



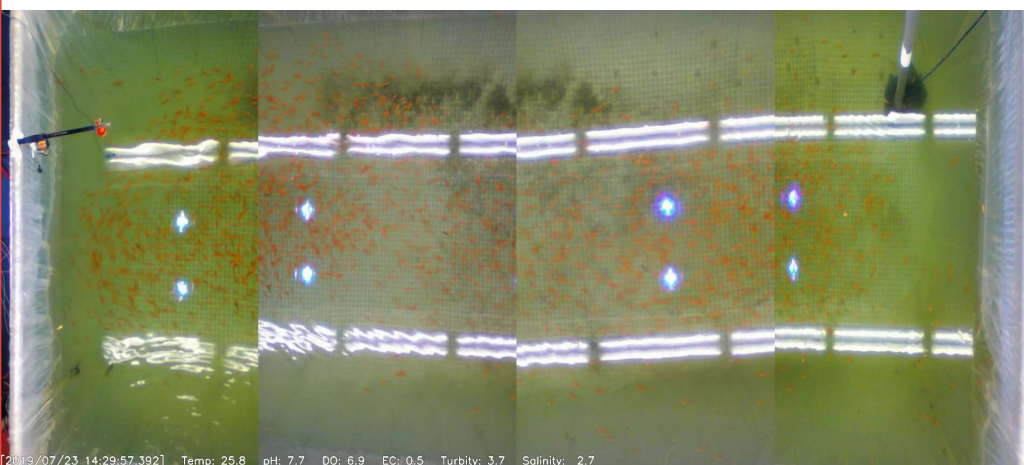
<https://www.hmrc.co.jp/en/>

Automating Primary industries with Leading edge Remote Technologies

Biogroup Control

Biogroup Control uses the contactless system to control the direction in which schools of fish swim, achieving automation and raising the efficiency of fish-cultivation processes.

By flipping a single switch outside the holding pond, aquaculture operators can gather or divide schools of fish. This solution helps avoid dangerous underwater work areas while automating and raising the efficiency of sorting and catching fish. This solution avoids underwater and other dangerous work while automating and raising the eff

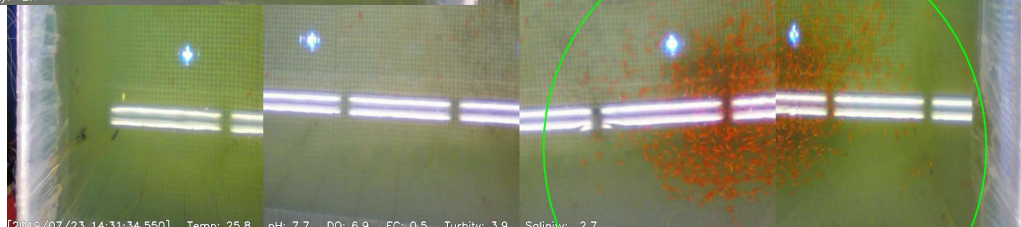


before (fishes were scattered)



Biogroup Control System

Method Distributed Multi-channel FES
Add-on remote-control, camera, sensors
Tank 5.0×2.5×1.0 [m]
Fish Carassius, about 3000
Power AC 100 [V], 50 [W]



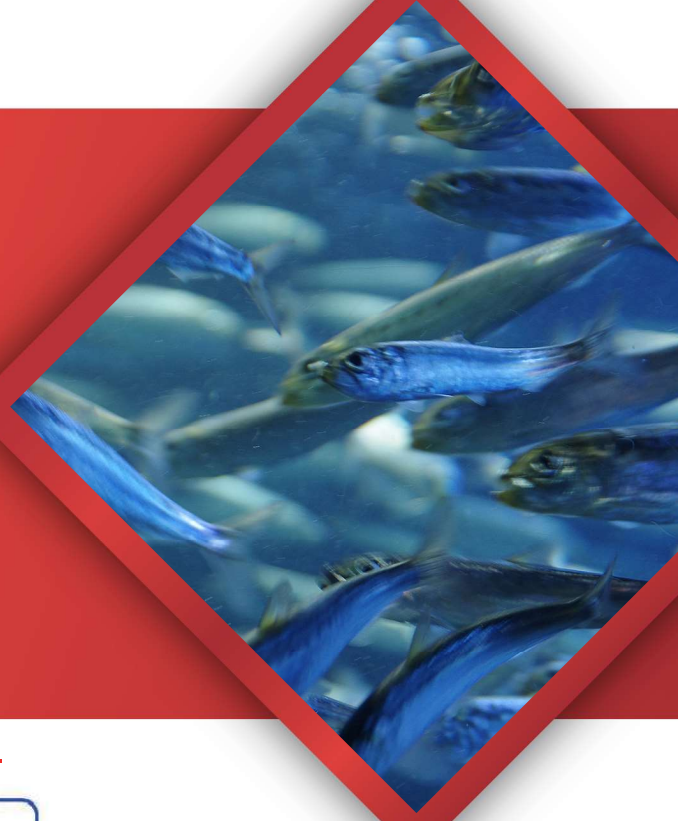
1.5 min later (fishes were gathered)

