



UYILO

E-MOBILITY PROGRAMME

enabling electro-mobility innovation

Enabling Tomorrow's Fleet

People, Skills & Technology

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uYilo e-Mobility programme

Hosted in Nelson Mandela University

The uYilo e-Mobility Programme was established in 2013 to serve as a **NATIONAL MULTI-STAKEHOLDER**, collaborative programme focused on **enabling, facilitating** and **mobilising** growth in electric mobility within the transport, and complimentary green economy sector in South Africa.

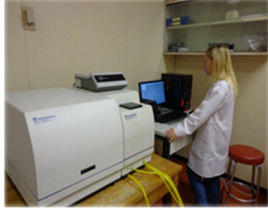
Aligned to **global technology advancements** across **transport, energy** and **ICT** that electric mobility impacts on, uYilo has created a footprint in the local industry, while also leveraging international networks towards advancing the uptake of electric mobility through



Nelson Mandela University

uYilo E-Mobility Programme Facilities - Gqeberha

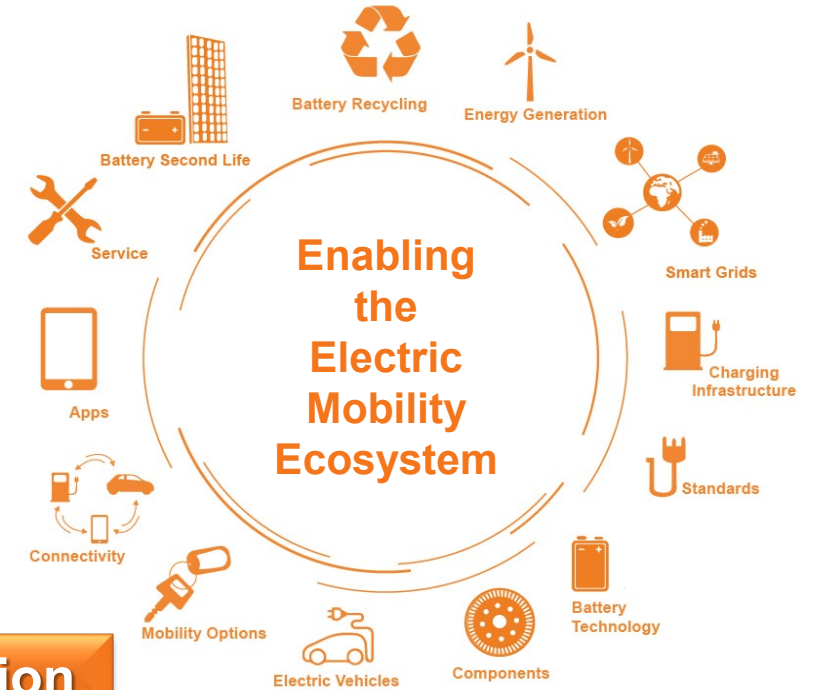
Accredited Battery Testing and Materials Characterisation



