sea bass012019	C17	-20	0	0		Sea bass012019
FIS 15/11/2025 Sea bass012019	C17	-25	0	0		Sea bass012019
FIS 15/11/2025 Sea bass012019	C17	-50	0	0		Sea bass012019
FIS 17/11/2025 Sea bass012019	C17	-1000	0	0		Sea bass012019
FIS 18/11/2025 Sea bass012019	C17	-30	0	0		Sea bass012019

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# 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.

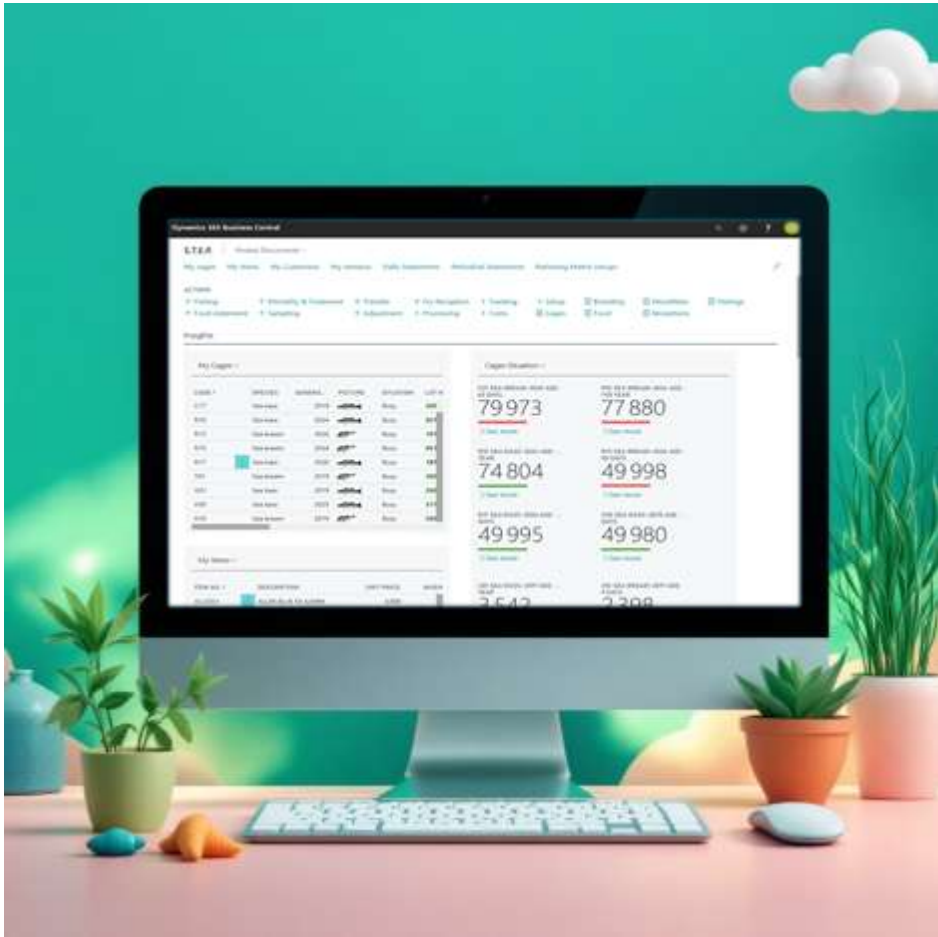
## Traceability

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

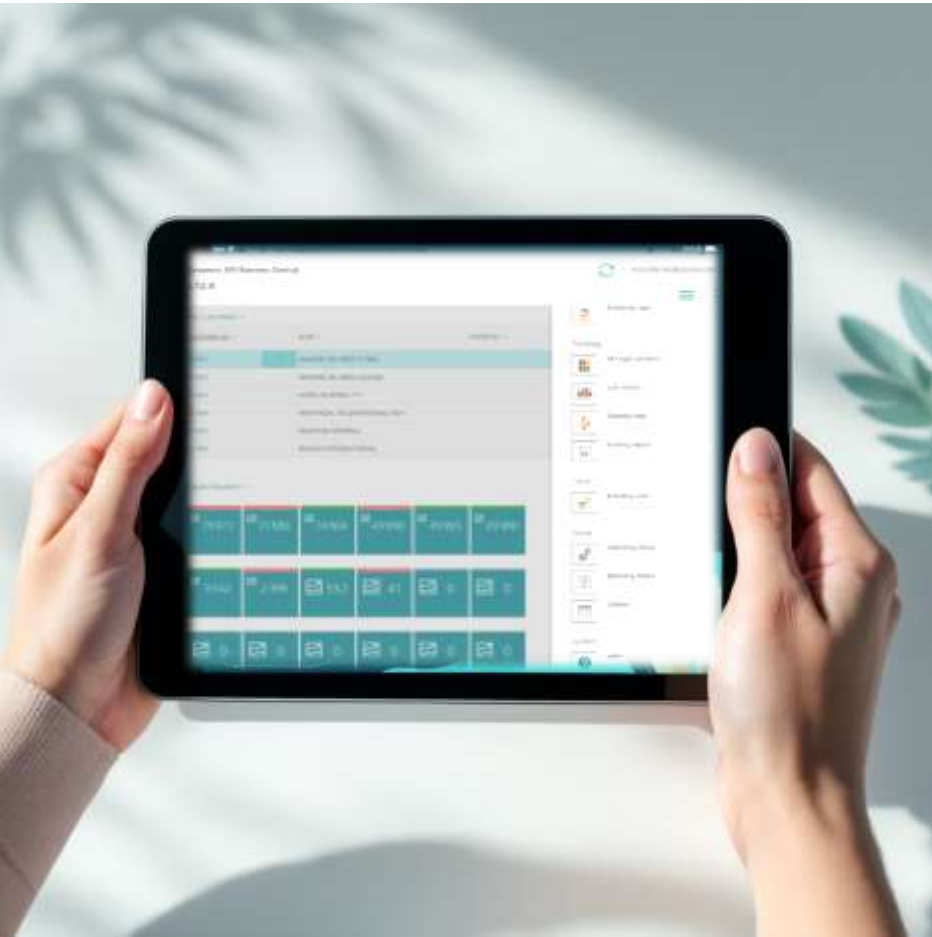
## Accessibility Web & Mobile

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.

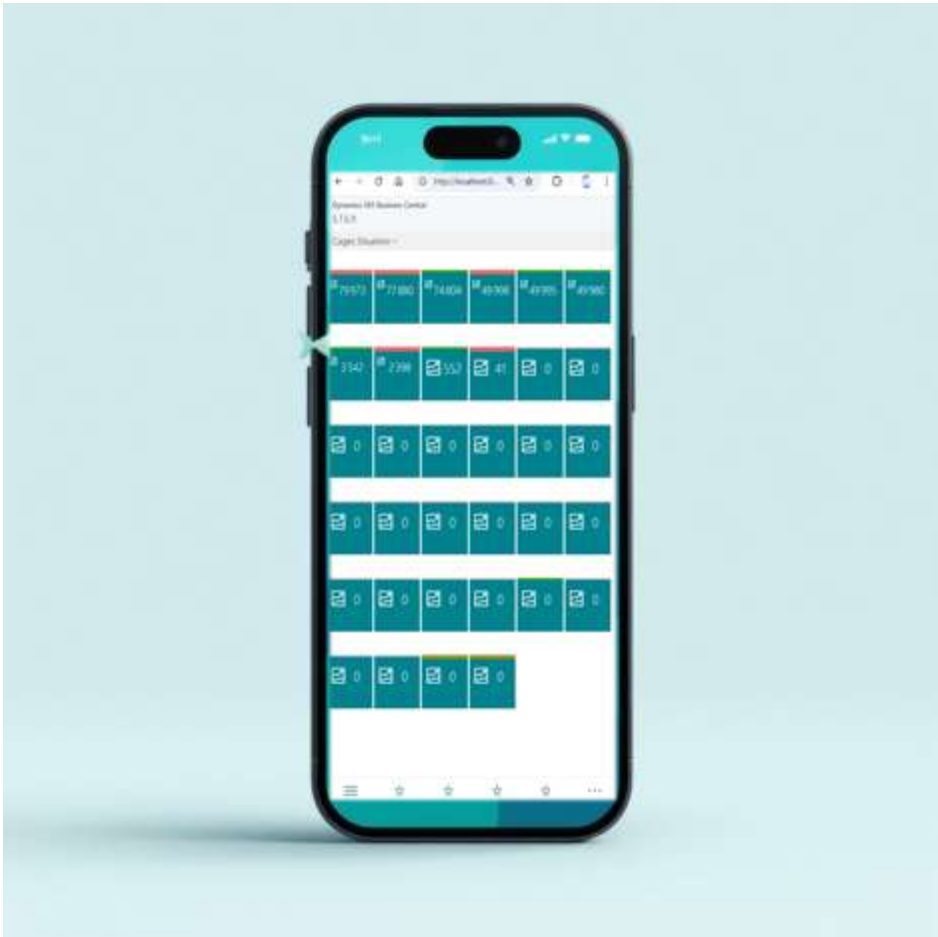
### PC Interface



### Tablet Interface



### Smartphone Interface



# Thanks



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