



TROJAN
PRESENTS

Executive Summary	As-is Landscape	Legal Framework	Customer Strategy
Entry Strategy	Pricing Strategy	EV Value Chain	Inroads to the Future

Tesla's India Go-to-market Strategy

- An outside-in perspective



We are here

Business Understanding

Proposed Strategy

Go-To-Market

Executive Summary	As-is Landscape	Legal Framework	Customer Strategy
Entry Strategy	Pricing Strategy	EV Value Chain	Inroads to the Future

Contents

TESLA

To accelerate the advent of
sustainable transport

01

EXECUTIVE SUMMARY

AS-IS LANDSCAPE

02

03

LEGAL FRAMEWORK

CUSTOMER STRATEGY

04

05

ENTRY STRATEGY

PRICING STRATEGY

06

07

EV VALUE CHAIN

INROADS TO THE FUTURE

08

Executive Summary	As-is Landscape	Legal Framework	Customer Strategy
Entry Strategy	Pricing Strategy	EV Value Chain	Inroads to the Future

Executive Summary

Following is a brief overview for setting up the Tesla business in India:

Tesla Key Objectives:

Targeting the right market

Charging infrastructure

Technological Capability

Scaling operations

Path to profitability

Defining the target market

Defined the various segments of **Target market** with **specific needs & purchasing power** in the Indian Market

Focused customer strategy

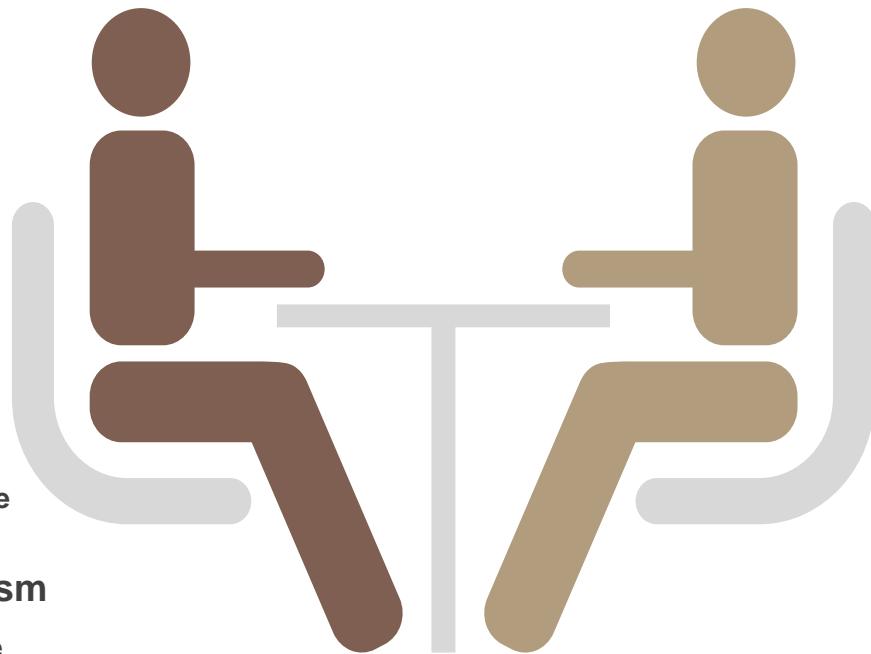
Developed in-depth **customer acquisition, engagement & retention** strategy to achieve sustained value

Sketching the Product launch

Envisioned a **phase-wise product launch** process to build the required trust & credibility w.r.t the **socio-cultural landscape**

Setting up the pricing mechanism

Synthesized a **pricing model** to arrive at the expected **launch prices** & identified the **risks** prevalent specifically in the Indian context



Tackling the charging infra

Critically evaluated alternative approaches towards a **robust charging infrastructure** & finalized on 4-dimensional ecosystem



Supply chain & distribution

Leveraging Tesla's existing advantage of **vertically integrated supply chain** to effectively expand distribution model



Gazing at the competitors

Assessed the **competitive fabric** of Indian automobile industry & drew **parallels with incumbents** like Tata motors



Building the future roadmap

Chalked out the **future steps** for Tesla management highlighting **strategic trade offs** to enter, **grow & succeed** in India

