



Dublin Coastal City Living Lab Citizen Science Activities



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DUN LAOGHAIRE COASTAL CITY LIVING LAB SENSOR SELECTION PROCESS



Sensor Workshop members

Workshop Included:

Community Representatives of public administration (local authority, utilities, etc.) and Academia.

Community Representatives:

- Reviewed the most pressing local hazards in their areas
- Selected sensors based on hazards via the SCORE catalogue.
- Worked within a theoretical budget

Academics:

- Shortlisted selected sensors
- Purchased sensors
- Reviewed groups suitable to assist with deployment



Attendees were asked to :

- Identify locations for the sensors via a web-app.
- Identify public stakeholders to engage in the citizen science activities (eg., schools, community groups, etc.)
- Identify technical stakeholders to deploy it (eg. ESB, Irish Rail, etc.) and their role.
- Identify barriers, permissions, specialist intervention .
- Identify a management strategy (e.g., role, schedule, resources).
- Identify uses for the data.

Subsequently, the SCORE team reviewed the possible sensor locations. Sensor selection was then refined for deployment, based on available budget.

Monitored parameter: Filter by

Installation complexity: Filter by

Price range € 0 € 2000

Reset filters

SCORE Sensors in Dún Laoghaire
Identify locations and stakeholders for the citizen science activities

Identified Sensors Map New Sensors Details

Select your group*
Please select

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Sensors in Dún Laoghaire

- Group A
- Group B
- Group C
- Group D
- Group E
- Group F

Study area

score



Killiney Beach



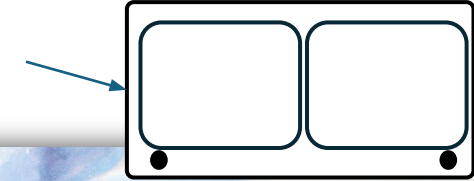


to protect them.

Current processes:

- Pebble preparation activities in schools now completed.
- Pebble tracking: currently in recovery phase.
- Application for additional funding currently underway allowing for second deployment.
- Preparation for further school activities during second deployment in the works.
- Procurement of sign to be placed on beach underway that will enable greater public engagement.
- Positive interest from residents observed during unofficial interactions.
- Journal paper underway

Smartphone holder
(PVC)

An informational sign for the 'Pebble tracking' project. The sign features logos for SMART DÚN LAOGHAIRE, score, UCD DUBLIN, and dlr. The main text explains the project's goal to monitor coastal erosion and dynamics. It includes instructions for citizens to take photos of pebbles and upload them via a QR code. A QR code is provided with the text 'Upload here:'. The background of the sign shows a person standing on a rocky beach looking out at the sea.

SMART DÚN LAOGHAIRE
A Smart Dublin District

score

UCD DUBLIN

dlr
Comhairle Contae County Council

Pebble tracking

As part of project SCORE, University College Dublin, Dún Laoghaire County Council alongside Dalkey Tidy Towns have deployed smart pebbles on this beach. This is to monitor coastal erosion and dynamics, and to later deploy ecosystem-based adaptations to this climate hazard.

Please do not move these pebbles, as we are actively tracking their location. If you spot a pebble, please snap a pic and send it to us via the QR code below.

If you would like to help our project, please place your smartphone up against the smartphone stand a snap a picture. This lets us visually monitor the site and helps us get citizens involved too!

You can find more information on our project at <https://score-eu-project.eu/>

Upload here:



Boosterstown Marsh



Current processes:

- Water quality monitors will be swapped within next week for better calibration.
- Investigating the possibility of using mains power to avoid use of batteries.
- Community events successfully held.
- Procurement of sign to be placed near marsh underway.
- Seeking to obtain greater public engagement.



Smartphone holder (PVC) 

Water Quality Monitoring

As part of project SCORE, University College Dublin and Dún Laoghaire County Council have installed a water quality sensor in this marsh. This sensor gives us data on salinity, temperature, pH, dissolved oxygen and oxygen reduction potential (indicative of contamination). This is to monitor and protect Booterstown marsh. If you would like to help our project, please place your smartphone up against the smartphone stand a snap a picture. You can then upload the picture to our geosurvey platform through the QR code. This lets us visually monitor the site and helps us get citizens involved too!

You can find more information on our project at <https://score-eu-project.eu/>

Upload here: 

Live data: 



SMART DÚN LAOGHAIRE A Smart Dublin District   





DFEI

Dun Laoghaire Further
Education Institute



Current processes:

- Smart LNB installation underway.
- Weather station and Air quality station operating as expected.
- Data analysis demonstration employing excel to analyze large datasets with students completed.
- Results from exercise being employed to increase accessibility and user-friendliness of the SCORE platform.
- Plans for further integration between data obtained and school curriculum under development.




Carysfort





Current processes:

- Initial consultation between SCORE, Local Community groups, and Local Authorities Waters Program undertaken.
 - Need for a water quality monitor identified.
 - Funding application for the development of an advanced water quality monitor underway, with community support.
 - Art competition with local schools to design sign to invite public to engage with the study underway.
 - Interaction between all stakeholders planned during EBA training school.
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Weather Station and Air Quality Sensor network

Registration of interest via SCORE web-app complete

Site selection process underway

Distribution of sensors to community members and tutorial on installation and operation during EBA training school.

Continuous monitoring and communication with volunteers until end of project.

