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

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 **60** underserved communities

Equipment used

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









Core challanges

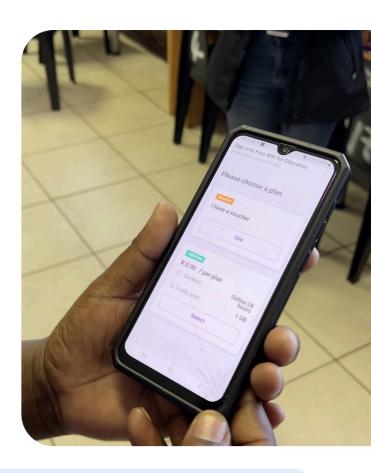
- Hyper-diverse footprint schools, townships, mines, malls, wind- & solar-farms need different rules and sponsors.
- Low-income users data must be free or cheaper than R5/day.
- **Tiny operations team** automation, self-service onboarding and zero-touch updates are essential.
- Hybrid funding mix of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

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ID \$	Name	\$ Start date	\$ End o
1	Bridge City	2024-03-26	2025
2	Diepsloot	2024-03-28	2025
3	Heidelberg	2024-03-28	2025
5	Eyethu	2024-03-28	2025
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

