

A man and a woman, both wearing green Gaingo uniforms and caps, are riding a green and yellow Gaingo motorcycle down a street. The man is in the driver's seat, and the woman is sitting behind him. The motorcycle has a yellow lightning bolt logo and the word "Gaingo" on the front. The background shows a street with colorful buildings and other people.

Gaingo Project Introduction

Gaingo means the combination of Gain+go, which is just like our mission, vision and values. We hope that with our help, hardworking people who are willing to yearn for a better life can realize their dreams.

Ride to a better life



Company Introduction



Gaingo, a mobility-focused subsidiary of Smartcity — Zambia's leading energy technology company, carries forward Smartcity's core philosophy of "Technological Innovation, Energy Equity, and Sustainable Development". Committed to serving aspiring African passenger transport entrepreneurs seeking prosperity through diligence, Gaingo provides high-quality and sustainable production materials services. This approach ensures the sustainable development of its business model while establishing efficient passenger transport capacity foundations for Africa's commercial ecosystem.

Corporate Values

- **Mission**

To enable diligent African passenger transport entrepreneurs to thrive through quality, sustainable production materials services.

- **Vision**

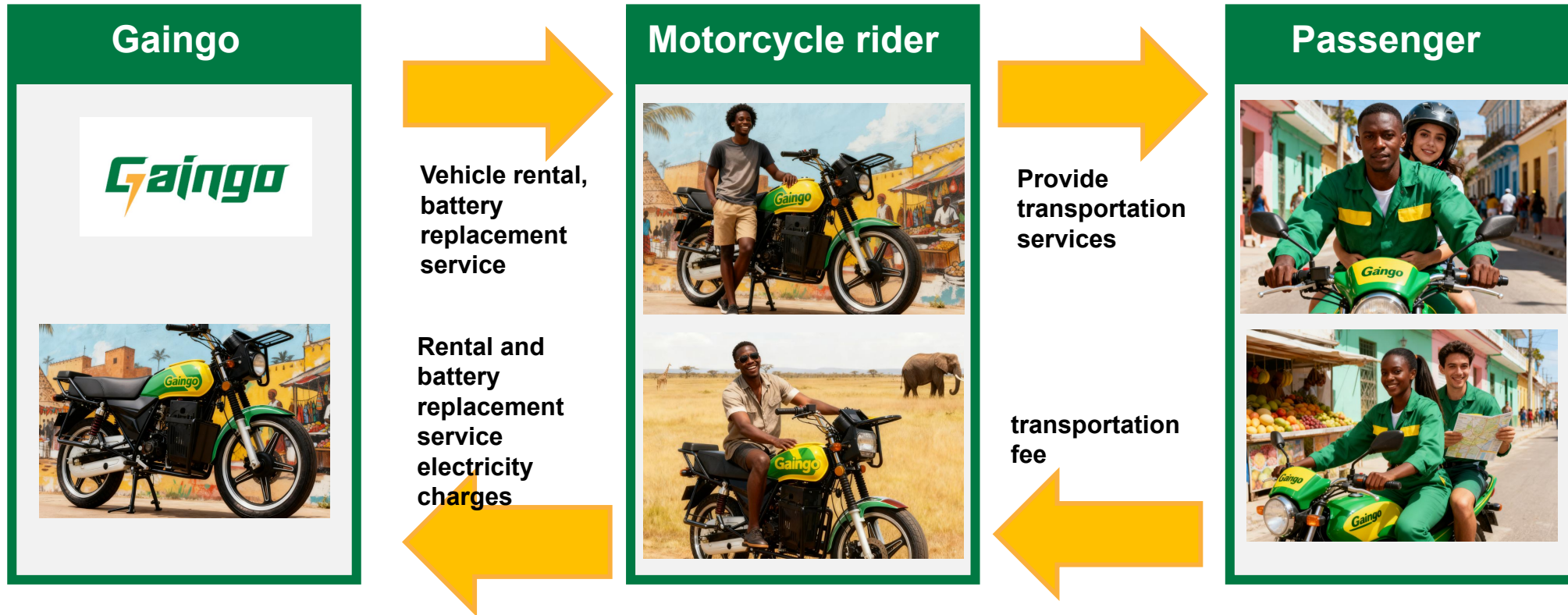
To achieve a clean, efficient, and sustainably developed transportation ecosystem in Africa.

