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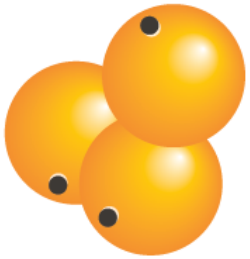

Feeling with Rainbow Trout eyed eggs

Try the difference

AKUA MAKS®

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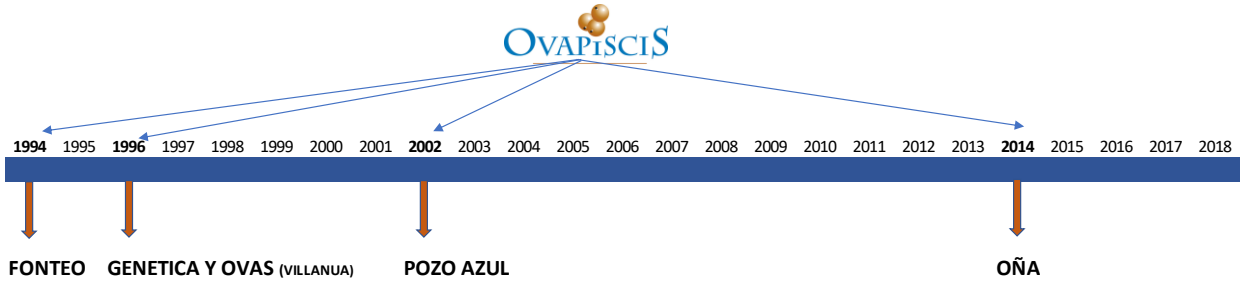
Backgroung

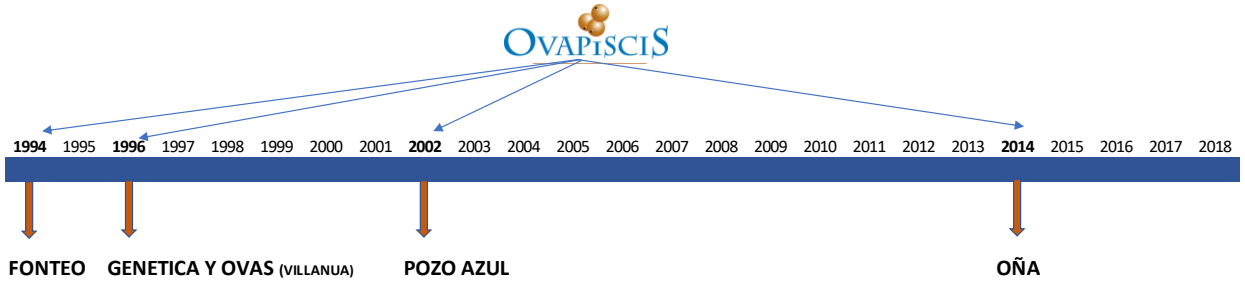
Background

- ✓ The company was born in 1994 as a need of farmers to obtain an estable and quality supply of eggs.



Background

- ✓ The company was born in 1994 as a need of farmers to obtain an estable and quality supply of eggs.



- ✓ Located in the North of Spain:
  - ✓ Lugo – Fonteo -
  - ✓ Burgos – Pozo Azul & Oña -
  - ✓ Huesca – Villanúa -

Background

- ✓ Farm:
  - ✓ Fonteo – Baleira (Lugo)
- ✓ Water source:
  - ✓ Spring Water
  - ✓ Eo
- ✓ Activity:
  - ✓ Head Office
  - ✓ Broodstock
  - ✓ Eyed eggs production

Background

- ✓ Farm:
  - ✓ Villanúa (Huesca)
- ✓ Water source:
  - ✓ Spring Water
  - ✓ Aragón
- ✓ Activity:
  - ✓ Broodstock
  - ✓ Eyed eggs production

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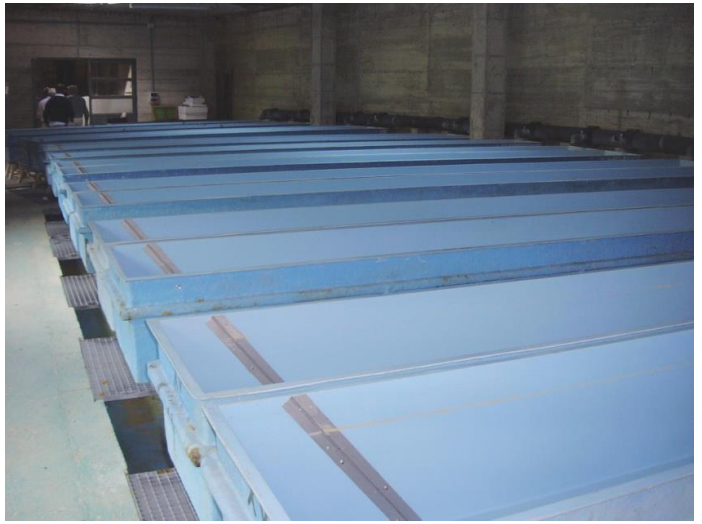
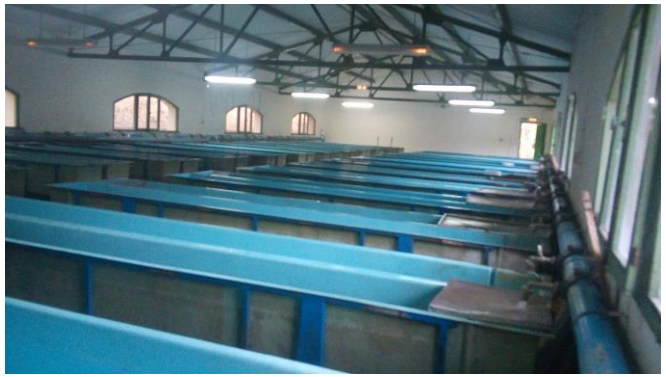
Background

- ✓ Farm:
  - ✓ Covanera (Burgos)
- ✓ Water source:
  - ✓ Spring Water
  - ✓ Rudrón
- ✓ Activity:
  - ✓ Broodstok
  - ✓ Eyed eggs production



Background

- ✓ Farm:
  - ✓ Oña (Burgos)
- ✓ Water source:
  - ✓ Spring Water
  - ✓ Oca
- ✓ Activity:
  - ✓ Genetic Selection



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Product

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Product

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Product

- ✓ All females

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Product

- ✓ All females
- ✓ Two types of eyed eggs:
  - ✓ Diploid
    - ✓ Best for Pan Size Trout
  - ✓ Triploid
    - ✓ Best for Big Trout >2 kg