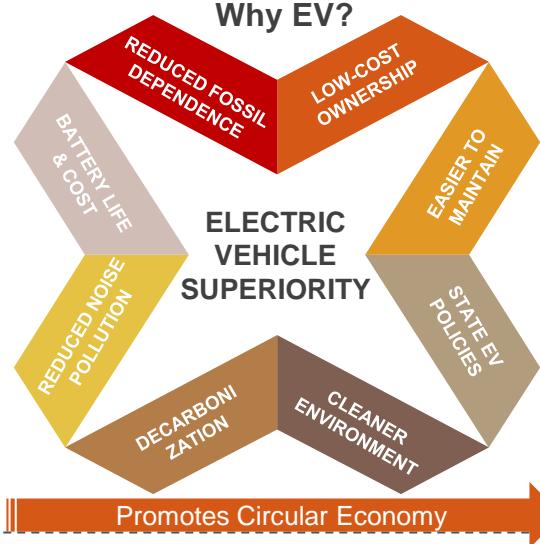


Tesla can enter in the luxury segment, establish their foothold & later scale up to the mass market with more affordable cars

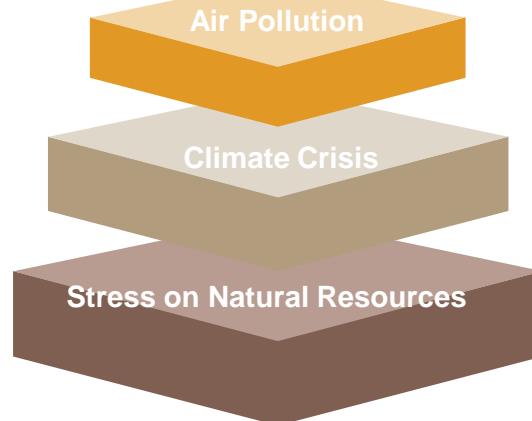
Executive Summary	As-is Landscape	Legal Framework	Customer Strategy
Entry Strategy	Pricing Strategy	EV Value Chain	Inroads to the Future

As-is Indian EV Landscape

As per current forecasts, India is expected to realize only 10-15% electric cars penetration by 2030.



Why India?

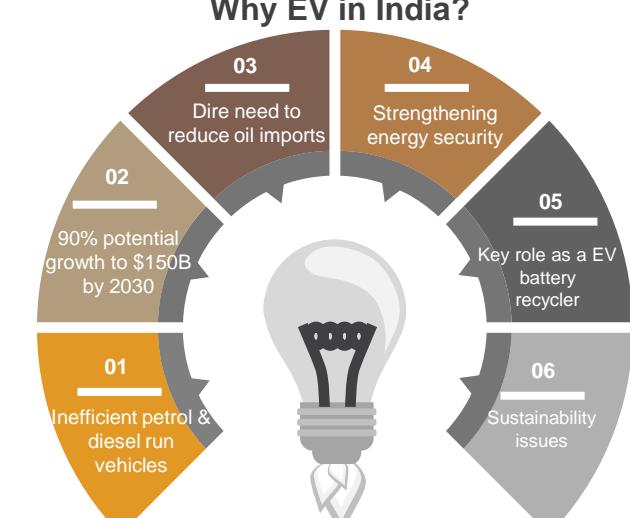


1.6 Million deaths

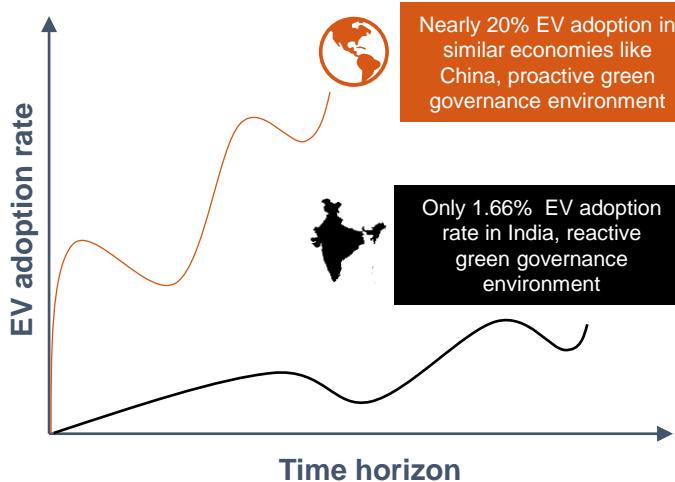
India accounted for more than 25% deaths worldwide due to air pollution in 2020

