



IoT Technology Enables

UTILITIES

To Operate More Efficiently

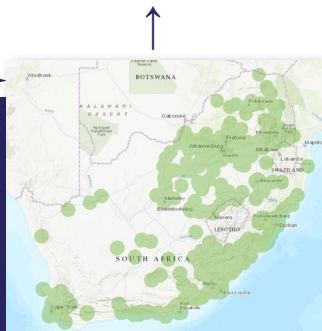
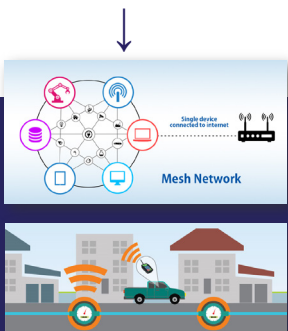


Sigfox represents a fundamental shift in smart utility communications, driven by the latest advancements in software-defined network technology.

Sigfox's 0G technology is used in water management to remotely and securely manage public assets, such as water meters, saving time and resources for utility companies. Overall, Sigfox's 0G technology plays a crucial role in enabling efficient and cost-effective smart utility solutions, with applications in smart cities, water management, and smart buildings.

FROM RANGE

TO COVERAGE



Challenge

Utilities have a unique set of connectivity challenges that have traditionally been difficult and/or expensive to address. Some of the main contributing factors include:

1

Area Coverage

Meters are deployed across large geographical areas.

2

Accessibility

In many cases, meters are not easily accessible.

3

Power Constraints

Smart water meters typically lack access to external power and rely on batteries for extended periods.

4

High Costs

Smart Utility solutions can be costly, especially for large-scale deployments

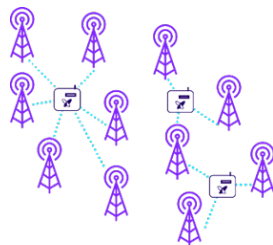
Traditionally, utility companies have deployed connectivity solutions utilising fixed-line communication, drive-by reading, walk-by reading, or local short-range networks. In each of these cases, there is an uncomfortable trade-off between:

- **Communication range**
- **Battery life**
- **System complexity**

Solution Overview

Sigfox SA represents a fundamental shift in smart utility communications, driven by the latest advancements in software-defined network technology.

- Sigfox SA messages leverage spatial diversity, a key feature where they're securely received simultaneously on multiple frequencies by multiple base stations.
- This allows Sigfox to offer an enterprise-grade network service, and frees utility companies to focus on their core business operations.
- Installation teams can easily verify they're in a covered network zone, eliminating the need for time-consuming setup procedures with local concentrators and signal strength limitations.
- Sigfox, a globally recognized open-source technology, leverages a resilient national open-access network built for high capacity and reliability. This assures utilities they're partnering with a future-proof solution, already trusted by over 10 million devices worldwide, thanks to its open-source nature and accessible network.



Sigfox SA has an established track record of supporting large commercial utility deployments. Approximately 200K utility meters communicate over the Sigfox SA network every day, from across diverse geographies and from multiple service providers. The superior range and penetration of the advanced Sigfox ultra-narrowband (UNB) signal makes it the ideal connectivity choice to reach meters that are often installed in challenging environments.



In addition to the national coverage footprint, Sigfox SA offers several options for customers to further expand network coverage wherever required. The Sigfox SA coverage-as-a-service (CaaS) products ensures that customers will never be without Sigfox coverage, regardless of their location within South Africa.



The Sigfox SA network performance is monitored by a 24/7 network operations centre (NOC), that utilises cutting-edge predictive maintenance technology, which guarantees meeting and exceeding of SLAs.

The Benefits

Sigfox delivers a range of benefits for local government, municipalities, and communities, including:

**SMART
METERING
SYSTEMS**

**LEAK
DETECTION**

**BILLING AND
REVENUE
MANAGEMENT**

To ensure seamless, reliable, and cost-effective utility deployments nationwide, look no further than Sigfox SA's proven track record, wide-reaching network, and innovative coverage solutions.

sigfox
south africa