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Product

- ✓ All females
- ✓ Two types of eyed eggs:
  - ✓ Diploid
    - ✓ Best for Pan Size Trout
  - ✓ Triploid
    - ✓ Best for Big Trout >2 kg

- ✓ Main Characteristics:
  - ✓ Growth
  - ✓ Morphology
  - ✓ Rusticity, adaptability to different growing conditions.
  - ✓ Low FCR
  - ✓ High Survival
  - ✓ Resistance on pathologies
  - ✓ Carcass Yield

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Genetic

Selection Parameters:

Selection Parameters:

1. Mass Selection

Selection Parameters:

1. Mass Selection

2. Self Selection program

Selection Parameters:

1. Mass Selection

Genetic

Selection Parameters:

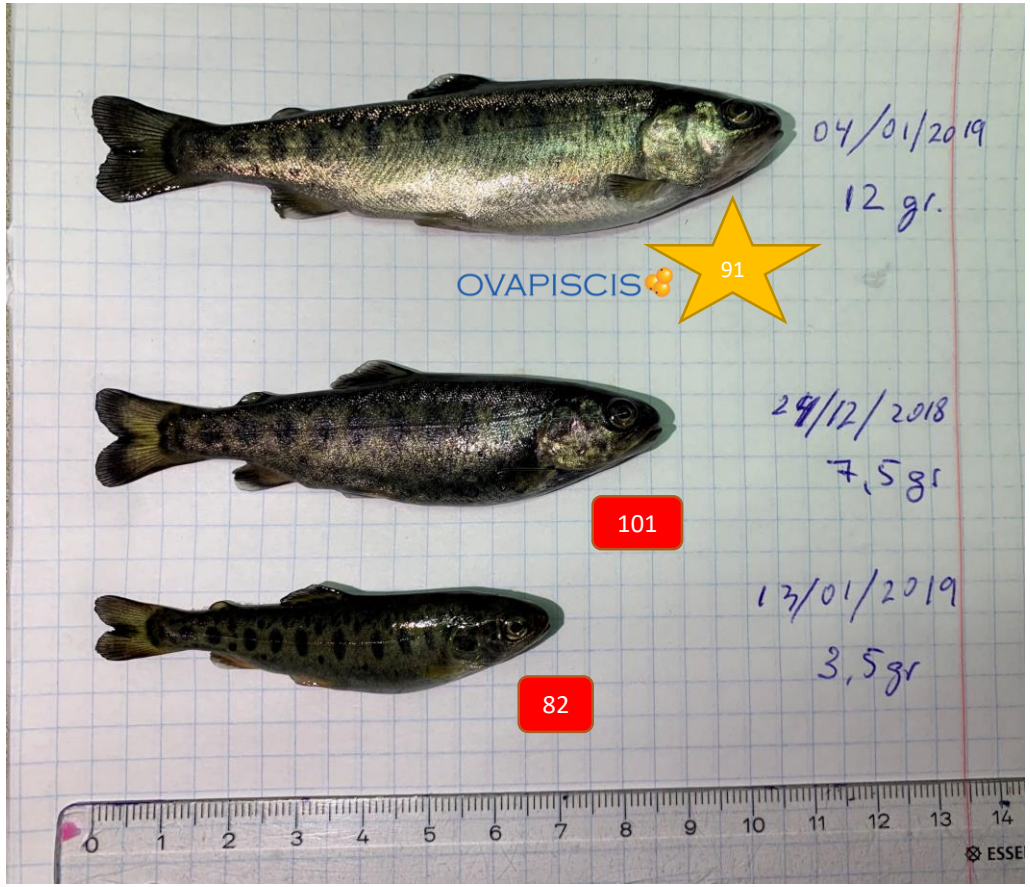
1. Mass Selection

- ✓ Growth

Selection Parameters:

1. Mass Selection

- ✓ Growth



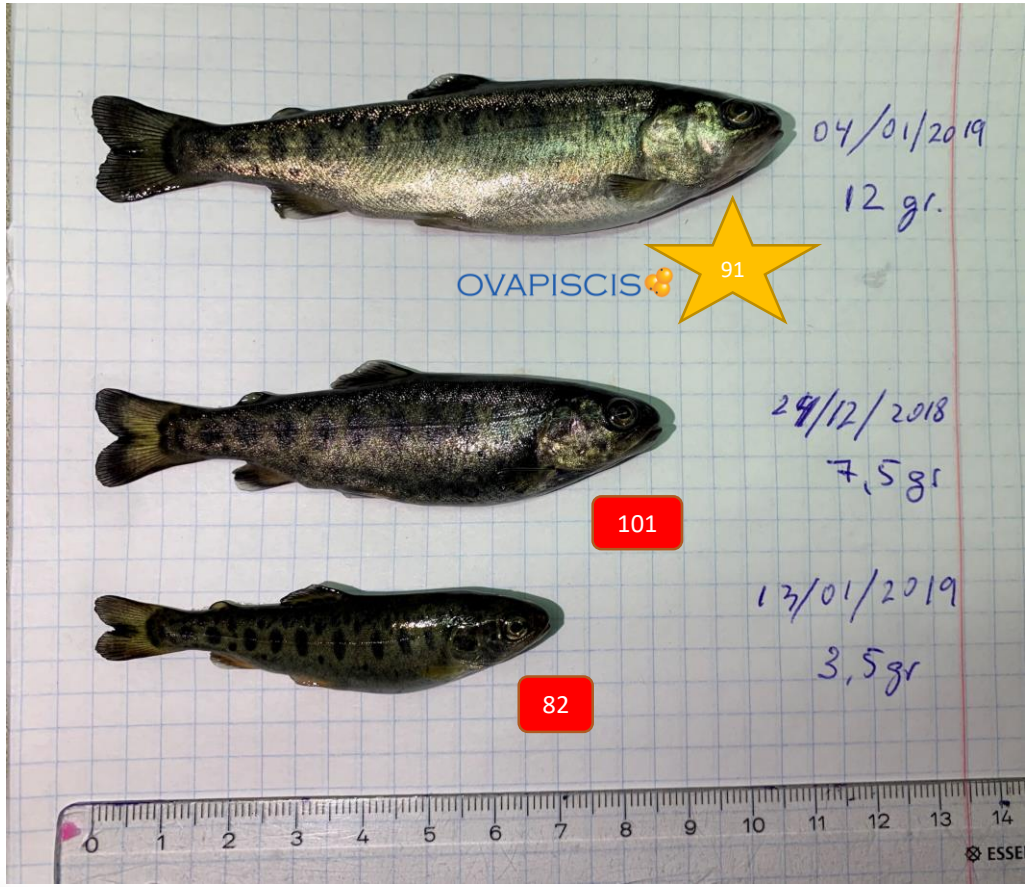
Selection Parameters:

1. Mass Selection

✓ Growth

We have achieved more than 2 kg in 1 year. Under the optimal conditions.

