

# e-Services

Imagine a connected South Africa with the world at its fingertips. A South Africa where every resident lives in a smart city with smart services.

SMART CITY SERVICES FOR SMART LIVING

SENTECH  
**C**  **NNECT**

Transforming citizens lives through intelligent connectivity



e-Services

## About SENTECH

**SENTECH is all about connecting you to the world and connecting the world to you.**

SENTECH SOC Limited is a State-Owned Company operating in the ICT sector.

SENTECH offers digital content delivery services to Public and Commercial entities.

In keeping abreast with rapid changes in the information and cyber physical society, SENTECH's product and service offering has expanded to include SENTECH CONNECT which is Connectivity tailored for all sectors in rural and underserviced areas.

# Connectivity Technology

SENTECH CONNECT provides high speed broadband access, always on Internet connection for government facilities in hard-to-reach areas in South Africa with a minimum speed of 10Mbps scalable to 100Mbps. The network enables data, voice, video and other multimedia applications for any device, any network, anywhere and for any business use. Our team designs networks and implements state-of-the-art fully integrated solutions for the following broadband access technologies:



Broadband Access Network



IP Core/Edge Networks



IP/MPLS Networks



Data Centre Solutions



Transmission/Backhaul Solutions

#S4IR



## Smart Farming

Livestock contributes significantly to the livelihoods of people living in the rural areas, with stock theft being the biggest challenge that farmers face today, with statistics showing that this is on the increase.

SENTECH CONNECT's smart farming solution aims to address the challenges of farming in South Africa which is to address:

- Stock Theft,
- Loss of human lives,
- Fatal accidents,
- Devastating financial effect on community's, rural and commercial farmers,
- Threat to endangered species such as Rhinos.

Our solution is a world where the farmer can sit in the comfort of his own home, office or holiday resort and communicate with his livestock using his laptop, smartphone or tablet etc. A world where a farmer gets notified once something is disturbing his livestock via SMS. A world where the farmer receives a notification if his livestock are straying from the designated grazing area. A world where the farmer can communicate with his livestock and be notified if they have been lying idle for too long as a result of either being sick, giving birth.

This world has made Smart Farming realistic through harnessing the power of IoT and innovative technology solutions through:

- Reducing poaching of Rhinos and other endangered species,
- Early detection of veld fires,
- Getting an early warning of stray animals on roads to avoid fatal accidents,
- Monitoring water and dam levels,
- Monitoring the growth of crops in a farm,
- Monitoring the tampering of crops within a farm.



This is a state-of-the-art remote monitoring and management IoT technology that allows farmers of small and large livestock herds to manage their stock more effectively and easily from anywhere in the world using a cell phone, tablet, laptop or desktop. The system works via Cellular and or Satellite technology to perform the following:

- animal theft prevention and tracking,
- early theft warning,
- animal location,
- automatic herd counting,
- geo fencing to detect animals straying from designated areas,
- health monitoring that can curb the spread of diseases,
- monitor cattle physiological behavior: walking, running grazing, jumping, laying, in-heat,
- increase yield by 10-15% and reduce operational cost,
- integrated drone technology.

## Smart Maritime Services

### “Transforming the maritime experience”

As maritime technology and crew requirements rapidly evolves, the need for fast, reliable and cost-effective connectivity has never been greater.

The average ship-to-shore data tariff has increased by nearly 60% over the last two years and the demand from crew to be connect has increased rapidly. Connectivity is no longer a nice-to-have, it's a must-have for ships to navigate and retain the best crew.

SENTECH CONNECT's Maritime VSAT technology and satellite communications are transforming nearly every aspects of the vessel. High-speed, reliable connected vessels not only impact the crew's welfare but ship owners or operators will save valuable time, money and resources by:

- Enabling ships to be integrated into a shipping companies' IT infrastructure,
- Facilitates remote monitoring and control,
- Optimizing maintenance schedule and fuel consumption,
- Treating crew via telemedicine,
- Provide entertainment services to crew,
- On the job training.

With global coverage through a network of satellites, you'll have uninterrupted connectivity anywhere in the world. Sentech Connect helps you to be in business, anywhere in the world



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