




Gov-X Innovation Challenge 2021

Department of Communications and
Digital Technologies
Cybersecurity Operations & Cybersecurity
Hub



Sipho Ngobeni

Senior Cybersecurity Researcher, CSIR



Background:

Qualification: MSc. Computer Science, UP.

Professional affiliation: PECB, ISO/IEC 27032 Lead Cybersecurity Manager.

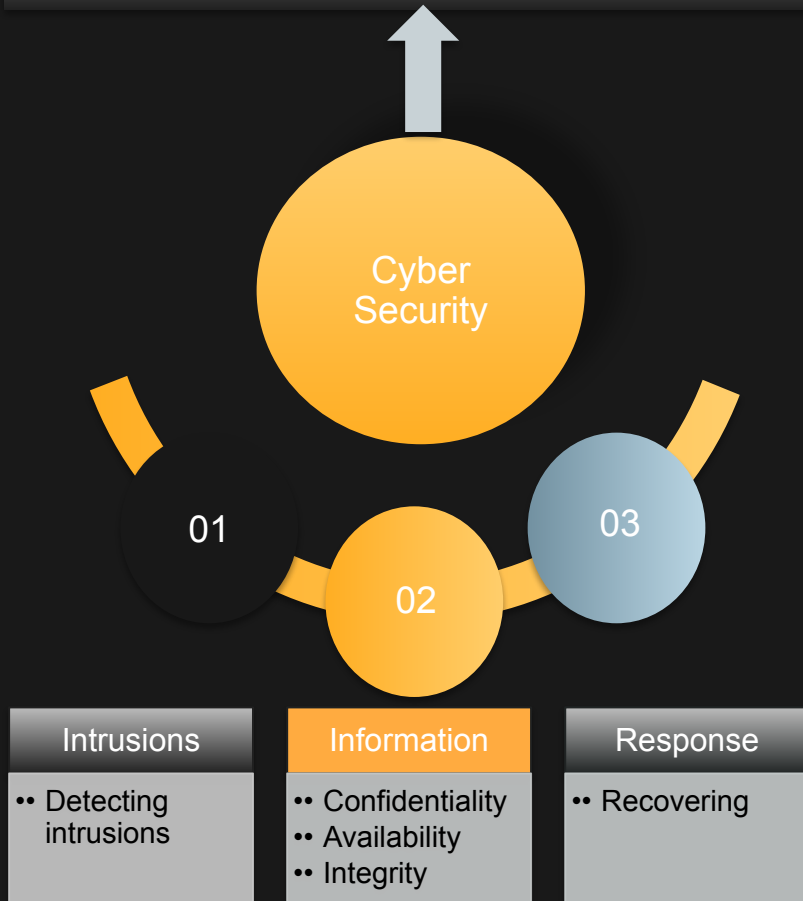
Skills: Governance, risk and compliance, cybersecurity audits, privacy assessments, threat modelling, and CSIRT/SOC Operations.

Research: Often publish and present his research outputs on peer reviewed national and international journal and conferences.

