

5G Rural Dorset: Aquaculture

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About project

How might 5G be rolled out in rural areas to benefit rural people and organisations?

How can we deliver affordable, reliable and interoperable connectivity for aquaculture?

Build sustainable business models and a connectivity ecosystem within the industry



March 2020

March 2022



Define uses

Plan network

Build
network

**Deploy
equipment**

Trial and
report

Running the trials

Portland Port and Jurassic Sea Farms

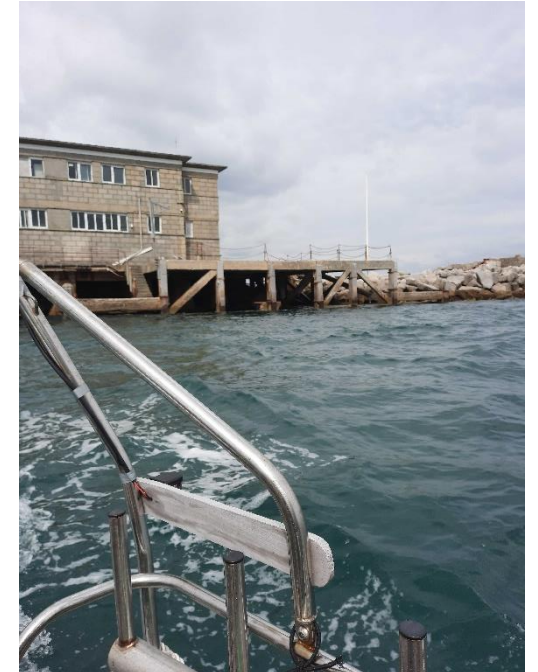
Chlorophyll, dissolved oxygen,
temperature and weather data for
multitrophic aquaculture set up

Biofouling levels on seaweed and
shellfish (as well as growth rates)

Coverage

Lots of data
parameters/ sensors

Bandwidth for images



**JURASSIC
SEA FARMS**

UNIVERSITY OF
EXETER

**RS
AQUA**



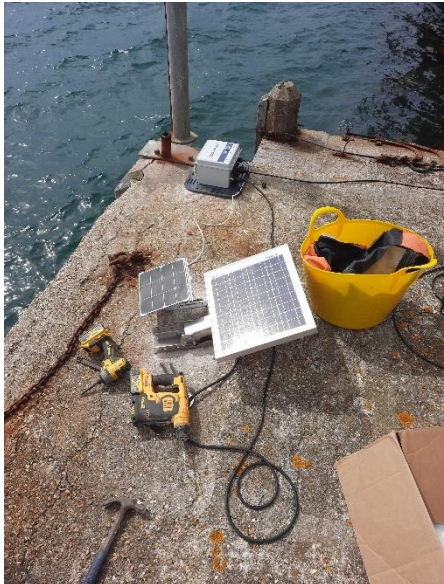
Cefas

Progress and learnings

Sensors deployed, soon to be connected

Algorithm able to identify biofouling

Assembling underwater camera



5G still expensive

Remote site challenging (as expected)

Connectivity important for site

Huge opportunities