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Electric Vehicles South Africa

This survey is for people who drive or own a taxi. The intention is to measure their perceptions about electric taxis.

*Note: This survey is for taxi drivers, owners, drivers + owners and users. Each question states which group will answer the question, which will automatically be directed in Microsoft Forms*.

# Consent [all]

By selecting yes below, you are consenting to participate in this survey about taxis in South Africa and that you are over the age of 18. Please only complete this survey if you either ride, drive, or own a taxi.

Your personal information will be anonymised and data collected from this survey will be stored on a secure server. You may, at any time, stop the survey if you do not wish to continue.

Please click yes if you wish to continue, or no to exit the survey.

* Yes
* No

# Demographics [all]

In which country do you live?

\*drop down menu with all African countries\*

What is your home language?

\*drop down menu with all languages + other option with text box\*

Which city are you living in now?

\*text box with Google maps autofill / selection\*

How old are you?

* 18-24
* 25-34
* 35-44
* 45-54
* 55-64
* 65+

What is you gender?

* Male
* Female
* Intersex
* Transgender male
* Transgender female
* Non-conforming / non-binary
* Other
* Prefer not to answer

# Education [all]

What is the level of schooling have you successfully completed or passed?

* Grade R/0
* Grade 1 (previously Sub A/ class 1)
* Grade 2 (previously Sub B/ class 2)
* Grade 3 (Std. 1)
* Grade 4 (Std. 2)
* Grade 5 (Std. 3)
* Grade 6 (Std. 4)
* Grade 7 (Std. 5)
* Grade 8 (Std. 6/ Form 1)
* Grade 9 (Std. 7/ Form 2)
* Grade 10 (Std. 8/ Form 3)
* Grade 11 (Std. 9/ Form 4)
* Grade 12 (Std10 / Matric / Senior Certificate / Form 5)
* No Schooling
* Don’t know

Have you completed ANY tertiary education?

i.e., any university, technical and vocational training, college or similar

* Yes
* No

# Tertiary Education [all, only if yes to previous question]

What education have you received after school?

* TVET
* College
* University

What is the highest level of tertiary education you have successfully completed?

* 1 year
* 2 years
* 3 years
* 4 years
* Diploma
* Advanced Diploma
* Bachelors
* Honours
* Masters
* PhD

# Taxis [all]

Please select the option that applies to you:

Do you…?

* Drive a taxi
* Own a taxi
* Drive and own a taxi
* User of taxi service for transport

# Taxi Driver

How long have you been a taxi driver?

* Less than 1 year
* 1 to 4 years
* 4 to 8 years
* 8 to 12 years
* 12 to 16 years
* 16 to 20 years
* 20 to 24 years
* 24 to 28 years
* 28 to 32 years
* 32 years or more

How many days of the week do you drive a taxi?

1 2 3 4 5 6 7

What days do you drive a taxi?

* During the week
* During the weekend
* Both

[If during weekday or both] How many hours do you drive a taxi on per weekday?

* 2 hours or less
* 2 to 4 hours
* 4 to 6 hours
* 6 to 8 hours
* 10 to 12 hours
* 12 to 14 hours
* More than 14 hours

[If during weekend or both] How many hours do you drive a taxi on per weekend day?

* 2 hours or less
* 2 to 4 hours
* 4 to 6 hours
* 6 to 8 hours
* 10 to 12 hours
* 12 to 14 hours
* More than 14 hours

[If during weekday or both] How many kilometres do you drive per weekday?

* 0 – 50km
* 51 – 100km
* 101 – 150km
* 151 – 200km
* 201 – 250km
* 251 – 300km
* 300km +
* Don’t know

What is you approximate average income per **day**?

* \*drop down menu for currency, text box for number\*
* Don't know
* Prefer not to say

Do you know what an electric taxi is?

