A presentation by Gray Guardians GO Connect conference

How to develop your Integrated Electronic Security System?



Who we are

Control Risks is a specialist risk consultancy. We assist to our clients to build organisations that are **secure**, **compliant** and **resilient** in an age of ever-changing risk and connectivity.

Security Risk Management

- Security Consulting
- Security and Intelligence Programmes
- Risk Monitoring
- Security Design Engineering
- Workplace Violence Prevention and Threat Management

Operational and Protective Security

- Protective Services
- Secure Journey
- High Risk Managed
 Services

Organisational Resilience

- Crisis Readiness,
 Response and
 Recovery
- Business ContinuityManagement
- Risk Assessments

Crisis Response

 Kidnap, Extortion and Threat Response

Our **People**

Our team is committed to quality, integrity, technical excellence, exceptional service and a broad understanding of security needs and using international standards recognized across the world. Each member of the team is duly qualified, certified and highly-skilled in the various disciplines in which serve. With over 20 years experience in the security industry and expertise across Universities in the country.



Managing Director



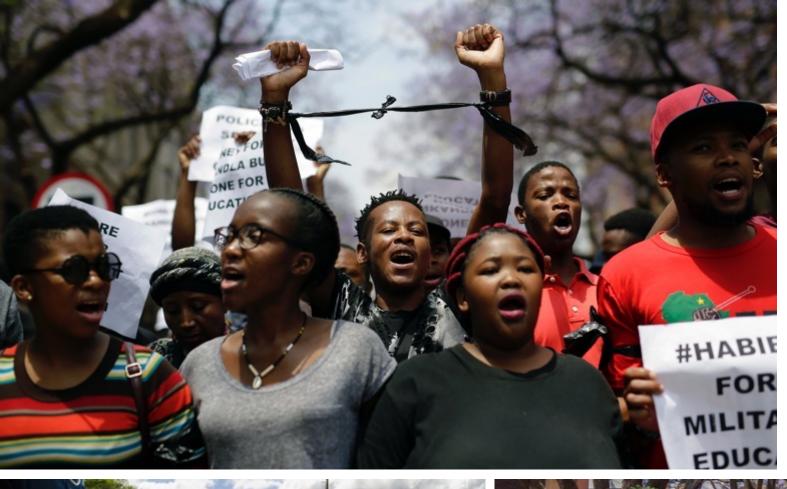
Head Security Advisory
Specialist



AZIZ NDARASecurity Consultant



What are we facing?



















Types of **Security Issues**

Protest (Fees Must Fall)