2020 was the 8th warmest year on record and 2011-2020 the warmest decade ever

50 Years until we run out of both oil and natural gas remaining, 115 years of coal production



India Progress benchmarked with the world



Global leading practices to promote EVs



The National Electromobility Development Plan, 2009

Cross sectoral initiative targeting market leadership in EM by 2022



2014 Automobile Industry Strategy

Promotion of next-gen vehicles and increased R&D & HR with innovation focus



Zero Emission Vehicle Executive Order, 2018

Aim to put zero emission vehicles and infra on road

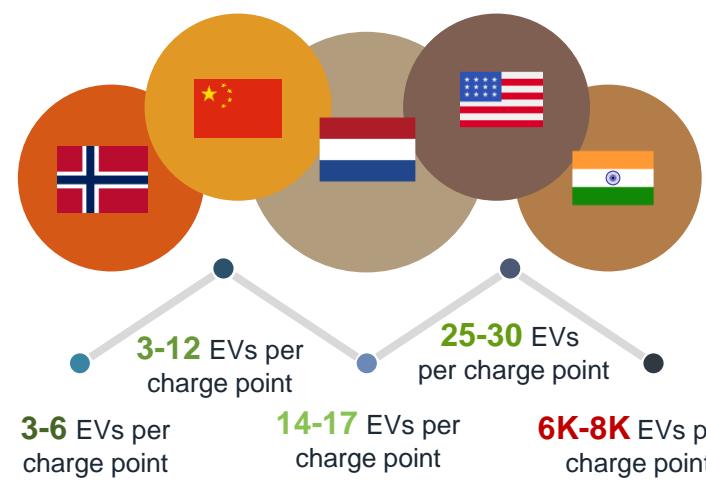


National Environment Strategy, 2020

Manage & promote land transportation to be safe, convenient & sustainable.

Indicative infrastructure landscape

(EV to EVSE ratio across the globe)



Evolving Industry Landscape

Following is a bird's eye view of the EV space which is expected to shape the future of mobility solutions in India:

Overview:

The Electric Vehicles market in India has huge potential for growth with an extremely positive outlook owing to robust automobile industry, mass adoption forecasts & conducive general environment

 ~\$5.47 billion (2020)

 23.4%+ CAGR (E) '21-'26

 ~\$12.6 billion (expected investment over next 5 years)

 1000+ Public charging stations

 ~1.3% of total vehicle sales ('20-'21)

EV Sales in India (A snapshot)

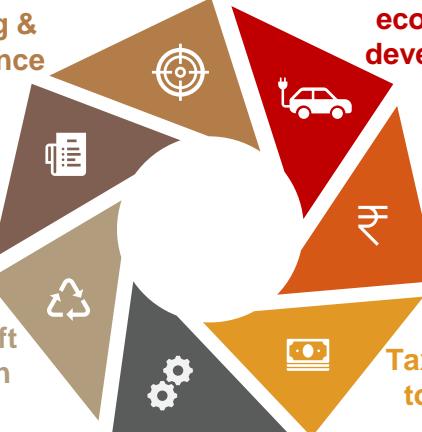
*Absolute numbers (units)

Segment	FY'20	FY'21	Change
	3,400	5,905	+74%
	152,000	143,840	-5%
	600	450	-25%

Note: Figures don't include e-Rickshaws; numbers affected by Covid-19 pandemic
Source: Quartz; SMEV; India Briefing; Frost & Sullivan