* Yes
* No

How do you expect an electric taxi will benefit you? (select all that apply)

* Safer than petrol/diesel taxis
* Less expensive to operate than petrol/diesel taxis
* More reliable than petrol/diesel taxis
* Longer range than petrol/diesel taxis
* More passengers than petrol/diesel taxis
* Faster charging an electric taxi than filling with diesel/petrol
* Faster speeds with an electric taxi than petrol/diesel taxis
* Lower engine noise than petrol/diesel taxis
* Less exhaust gasses (less emissions and pollution)
* Don’t know
* None of the above

What risks would an electric taxi introduce to your operations? (select all that apply)

* More dangerous than petrol/diesel taxis
* More expensive to operate than petrol/diesel taxis
* Less reliable than petrol/diesel taxis
* Shorter distances between charging than petrol/diesel taxis
* Fewer passengers than petrol/diesel taxis
* Longer periods of charging than filling petrol/diesel taxis
* Slower speeds than petrol/diesel taxis
* More noisy than petrol/diesel taxis
* More pollution and emissions than petrol/diesel taxis
* Don’t know
* None of the above

Driving an electric taxi would be better for you than driving a petrol/diesel taxi

* Strongly Disagree
* Disagree
* Neutral
* Agree
* Strongly Agree
* Don’t know

Which of the following do you think will cost more to run the taxi per day?

* Fuel cost for petrol and diesel taxi
* Electricity costs for charging electric taxi
* They would cost the same
* Don’t know

# Taxi Owner

How wany taxis do you own?

* 1
* 2
* 3
* 4
* 5
* 6
* 7
* 8
* 9
* 10+

How long have you owned a taxi for?

* Less than 1 year
* 1 to 4 years
* 4 to 8 years
* 8 to 12 years
* 12 to 16 years
* 16 to 20 years
* 20 to 24 years
* 24 to 28 years
* 28 to 32 years
* 32 years or more

Do you own mostly petrol or diesel taxis?

* Petrol
* Diesel
* Don’t know

How old is your oldest vehicle?

* Less than 1 year
* 1 to 3 years
* 3 to 6 years
* 6 to 9 years
* 9 to 12 years
* 12 to 15 years
* 15 to 18 years
* 18 to 21 years
* 21 to 24 years
* 24 to 27 years
* 27 to 30 years
* 30 years or more

How old is your average vehicle? [only ask if more than 1 taxi owned]

* Less than 1 year
* 1 to 3 years
* 3 to 6 years
* 6 to 9 years
* 9 to 12 years
* 12 to 15 years
* 15 to 18 years
* 18 to 21 years
* 21 to 24 years
* 24 to 27 years
* 27 to 30 years
* 30 years or more

How far does one of your taxi(s) drive on an average day?

* 0 – 50km
* 51 – 100km
* 101 – 150km
* 151 – 200km
* 201 – 250km
* 251 – 300km
* 300km +
* Don’t know

What is you approximate average income per **week**?

* \*drop down menu for currency, text box for number\*
* Don't know
* Prefer not to say

Do you know what an electric taxi is?

* Yes
* No

How would an electric taxi benefit you? (check all that apply)

* Safer than petrol/diesel taxis
* Less expensive to operate than petrol/diesel taxis
* Electric taxi is cheaper to buy than a petrol/diesel taxi
* Electric taxi is cheaper to service
* More reliable than petrol/diesel taxis
* Longer range than petrol/diesel taxis
* More passengers than petrol/diesel taxis
* Faster charging an electric taxi than filling with diesel/petrol
* Faster speeds with an electric taxi than petrol/diesel taxis
* Lower engine noise than petrol/diesel taxis
* Less exhaust gasses (less emissions and pollution)
* Don’t know
* None of the above

What risks would an electric taxi introduce to your operations? (check all that apply)

* More dangerous than petrol/diesel taxis
* More expensive to operate than petrol/diesel taxis
* Electric taxi more expensive to buy than petrol/diesel taxi
* Electric taxi is more expensive to service
* Less reliable than petrol/diesel taxis
* Shorter distances between charging than petrol/diesel taxis
* Fewer passengers than petrol/diesel taxis
* Longer periods of charging than filling petrol/diesel taxis
* Slower speeds than petrol/diesel taxis
* More noisy than petrol/diesel taxis
* More pollution and emissions than petrol/diesel taxis
* Don’t know
* None of the above

Having an electric taxi would benefit your business

* Strongly Disagree
* Disagree
* Neutral
* Agree
* Strongly Agree
* Don’t know

Which one would cost more to run the taxi per day?