I.e.: One custumer achieve more than 3.5kg in 18 months.



Genetic

Selection Parameters:

1. Mass Selection

- ✓ Growth
- ✓ Qualitative Selection
  - ✓ Morphology

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- ✓ Qualitative Selection
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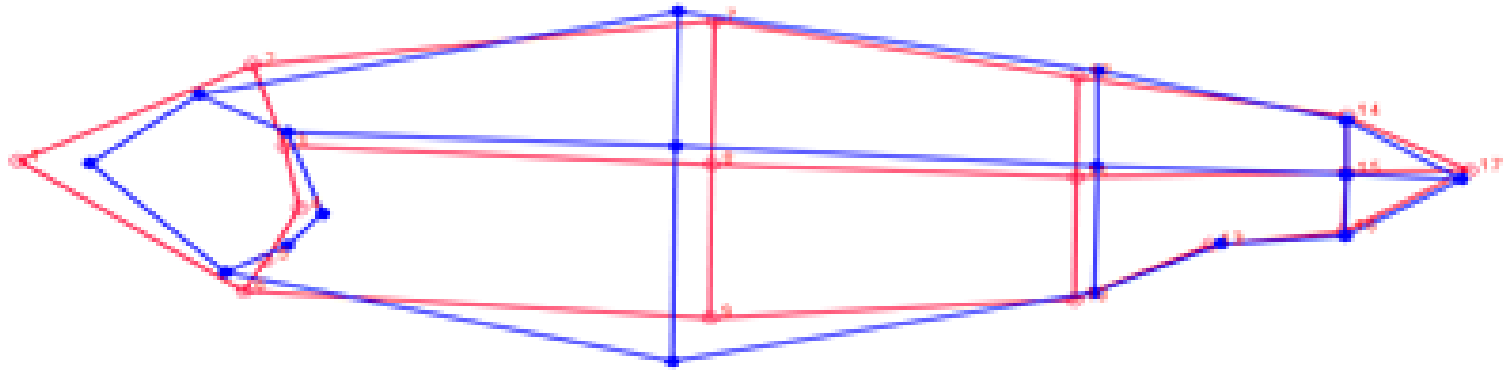

Selection Parameters:

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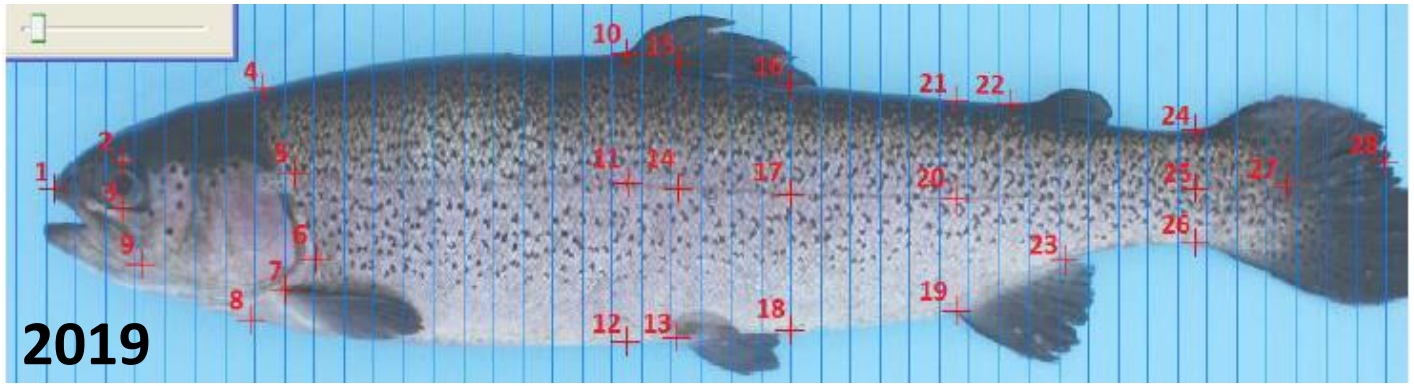

Selection Parameters:

1. Mass Selection

- ✓ Growth
- ✓ Qualitative Selection
  - ✓ Morphology
  - ✓ Rusticity
    - ✓ Adaptability to different growing conditions:
      - ✓ Temperature
      - ✓ Density
      - ✓ Altitude
      - ✓ Farm types (Raceways, RAS, Cages…)

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      - ✓ Farm types (Raceways, RAS, Cages…)
  - ✓ Low FRC

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      - ✓ Farm types (Raceways, RAS, Cages…)
  - ✓ Low FRC
  - ✓ High Survival

Selection Parameters:

2. Self Selection Program

Selection Parameters:

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- ✓ Resistance to stress and diseases

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- ✓ Flavobacter Challenge

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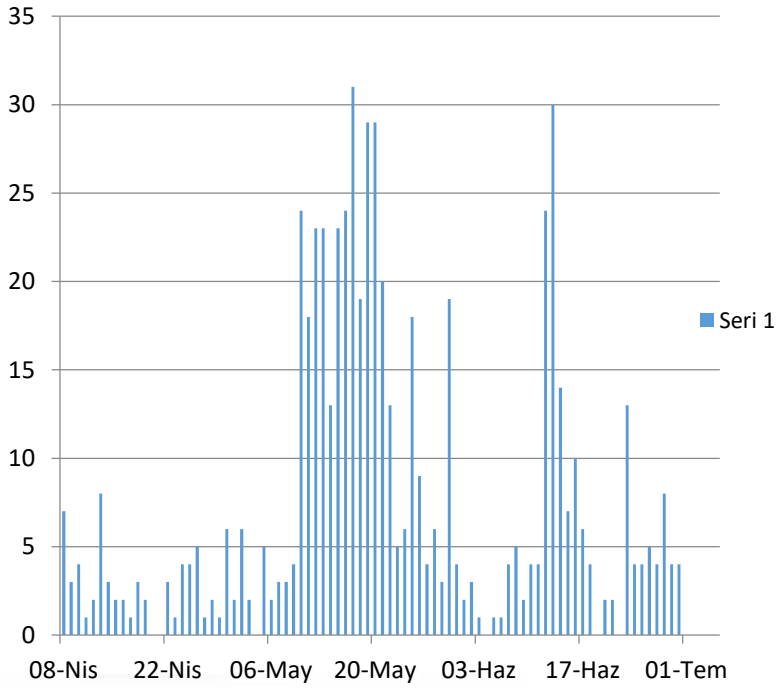

