

# KHANYISA PROJECTS CASE STUDY

ENVIRO APP

## AT A GLANCE

### FUNDERS

Grand Challenges Africa (GCA) in partnership with Duzi Umngeni Conservation Trust (DUCT).

### TIMELINE

December 2019 to December 2021

### AREA

Various river catchments in KwaZulu Natal including the Msunduzi and Umgeni.

## OBJECTIVES

**Why:** The project involved the development of a mobile Pollution App and data management system to assist community based organisations and municipalities to efficiently drive positive change within river catchments.

**Where:** Amanzi Ethu Nobantu Catchment Management project - various river catchments in KwaZulu Natal.

## GOALS

- Effective municipal delivery in response to pollution incidents
- Empowerment of communities to drive change in response to pollution in river catchments
- Improve environmental health of river systems

## ACTIVITIES

- Development of appropriate apps or capture forms
- The use of smartphones to capture field data
- The set up and configuration of a cloud based aggregate server
- Development of appropriate automated reporting formats or dashboards to illustrate analytical data
- Use of visual data tools and maps for reporting purposes

SEE KEY FINDINGS ON PAGE 2





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## **KEY FINDINGS**

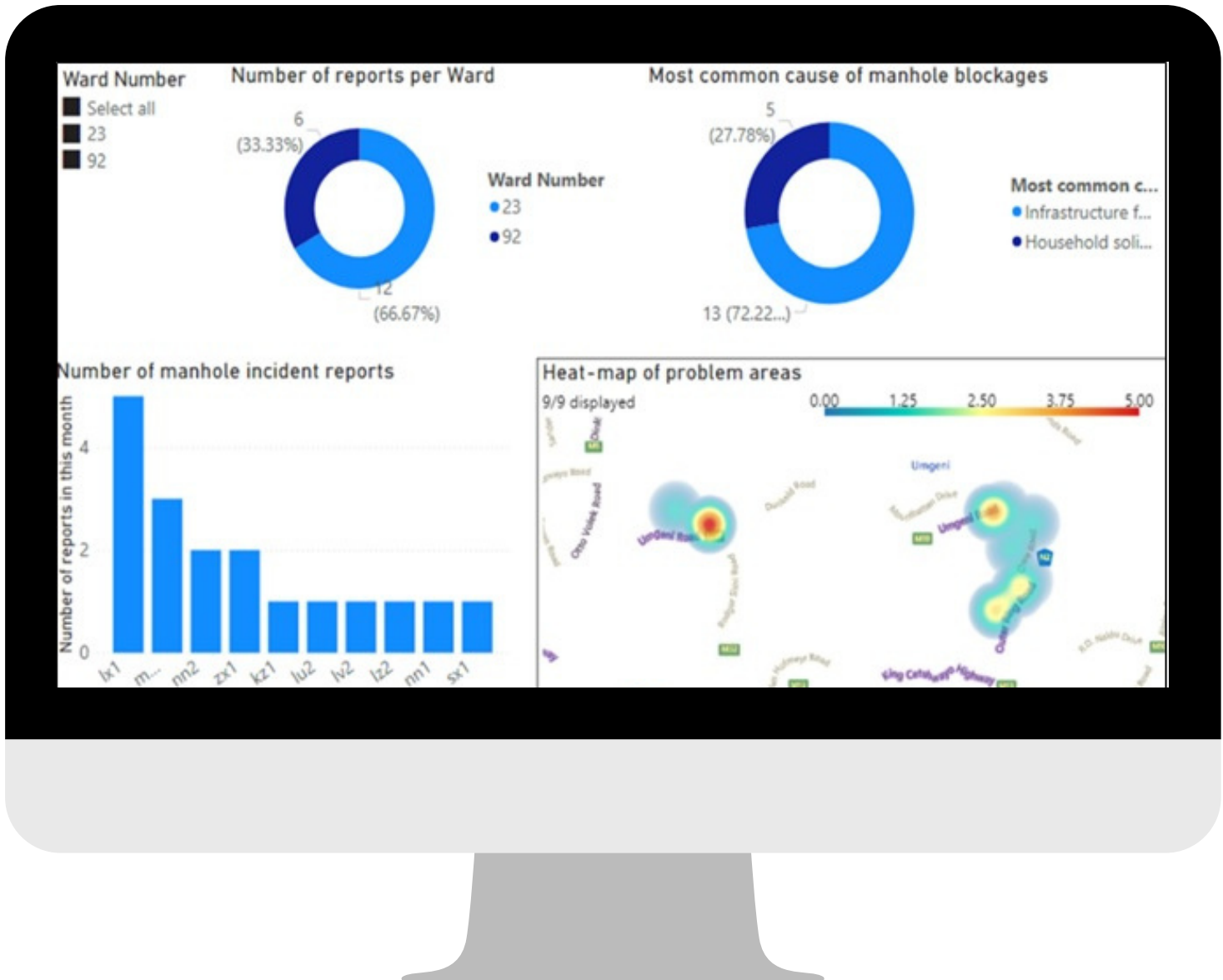
- The app was used on the Amanzi Ethu Nobantu Catchment Management project by 800 trained community workers and several NGOs
- The fault recording aspects of the system have been integrated with the existing municipal fault management systems to achieve more efficient municipal responses
- The app was approved as a municipal app as part of the official Ops App package
- Communities have been empowered within the target communities to drive responses to pollution
- A baseline of the environmental health of river catchments has been recorded
- Solid waste pollution and alien vegetation has been addressed by NGOs and the municipality
- 93 000 bags of litter were collected
- 26 river quality assessments undertaken
- 1 200 house visits undertaken
- 1 275 sites cleared of solid waste
- Adaption of the App for the Public Employment Programme (PEP) of the eThekweni Municipality has been approved