* Fuel cost for petrol and diesel
* Electricity costs for charging
* They would cost the same
* Don’t know

Which one would cost more to buy?

* Petrol or diesel taxi
* Electric taxi
* They would cost the same
* Don’t know

Which one would have more service costs?

* Petrol or diesel taxi
* Electric taxi
* They would cost the same
* Don’t know

# Taxi Driver + Owner

How wany taxis do you own?

* 1
* 2
* 3
* 4
* 5
* 6
* 7
* 8
* 9
* 10+

How long have you owned a taxi for?

* Less than 1 year
* 1 to 4 years
* 4 to 8 years
* 8 to 12 years
* 12 to 16 years
* 16 to 20 years
* 20 to 24 years
* 24 to 28 years
* 28 to 32 years
* 32 years or more

Do you own mostly petrol or diesel taxis?

* Petrol
* Diesel
* Don’t know

How old is your oldest vehicle?

* Less than 1 year
* 1 to 3 years
* 3 to 6 years
* 6 to 9 years
* 9 to 12 years
* 12 to 15 years
* 15 to 18 years
* 18 to 21 years
* 21 to 24 years
* 24 to 27 years
* 27 to 30 years
* 30 years or more

How old is your average vehicle? [only ask if more than 1 taxi owned]

* Less than 1 year
* 1 to 3 years
* 3 to 6 years
* 6 to 9 years
* 9 to 12 years
* 12 to 15 years
* 15 to 18 years
* 18 to 21 years
* 21 to 24 years
* 24 to 27 years
* 27 to 30 years
* 30 years or more

How far does one of your taxi(s) drive on an average day?

* 0 – 50km
* 51 – 100km
* 101 – 150km
* 151 – 200km
* 201 – 250km
* 251 – 300km
* 300km +
* Don’t know

How long have you been a taxi driver?

* Less than 1 year
* 1 to 4 years
* 4 to 8 years
* 8 to 12 years
* 12 to 16 years
* 16 to 20 years
* 20 to 24 years
* 24 to 28 years
* 28 to 32 years
* 32 years or more

How many days of the week do you drive taxi?

1 2 3 4 5 6 7

What days do you drive taxi?

* During the week
* During the weekend
* Both

[If during weekday or both] How many hours do you drive taxi on per weekday?

* 2 hours or less
* 2 to 4 hours
* 4 to 6 hours
* 6 to 8 hours
* 10 to 12 hours
* 12 to 14 hours
* More than 14 hours

[If during weekend or both] How many hours do you drive taxi on per weekend day?

* 2 hours or less
* 2 to 4 hours
* 4 to 6 hours
* 6 to 8 hours
* 10 to 12 hours
* 12 to 14 hours
* More than 14 hours

[If during weekday or both] How many kilometres do you drive per weekday?

* 0 – 50km
* 51 – 100km
* 101 – 150km
* 151 – 200km
* 201 – 250km
* 251 – 300km
* 300km +
* Don’t know

What is you approximate average income per **week**?

* \*drop down menu for currency, text box for number\*
* Don't know
* Prefer not to say

Do you know what an electric taxi is?

* Yes
* No

How would an electric taxi benefit you? (check all that apply)

* Safer than petrol/diesel taxis
* Less expensive to operate than petrol/diesel taxis
* Electric taxi is cheaper to buy than a petrol/diesel taxi
* Electric taxi is cheaper to service
* More reliable than petrol/diesel taxis
* Longer range than petrol/diesel taxis
* More passengers than petrol/diesel taxis
* Faster charging an electric taxi than filling with diesel/petrol
* Faster speeds with an electric taxi than petrol/diesel taxis
* Lower engine noise than petrol/diesel taxis
* Less exhaust gasses (less emissions and pollution)
* Don’t know
* None of the above