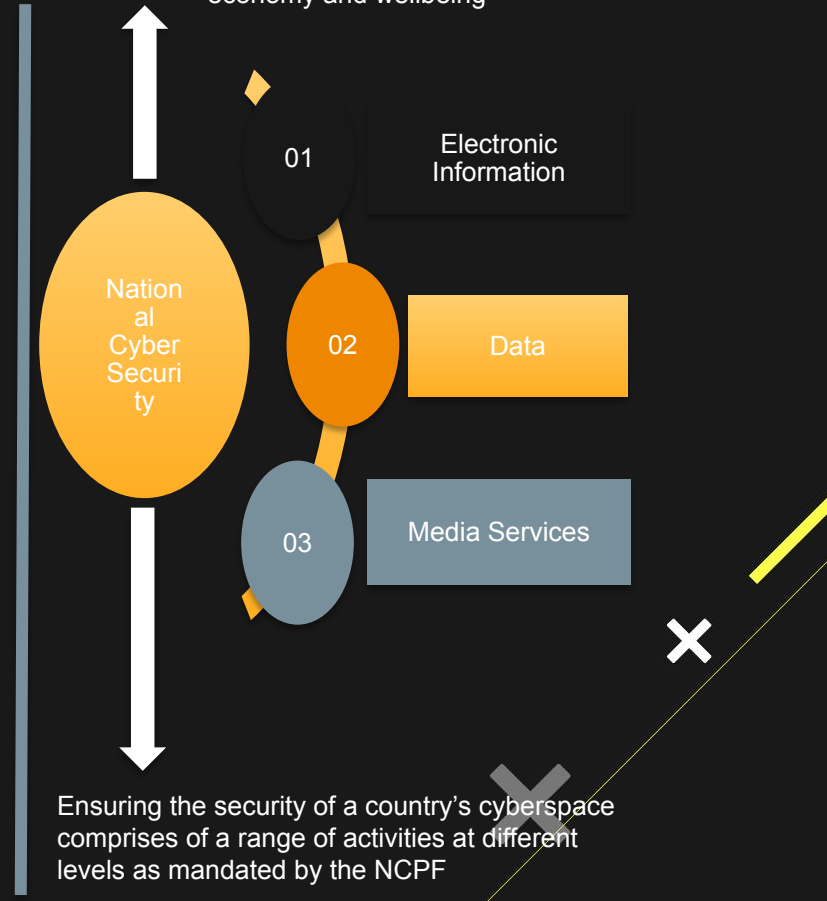


Introduction

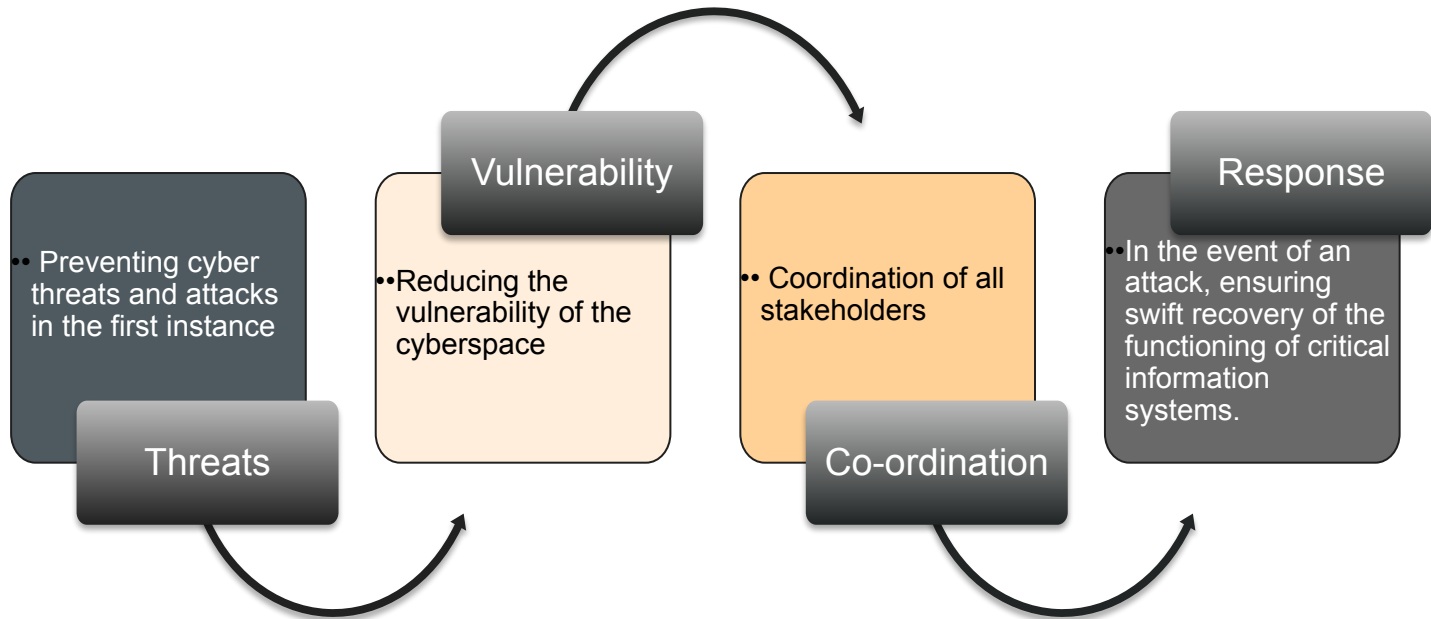
Cybersecurity is the practice of making the networks that constitute cyberspace secure



