

# Marine fish larvae production in Argentina & future trends

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*Coloquio Internacional "Brechas de Investigación en larvicultura de peces"*

Sede Puerto Montt

Instituto de  
Acuicultura



Universidad Austral de Chile  
*Conocimiento y Naturaleza*



InnovaChile  
CORFO

09-PDAC-6912-02



18 enero 2017



Aquaculture production 4,000 t/y:

Trout (*Oncorhynchus mykiss*)

Pacú (*Piaractus mesopotamicus*)

There is no marine  
finfish aquaculture in  
Argentina

UACH  
Puerto Montt

INIDEP  
Mar del Plata

Artesanal oyster  
(*Crassostrea gigas*)  
and mussels (*Mytilus*  
*sp.*) culture only

US Dept of State Geographer  
Data SIO, NOAA, U.S. Navy, NGA, GEBCO  
© 2016 Google  
Image Landsat / Copernicus

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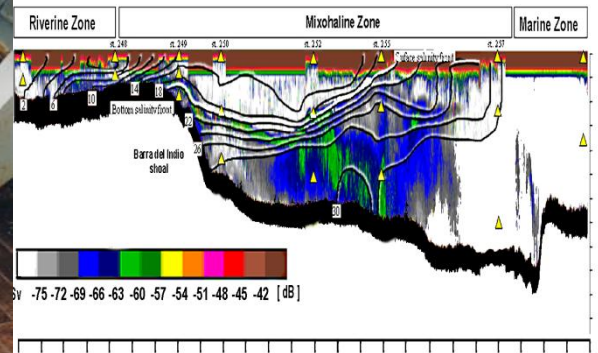
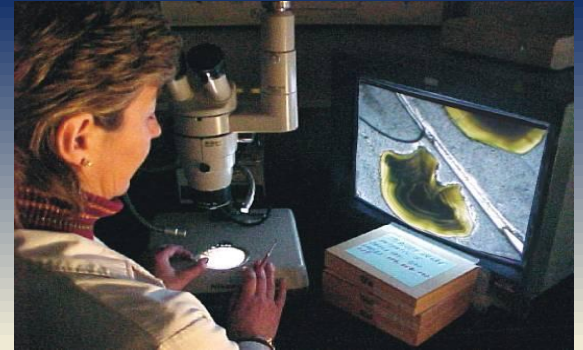
InnovaChile  
CORFO

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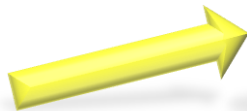


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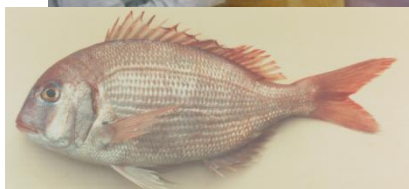
- ✓ Fishery resource evaluation and development of sustainable fisheries and aquaculture.
- ✓ Advice the Enforcement Authority, Federal Fisheries Council and other governmental agencies.







## SPAWNING BROODSTOCKS



Sede Pue  
Instituto  
Acuicultura

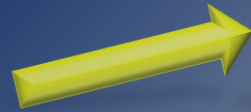
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FUNDACION CHILE