- **Values**

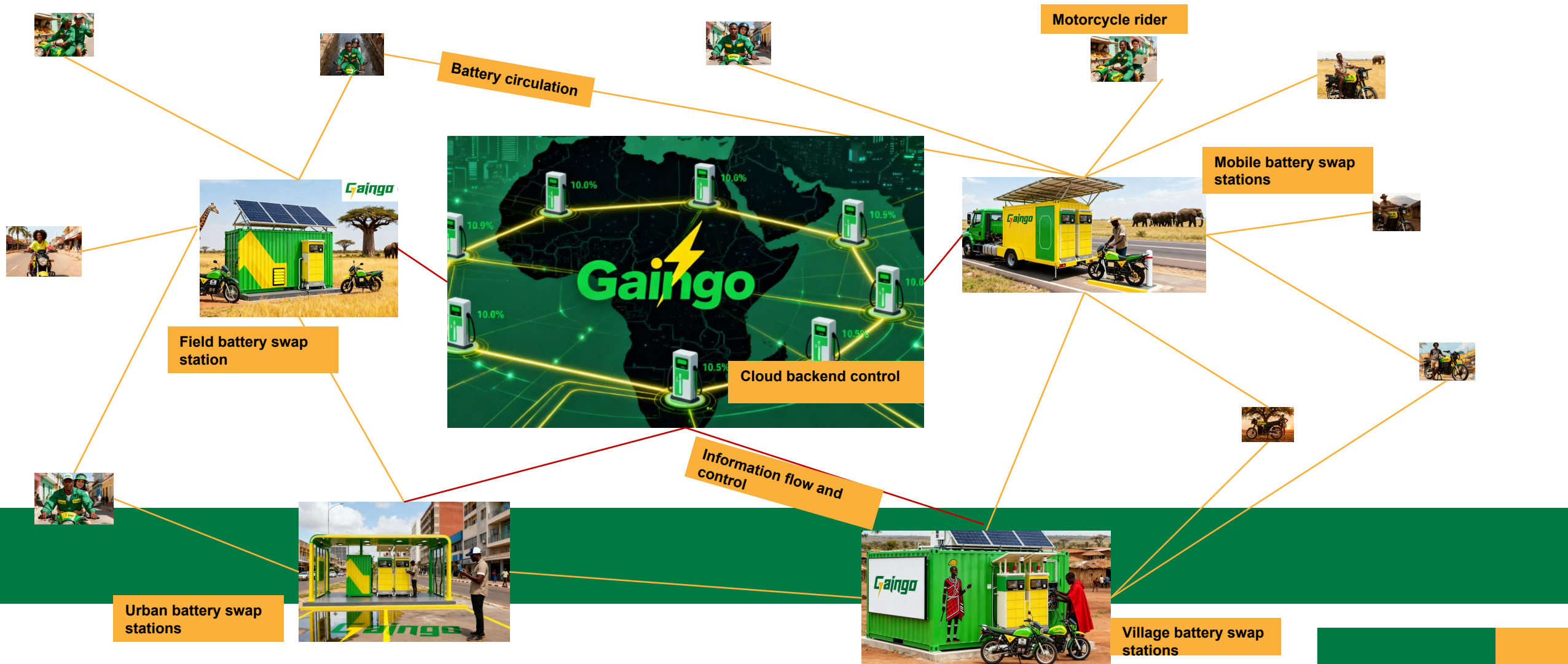
Client First, Authenticity, Efficiency, Innovation.