National Cybersecurity is a broad term encompassing many aspects of electronic information, that affect the country's security, economy and wellbeing



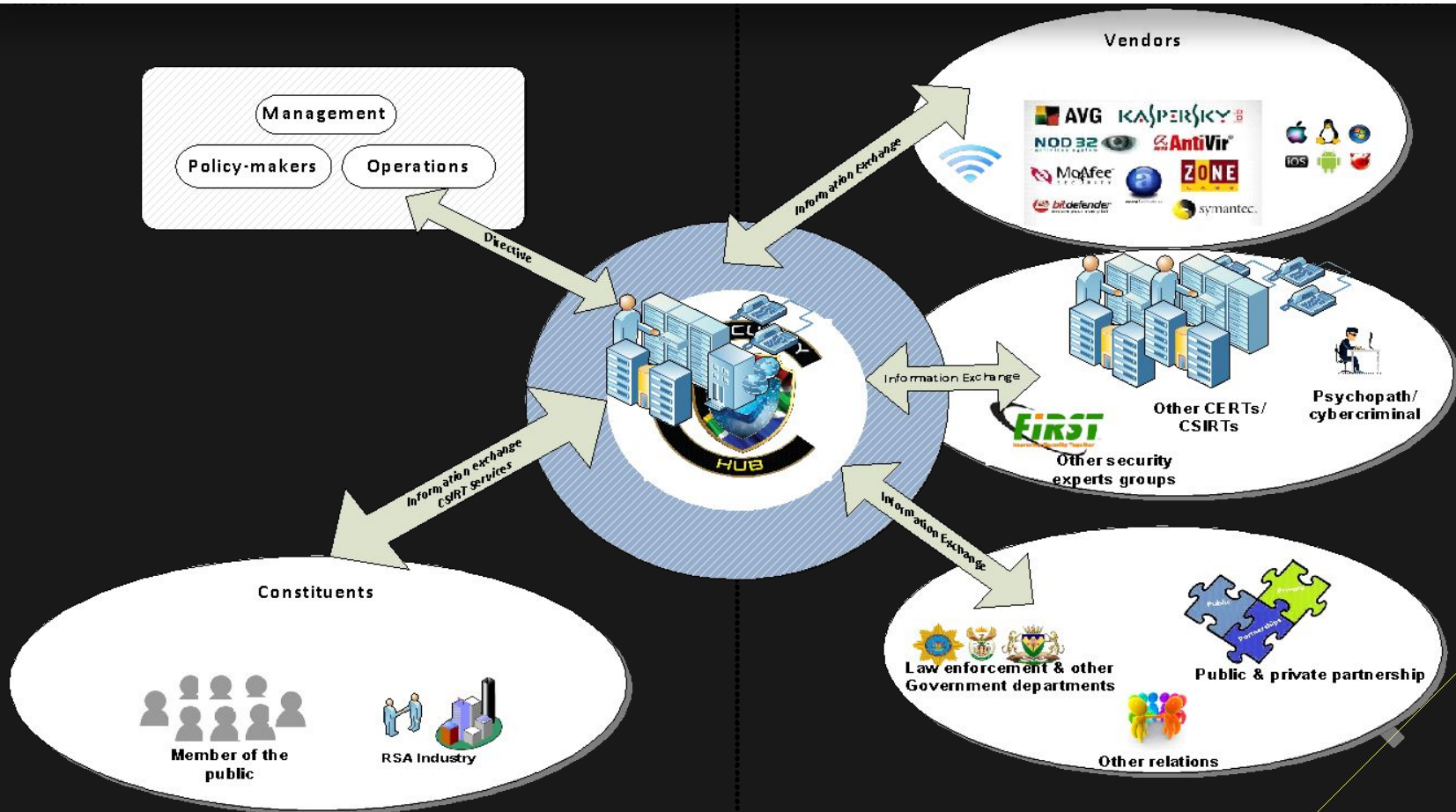
Key Cybersecurity Activities



The Cybersecurity Hub: A National CSIRT



"Computer Security Incident Response Team (CSIRT)" Team of dedicated information security specialists that prepares for and responds to Cybersecurity breaches or Cybersecurity incidents. Over the years CSIRTs extended their capacities and increase their service offerings. CSIRTs go from being a reaction force to a complete security service provider.