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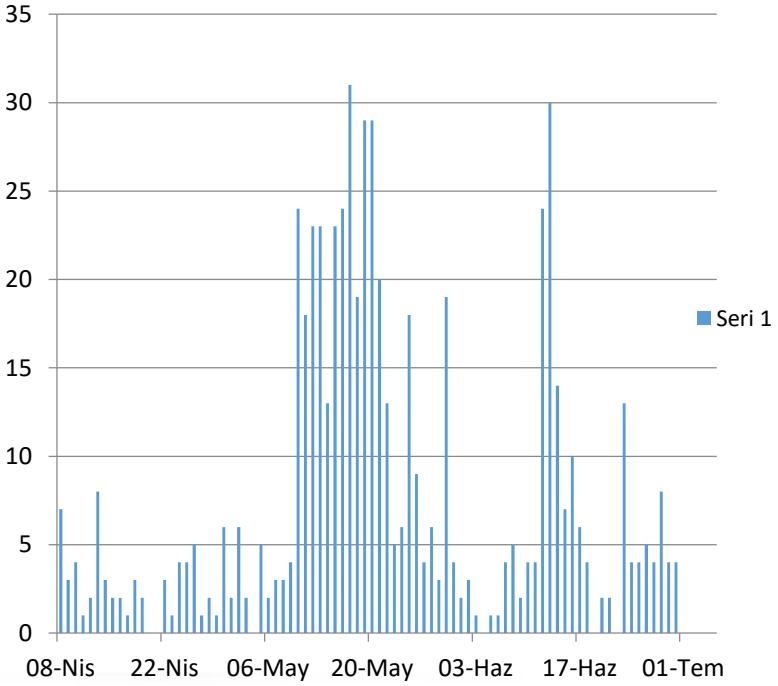

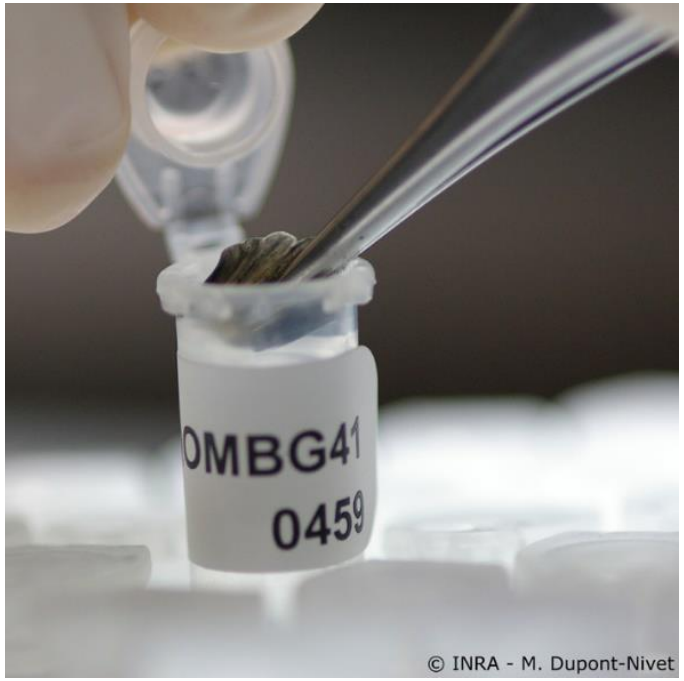

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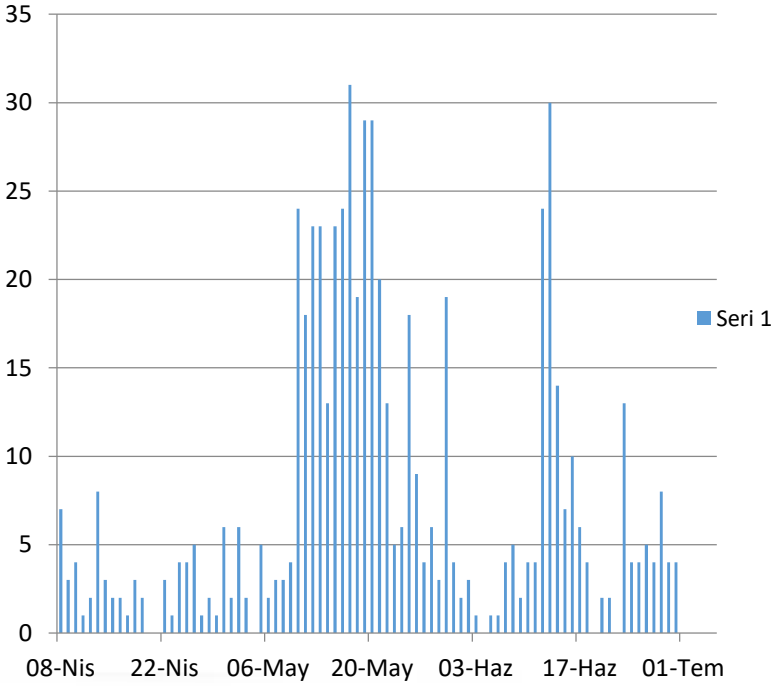

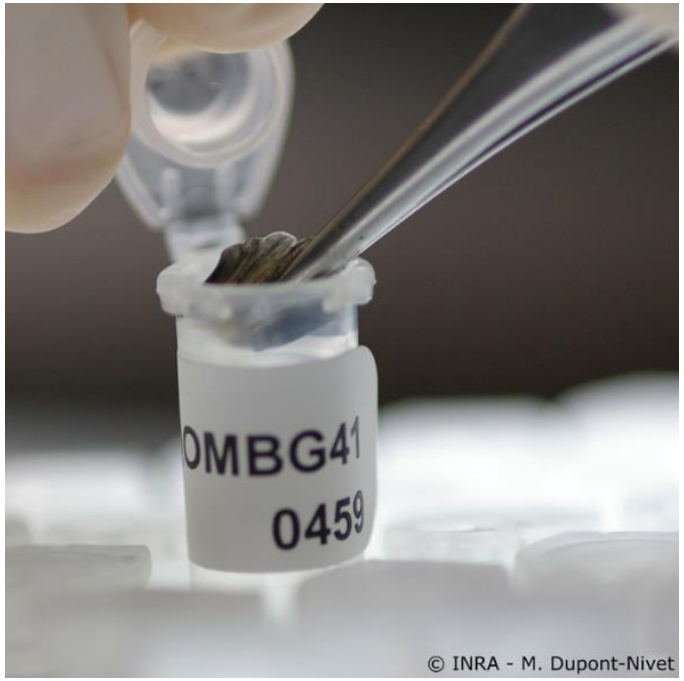

Selection Parameters:

2. Self Selection Program

- ✓ Resistance to stress and diseases
- ✓ Flavobacter Challenge
- ✓ VHS Challenge

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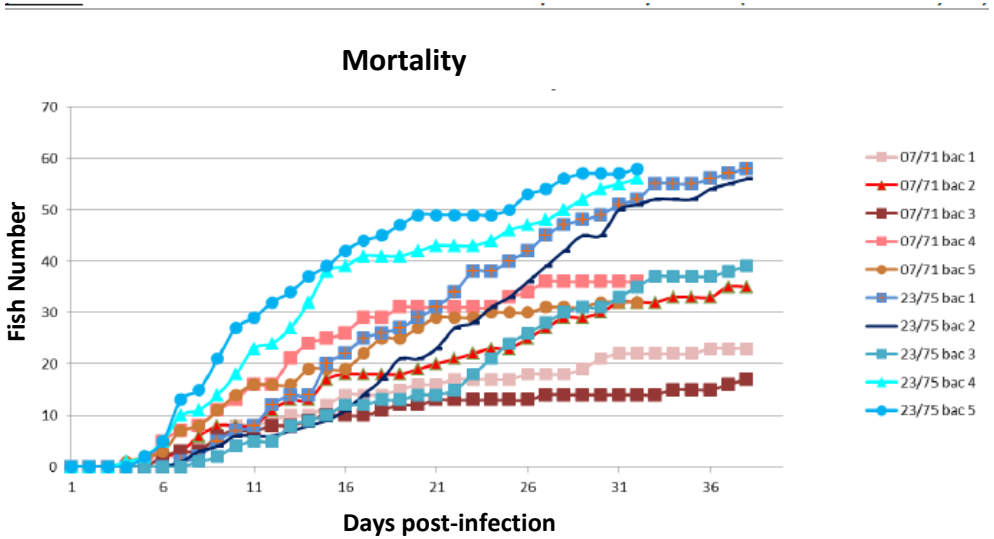
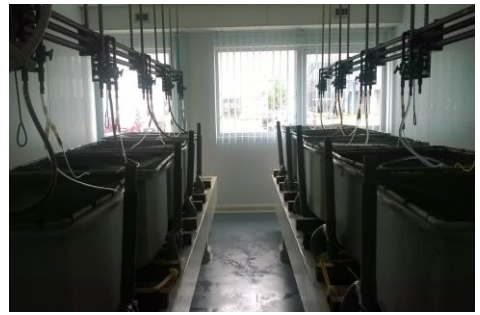
2. Self Selection Program

- ✓ Resistance to stress and diseases
- ✓ Flavobacter Challenge
- ✓ VHS Challenge





Selection Parameters:

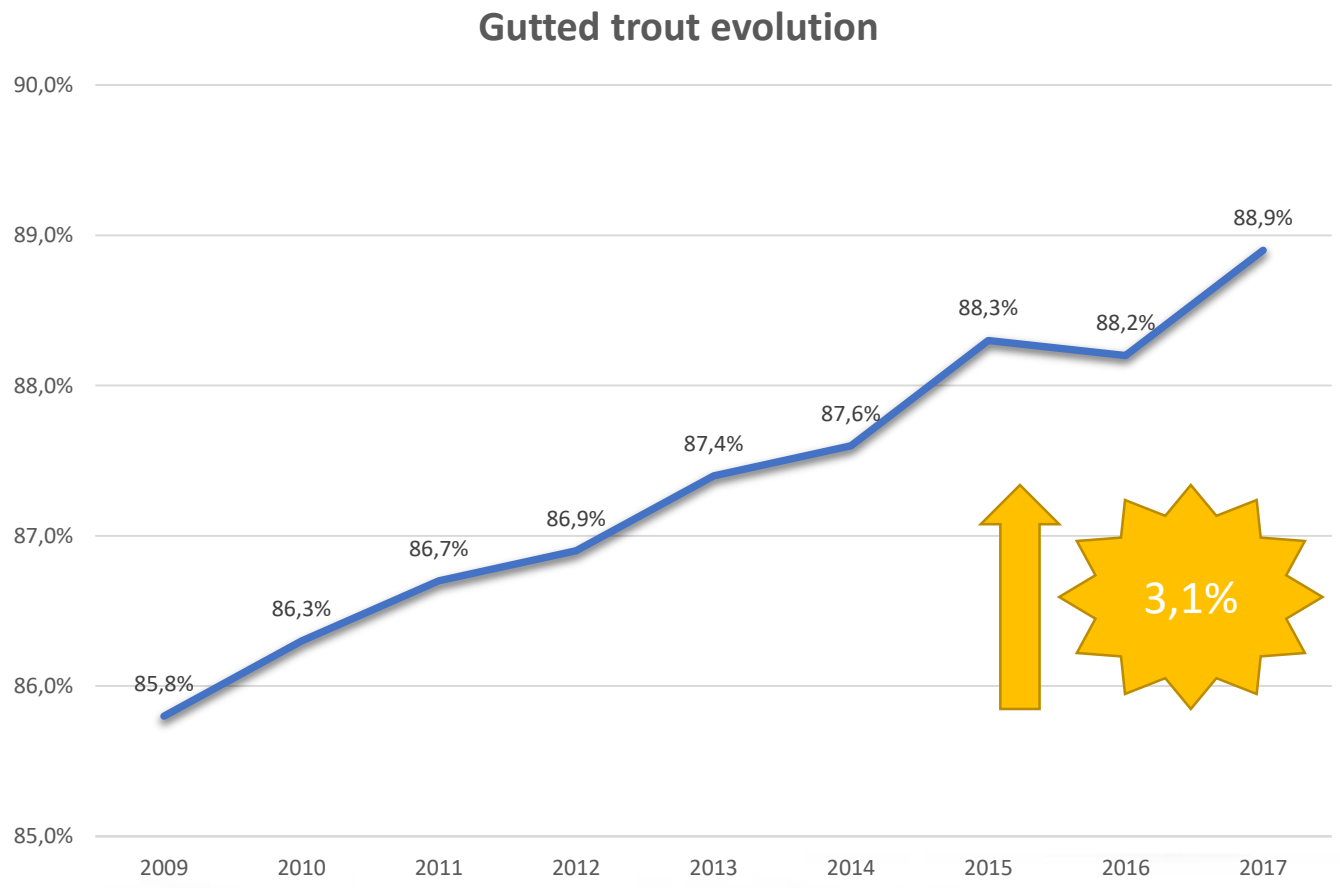
2. Self Selection Program

- ✓ Resistance to stress and diseases
- ✓ Flavobacter Challenge
- ✓ VHS Challenge
- ✓ Carcass Yield