Business Model



Operation Model



Market Introduction



Population and Urbanization

As of 2025, Zambia has a total population of approximately 21.91 million, with a high annual growth rate of 2.81% (2025 data). This growth rate indicates that the country's population is projected to double approximately every 25 years. Lusaka, serving as the nation's capital and largest city, had a provincial population exceeding 3.3 million according to the 2022 census preliminary results, accounting for over 17% of the national total.

Zambia faces significant traffic congestion, which is highly concentrated. Its capital city, Lusaka, forms the absolute epicenter of this congestion. The resulting low commuter efficiency has fostered a strong demand for convenient short-distance transportation solutions.

Market Introduction



Current Transportation Structure

- **Vehicle Composition:** Dominated by informally operated fuel-powered minibuses, which account for over 80% of public transport. Private car ownership is low (approx. 4.5 per 100 people), while motorcycles (Boda-Boda) play a significant role in short-distance travel.
- **Travel Patterns:** Trips are primarily for commuting (mining, services) and daily livelihood purposes, with severe congestion during peak hours.
- **Energy Mix:** Nearly complete reliance on fossil fuels (petrol/diesel), with extremely low electric vehicle (EV) penetration (<0.1%). However, hydropower constitutes over 80% of the electricity supply, presenting a significant potential advantage for any future transition to electrification. The current prevalence of older, high-fuel-consumption vehicles results in low energy efficiency and prominent pollution issues.

Market Introduction

In-Depth User Needs Interviews

A study of 300 typical users (150 individual riders, 100 logistics couriers, and 50 tuk-tuk drivers) revealed the following insights:

Charging Pain Points: 87% of respondents cited insufficient public charging stations, while 62% reported order delays due to charging wait times. With each charging session taking 4–8 hours, effective daily working hours are reduced by an average of 2.3 hours.

Cost Concerns: Monthly fuel expenses for gasoline vehicles range from USD 120–150, whereas the theoretical cost for electric vehicles is only USD 30–40. However, the upfront battery cost (USD 600–800) remains a major barrier to adoption.

Range Anxiety: Existing electric vehicles offer an average range of 80 km, sufficient for only 25% of users' daily needs. 75% of logistics riders expressed the need for a minimum range of 180 km.



Pricing Strategy



- Time-of-day pricing:
 - Peak hours (7-9 AM, 4:30-6:30 PM): Battery swap price increased by 20% (\$3.60/trip)
 - Off-peak hours (10 PM - 6 AM): Battery swap price decreased by 30% (\$2.10/trip)
- Volume discounts:

Monthly battery swaps	Unit price	Discount rate	Target users
1-10 swaps	\$2.50	-	Low-frequency users
11-30 swaps	\$2	16.7%	Regular riders
30+ swaps	\$1.50	33.3%	Logistics riders

Vehicle-XP



Dasicdata

Product dimensions	2020*780*1060mm
Wheel base	1300mm
Tire size(Front/Rear)	(Front)2.75-18/(Rear)19/19-18
Minimum Ground Clearance	220mm
Net weight(Without battery)	102kg
Max load	300kg
Brake mode(Foot or Hand)	Front hand brake; Rear foot brake
Brake type	Front disc brake;Rear drum brake
Absorber	Hydraulic absorber

Power data

Motortype	Mid-motor 3000W-4000W Flat wire
Controller	24 tube 100A
Max Speed	80km/h
Range	50-200km
Climbing capacity	≥ 25°
Battery capacity	72V27Ah-72V115Ah
Gear shift	3
Reversing function	✓
Double flash	✓
Dashboard display	Speed/Battery/Turn/Signal light/Gear

Vehicle-BOX



Dasicdata

Product dimensions	2100*750*1030mm
Wheel base	1350mm
Tire size(Front/Rear)	Front2.75-17/Rear3.00-17
Minimum Ground Clearance	230mm
Net weight(Without battery)	106kg
Max load	300kg
Brake mode(Foot or Hand)	Front hand brake; Rear foot brake
Brake type	Front disc brake;Rear drum brake
Absorber	Hydraulic absorber