REACTIVE SERVICES

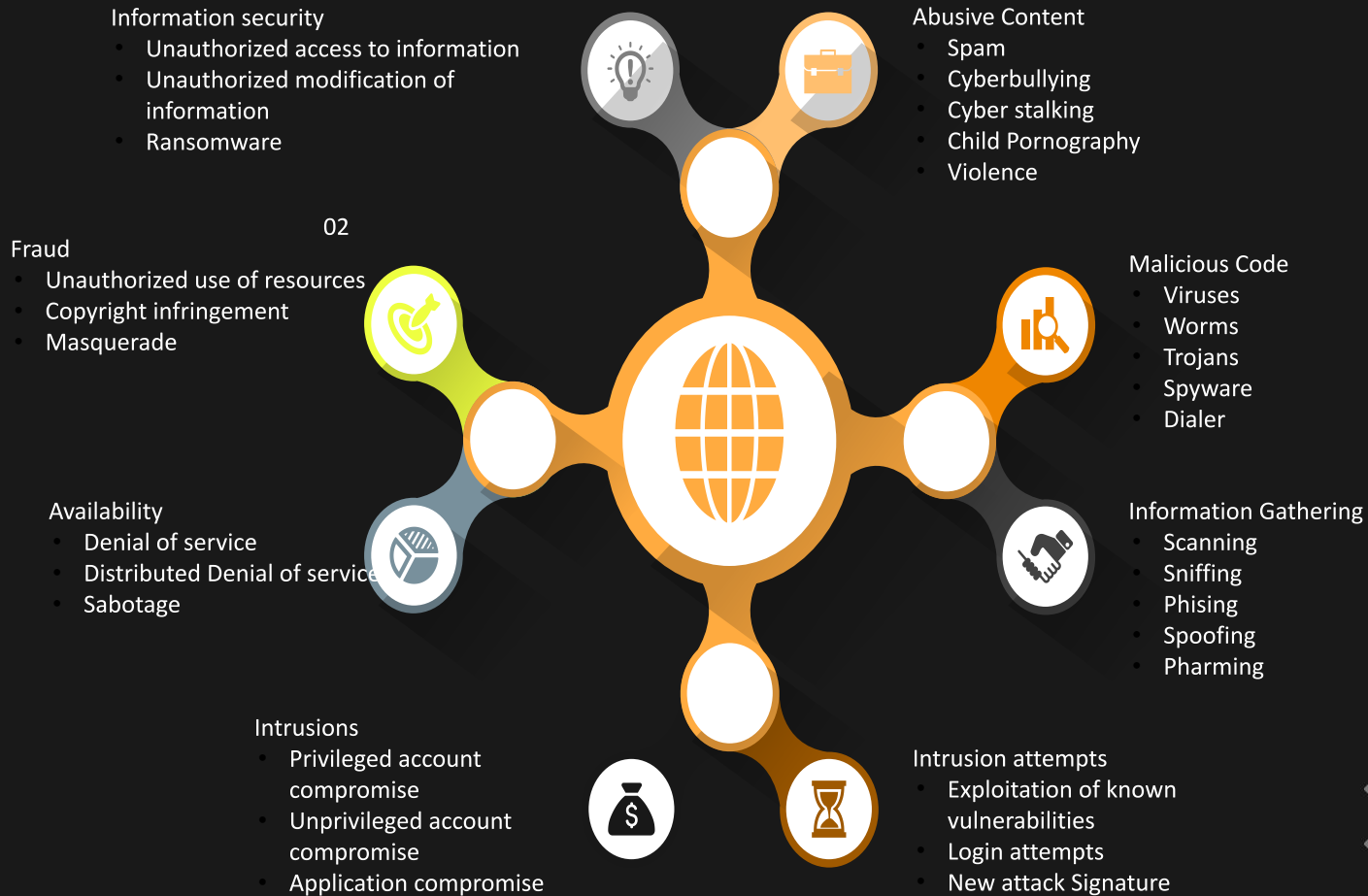
- Alerts and warnings
- Incident handling
- Vulnerability handling
- Artifact handling

