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**ENVIRONMENTAL DATA CHALLENGE**

MDDA is looking for a developer to build a prototype application using new real time environmental data. We are ideally looking for something that is not primarily map-based (as we already have applications that are map based <http://demos.citadelonthemove.eu/environment-manchester/> ) but successfully use the data from our wireless sensor network and can be a proof of concept showing use or benefit. Examples might include a visualisation, a native or web app, or something that combines these ideas.

We ideally would like to see something that makes use of time series data, and would be happy for the data to be used on its own, or in combination with other relevant datasets.

A budget of **£2500** has been put aside for this piece of work.

We’d like your EOIs by **9AM Friday February 7th**, listing what your idea is, how it would use the data, what would be the “product” (App, web app, API, service) and how it would be accessed, and most of all, what would the demonstration show.

We would hope to shortlist next Friday 7th February and may undertake a short telephone interview with the successful developer. Development could begin immediately. Developers will need to become vendors to Manchester City Council.

Prototype or test data can be made available but we will have real time data by Monday 17th February at the latest. The application needs to be ready to demoed by 28th February, with an extra week for any last minute changes etc.

The application will be showcased in Athens at the Future Internet Assembly in week commencing 17th March.

We will be choosing the application based upon -:

* Making the case for release of data
* The benefits of the application or service
* The possible business case for further development.

*This is funded by Citadel on the Move and SMARTiP projects and will be managed by Manchester Digital Development Agency for Manchester City Council.*

**TECHNICAL DETAILS**

The data that will be available so far will be:

- Carbon Dioxide

- Nitrogen Dioxide

- Temperature

The above every two hours. These are the working sensors on the Waspmote devices.

- Atmospheric pressure (Barometric sensor)

The above will be every hour until I clarify the battery life of the devices. The barometric sensors will be on Arduinos that I'm procuring this week.

The data will be made available through:

- A (read-only, at first) REST API, the details of which will be posted to the MDDA website by mid-February. As I'm writing that API, I can quickly add features / change focus dependent on user feedback.

- Xively feeds.

- Spreadsheets on Google Docs.

Number of locations so far:

- Town Hall (Moat and Clock Tower)

- Edge Street (MadLab)

- Mabel Tylecote Building (e.g. All Saints park, Oxford Road)

- Firmstart / Hulme Park

FOR ANY FURTHER TECHNICAL DETAILS PLEASE EMAIL ALAN HOLDING

(a.holding@manchesterdda.com)

**HOW TO APPLY**

We are looking for short expressions of interest by THURSDAY 6th FEBRUARY 2014.

Please provide the following:

NAME (of developer and/or company)

CONTACT DETAILS (inc. postal address, email and telephone number)

TYPE OF COMPANY (sole trader/Ltd company etc.)

ARE YOU AN EXISTING VENDOR TO MANCHESTER CITY COUNCIL? (New vendors will need to be set up if appointed)

CONFIRM THAT YOU WILL BE ABLE TO MEET THE TIMESCALES OF THE PROJECT (Demo delivered by 28th February, final version live for Thursday 13th March)

SUMMARY ABOUT YOU / YOUR COMPANY (Please include any experience with working with open data, and include UP TO 3 RELEVANT URLS) (Maximum 500 words)

WHAT WOULD BE YOUR RESPONSE TO THE CHALLENGE? (Maximum 500 words, this can be just a text description of your idea. Similar to what you would provide early on in a hack day – please remember this is a “proof of concept” so we’d like to know what you hope to show by doing this.)

IS THERE ANY OTHER INFORMATION OR TECHNICAL SUPPORT YOU WILL NEED? (This will help us decide if we can provide what you need in the timescales)

WHAT WOULD YOU LIKE TO HAPPEN NEXT IF YOU ARE SUCCESSFUL? (Just a short statement about how your project could develop in the future if there was time, data and funding) (Maximum 250 words)

PLEASE EMAIL TO ADRIAN SLATCHER (a.slatcher@manchesterdda.com) to arrive no later than 9AM on FRIDAY 7th FEBRUARY 2014.

**TIMELINE REMINDER**

**Submit EOI by 9AM FRIDAY 7th FEBRUARY 2014**

**Data available for testing MONDAY 17th FEBRUARY 2014**

**Delivery of demo FRIDAY 28th FEBRUARY 2014**

**Final Version Goes Live THURSDAY 13th MARCH 2014**