# Animal Housing Sensor

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Project Outline:

This project is aimed at the agricultural sector.

Pneumonia is a common problem experienced during the winter months among housed cattle in Ireland. It’s caused by extreme fluctuations in the temperature and humidity in the cattle house.

The intention with this project is to develop a sensor that will monitor temperature and humidity in cattle housing and alert the farmer to any fluctuations over a short period of time that may lead to pneumonia.

Tools, Technologies and Equipment:

It is proposed that a Raspberry Pi with Sense Hat sensor be installed in the cattle shed, recording temperature and humidity on an hourly basis. These recordings will be stored in a database and when extreme changes in temperature and/or humidity are detected, the farmer is notified by phone, so that remedial action can be taken.

It is intended that Python be used.