PROACTIVE SERVICES

- Announcements
- Technology watch
- Security audits or assessments
- Configuration and maintenance of tools, applications
- Development of security tools
- Intrusion detection services
- Security-related information dissemination

QUALITY MANAGEMENT SERVICES

- Risk Analysis
- Business continuity and disaster recovery planning
- Security consulting
- Awareness building
- Education training
- Product evaluation or certification





CYBER SAFETY AWARENESS GUIDE

Part of the Cyber Safety Awareness Campaign


Logos: National Cyber Security Centre, National Cyber Security Centre, National Cyber Security Centre



CYBER SAFETY AWARENESS WORKBOOK

Part of the Cyber Safety Awareness Campaign

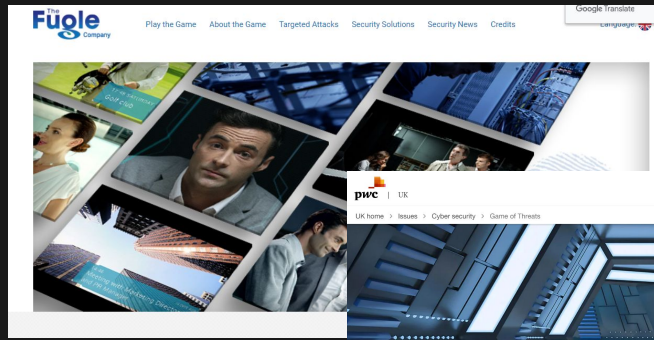
Logos: National Cyber Security Centre, National Cyber Security Centre, National Cyber Security Centre



CYBER SAFETY AWARENESS POLICIES AND PROCEDURES

Part of the Cyber Safety Awareness Campaign

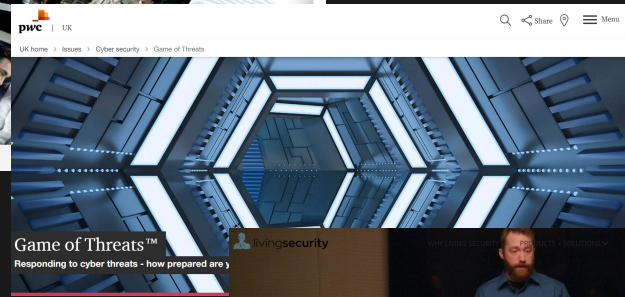
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The Fugle Company

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Google Translate

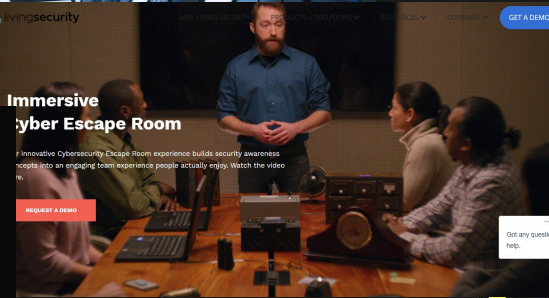


pwc | UK

UK home | Issues | Cyber security | Game of Threats

Game of Threats™
Responding to cyber threats - how prepared are you?

Wingssecurity



Immersive Cyber Escape Room

Innovative Cybersecurity Escape Room experience builds security awareness scripts into an engaging team experience people actually enjoy. Watch the video

REQUEST A DEMO

Get any questions? Help.