Theft

Rape

GBV

Illegal Occupation

Drug and Alcohol Abuse



Our **Response**



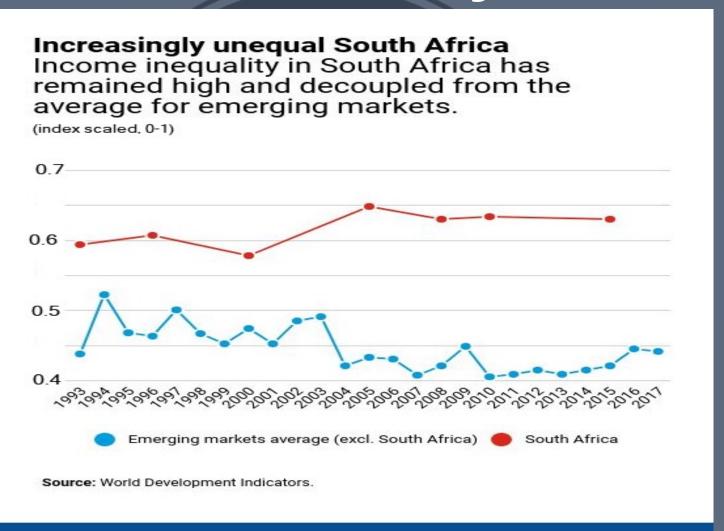


The Core Issues

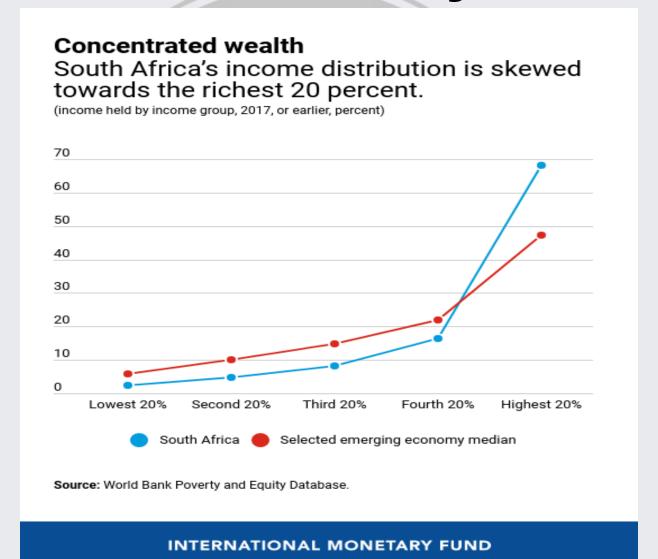
What has lead to Security Issues



What has lead to Security Issues



What has lead to Security Issues



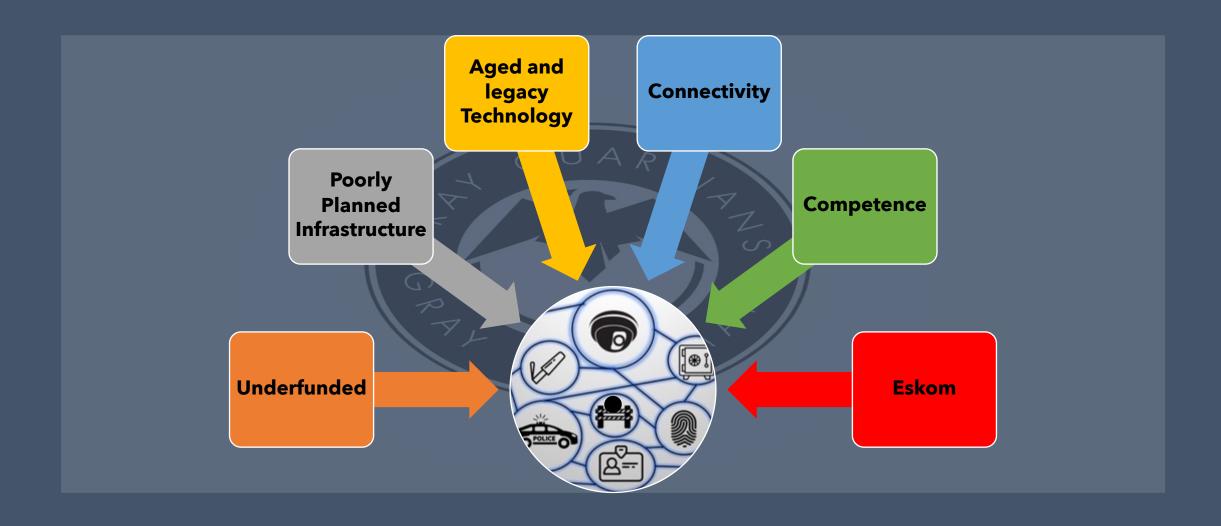
We need a different conversation





Current State of Our Infrastructure

State of our Infrastructure





Our Approach

Our partnership with PURCO SA

Performance

Monitoring

Training

Over the past two years we have worked on various assignments with PURCO SA across universities and TVET's. Our typical project rollout includes:





What is an IESS Strategy



Integrated Strategy

The Integrated Electronic Security System strategy should be built to ensure that the university has a world class security system which will take the university into the fourth industrial revolution with a key focus to identify and address the unique threats faced by the institution.

The primary objective of this is to assist in:

- Protecting students and employees;
- Protecting campus facilities;
- Providing easy access management for authorized visitors;
- Protection of assets

Infrastructure



Data



People

Benefits of IESS

Key Benefits

- Integration of all existing and new security systems onto a common platform will increase the security level across on all Campuses
- Systems will become a real time management driven tool which gives a much faster response time for authorisation and/or any security breach
- Control of campus/site access both for internal and external parties
- Substantial cost saving: security manpower and operational cost (physical guards) will be reduced over a period of time
- Accurate reporting and audit trail
- Improved investigative operations
- Centralised and simplified access control processes
- Compliance to access control policy and procedure
- Compliance to statutory safety requirements
- Reduction of vandalism on property and assets
- Accurate monitoring of generator fuel levels, lighting defects, auto timer lighting, automated heating and cooling systems, etc.



Key Features

- Intrusion detection;
- Access control;
- Fire and Life safety;
- Video surveillance technologies, along with
- Management tools to help streamline and enhance campus security operations
- Case Management
- Finance Integration
- Use of Apps
- Cost saving

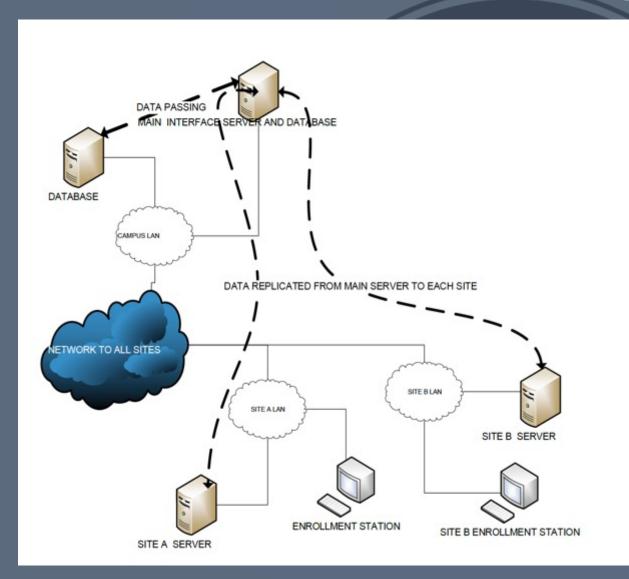
Deciding on a technology - Understand your environment