Selection Parameters:

2. Self Selection Program

- ✓ Resistance to stress and diseases
- ✓ Flavobacter Challenge
- ✓ VHS Challenge
- ✓ Carcass Yield



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- ✓ VHS Challenge
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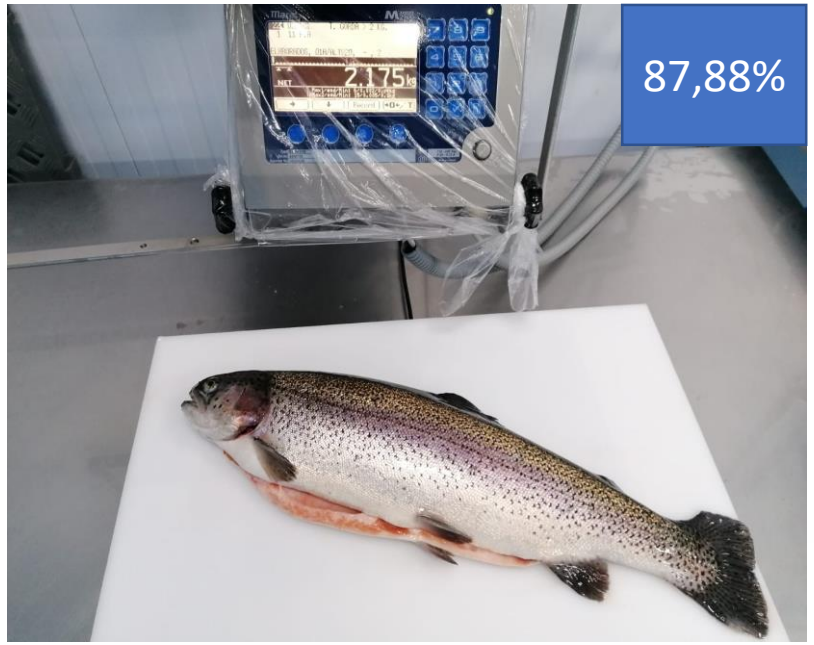

Selection Parameters:

2. Self Selection Program

- ✓ Resistance to stress and diseases
- ✓ Flavobacter Challenge
- ✓ VHS Challenge
- ✓ Carcass Yield
- ✓ Fat & Addominal cavity

Selection Parameters:

2. Self Selection Program

- ✓ Resistance to stress and diseases
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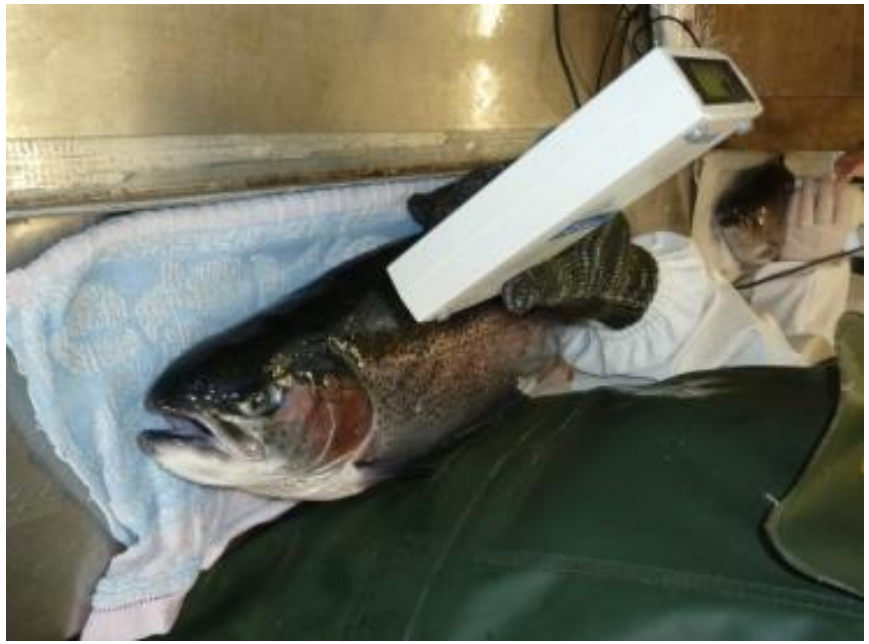
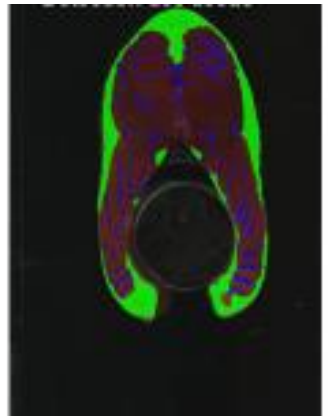
- ✓ Carcass Yield
- ✓ Fat & Addominal cavity





Selection Parameters:

2. Self Selection Program

- ✓ Resistance to stress and diseases
- ✓ Flavobacter Challenge
- ✓ VHS Challenge
- ✓ Carcass Yield
- ✓ Fat & Addominal cavity
- ✓ Eggs number per female (Caviar)