**SEE APP SCREENSHOTS ON PAGE 3, 4, 5 & 6**



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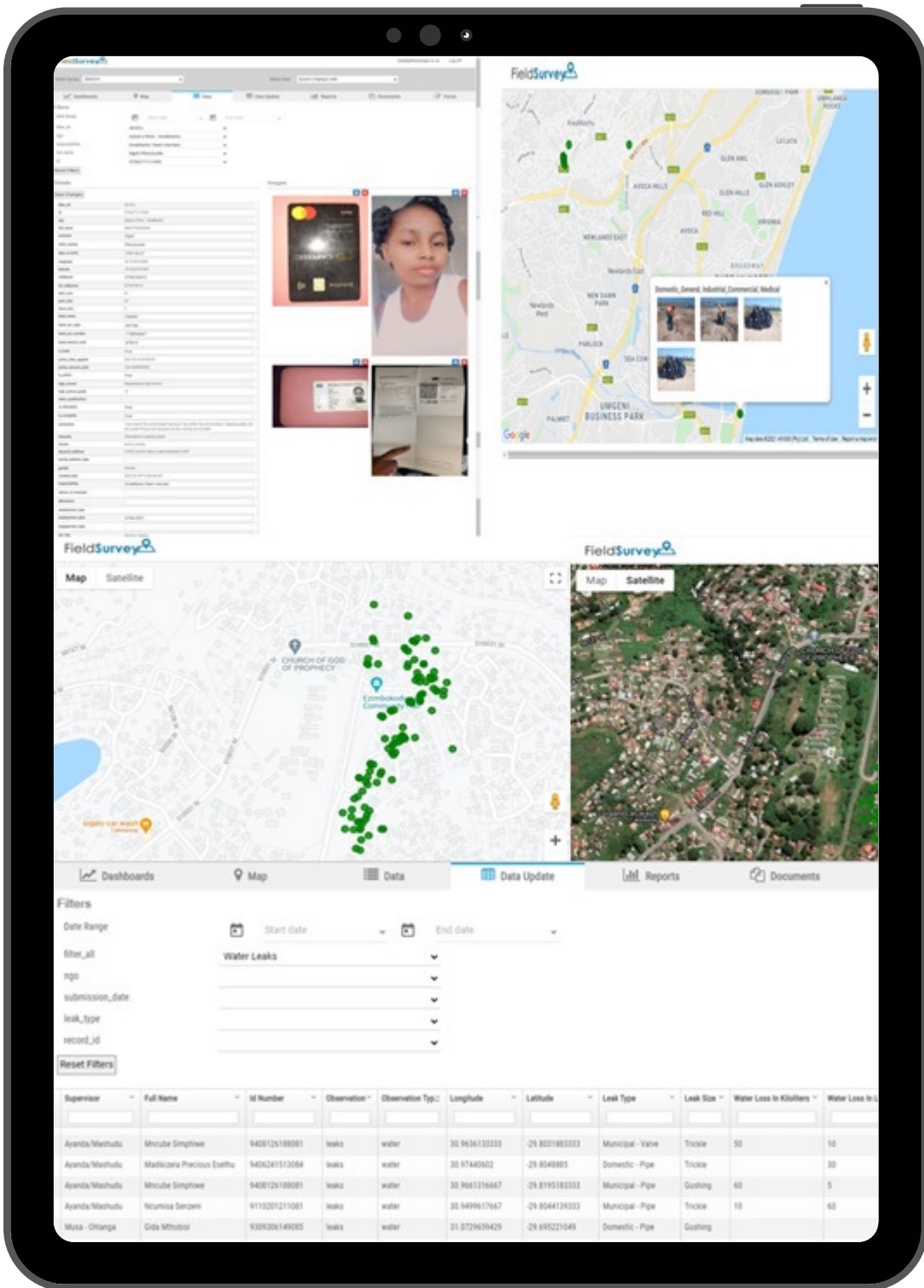
FieldSurvey mobile app main menu buttons:

- Fill Blank Form
- Edit Saved Form
- Send Finalised Form
- View Sent Form (3)
- Get Blank Form
- Delete Saved Form
- Refresh Lookups



