



**Western Cape
Government**

RURAL SAFETY MONITORING DASHBOARD : RURAL DEVELOPMENT

Digital tracking and incident reporting portal

Wow day

Douglas Chitepo

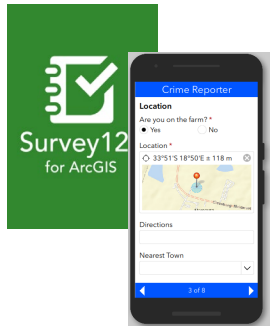
10 November 2020

Brief description of Innovation/Technology

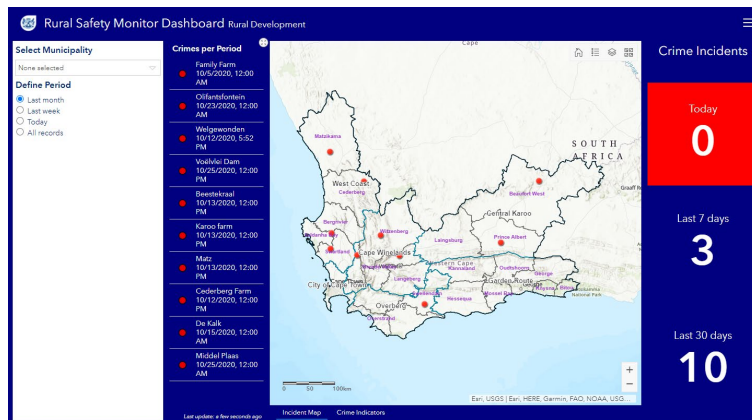
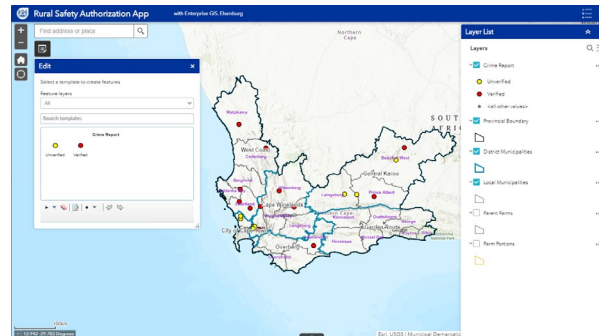
Technology Solution to improve Rural Safety

- Enterprise GIS-solution for monitoring of rural safety incidence reported within the agriculture environment
- Interactive digital platform making use of combination of technology tools, i.e. mobile- and web-mapping applications
- Seamless flow of data between mobile and web-application
- Utilization of existing software applications in-house for development and customization for this purpose (rural safety)
- Low data cost for using of mobile-app (***Survey123 for ArcGIS***)
- Mobile-app functionality is not dependent on internet-connection, can work 'off-line" for capturing of information

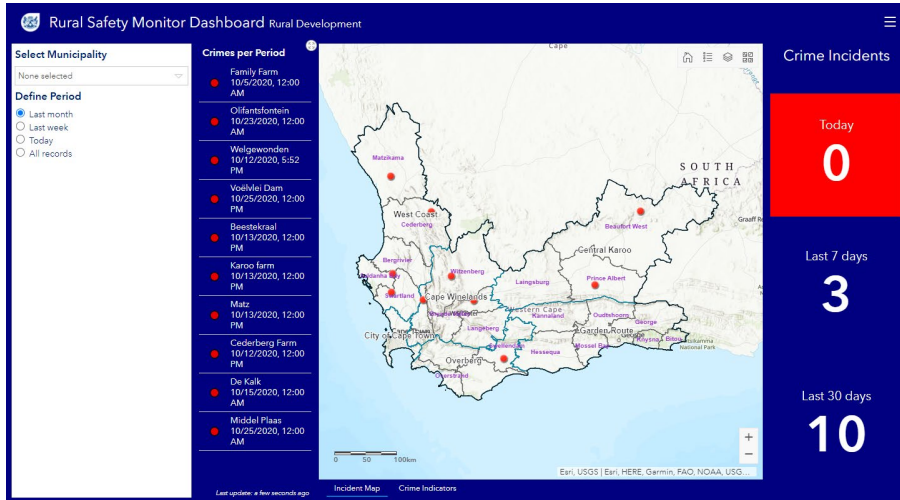
Incident verified and information/status updated by Project Manager /Project Coordinator on Web Application



