An automatic notification system for the detection of soft-shelled black crab molting through image processing.

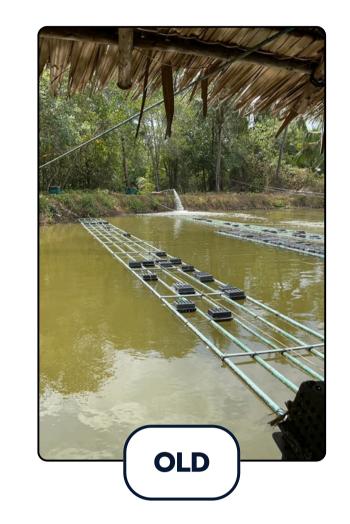
Issues and resolutions

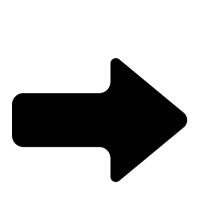


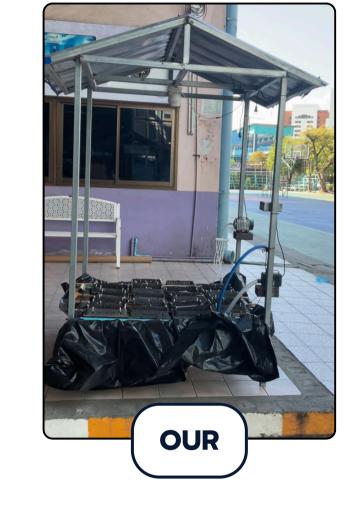
"The solidification of a new shell"

That occurred rapidly.

Creating challenges for farmers in the production of soft-shell crabs Consequently, a system was developed to address the issue.







STEP 1

Retrieve images using RTSP

camera

Transmit

Internet infrastructure

Transmit

informati

RTSP

REAL-TIME STREAMING PROTOCOL

STEP 2

Individual Box Handling

Label every box.
Before analyzing the molting





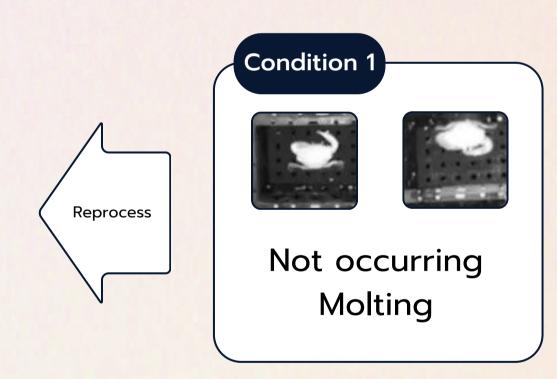




STEP 3

Examine for molting

Establish circumstances
To examine for molting





STEP 4



Frequency of cultivation	Number of crabs in farming	Number of crabs undergoing molting	Number of molting crabs observed	Detection precision (%)
1	17	17	16	94.12
2	17	17	16	94.12
3	17	17	17	100

The findings from the experiment regarding the innovation of the automatic warning system for detecting the molting of soft-shelled black crabs through image processing revealed that the system is capable of effectively detecting the molting of crabs.

In alignment with the outlined goals

Exhibits a high average accuracy value of

96.75%

