

# SMART FISH

Electronically tracking your food



# Workpackage 5: Telecommunication OUAS

- a telecommunications system to retrieve data from Smart Labels, add time and GPS info and send it to the cloud
- a cloud system which stores and processes the data and has a browser user interface and mobile application



# Web UI

The screenshot displays the SMART FISH web application interface. At the top, there is a navigation bar with the SMART FISH logo and menu items: HOME, USERS, CONTAINERS, and PRODUCTS. The current page is titled 'PRODUCTS' and includes a language selector set to 'English'. Below the navigation bar, there is a table listing products:

#	Name	Sensor address	Product id	Description	Min	Max	Edit
1	Fish2	00 da 95 9d 68 16	08d9d0dfg	Fish product	2	25	
2	Test2	dfg	dfg	dfg	3	3	

Below the table, there are five summary cards:

- Min Temp: 23.9 °C
- Max Temp: 26.9 °C
- Avg Temp: 25.9 °C
- Duration: Start: 06-02-2017 10:17, End: 06-02-2017 10:19, Duration: 0 days, 0 hrs, 2 min
- Distance: 1.9 km

Under the 'Temperature measurement' section, there are date pickers for 'Start' and 'End', a 'RESET' button, and a table of measurements:

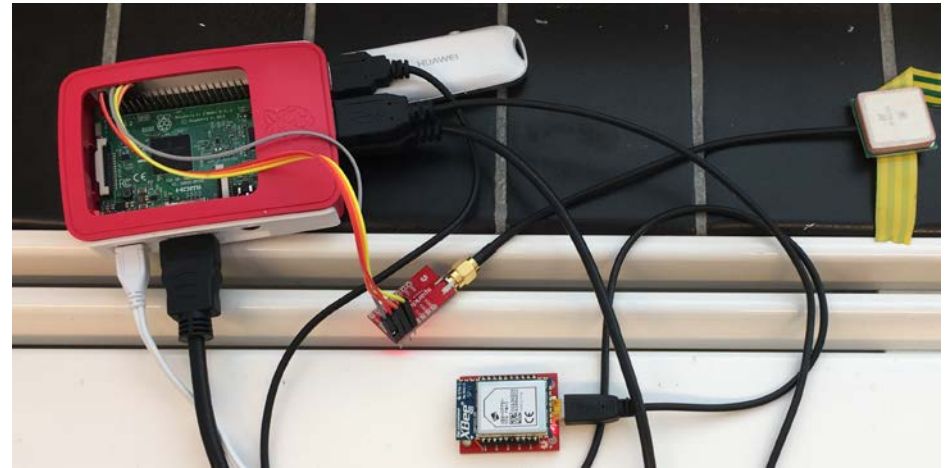
#	Time	Temp	Container	Reg number	Map
1	2017-02-06 10:17:15	23.9	testCar3	s78df	
2	2017-02-06 10:18:19	26.9	testCar3	s78df	
3	2017-02-06 10:19:20	26.9	testCar3	s78df	

At the bottom of the temperature measurement section, there is a 'Chart type' dropdown set to 'Line' and a pagination control with options 10, 25, 50, 100.

<http://git-oamk.westeurope.cloudapp.azure.com/#!/products>

# Prototype

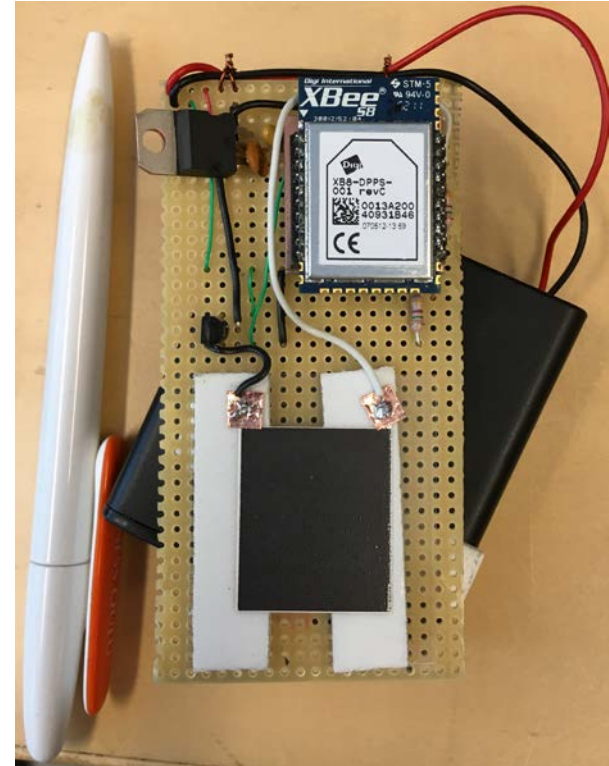
- Collector v2
  - Raspberry Pi 3 + 3G modem
  - Xbee digimesh 858/868 80K
  - GPS





# Prototype

- Sensor v2
  - Xbee digimesh 858/868 80K
  - Temperature sensor
  - Batteries



# Future work

- Adding printed temperature sensor to the sensor module
- Sensor calibration
- Changing telecommunication module to the printed sensor
  - Bluetooth 5, Thread or other (not decided yet)
  - Xbee not the best for the final product

# Partners



UNIVERSITY OF ICELAND

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SMART  
FISH

# Associated Partners



**NORDLAKS**



And Rifos and Haukamyri.



# This project is a part of



## Northern Periphery and Arctic Programme

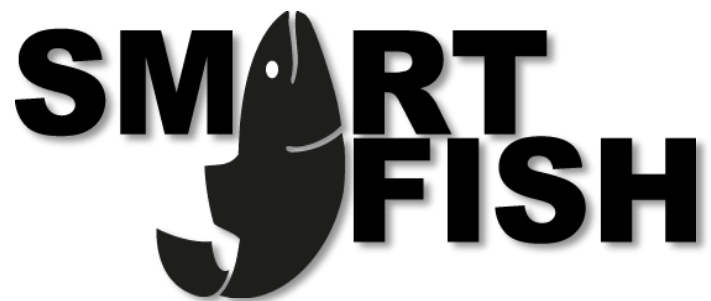
2014–2020

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**Thank you for your attention!**

[smart-fish.eu](http://smart-fish.eu)