SECURE COMICS

Episode 1: Passwords (Illustration of a hacker and a woman at a laptop)

Episode 2: Malware (Illustration of a superhero fighting a virus)

Episode 3: Privacy (Illustration of a woman and a man with a shadowy figure)



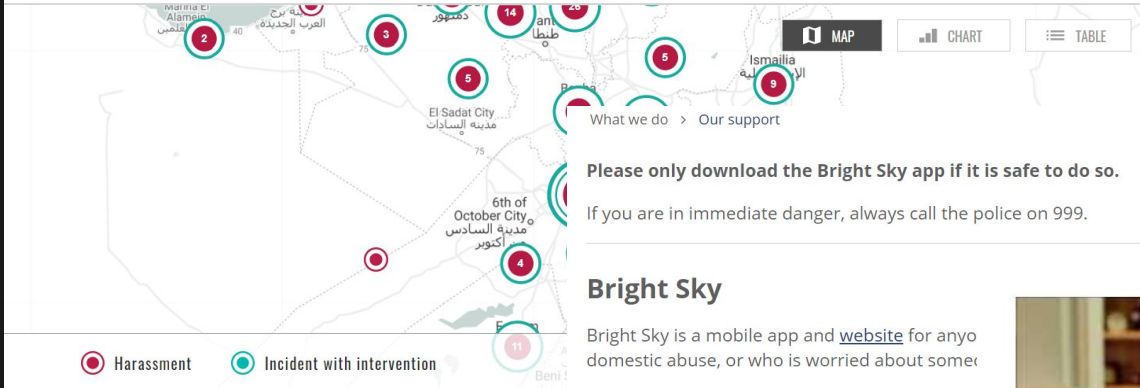
Online gender-based Violence

There is an increased awareness around the lack of support for victims of online gender-based violence in Africa, with a significant percentage of women concerned about their safety online. 39.3% of African women concerned about their safety online

Deputy Minister, Pink Kekana said

"Protecting South Africa's vulnerable and finding solution for the scourge of gender based violence is a priority for us as is finding solutions for the myriad of problems in the cyber-domain and it is crucial we have the skills to do this now and in the future."





What we do > Our support

Please only download the Bright Sky app if it is safe to do so.

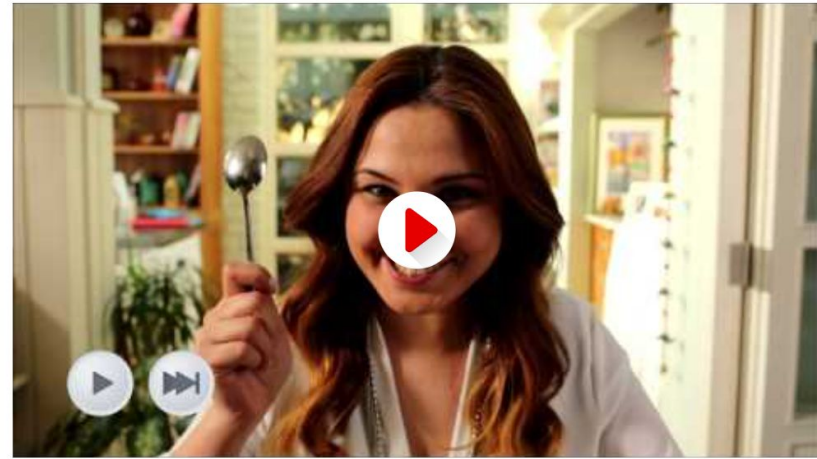
If you are in immediate danger, always call the police on 999.

Bright Sky

Bright Sky is a mobile app and [website](#) for anyo domestic abuse, or who is worried about someo

The app can be downloaded for free via the app download the app if it is safe for you to do so ar your phone isn't being monitored.

Launched in partnership with Vodafone, the ap to assess the safety of a relationship, plus a ser



Easy Rescue – Turkey

Easy Rescue is an app designed to support women who have suffered violence and have personal

THANK YOU!

Any questions?

You can find me at:

 <p>CSIR Touching lives through innovation</p>	<p>Sipho Ngobeni Senior Cybersecurity Researcher Tel: +27 12 841 2678 Fax: +27 12 841 2678 Cell: +27 71 485 7987 Email: sngobeni@csir.co.za www.csir.co.za</p>
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