What risks would an electric taxi introduce to your operations? (check all that apply)

* More dangerous than petrol/diesel taxis
* More expensive to operate than petrol/diesel taxis
* Electric taxi more expensive to buy than petrol/diesel taxi
* Electric taxi is more expensive to service
* Less reliable than petrol/diesel taxis
* Shorter distances between charging than petrol/diesel taxis
* Fewer passengers than petrol/diesel taxis
* Longer periods of charging than filling petrol/diesel taxis
* Slower speeds than petrol/diesel taxis
* More noisy than petrol/diesel taxis
* More pollution and emissions than petrol/diesel taxis
* Don’t know
* None of the above

Driving an electric taxi would be better for you than driving a petrol/diesel taxi

* Strongly Disagree
* Disagree
* Neutral
* Agree
* Strongly Agree
* Don’t know

Having an electric taxi would benefit your business

* Strongly Disagree
* Disagree
* Neutral
* Agree
* Strongly Agree
* Don’t know

Which one would cost more to run the taxi per day?

* Fuel cost for petrol and diesel
* Electricity costs for charging
* They would cost the same
* Don’t know

Which one would cost more to buy?

* Petrol or diesel taxi
* Electric taxi
* They would cost the same
* Don’t know

Which one would have more service costs?

* Petrol or diesel taxi
* Electric taxi
* They would cost the same
* Don’t know

# Perceptions of Petrol and Diesel Taxis [driver, owner, driver + owner]

Petrol and diesel taxis are safe.

* Strongly Disagree
* Disagree
* Neutral
* Agree
* Strongly Agree

Petrol and diesel taxis are reliable.

* Strongly Disagree
* Disagree
* Neutral
* Agree
* Strongly Agree

The **fuel** for petrol and diesel taxis is expensive (operate).

* Strongly Disagree
* Disagree
* Neutral
* Agree
* Strongly Agree

To **buy** a petrol or diesel taxi is expensive (purchase).

* Strongly Disagree
* Disagree
* Neutral
* Agree
* Strongly Agree
* Don’t know

To **service** petrol and diesel taxis is expensive (maintenance).

* Strongly Disagree
* Disagree
* Neutral
* Agree
* Strongly Agree
* Don’t know

# Shift to electric taxis [driver, owner, driver + owner]

How many kilometres (km) do you think an electric taxi will drive before it needs to be charged again?

* Less the 50km
* Between 50 to 100km
* Between 150 to 200km
* Between 200 to 250km
* Between 250 to 300km
* Between 350 to 400km
* Between 450 to 500km
* More than 500km

How long do you think an electric taxi will take to fully recharge from an empty battery?

* Less than 10 minutes
* Between 10 to 20 minutes
* Between 20 to 30 minutes
* Between 30 to 1 hour
* Between 1 to 2 hours
* Between 2 to 5 hours
* More than 5 hours

Would you buy an e-taxi when available?

* Strongly Disagree
* Disagree
* Neutral
* Agree
* Strongly Agree
* I am not interested in buying any type of taxi

How much would you be willing to spend on an electric taxi? [only ask is neutral, agree or strongly agree]

\*drop down menu for currency, text box for number\*

Taxis should be made electric.

* Strongly Disagree
* Disagree
* Neutral
* Agree
* Strongly Agree

Are you worried that there won’t be enough charging stations?

* Strongly Disagree
* Disagree
* Neutral
* Agree
* Strongly Agree
* Don’t know

If I had an electric taxi, load shedding and electricity power outages will impact charging and my operations

* Strongly Disagree
* Disagree
* Neutral
* Agree
* Strongly Agree
* Don’t know

To **charge** an electric taxi will be expensive (operate).

* Strongly Disagree
* Disagree
* Neutral
* Agree
* Strongly Agree
* Don’t know

To **buy** an electric taxi will be expensive (purchase).

* Strongly Disagree
* Disagree
* Neutral
* Agree
* Strongly Agree
* Don’t know

To **service** an electric taxi will be expensive (maintenance).