Crime incident reported on Mobile App by CDO

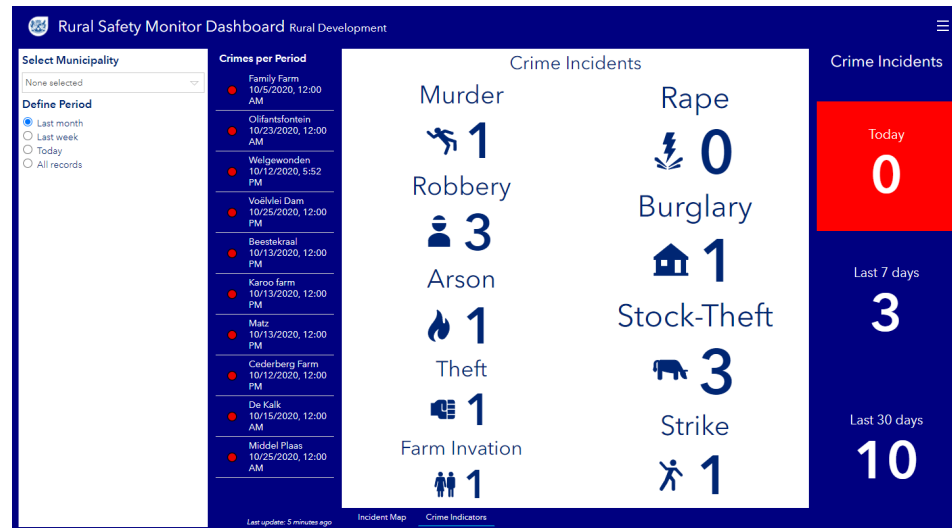


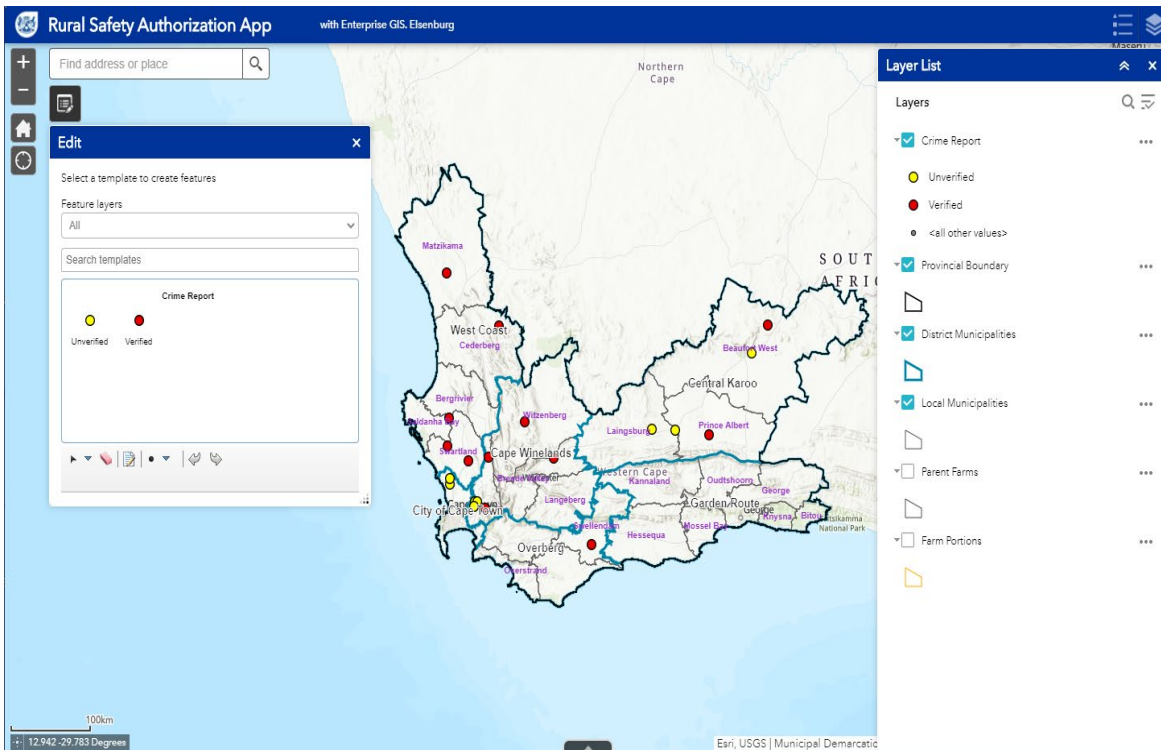
Crime incidents viewed on Operational Dashboard



Rural Safety Operational Dashboard

Monitor Crime Situation in WC
 View all verified Crime Incidents
 View various themes (dates, crime)





Rural Safety Authorization Web App

- Managed by Project Manager /Project Coordinator
- View all Crime Incidents reported
- Add missing incident information
- Update Status (Verified)
- Update Progress

Why was this innovation/technology needed/developed?

Core problem: Inadequate Rural Safety and Security, underpinned by:

- Prevalence of crime/lawlessness in general and a declining rural safety environment
- High crime levels and an increase in farm attacks compromises and undermines the safety of producers and agri workers
- Inadequate and or weak rural safety structures to deter criminal activities, has a adverse impact on the ability of the sector to create jobs, enable a sustained food supply and to sustain a growing agricultural economy

.....which highlighted the need and purpose for:

- Integrated data management portal to capture incidence reported
- Quick and real-time response to expedite investigation and referrals, where necessary

New and novel aspects to the innovation/technology

- Community Development Officers (CDO's x7) can immediately respond / report on rural crime incidence
- Report Crime Incidents on farms
- Collect information with Survey123 for ArcGIS on mobile device
- Can work offline
- Data immediate available in Enterprise GIS; Field data (real-time) can be displayed on an interactive dashboard
- Embedding GIS-functionality within rural development workflows and data management processes

ArcGIS Survey123 is a complete, form-centric solution for creating, sharing and analyzing surveys. Collect data via web or mobile devices, even when disconnected from the Internet. Analyze results quickly, and upload data securely for further analysis

Significant wins/impact

- Community Development Officers (CDO's x7) can immediately respond / report on rural crime incidence
- Electronic updating of progress on 'cases reported' for verification and authorisation by Project Manager and Project Coordinator within WCDOA
- Institutionalizing a safe and secure portal for rural safety incidents ; management tool for monitoring and tracking
- Tracking and viewing of statistics per district /municipality, as well as the type of incidence reported ; overview of trends
- Sharing of data with Department of Community Safety for integration into a provincial dashboard, and for further investigation / follow-up, where needed

....all towards an overall improved and protected and safe agricultural environment

Links to website/reading/references etc.

- References / Enquiries on rural safety can be directed to www.elsenburg.com
- Rural Development Programme: 021 808 5294 or Ruralsafety@elsenburg.com
- Webpage of Programme 8: Rural Development:

<https://www.elsenburg.com/services-and-programmes/rural-development#s=Rural->

[Safety](#)

Thank you

Contact Us



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BETTER TOGETHER.

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