

# Example of project title two line description

Name Surname, Name Surname, and Name Surname

## Example poster with content in place

April 2014 change has propelled environmental issues to the very front of political decision making, with consequent increasing focus on the impact of the quality of the environment on society, both locally, and globally.

At Insight we have developed environmental sensors to capture raw data (e.g. sensors to measure water + air quality). We have semantically enriched this raw environmental data through processes such as the detection of electrical appliances being switched on (in domestic electricity usage data).

We then manage, personalise, present and transform these vast quantities of data into meaningful information. This has provided an opportunity for up-and-coming Irish companies to draw upon our expertise, e.g. Irish SME EpiSensor Ltd.

At all times we focus the output of our work on the ‘sensor data portal’. Raw data collected across various homes, rivers, and landfill sites is automagically uploaded to this website (see next section).



## Live and Historical Data

Live data from our various sensors situated from Donegal to Dublin to Cork, and various locations between. Some of our carbon acquisition devices include landfill air quality unit and EpiSensor electricity monitors shown here.



## Reports For Public Digest

We have produced a number of reports for public consumption, with the following highlighted ones giving a good high-level overview of our work.

- Report on monitoring gas emissions at landfill sites
- Survey on microbiological water quality in the Dublin area
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- Survey on microbiological water quality in the Dublin area

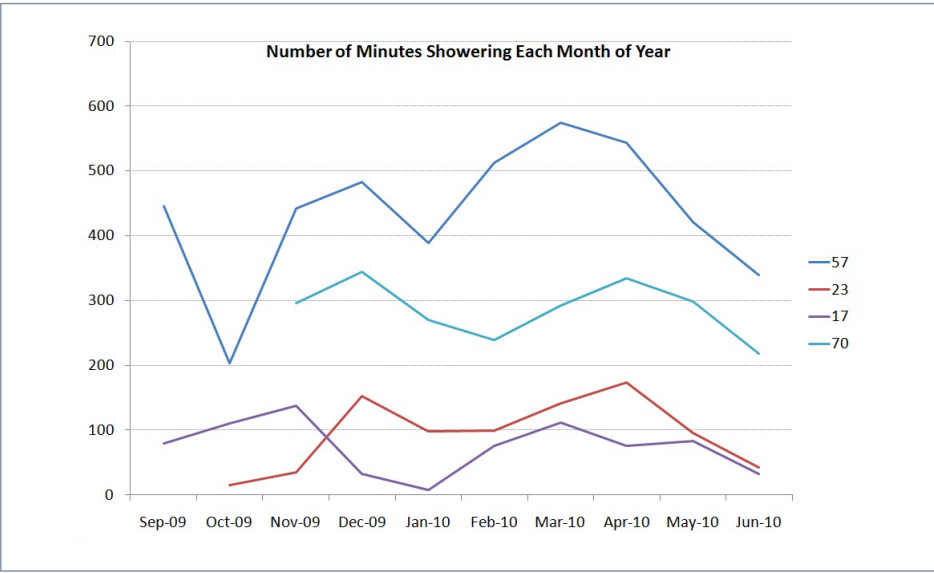
## Turning Raw Data into Information

A feature of our work is that we record huge amounts of sensor readings every day from a range of sensors in a wide variety of locations e.g. for electricity alone we’ve now acquired over 78 million sensor readings. To make sense of this information we mine event patterns from this raw data.

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Mon	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	9.15%	26.14%	53.59%	49.02%	75.16%	66.67%	54.90%	33.99%	25.49%	0.00%	10.46%	1.96%
Tue	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	7.19%	50.33%	100.0%	64.71%	37.91%	57.52%	0.00%	37.25%	5.88%	6.54%	6.54%	1.96%
Wed	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	9.15%	61.44%	79.08%	52.29%	49.67%	38.56%	31.37%	18.30%	6.54%	11.76%	2.61%	9.15%
Thu	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	3.27%	77.12%	60.78%	96.73%	56.21%	58.17%	19.61%	33.33%	22.22%	9.15%	14.38%	0.00%
Fri	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	11.76%	46.41%	64.05%	64.05%	13.07%	30.72%	16.34%	31.37%	19.61%	3.27%	33.99%	25.49%

An interesting use case is that of the domestic shower! One user had over 3.3 million data readings over a nine month period. From all this data, our algorithms have been able to summarise that there’s been 520 showers taken in that house, average duration is 8 minutes (min=3, max=27).

Similarly across 9 users, 20 million data readings were gathered, and our algorithms have automatically detected 1,455 shower events i.e. reducing the data by a factor of over 10,000x. From this we have been able to mine lifestyle usage patterns to help individuals become more aware of their electricity (and carbon) usage. Interestingly we can see how long people spend in the shower as the year goes on (see graph below).



Shower event patterns across 4x users

For some reason people seem to spend longer in the shower in March and April—perhaps this is because people become more physically active at this time of the year, or perhaps it’s something else!



This project has been funded by <Insert Funder Name Here>



# Ubuntu Light 50 point on 59 point line spacing

Ubuntu Medium, 18 point on 20 point line spacing C25 M0 Y04 K06

## Large Headings typeset in Ubuntu Regular, at 18 point on 21 point line spacing

All point sizes listed here are based on the A3-sized document template file.

Body Text paragraphs are typeset in Ubuntu Light, at 10 point on 16 point line space with 5 points space after.

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## Large Headings have 18 points of space- before and 5 points of space-after

Body Text paragraphs are typeset in Ubuntu Light, at 10 point on 16 point line space with 5 points space after. Body Text paragraphs are typeset in Ubuntu Light, at 10 point on 16 point line space with 5 points space after. Body Text paragraphs are typeset in Ubuntu Light, at 10 point on 16 point line space with 5 points space after.

### Subheadings are set in Ubuntu Medium, 10 point on 16 point line spacing

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## Large Heading colour is C100 M0 Y0 K48

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### Subheadings have 5 points of space-before and 1 point of space-after

Body Text paragraphs are typeset in Ubuntu Light, at 10 point on 16 point line space with 5 points space after.

- Bulleted text is indented 3.5mm.
- The bullet point is coloured C100 M0 Y0 K48.
- The rest of the bulleted text is coloured C0 M0 Y0 K100.
- Bulleted text has a reduced space-after value of 2 points.

## Two column layout specifications (based on A3 sized template file)

These dimensions are based on the A3-sized document template file. This file is suitable for enlarged printing at all sizes from A3 up to A0-sized posters. (As all A-sizes are proportional.)

- Left margin = 18mm
- Right margin = 18mm
- Centre gutter = 13mm
- Top margin = 85mm
- Base margin = 30mm

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This project has been funded by <Insert Funder Name Here>

20mm

48mm

17mm

124mm

124mm

18mm

13mm

18mm

This project has been funded by <Insert Funder Name Here>

30mm