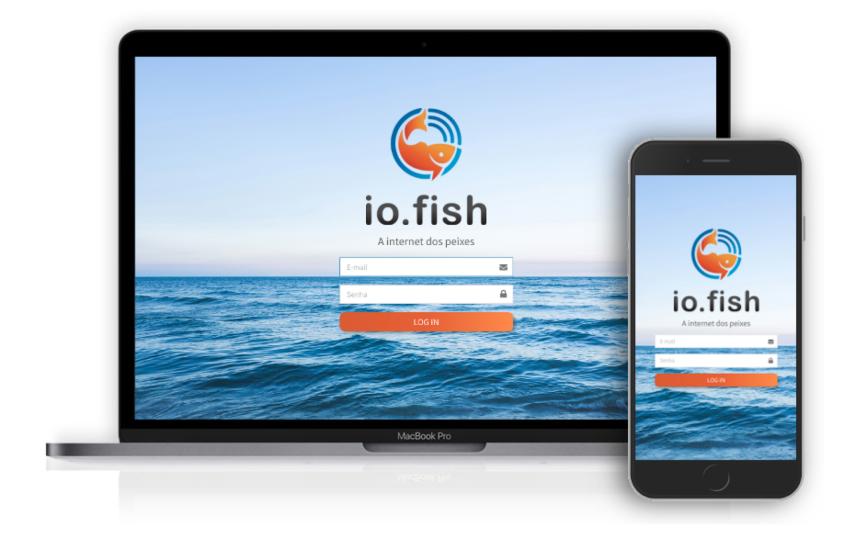


The Internet of Fish

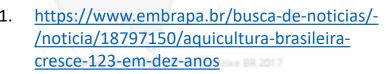
Monitoring Solutions For Aquaculture



Brazilian Aquaculture Potential



- ✓ Growth of 123% in 10 years (2005-2015). [1]
- ✓ FAO estimates growth of 104% from 2016-2025. [2]
- ✓ 4th largest producer of tilapia. Behind of Indonesia and
 Egypt that together have less than ¼ of Brazilian area.
- ✓ Brazil has natural potential. Abundant water resources.
- ✓ Precision aquiculture not largely applied.
- ✓ Production still very primitive. There is a lot to explore.



2. http://www.fao.org/brasil/noticias/detail-events/en/c/423722/



EGITO BRASIL* FILIPINAS TAILÂNDIA BANGLADESH VIETNÃ

800 357 311,7 300 200 188

MIL MIL MIL MIL MIL MIL



MILHÃO

What happens inside of the water?

Daily analysis - 12%

3x week analysis - 20%



36% Track the results

64% Do not track the results

16% don't do any kind of analysis!

52% analyze only 1-2 times per month!

Based on André's survey with aquaculture producers







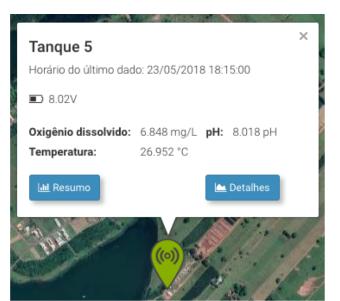
Entire South America Has Potential for AQUACULTURE











Tanque 5

23/05/2018 23/05/2018 18:30:57 18:15:00

ÚLTIMA COMUNICAÇÃO ÚLTIMOS DADOS

Últimos dados

Oxigênio dissolvido	6.848 mg/L
рН	8.018 pH
Temperatura	26.952 °C
■ 8.02V	<u></u> Visualizar









Water Monitoring



Bluetooth Probes

- ✓ Probes connected to bluetooth devices.
- ✓ User collects data from probes using our app.
- Upload the data to the platform as soon as it gets internet connection.
- Organized, centralized, safe and insightful data.
- Cheaper solution.
- ✓ Exchange use of paper an pen for reliable data.

Water Monitoring





IoFish Floaters

- ✓ Probes connected to data logger inside of the floater.
- ✓ Automatic data collection and submission over GSM connection.
- ✓ Solar panel charging.
- ✓ Market price: ~USD 1500 + Probes
- ✓ High amount of data.
- ✓ Powerful analytics.
- ✓ Real time decisions.
- ✓ Alarms and relay triggers (power aerators).
- ✓ Good cost benefit. Affordable despite of price.



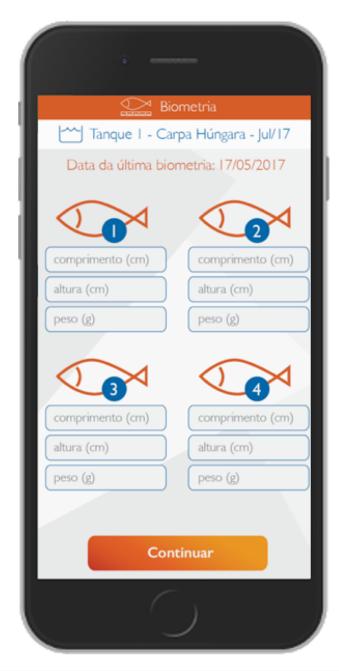


Water Monitoring



Chemical kits

- ✓ Free app for manual inputs.
- ✓ Partner to water quality kits sellers.
- Create and support the culture of water monitoring and technology in aquaculture.
- Offer Basic and Pro upgrades with extend features.
- ✓ Create connections and suggest use of floaters and bluetooth probes.
- ✓ Extinguish paper and pen from the field.



Biometry



- ✓ Inform population size.
- ✓ Submit measurement data every week, two weeks or month.
- ✓ Submit deaths.
- ✓ Estimate production weight.
- ✓ Suggest ration.

Modularity





- ✓ ioFish is built to be modular.
- ✓ Customizations are easy to implement and fast to deploy.
- ✓ Customer pays only what he uses.
- ✓ New features are added really fast.

Work in Progress / Future Ideas





- ✓ Image recognition biometry.
- ✓ Underwater camera automatic biometry.
- ✓ Water monitoring data insights.
- ✓ Production traceability. Am I consuming fish from reliable sources?
- ✓ Get cheaper production prices for our hardware and make it even more affordable.
- ✓ English version.

Why Us?

- ✓ We are really interested in HATCH connections and know how.
- ✓ We do not necessarily need the money, but... Hatch's investment along with the program indeed would accelerate our work and help us to get results faster.
- ✓ We are certain of our team potential for what we are doing.
- ✓ We are determined to the South America market and ambitious for the rest of the world.