017

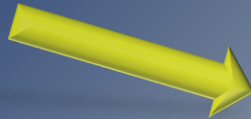


**INIDEP**  
**Mariculture**  
**Est.1994**



**SCIENTIFIC-TECHNICAL  
PERSONNEL**

**Internationally  
trained**



**RESEARCH &  
DEVELOPMENT  
INFRASTRUCTURE**



**NO SPECIFIC  
EQUIPMENT**

**NO FEEDS**



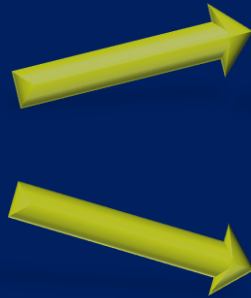
**NO MEDICINES**

**NO VETERINARIES**

**AUTHORITIES  
SUPPORT**

*Aquaculture  
Law 2016*

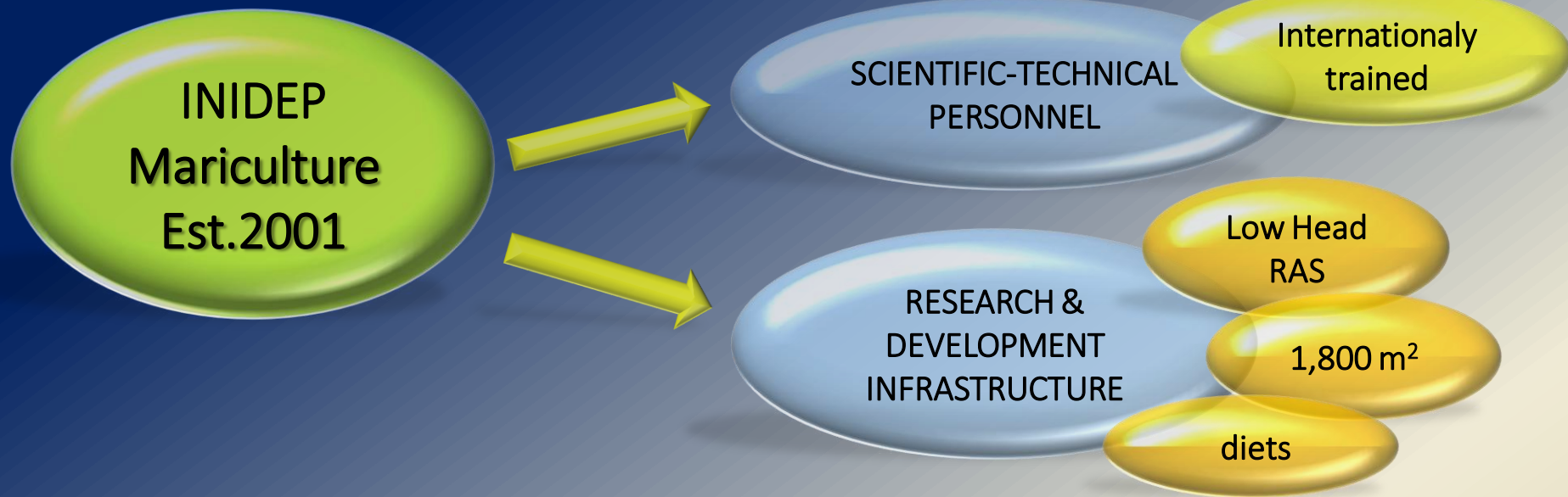


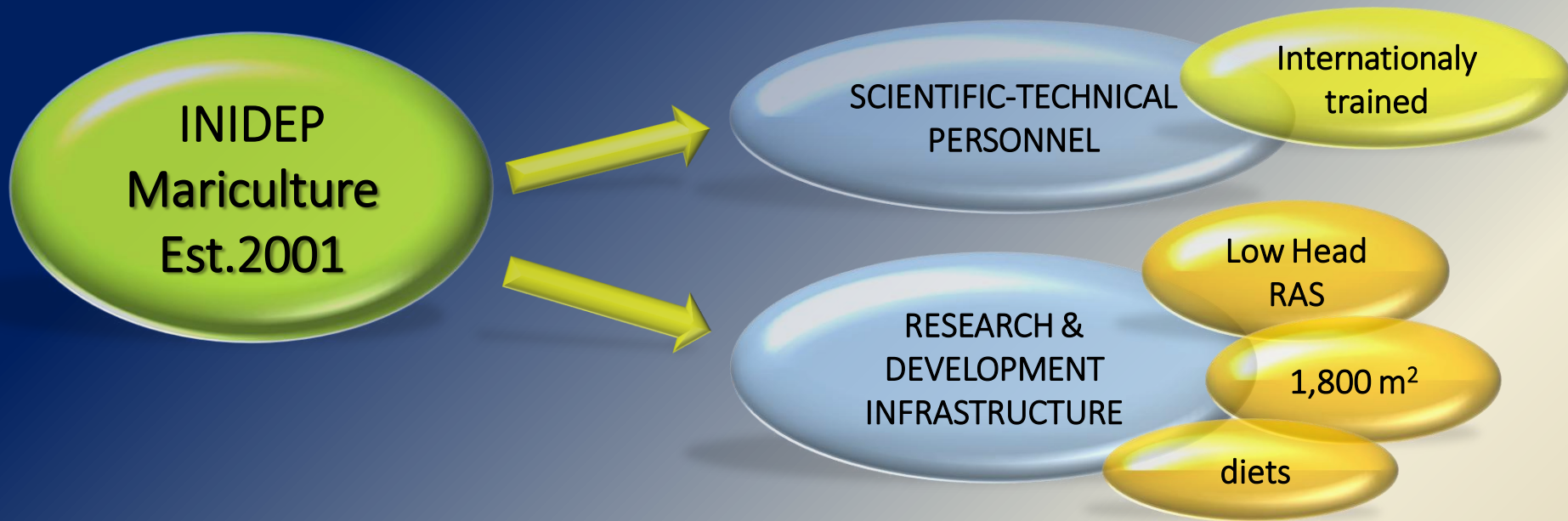


OFCF Japan, 2001



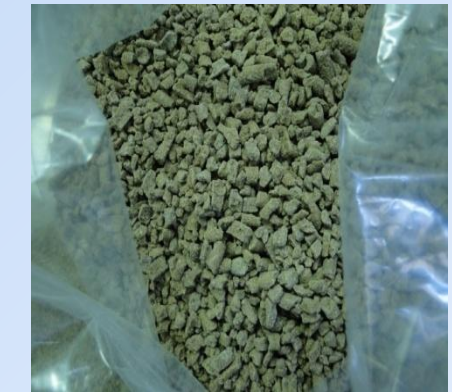








# Hand-made feed



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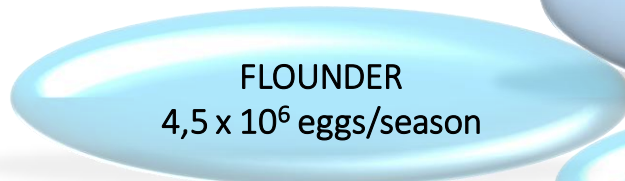
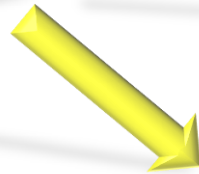
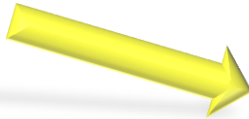
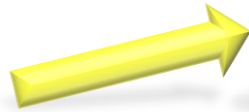


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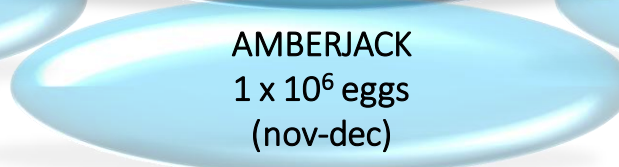


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20% survival day 60



5% survival day 60



41% survival day 60



50-day  
yellowtail  
amberjack  
juveniles

RAS diet test

RAS Larvae culture



*Sustainability of  
larvae production*

OBJECTIVE  
2018-2022

*Strategic  
Project for  
Mariculture  
Development  
INIDEP*

PILOT-SCALE



**CENIDMAR** CENTRO DE INVESTIGACION Y DESARROLLO DE LA MARICULTURA

**CONSTRUCTION of the**  
**MARICULTURE RESEARCH AND  
DEVELOPMENT CENTER**  
**(CENIDMAR) – INIDEP**

*PRODESPA (BID) 1<sup>st</sup>  
stage  
U\$D 3.600.000*



Marca de posición sin título

INIDEP, Mar del Plata

14 km

CENIDMAR

Data SIO, NOAA, U.S. Navy, NGA, GEBCO  
© 2015 Google  
Image © 2015 DigitalGlobe

Google earth

Fecha de las imágenes: 9/9/2015 38°05'52.79" S 57°34'54.64" O elev. 19 m alt. ojo 34.05 km





