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Intelligence

Startup uses data analytics and machine learning technology to boost tilapia health in Ghana

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By Responsible Seafood Advocate

Tilapia farmers can monitor water quality in real-time and get alerts

Bioceanor, a French startup specializing in water quality using disruptive technologies (IoT and IA), has launched a program to enhance fish health in tilapia farming. Partnering with Virbac and Tropo Farms Ltd. in Ghana, Africa, the initiative will leverage data analytics and machine learning to correlate and anticipate tilapia health and growth using environmental data.

“It is a great opportunity for Tropo Farms Ltd. to go further in the digitalization of our farms, with recognized experts, in the context of global climate change which will require even more data-driven decisions on our end,” said Francisco Murillo, CEO at Tropo Farms in a [LinkedIn post](https://www.linkedin.com/feed/update/urn:li:activity:7062690329535082497/) (<https://www.linkedin.com/feed/update/urn:li:activity:7062690329535082497/>).

Bioceanor has developed a system that can measure over 15 physicochemical parameters, including temperature, salinity, pH, oxygen and turbidity. This comprehensive data allows farmers to monitor water quality in real time and receive timely alerts through a dedicated web interface. Virbac, international experts in fish health, will support the project.



The Bioceanor-Virbac-Tropo Farms initiative leverages data analytics and machine learning to correlate and anticipate tilapia health and growth with environmental data.

The program will enable Tropo Farms – one of the largest tilapia farms in Africa – to better mitigate risks, improve production efficiency and promote environmental sustainability.

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“We see Bioceanor’s expertise as a very complementary service for Virbac and the farmers to make sure that our solutions will take into account environmental conditions, and therefore, ensure best-in-class fish health monitoring and support,” said Adrian Astier, key account manager at Virbac.

Follow the *Advocate* on Twitter @GSA_Advocate (https://twitter.com/GSA_Advocate).

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