* Strongly Disagree
* Disagree
* Neutral
* Agree
* Strongly Agree
* Don’t know

# Taxi User

How long have you been a taxi user?

* Less than 1 year
* 1 to 4 years
* 4 to 8 years
* 8 to 12 years
* 12 to 16 years
* 16 to 20 years
* 20 to 24 years
* 24 to 28 years
* 28 to 32 years
* 32 years or more

How many days of the week do you use a taxi?

1 2 3 4 5 6 7

What days do you use a taxi?

* During the week
* During the weekend
* Both

How far is your normal trip?

* 0 – 25km
* 26 – 50km
* 51 – 100km
* 101 – 200km
* 201 – 250km
* 250 - 500km
* 500km +
* Don’t know

How much do your normally spend on a taxi trip?

\*drop down menu for currency, text box for number\*

Petrol and diesel taxis are too expensive.

* Strongly Disagree
* Disagree
* Neutral
* Agree
* Strongly Agree

Do you know what an electric taxi is?

* Yes
* No

How would an electric taxi benefit you? (check all that apply)

* Safer than petrol/diesel taxis
* Less expensive than petrol/diesel taxis
* Lower engine noise than petrol/diesel taxis
* Less exhaust gasses (less emissions and pollution)
* Shorter time for long-distance journeys
* Don’t know
* None of the above

What risks would an electric taxi introduce to you? (check all that apply)

* More dangerous than petrol/diesel taxis
* More expensive than petrol/diesel taxis
* More noisy than petrol/diesel taxis
* More pollution and emissions than petrol/diesel taxis
* Longer time for long-distance journeys
* Don’t know
* None of the above

Do you care about the environmental impact of your taxi use?

* Strongly Disagree
* Disagree
* Neutral
* Agree
* Strongly Agree

Would you prefer to use an electric taxi if it is better for the environment?

* Strongly Disagree
* Disagree
* Neutral
* Agree
* Strongly Agree

Which of the following options would you choose for the same long-distance journey:

* $100 which will take 10 hours
* $75 which takes 10.5 hours, but you can only take 25kg baggage
* $75 which will take 13 hours

# Need for Electric Vehicles [all]

In how many years from now will it be possible to buy an electric vehicle?

* 1 to 3 years
* 4 to 6 years
* 7 to 9 years
* 10 to 12 years
* 12 years or more

In how many years will not be able to buy a diesel or petrol vehicle anymore?

* 1 to 3 years
* 4 to 6 years
* 7 to 9 years
* 10 to 12 years
* 12 years or more

# Climate Change [all]

Climate change is a serious issue.

* Strongly Disagree
* Disagree
* Neutral
* Agree
* Strongly Agree

How concerned are you personally about climate change?

*Not concerned at all* 1 2 3 4 5 6 7 8 9 10 *Extremely concerned*

The taxi industry should reduce their environmental impact.

* Strongly Disagree
* Disagree
* Neutral
* Agree
* Strongly Agree
* Don’t know

Petrol and diesel taxis are an environmental problem.

* Strongly Disagree
* Disagree
* Neutral
* Agree
* Strongly Agree
* Don’t know

Electric taxis will help lessen the harmful environmental impact caused by the taxi industry

* Strongly Disagree
* Disagree
* Neutral
* Agree
* Strongly Agree
* Don’t know

Government should focus on switching to electric vehicles.

* Strongly Disagree
* Disagree
* Neutral
* Agree
* Strongly Agree
* Don’t know

# Personal Characteristics [all]

Would you describe yourself as someone who often take risks?

* Strongly Disagree
* Disagree
* Neutral
* Agree
* Strongly Agree
* Don’t know

Would you describe yourself as someone who has a lot of trust in other people and institutions in general?

* Strongly Disagree
* Disagree
* Neutral
* Agree
* Strongly Agree
* Don’t know

Would you describe yourself as someone who generally trusts new technologies?

* Strongly Disagree
* Disagree
* Neutral
* Agree
* Strongly Agree
* Don’t know