Growth drivers & Future prospects

Carbon emission targeting & compliance



Local manufacturing ecosystem development

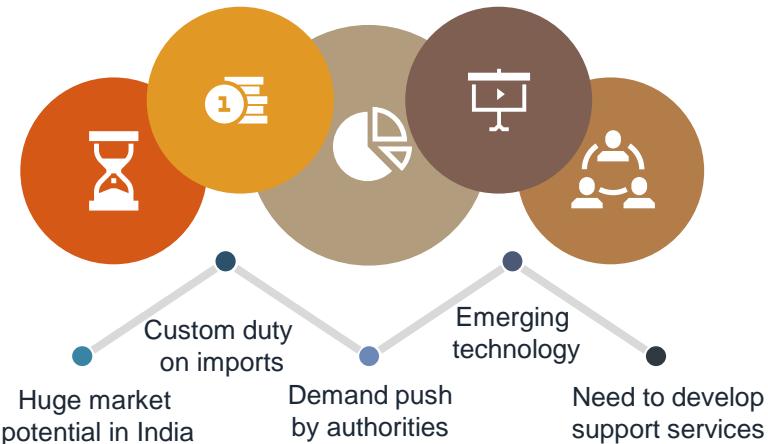
Capacity building & private investment

Tax exemptions to EV makers

NEMMP '20 Govt. promotion scheme

Collective shift towards clean mobility

Core characteristics



Top industry players



TATA MOTORS



TOYOTA



Mahindra ELECTRIC

ATHER



MARUTI SUZUKI

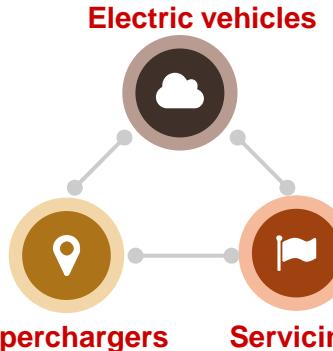


Executive Summary	As-is Landscape	Legal Framework	Customer Strategy
Entry Strategy	Pricing Strategy	EV Value Chain	Inroads to the Future

As-is Company Overview

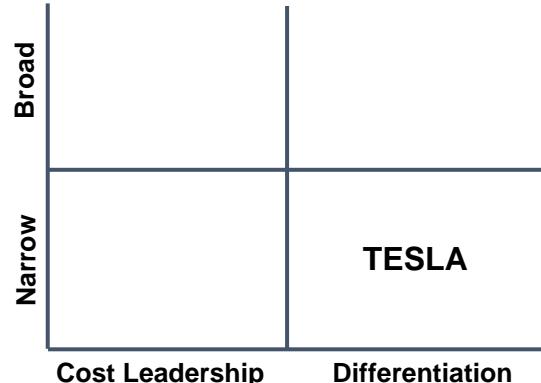
Following is the snapshot of current positioning of Tesla in the Global EV market:

Tesla's Business model



- Three-pronged approach to selling, servicing and charging their electric vehicles
- Vertically integrated supply chain, superior quality, design and performance
- Targets high end clients that value performance and are environment conscious

Competitive Positioning



Company Details

Founded: 2003

CEO: Elon Musk

Countries Served:

- US
- Canada
- UK
- China
- Norway
- Switzerland
- France
- Netherlands
- Germany

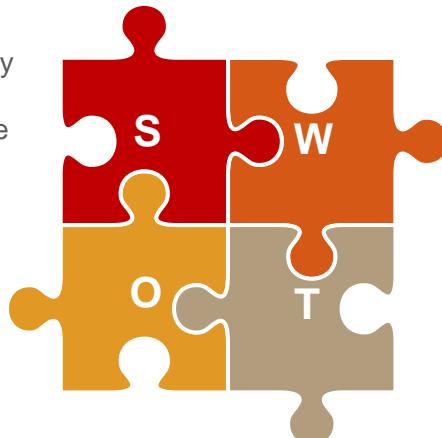
Employees: 70757 **Sales:** 31.5Bn\$ (FY21)

Market Cap: \$1.03 Trillion

SWOT Analysis

Strengths

- Energy Efficiency
- Partnership
- Highly innovative
- Sturdy Brand Image



Opportunity

- Autonomous Driving Technology
- Environment-friendly cars
- Battery Production Technology

