SMART AQUA
AQUACULTURE BEYOND FOOD

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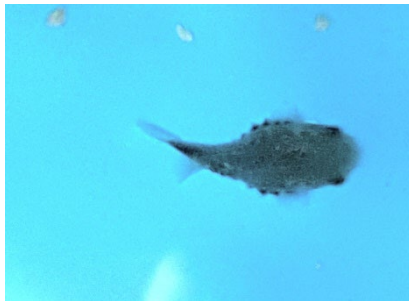European Regional
Development Fund

OBJECTIVE

To contribute to the UN's Sustainable Development Goals for Aquaculture by giving insight to fish livestock and welfare using non-invasive methods.

OUTCOME

Use Machine Vision techniques and deep learning techniques to help fish farmers and stock mortality insurers in their risk management.

BACKGROUND

Faptic Ltd, through their Visifish devision, are using machine learning and artificial intelligence (AI) to enhance data collection in aquaculture for more sustainable management and increased productivity using stereoscopic cameras. After successfully deploying a proof-of-concept IoT device to estimate population, growth rate and insight into fish welfare in farmed Trout, Visifish want to validate, expand their models, IoT and pipeline against a different species, Lumpfish

ACTIVITIES

Cameras will be placed in the Lumpfish tanks and will collect data via the cloud to train their algorithms to recognise specific behaviours of the fish.