**CENIDMAR**





1<sup>st</sup> stage CENIDMAR



# CENIDMAR objectives

Production costs  
Engineering- feed  
- Minimum  
Profitable Units

Low head  
SRA

IMTA

Technology  
transfer

Training

Scientific events

Juveniles mass  
production

FLOUNDER

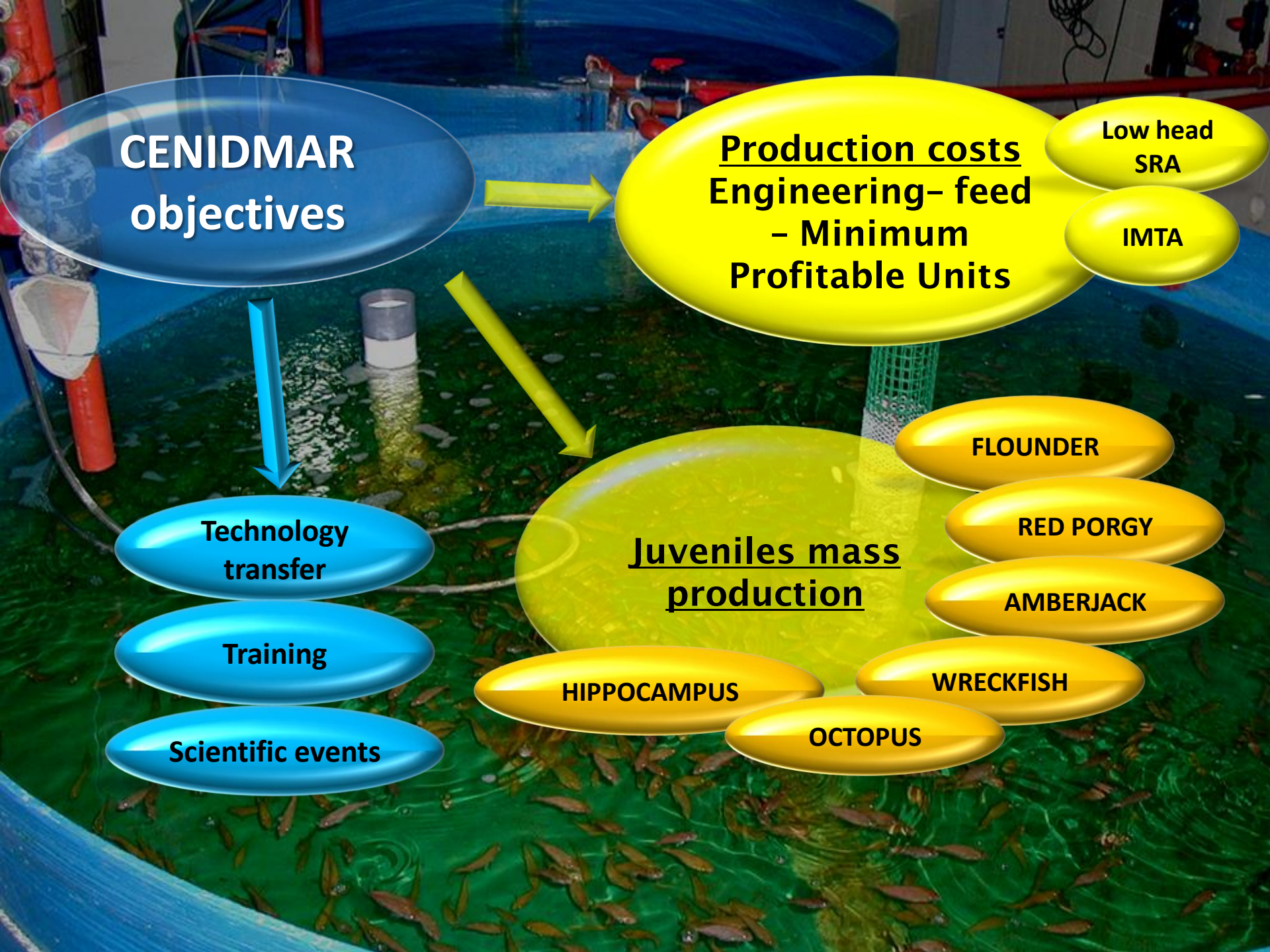
RED PORGY

AMBERJACK

HIPPOCAMPUS

WRECKFISH

OCTOPUS





**High market  
value species**

**Production  
technology  
ongoing**

**PROSPECTIVE**

**Low head RAS  
IMTA  
biorremediation**

**Long coastal line  
& clear waters**

**Interest of national  
and state  
authorities**

**Juveniles mass  
production**

**FLOUNDER**

**RED PORGY**

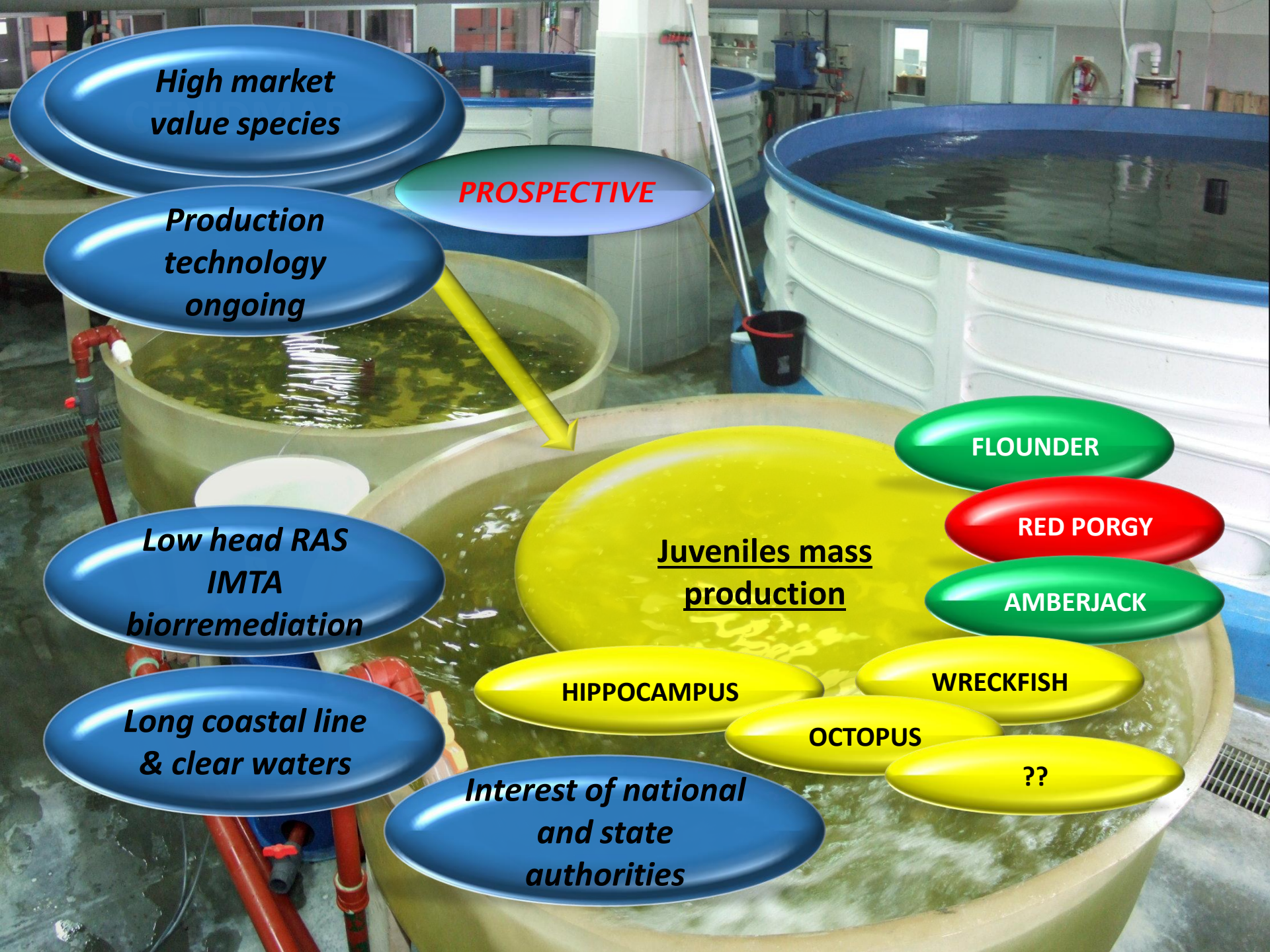
**AMBERJACK**

**HIPPOCAMPUS**

**WRECKFISH**

**OCTOPUS**

**??**





## Future research lines:

- RAS efficiency.
- Improvement of larvae production technologies.
- Development of local feeds.
- Increase survival rate and quality of larvae.
- Genetic improvement of broodstock.

## Interests:

- International cooperation for R+D+i in the field of larvae and juveniles production.

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# Pending assignments in Argentinean aquaculture:

- Aquaculture law to be regulated in 2017.
- Need for processing plants.
- High quality feeds.
- Financial support.
- Production consortia for marine aquaculture

## Gracias..

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