Weakness

- Limited Presence
- Premium Product Range
- Succession Strategy

Threat

- Increased Competition
- New technologies
- Long Term Sustainability

Competitive Strengths

First Mover Advantage

Pioneer in EV market

International Brand Recognition

Highest sales in EV
Ownership based selling and distribution

High Innovation Focus

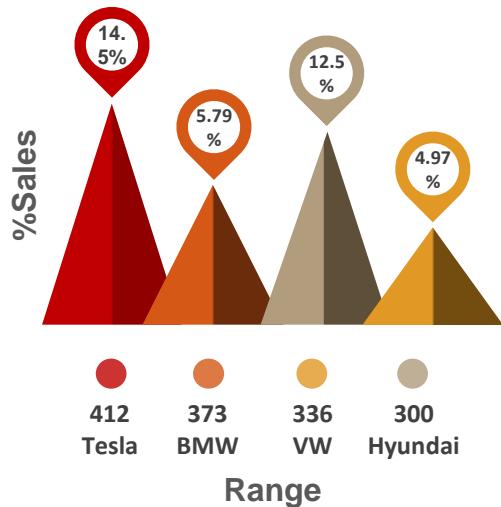
Automation and quality improvement

Vertical Integration

Battery manufacturing plant (Gigafactory) to sales

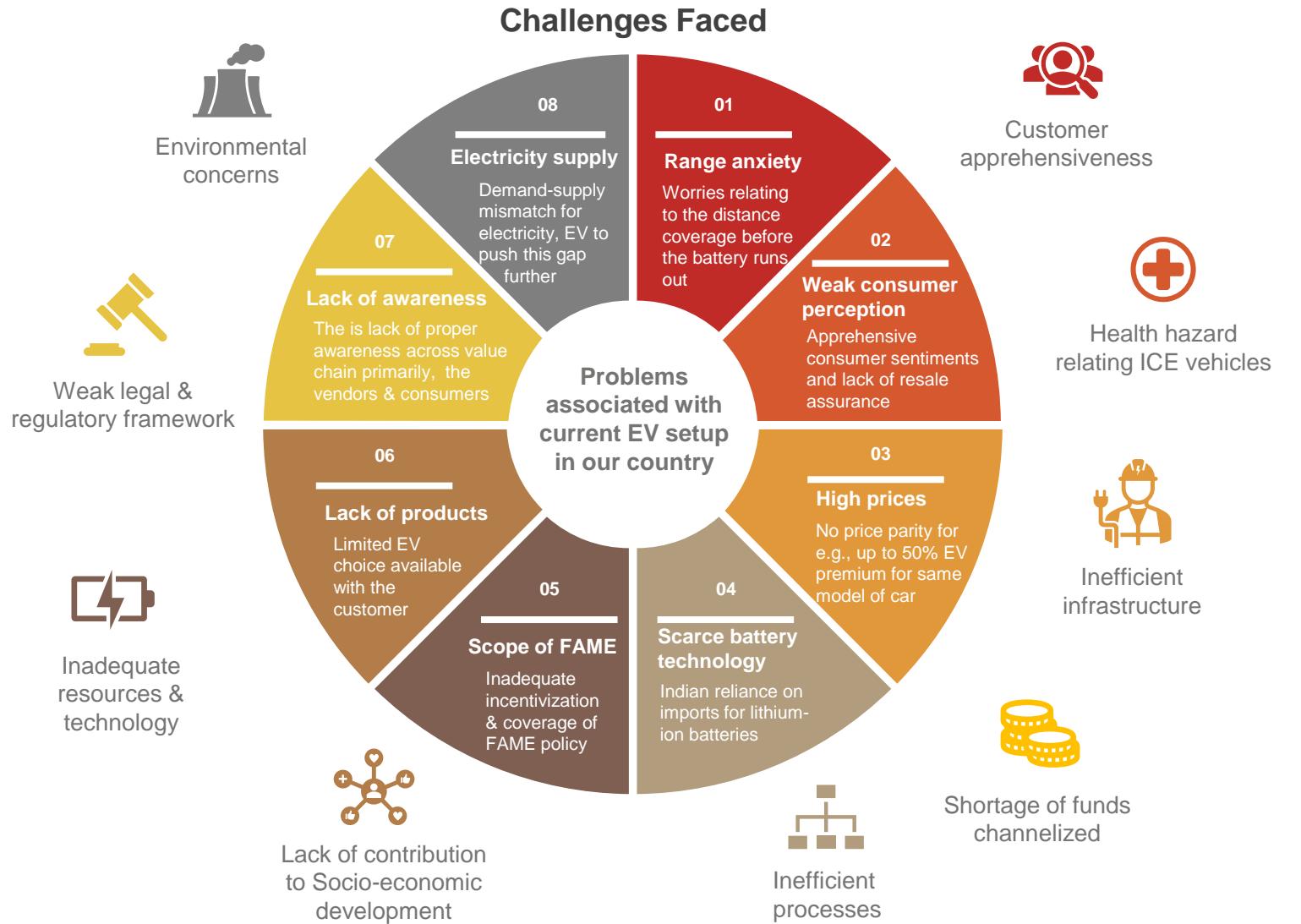
Brand wise %Sales & Range

Tesla dominates the global EV space in terms of both range and sales



As-is EV Challenges In India

Following is a summary of major problems associated, based upon our understanding & the interviews conducted:



We reached out to experts in the field to capture their voice.