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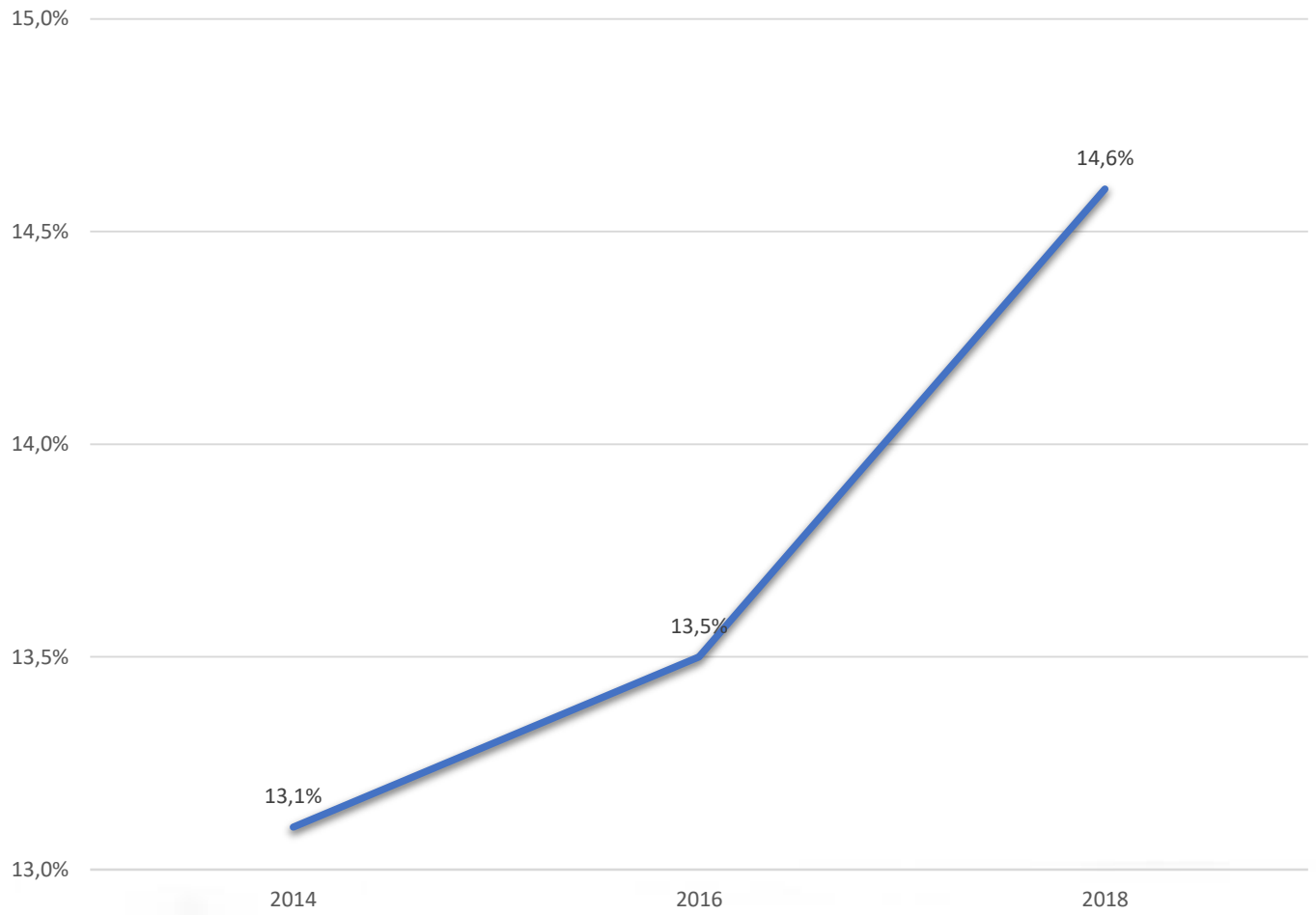
2. Self Selection Program



Trout selection in practice.

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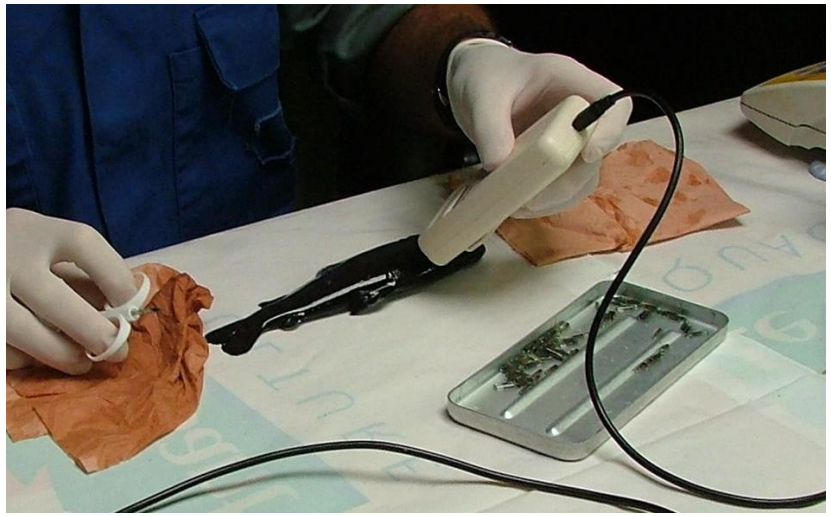
- ✓ Individual tracking of each fish

Trout selection in practice.

- ✓ Individual tracking of each fish



Trout selection in practice.

- ✓ Individual tracking of each fish
- ✓ DNA collection for Genotyping

Trout selection in practice.

- ✓ Individual tracking of each fish
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Trout selection in practice.

- ✓ Individual tracking of each fish
- ✓ DNA collection for Genotyping
- ✓ Control with real results

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Genetic

Trout selection in practice.

- ✓ Individual tracking of each fish
- ✓ DNA collection for Genotyping
- ✓ Control with real results

What is the result?

