The issue of Octopus farming

One consequence of understanding the octopus mind should be the refusal to subject octopuses to mass production.

Jennifer Jacquet, Becca Franks and Peter Godfrey'Smith

Who am I?

They have a complex nervous system divided between the brain and the arms. Each arm

brain and the arms. Each arm can taste, touch and move independently.

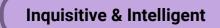
Capable of very complex behaviours, including avoiding pain or remembering areas were they have already hunted and are empty. They have three hearts and their blood is blue because is based on copper.



They are "colour-blind" but they have good eyesight and don't have blind spots. They also use receptors in the suckers for touch and chemical detection. They are capable of interacting and modifying the environment.

They grow fast and the females die after reproducing.

8 reasons not to farm me



Their remarkable intelligence would lack of sensory input in a the barren environment of intensive aquaculture

Solitary

High stocking densities
means big crowds
which can lead to
aggressions and
cannibalism

Unknown welfare needs

Is an attempt to farm a wild animal. We don't have enough knowledge to met their needs in captivity

Fragility

A fragile skin and a jet-propelled locomotion makes easy that they get injured and experience pain in aquaculture

lity Carnivorous

lled
Diets based on
fishmeal and fish oil
will make the cost of
producing octopus
high and not stable.
It will compete with
other species
already stablished.

No protective legislation

There are no regulations on octopus welfare and farming practices which allows for an unregulated activity. Who is responsible?

Inhumane slaughter

There aren't scientifically proven methods. All methods reviewed for wild-caught cause suffering. Due to their nervous systems this a huge difficulty.

Against Sustainability strategy

EU Strategic
Aquaculture Guidelines
encourage reduction of
fishmeal and fish oil
from wild-caught fish
and to diversify into
species that do not need
it. Octopus diet would
increase pressure on
fisheries and contribute
to food insecurity.

High Mortality

1 in 5 would die

100K

Unsustainable

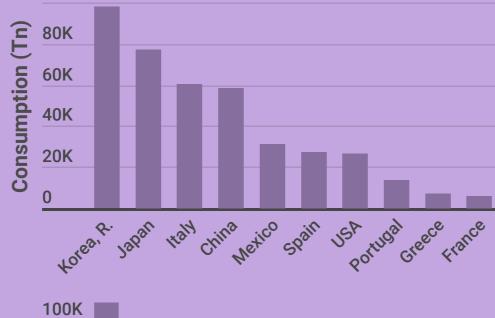
3 kg of feed to gain 1 kg

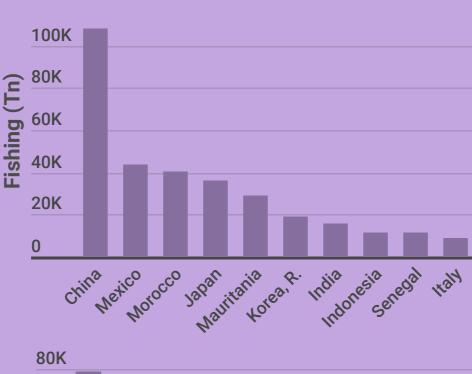
The reality of economic development

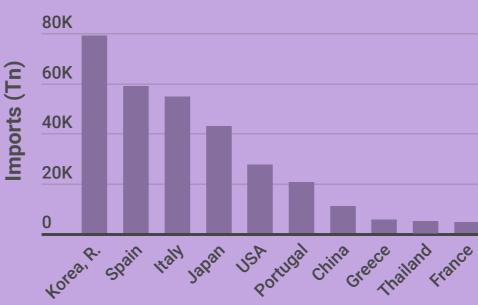
Why the desire for aquaculture?

- Fishing and consumption are delocalized
- Worldwide increase of consumption
- Increase of price

Thought that it will be very profitable







Where is developing?

Spain
USA
Japan
Mexico

Issues not resolved

High mortality rates.
Cannibalism and
escapes.

Reproductive cycle.
Parents replaced from the wild

Feeding during early stages. Requires life prey, difficult to obtain.

life cycle.

Feeding during the whole

Rearing method needs improvement (tanks, light...)



For more information on the issue of farming octopus refer to:

Octopus factory farming: a recipe for disaster