Voice of experts

" I have studied electric mobility in detail both, in India & in Germany. The major differentiating factor between the two geographies is the consumer phycology. On one hand, in India the value of a vehicle is perceived to be purely in monetary terms whereas here in Germany, people value non-monetary aspects including environmental sustainability before making the decision, as a responsible consumer." ~ Jaskirat Singh EHS & Sustainability Specialist Boehringer Ingelheim

"The problem with EV adoption, and the climate crisis is that it is considered national as of now. Considering the future impact of mobility, we should see it an international problem and collectively formalize the system to increase its adoption. Commitment to pacts such as The Paris Agreement will play a pivotal role in effort convergence." ~ Vandit Bhayana Micro Masters, Circular Bio-Economy Wageningen University & Research

"The current policy focus should also include having adequate EV supply infrastructure, fast charging stations, smart grids, and benchmarking Indian policies with that of leading countries like Norway, China to achieve the aggressive 30% EV target with the stipulated timeline." ~ Akshay Mandar Sustainability Consultant, EY

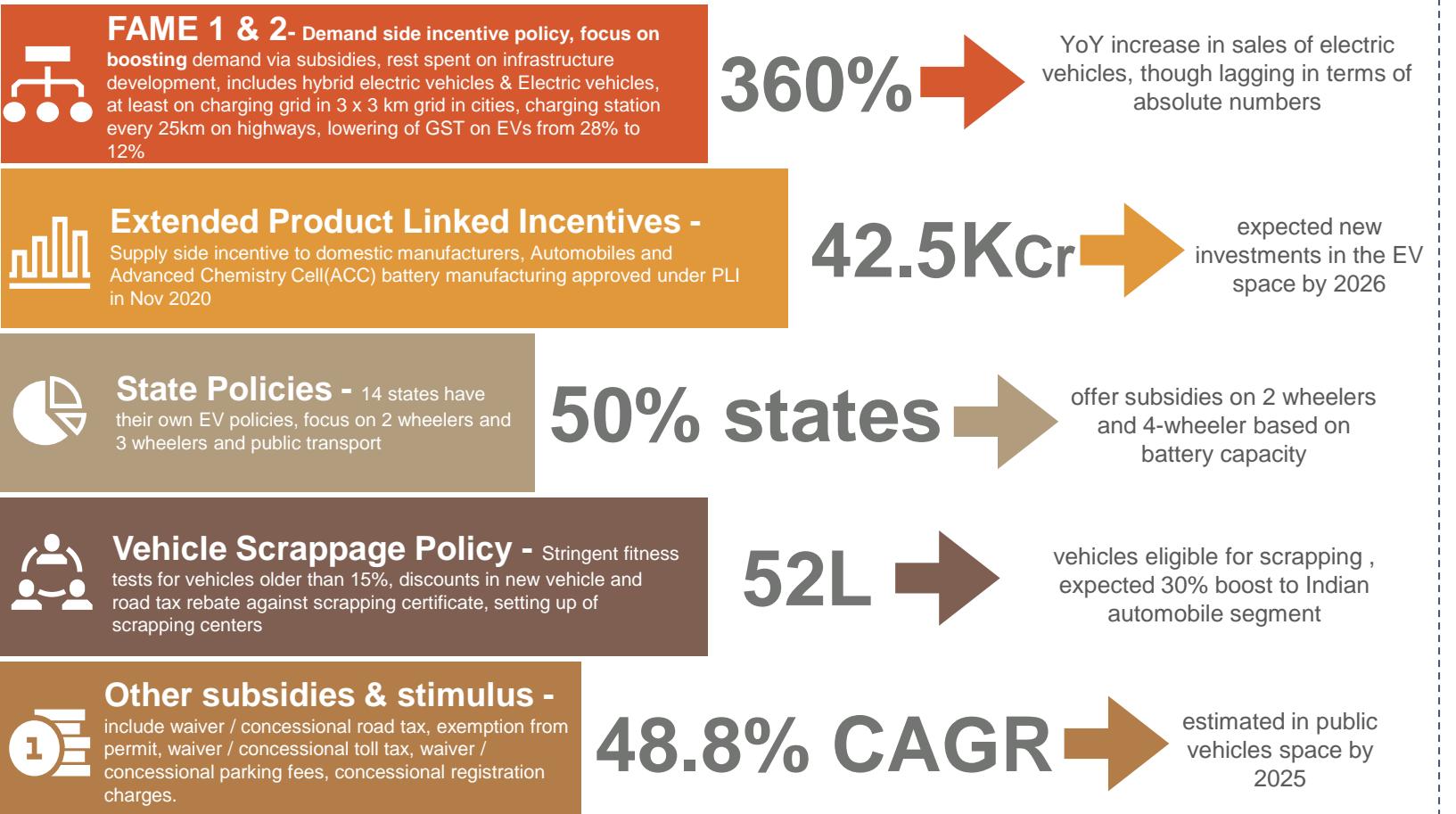
Executive Summary	As-is Landscape	Legal Framework	Customer Strategy
Entry Strategy	Pricing Strategy	EV Value Chain	Inroads to the Future