To solve world hunger by automating food production

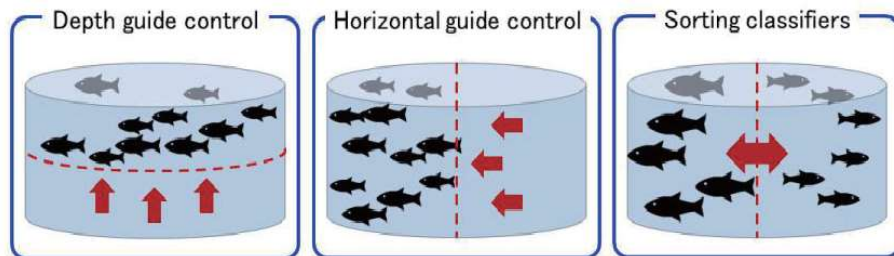
According to United Nations forecasts, the Earth's population will grow from 7.6 billion in 2019 to 9.7 billion in 2050, an increase of 2.1 billion people over 30 years.

Expanding food production at the same rate as population growth will be a challenge. Foodstuffs we take for granted today, such as fish, meat and cereal, may become scarce in the future.

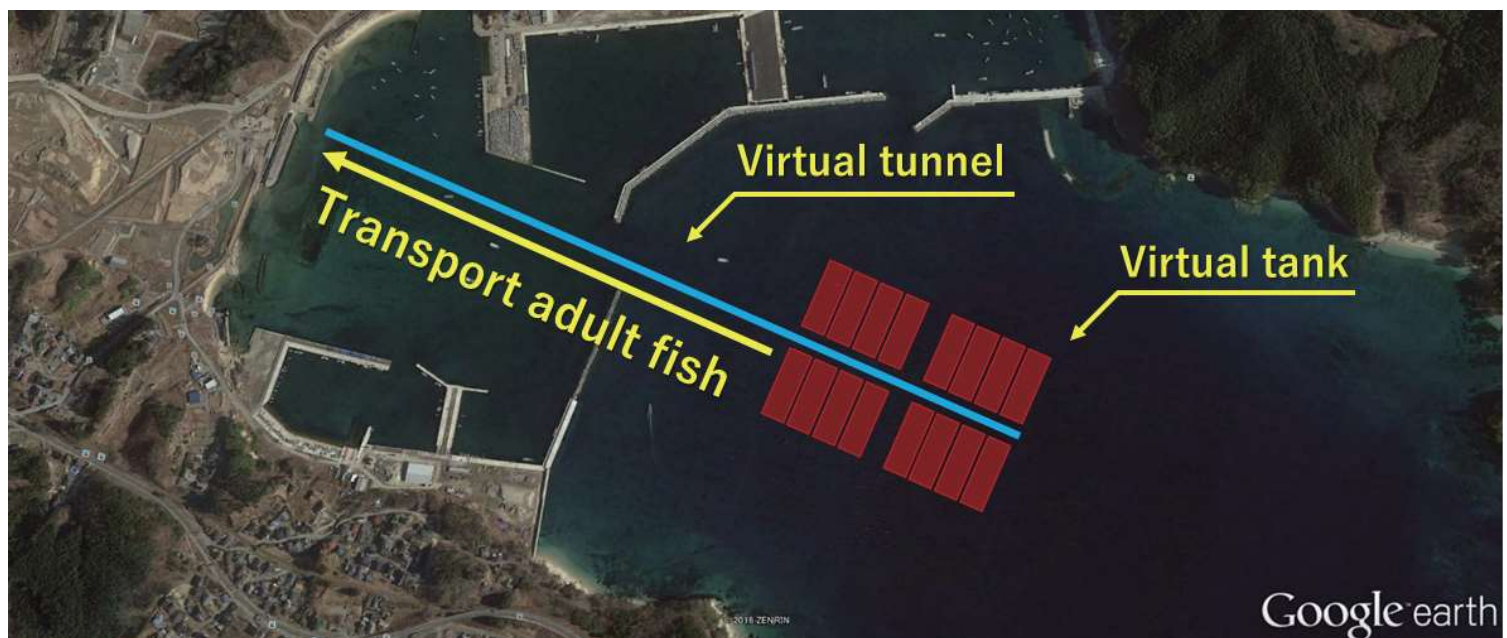
Our aim is to automate primary industries, using new technologies with control technologies at their core.



>> Biogroup control can control schools of fish swim.



>> We aim to Fishing farm to Ocean bay by Biogroup Control



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