It is important to understand your landscape:

- Ensure you have all your building plans
 A complete view of your cadastre
- 3. Understand logistical routes (onsite and off site residence)

Deciding on a technology - Understand IT Architecture and existing infrastructure



What to Understand

- Network Equipment;
- Data Speed;
- Server size and capacity;
- UPS
- Switches

Deciding on a technology - Site Survey

Checklist Date: Reference No: External Reference No: Observations Observations Answer Answer Remarks PERIMETER PROTECTION 1 Is the perimeter protection in a good condition? 2 Is there additional perimeter protection in place? (If yes, state in comment column) No 3 Is the perimeter protection of good strongth? 4 Is the perimeter protection of good strongth? 5 Is the perimeter protection of good strongth? 5 Is the perimeter protection of good strongth? 6 Are the premises protected by razor wire? 7 Are there any visible vulnerable areas? 8 Is the fence clear of obstructions? 9 Are there trees and shrubs close to or against the fence? 9 Are there trees and shrubs close to or against the fence? 9 Are there are and sequence amount of vehicle gates? (State how many in comments column) 1 Is there an adequate amount of vehicle gates? (State how many in comments column) 1 Is there are also shrubs close to or against the fence? 9 Are there predestrian gates? (State how many in the comments column) 1 Is there are also shrubs close to or against the fence? 9 Are there pedestrian gates? (State how many in the comments column) 1 Is there are also shrubs close to or against the fence? 1 Are there pedestrian gates? (State how many in the comments column) 1 Is there are also shrubs convening condition? 1 Are there become or chains being used? 1 Is a there access control at each of the gates? 1 Is a cacess documented? 1 Is there are also shrubs confirmed by telephone? 2 YES 3 Are visited access unescorted? 3 Are visited soldwards condition? 4 YES 4 Are began / parcels / packages / cans searched upon arrival? 5 Are if rearms permitted on the site? 5 Are if rearms permitted on the site? 5 Are if rearms permitted on the site? 5 Are if rearms permitted on site? 6 Are there access control of site? 7 No 8 No 9 NoBODYCHECKS, WEWERE ON CAMPUS WITH FIREARMS 8 Is there firearm saearch more vice staff members? 8 No 9 No 9 Are there access control on site? 9 No 9 No 9 No 9 Are there access control on site? 9 No 9 No 9 No 9 No 9 No 9 No	Survey Checklist		
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13 Are there vehicle stickers in operation? NO 14 Is there a time clock for staff members? NO	11 Are staff members searched when exiting the premises?	NO	
14 Is there a time clock for staff members?	12 Is there a search room / area available?	NO	
	13 Are there vehicle stickers in operation?	NO	
	14 Is there a time clock for staff members?	NO	
15 Must ID be shown upon arrival?	15 Must ID be shown upon arrival?	YES	
16 Do staff members have ID documents?	16 Do staff members have ID documents?	YES	
17 Are entry permits issued?	17 Are entry permits issued?		

Deciding on **a technology -** Core System



Core base system which allows management to:

- 1. Aggregate all technologies into one system
- 2. Understand various patterns Prevent entry to unwanted individuals
- 3. Identify weaknesses and trends for criminal activity
- 4. Activate defence mechanisms through a touch of a button

Key Features

Data allows for the use of artificial technology which can assist with identifying risks which will create action.

Deciding on a technology - Booms, turnstiles and fencing



Fencing:

Fencing represents the first line of defence into your environment

Boomgates:

Preventative measure to manage vehicle traffic





Turnstile:

Preventative to manage foot traffic

Deciding on a technology



Biometric Readers and WhatsApp Bots:

Biometric readers use biometric information for individuals which collect information and can allow access, and use information for investigation. With the advent of COVID 19, SMART phones have the ability to become biometric readers. We have solutions which we are piloting using WhatsApp bots which will allow university access as well as for the use of contact tracing or managing class sizes





Deciding on a technology





Smart Cameras:

SMART cameras features a wide range of smart functions, including;

face detection, intrusion detection, line crossing detection and audio exception, benefitting users with great improvement on security efficiency, more importantly, with key events / objects being recorded for further forensic needs. These features, combined with smart tracking, which enables the camera to detect any progressively moving object and follow it within the camera's area of coverage without fault.

Deciding on a technology - The future

of drone





Smart drones can be deployed with Al which detects movements and can quickly alert security personnel. These will supplement physical guards

*Caution drones have to be operated by South African Civil Aviation Authority licenced pilots

Technology and People

Technology

SOP

Evacuation plans
Emergency
Response

People

Cost saving or improved safety



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