Details 

Legal & Regulatory Framework

Following is a brief overview of the existing electric mobility landscape in the country:

Current EV governance landscape *



Shortcomings in achieving the EV vision 2030



“Even if producing CO2 was good, given that we are going to run out of hydro-carbons we need to find sustainable means of operating.” - Elon Musk

Note: Please refer slides in the annexure for to-be regulatory & policies changes to scale up the EV adoption rate in the country.

Source: Policies to promote electric vehicle deployment – Global EV Outlook 2021 – Analysis - IEA, 2021; Niti.gov.in. 2021, Available at: <<https://www.niti.gov.in/sites/default/files/2021-08/HandbookforEVChargingInfrastructureImplementation081221.pdf>>

Target Customer Profiles

Following is a categorical analysis of targeted customer cohorts to generate effective demand:

EV enthusiasts

- Early adopters – tech focused
- New **tech & features** are primary
- Willingness to pay:



Tesla positioning:

- Superior full self driving tech
- Access to Tesla ecosystem
- Regular first hand updates

Luxurious car owners

- Purchase as a status symbol
- Superior design** is primary driver
- Willingness to pay:



Tesla positioning:

- Best-in-class looks & appearance
- High end Tesla brand experience
- Worthy addition to existing collection

Upper middle-class families

- Utility focused buyers
- Cost benefit** is primary driver
- Willingness to pay:



Tesla positioning:

- Lower lifetime ownership cost
- Ecologically sustainable & fuel efficient
- Upgrade in the standard of living

Central Government

- High power to **build EV market**
- FAME policies; regulatory incentives
- Potential order volume:



Active lookout:

- Pollution control focus
- Vehicle scrappage policy
- Intention to lead by example

State Government & Agencies

- High power to **localize EV ecosystem**
- 13 adopted; draft policy in 4+ states
- Potential order volume:



Active lookout:

- Own fleet transformation
- Shift to CNG powered and EVs
- Central legislature + self targets

Corporates

- High power to **create scaled demand**
- Govt. incentives; stakeholder push
- Potential order volume:



Active lookout:

- Sustainable ways of working
- Employee friendly policies
- CSR + Government incentives

To-be Customer Strategy

Following is a brief overview of customized approach devised for targeted customer cohort:

Customer Acquisition

Tesla Customer targeting



Pre Orders & Bookings

- ❖ Open pre-order option for **enthusiasts & early adopters** to get a sense of demand
- ❖ **Customized design & gift bookings** to build hype & excitement in new market

Referral & Promotion

- ❖ Provide Tesla **owners** with a **cash payment** for each car sold as referral

Customer Engagement

Creating a best-in-class experience



- ❖ Personalized **driver profiles** with custom settings changed with a button
- ❖ Data driven design with **integrated customer preferences & insights**
- ❖ **Fully upgradable, dynamic** dashboards & automated driver recognition

