How can we use open data to assist residents that are at risk?

Enter: challenge.responsivecities.org.za | **Deadline:** 21 October 2016
Local partner: Geekulcha | **Phone:** 012 844 0240 | **Email:** tiyani@geekulcha.com

Opportunity: Top 3 entries for Ekurhuleni will win cash award between R1,000 and R10,000, and will be eligible for national award of R50,000, along with R150,000 prize from Ekurhuleni Metropolitan Municipality and further pilot/ PoC funding up to R300,000 with The Innovation Hub.

Maturity: Concepts, prototypes and near commercial proposals.

Eligibility: Startups, designers, journalists, small enterprises, researchers and individuals based in South Africa looking to implement a solution in Ekurhuleni.

Challenge Question

How can we use open data to assist residents of Ekurhuleni who are at risk; whether health, disaster or crime related? Priorities include:

- Effective detection, assessment and response to public health occurrences, including preventing the spread of infections
- Reducing impact of health issues, disasters and crime on indigent households
- Improving management of crime across the city
- Ensuring appropriate response by emergency services to disaster and other high risk events
- Making relevant information available to citizens

Process

- A hackathon is taking place on 30 Sept – 2 Oct 2016 at 31 Webber Road, Germiston, Banquet Hall. More information here: http://emmhack.co.za.
- Submit initial proposal online by 21 October
- Finalist workshop 7-13 November
- Winners announced by 25 November

Data Links

Core data set(s) and documents:

- **List of clinics:** http://ekurhuleni.gov.za/open/data-catalogue/social-cluster/30-ehealth-list-of-clinics
- **Adults registered by clinic:** http://ekurhuleni.gov.za/open/data-catalogue/social-cluster/31-ehealth-num-registrations-adult-per-clinic-june-2015

- **Children registered by clinic:** http://ekurhuleni.gov.za/open/data-catalogue/social-cluster/26-children6m
- **Clinic contacts**: http://www.health.gpg.gov.za/Documents/Clinics.pdf
- **Indigent household data** (for Aug 2015): http://ekurhuleni.gov.za/open/data-catalogue/social-cluster/24-bpm-number-indigent-household-members-august-2015
- **Indigent applicant types** (Jan-Jul 2015): http://ekurhuleni.gov.za/open/data-catalogue/social-cluster/21-2015-jan-jul-approved-indigent-applicants

Possible related data set(s), tools and reports:
- **Integrated Development Plan** 2016/17-2018/19: http://www.ekurhuleni.gov.za/2713-annexure-a-integrated-development-plan-idp-2016-17/file
- **Municipal budget:** http://ekurhuleni.gov.za/open/data-catalogue/finance-cluster/47-eku-a1-schedule-ver-2-7-draft-budget-15-16-approved-by-council See tab SA36 for detailed capex per asset sub-class
- **Water quality** - blue drop status: http://ekurhuleni.gov.za/open/data-catalogue/corporate-cluster/1-blue-drop-status
- **Mapping flood risk** in Ekurhuleni: www.ajol.info/index.php/wsa/article/download/109884/99624
- **General health, population, household and services** statistics:
  - http://tellmaps.com/mapsalive/#!/profile/ZAF-MUN/797
  - https://wazimap.co.za

Background

Ekurhuleni is one of three metropolitan municipalities in Gauteng, and is a regional hub of economic activity centred on manufacturing and logistics. Ekurhuleni faces similar challenges to other urban areas of South Africa, and has high levels of poverty and a large number of residents that are particularly vulnerable to socio-economic change and climate-related disasters. Metro actions to address those at risk include, amongst others:
- Provision of primary health care, mainly through clinics
- Disaster response through provision of effective emergency services
- Prevention and response to crime in cooperation with South African Police Service amongst others

To start addressing the social and economic challenges of the city, and to encourage a more active citizenry, the Ekurhuleni Metropolitan Municipality ICT Departments are bringing together ICT developers, entrepreneurs and innovators in hackathons which are now evolving into a more structured community supporting skills development around app development and problem solving. This year the metro is hosting its annual hackathon on the theme: "A Digitally Connected City". The theme is centred on leveraging the potential of the Internet of Things (IoT), Big Data and Analytics – and participants can build out concepts and prototypes in this field. Prospective participants in the Responsive Cities Challenge are encouraged to develop solutions that can address the needs of citizens at risk of health, disaster or crime-related events.

TO RESPOND TO THIS CHALLENGE, PLEASE ENTER ONLINE
challenge.responsivecities.org.za