Our standard Trout

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Friends

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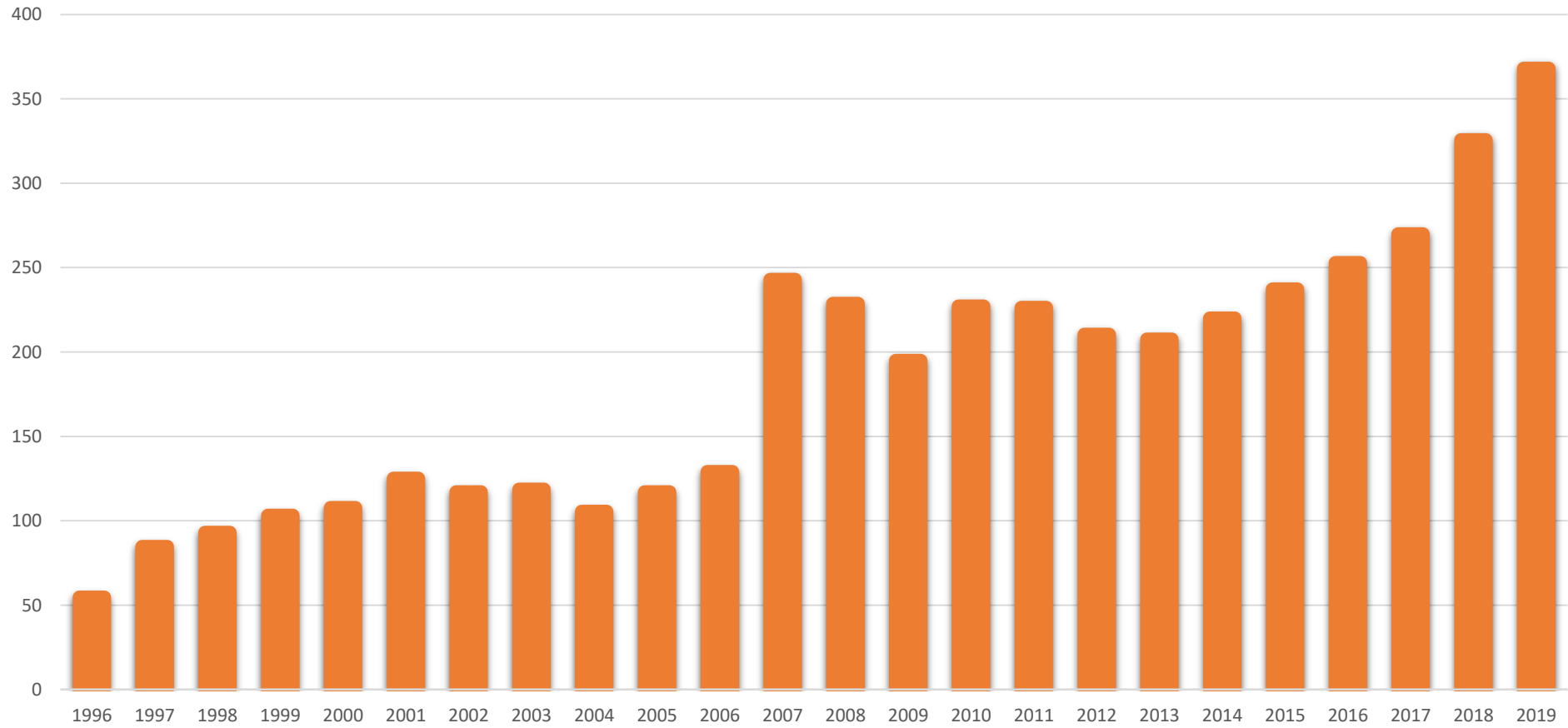
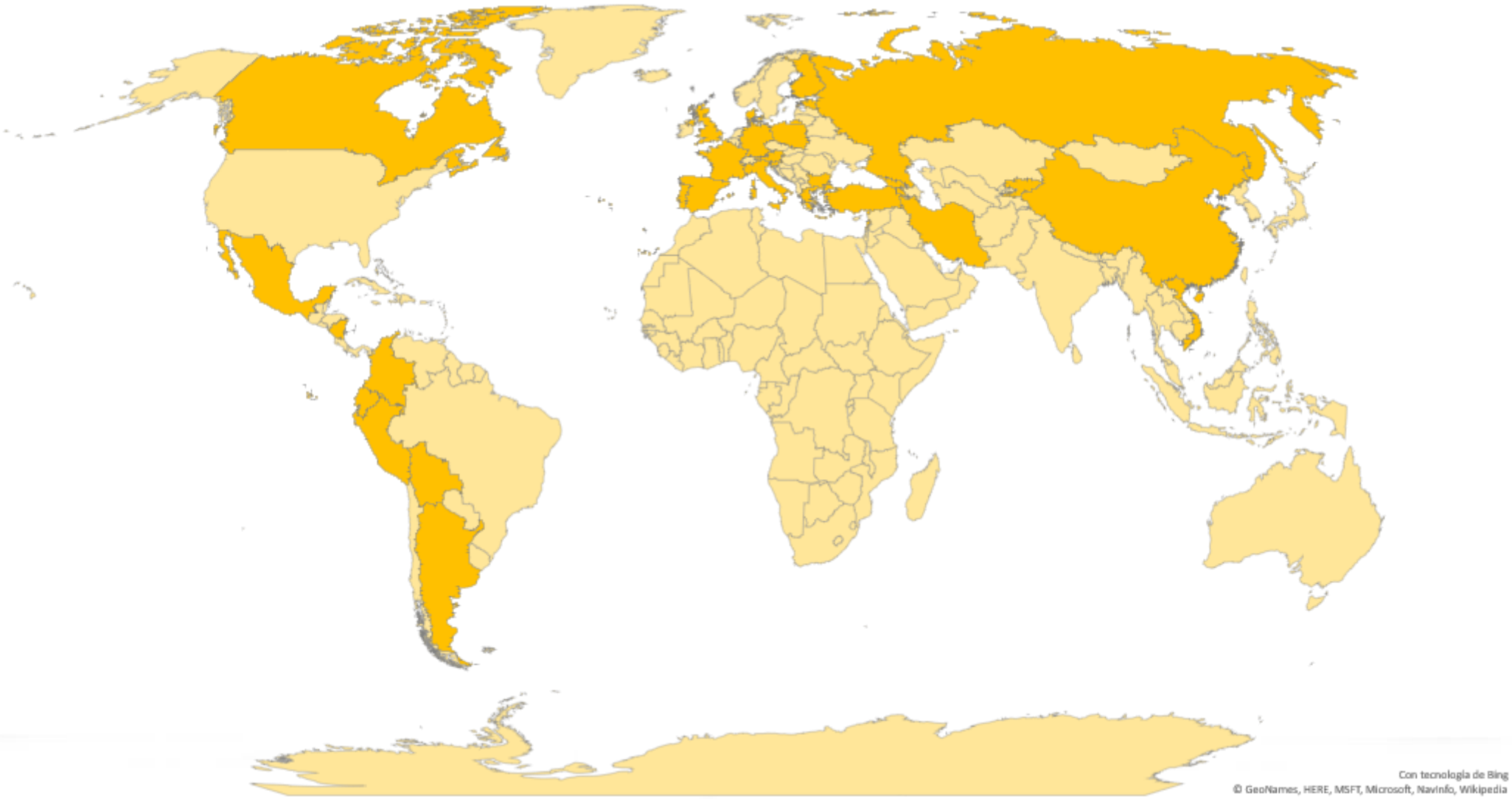
GLOBALG.A.P.

FARMED RESPONSIBLY asc CERTIFIED TM



OVAPISCIS

Friends



Thank you very much for your attention!!

Teşekkür ederim!!