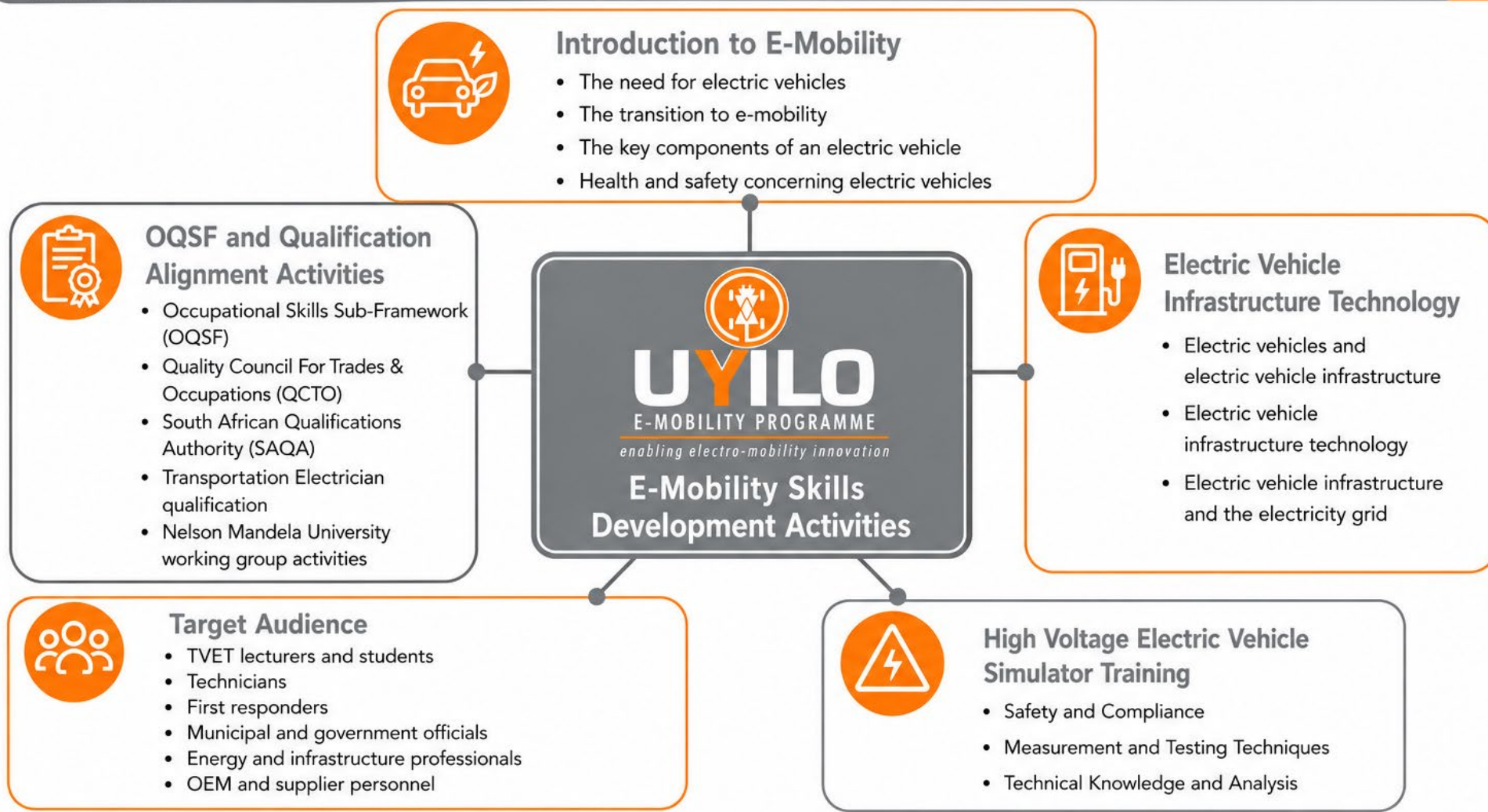
Electric Vehicle Systems



Smart Grid Ecosystem: Testing, Development and Demonstration



Electric Vehicle Awareness and Safety Training Programmes



Developing foundational and technical competencies in electric vehicle technologies, charging infrastructure, and high-voltage safety systems

uYilo E-Mobility Programme

In-Person and Online Skills Development Interventions

- Trained a total of **1616** individuals in e-mobility accredited programmes, including **613 women** and **1003 men** in the last financial year alone.
- **80%** of the AIDC-EC cohort was youth, demonstrating the projects success in engaging and empowering the emerging work force.



uYilo E-Mobility Programme

Emerging Industry and Skills Development



uYilo Kick Start Fund Beneficiaries

Beneficiary profiles: Success stories

Stellenbosch University and MellowCabs (now known as MellowVans): Stellenbosch



Image Source: MellowVans

Project title

- Intelligent Battery Management System, Charger, Drive System

Project duration

- 2016 -2019

Success story

- MellowVans supplies Takealot, DHL, Checkers and Woolworths with first and last mile delivery vehicles. (visit <https://www.mellowvans.com/>)
- MellowVans is also the first electric tricycle in the world to be declared road legal in Europe (visit [Successful South African electric vehicle maker that few people know about – MyBroadband](#))

uYilo Kick Start Fund Beneficiaries

Beneficiary profiles: Success stories

Golden Arrow Bus Services (GABS): Cape Town



Image Source: uYilo

Project title

- Electric Bus Public Transport Feasibility

Project duration

- 2019 -2022

Success story

- GABS has successfully introduced 120 electric buses into the City of Cape Town public transport sector, making a significant reduction in commercial bus tailpipe GHG (**1 405 411 kg** of CO₂) emissions and noise pollution.
- This makes them the first company to operate electric buses commercially and they have the largest fleet in the country. Visit: [Engineering News - GABS](#)

uYilo Kick Start Fund Beneficiaries

Beneficiary profiles: Success stories

Microcare: Gqeberha



Image Source: F. Adriaan

Project title

High-voltage Maximum Power Point Tracking (MPPT) Direct Solar EV Fast Charger

Project duration

- 2023 - 2025

Success story

- Microcare launched their high-voltage direct solar EV fast charger in September 2024
- Additional project: Off-grid Solar EV Charging Station with integrated MPPTs and Electric Vehicle Supply Equipment, with the ability to also charge a high-voltage backup battery .
- Visit <https://microcare.co.za/>
- Visit [Nelson Mandela Bay company charging ahead to support electric vehicles](#)

uYilo Kick Start Fund Beneficiaries

Beneficiary profiles: Success stories

GoMetro-FlxEV: Cape Town



Image Source: GoMetro

Project title

- Electric minibus - Development of specifications for Public Transport Interchange (PTI) charging facilities through the design-build-operate-maintain of a pilot site at Century City taxi rank

Project duration

- 2022 - 2026

Success story

- The electric mini bus taxi was launched in October 2024
- Visit: [South Africa's first electric minibus](#)
- Visit: [SA launches first electric minibus taxi](#)
- Additional project: Development and demonstration of a working vehicle-to-home system for electric minibus taxis, including hardware integration, safety validation, and operational guidelines.

Thank You

Facilities (Gqeberha)

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