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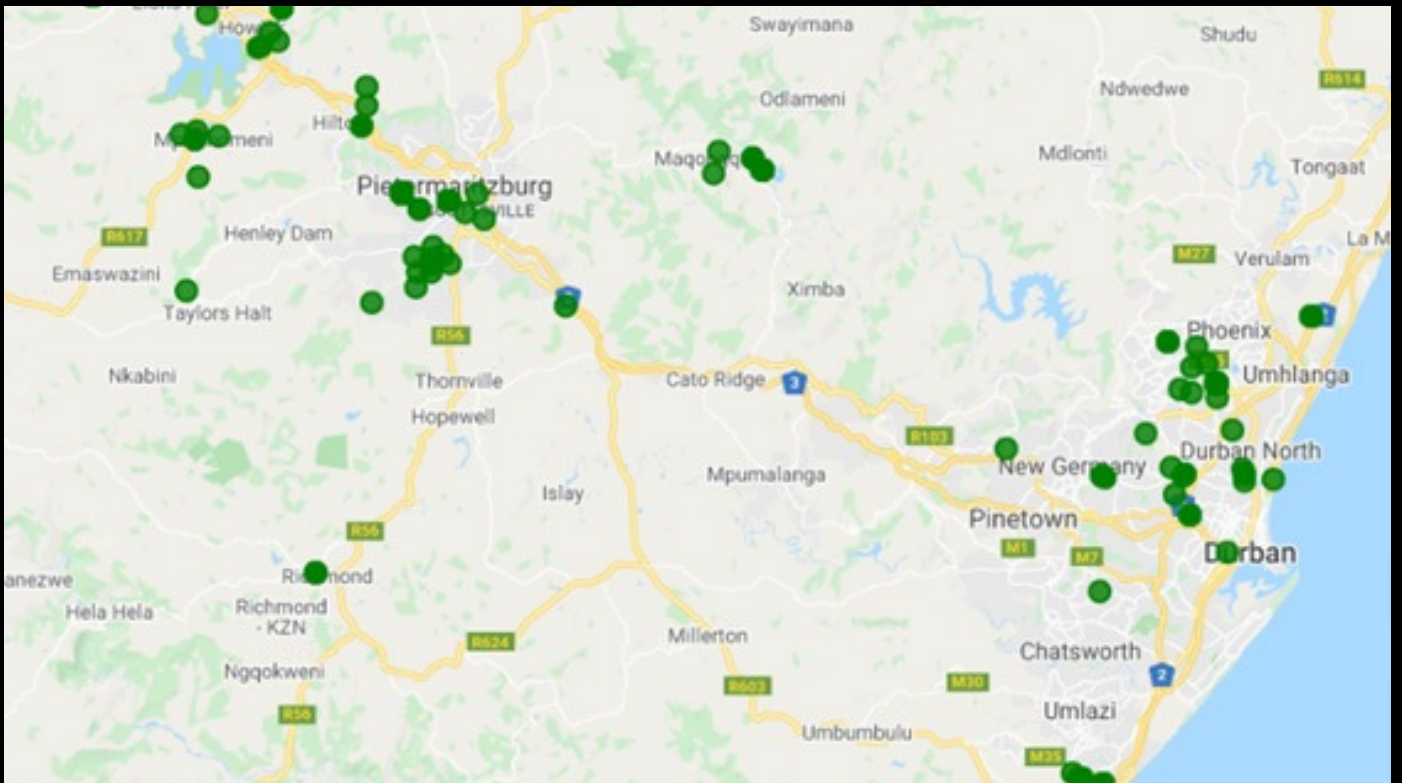
ENVIRO APP



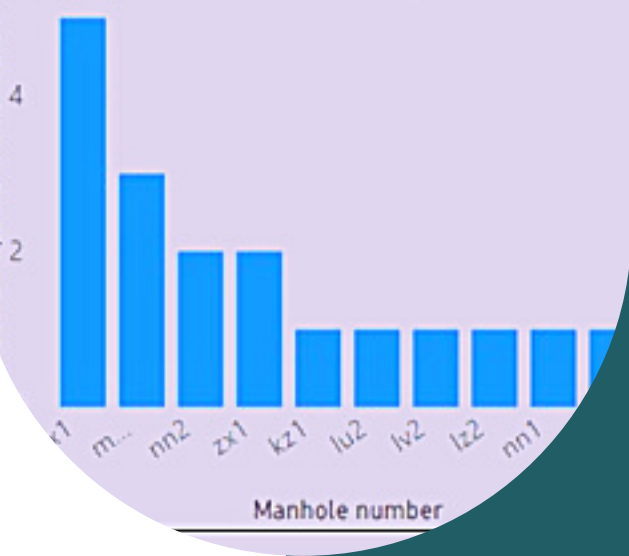


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Number of manhole incident reports



MUNICIPAL DATA SOLUTIONS

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