South Africa

# Affordable, Uncapped Wi-Fi at National Scale















# About project

Project Isizwe is a non-profit organisation that partners with funders and Internet Service Providers to provide equitable internet access to underserved schools and communities.

They **replaced Meta's retired Express Wi-Fi with Powerlynx** to keep its mission alive: "equitable, uncapped internet in every classroom and community". Powerlynx now orchestrates every hotspot, voucher, advert, and analytics, letting the Isizwe team run a country-wide network from one dashboard.



#### Connected users

1 Free / affordable hotspots deployed

1002 hotspot sites in 8 provinces

2 Wi-Fi for education

115 schools connected (70 000+ learners & teachers)

3 Monthly active online users

300 000+ active users monthly

4 Connected community users

**600 000+** users from from **60** underserved communities

## Equipment used

Project Isizwe's hardware setup is flexible yet standardised, centred on MikroTik and Cudy / Cambium APs.







#### Core challanges

- Hyper-diverse footprint schools, townships, mines, malls, wind- & solar-farms need different rules and sponsors.
- Low-income users data must be free or cheaper than R5/day.
- Tiny operations team automation, self-service onboarding and zero-touch updates are essential.
- 4 Hybrid funding mix of CSR sponsors, advertising and voucher sales.



# Sector-by-Sector Impact

# Wi-Fi in Support of Education

- 115 public schools now enjoy uncapped classroom Wi-Fi; daily caps apply only off-campus.
- 70 000 learners & teachers connected in 2024.
- Captive portal shows school logo,
  OTP login and 1 GB/day plan
- Integration with Walebone DNS resolver to filter and block malicious websites and sensitive content.



Vision roadmap: connect 16 000 unserved SA schools by 2030.

# Uncapped R5 Wi-Fi

- R5/day (≈ US \$0.25) for unlimited data.
- Community resellers earn margin on voucher sales; Powerlynx auto-creates users & enforces plan limits.
- Deployed in Lamontville, Mpophomeni, and Dunoon
- Covers over 18,000 homes.
- 130+ high-range APs and 320 home extenders installed
- Over 3,000 unique users, with 1,000+ monthly paying customers.







# Sector-by-Sector Impact

#### Wi-Fi for Economic Growth

- Free guest Wi-Fi in 7 township malls reaches 30 000 shoppers/month,
   500 MB free per user.
- Splash pages with banners and video ad promos from sponsors.

C	ampaigns					
	ID \$	Name	<b>‡</b>	Start date	<b>\$</b>	End da
	1	Bridge City		2024-03-26		2025-0
	2	Diepsloot		2024-03-28		2025-0
	3	Heidelberg		2024-03-28		2025-0
	5	Eyethu		2024-03-28		2025-0
	6	Murchison		2024-03-28		2025-
	7	Eyethu WeCare Food Security		2025-03-27		2025-
	8	Diepsloot WeCare Sporting Chance		2025-04-08		2025-
	9	Motherwell WeCare Sporting Chance		2025-04-08		2025-
	10	Sontonga WeCare Sporting Chance		2025-04-08		2025-







#### Free WiFi for mining and solar and wind farm communities

#### **Glencore Coal**

- Deployed 32 free WiFi hotspots across 28 physical site locations
- 34,000 monthly active users connect to the internet

## **Glencore Ferroalloys**

 25 free WiFi hotspots with 5000+ monthly active users

# Solar farm communities enabled by Acciona

10 sites with 6000+ monthly active users