Power data

Motortype	3000-4000W Mid-mounted flat wire reducer 3000-4000W 5000-7000W Mid-mounted flat wire reducer 5000-7000W
Controller	24 tube busbar current 100A phase line current 330A 30-36 tube busbar current 130A phase line current 420A
Max Speed	80km/h
Range	50-200km
Climbing capacity	≥ 25°
Battery capacity	72V27Ah-72V115Ah
Gear shift	3
Reversing function	✓
Double flash	✓
Dashboard display	Speed/Battery/Turn/Signal light/Gear

Vehicle-Jin CG



Dasicdata	
Product dimensions	2050*720*1030mm
Wheel base	1260mm
Tire size(Front/Rear)	Front3.00-18/Rear90/90-18
Minimum Ground Clearance	205mm
Net weight(Without battery)	96kg
Max load	260kg
Brake mode(Foot or Hand)	Front hand brake; Rear foot brake
Brake type	Front disc brake;Rear drum brake
Absorber	Hydraulic absorber

Power data	
Motortype	3000-4000W Mid- mounted flat wire reducer 3000-4000W 5000-7000W Mid- mounted flat wire reducer 5000-7000W 3000-4000W Mid-mounted direct-drive round wire 3000-4000W
Controller	24 tube busbar current 100A phase line current 330A 30-36 tube busbar current 130A phase line current 420A 24 tube busbar current 120A phase line current 400A
Max Speed	80km/h
Range	50-200km
Climbing capacity	≥ 25°
Battery capacity	72V27Ah-72V115Ah
Gear shift	3
Reversing function	✓
Double flash	✓
Dashboard display	Speed/Battery/Turn/Signal light/Gear

Battery



Lithium iron phosphate has a warranty of 1000 cycles, while lithium nickel cobalt manganese oxide has a warranty of 700 cycles.

Regular maintenance plan

To ensure battery performance, it is recommended to participate in a regular maintenance plan. For specific details, please consult customer service.

Battery swap cabinet



City battery swap stations (using city grid power for charging and battery swapping)



Rural battery swap stations (using solar energy for charging and battery swapping)

Battery swap cabinet



Off-road battery swap station (using solar energy for charging and battery swapping)



Mobile battery swap station (using solar energy for charging and battery swapping)

Cloud backend



Data Dashboard	Operational Data Monitoring Platform									
Scenario Services	Cabinet Services				SaaS Services				Battery Swap User App	
Business Operations	Package Configuration	Battery Swap Management	Package configuration	Rental Management	Membership Management	Real-name Authentication	Coupon Promotions	Channel Promotions		
	Insurance Configuration	Order Management	Insurance setup	Order mgmt	Esignature	Certif Waiver	Referral Prgrams	Event Configuration		
Business Applications	Operator Configment	Channel Management	Cabinet Configuration	Cabinet Management	Battery Configuration	Battery Management	Vehicle Setup	Vehicle Management	Financial Management	Report Management
	Franchise Management	Store Management	Cabinet Control	Cabinet OTA	Battery Configuration	Battey BMS	Vehicle Types	Vehicle Typool	Split Billing	System Settings
Infrastructure	Lithium Batteries		Battery Swap Cabinets		E-motorcycles & E-bikes		Open API Integration		Other Infrastruction	

Batteries and vehicles with IOT can aggregate information to the cloud backend server, which can monitor vehicle and battery information in real time (location, power, battery health)

The background image shows a man and a woman riding a motorcycle on a dirt road. The man is in the driver's seat, wearing a wide-brimmed hat and a bright yellow safety vest with the "Gaingo" logo. The woman is seated behind him, wearing a school uniform. They are both smiling. The motorcycle has a headlight that is turned on, and the "Gaingo" logo is visible on the front fairing. The scene is set at sunset, with large trees lining the road and a warm, golden light in the sky.

**Thank you for reading.
Join Gaingo.
May clean energy
empower the African
continent, may every
hardworking and
courageous person
enjoy a better life, and
may the development of
a community with a
shared future for
mankind become
increasingly harmonious.**