B2C strategy



- ❖ New **tech & update** beta trial programs for live reaction & suggestions
- ❖ Timely & **personalized recommendations** to improve user driving experience

B2B strategy



- ❖ Active participation & support in **Government programs & events**
- ❖ **Targeted corporate communication** to facilitate transparent feedback

Engagement strategies



- ❖ Large scale, High-end **launch events** targeted at gaining huge traction
- ❖ Participate in Luxury auto exhibitions & organize **test drive events**

Customer Retention

Vehicle life cycle



Proactively participate in the **vehicle replacement process** of customers to enhance repeat purchases & improve retention rate (91% retention globally)

Service & roadside assistance



Build an expanded **network of service centers** and Tesla **certified technicians** for prompt & superior customer service

Value added services & products



Continuously create value for Tesla users including **new tech updates, digital functionalities**

Customer lifetime



For maximum potential revenue generation throughout the customer lifetime, **two-way communication loop** for feedback, improvements, suggestions & **evolution of needs**

Executive Summary	As-is Landscape	Legal Framework	Customer Strategy
Entry Strategy	Pricing Strategy	EV Value Chain	Inroads to the Future

Product Entry Options

Following is the critical evaluation of potential entry models for Tesla in the Indian market:

Model 3

- The Model 3 is an electric fastback mid-size four-door sedan developed by Tesla.
- Tesla's Model 3 has become the world's best-selling plug-in electric vehicle model and had crossed 1Mn+ global unit sales.

Details:

- Price point ~ **\$45K**
- Mile Range ~ **272 miles**
- Target Segment ~ **B2C**
- Purpose – **Luxury**
- Payback ~ **5 years**



Model 2

- Often referred to as the "Baby Tesla", the unnamed model 2 is set to be launched in 2023 across the globe.
- It's the cheapest car amongst the Tesla's existing product portfolio and could prove to a perfect fit appealing to Indian mass market.

Details:

- Price point ~ **\$25K**
- Mile Range ~ **250 miles**
- Target Segment ~ **B2C**
- Purpose – **Economy**
- Payback period ~ **3 years**



Model 3 ~ GTM Entry Opportunities & Risk

TOP 3 Opportunities

- 1 Establishing superiority & driving premium from niche
- 2 Building aspirational value amongst the mass market
- 3 Proven track record of the model and the company

Model 2 ~ GTM Entry Opportunities & Risk

TOP 3 Opportunities

- 1 Segment with highest TAM (Target Addressable Market)
- 2 Best product market fit i.e., hatchback to Indian landscape
- 3 Overcoming Model 3 price-cost inequilibrium challenges

BOTTOM 3 Reservations

- 1 Dilution of augmented features in the existing line-up
- 2 Relatively tougher to extend into upper class after Model 2
- 3 Slow cost recovery and increased payback period for Tesla

Semi

- Tesla Semi is an all-electric battery-powered Class 8 semi-truck in development and set to be launched in 2023.
- Semi could prove a game-changer in the Indian commercial vehicle segment, given the cost-benefits study conducted.

Details:

- Price point ~ **\$150K-\$180K**
- Mile Range ~ **300-500 miles**
- Target Segment ~ **B2B**
- Purpose – **Utility Vehicle**
- Payback period ~ **2 years**



Semi ~ GTM Entry Opportunities & Risk

TOP 3 Opportunities

- 1 Letter of Intent from corporates, central & state government
- 2 Low volume but high margin focused manufacturing & sales
- 3 Low customer acquisition cost and high lifetime value in B2B

BOTTOM 3 Reservations

- 1 Scare battery technology & manufacturing concerns in India
- 2 Relatively concentrated TAM (Target Addressable Market)
- 3 High cost and weaker commercial EVs perception

Executive Summary	As-is Landscape	Legal Framework	Customer Strategy
Entry Strategy	Pricing Strategy	EV Value Chain	Inroads to the Future

To-be Phase-wise Model Launch

Following is a bird's eye view of the 3-year action plan for Tesla to successfully enter and succeed the Indian market:

Short term ~ 0-12 months

Collaboration with the government, Establishing value chain & Launching Model 3



Medium term ~ 12-24 months

Penetrate the mass market with Model 2, Monetize from capabilities, customers & tech

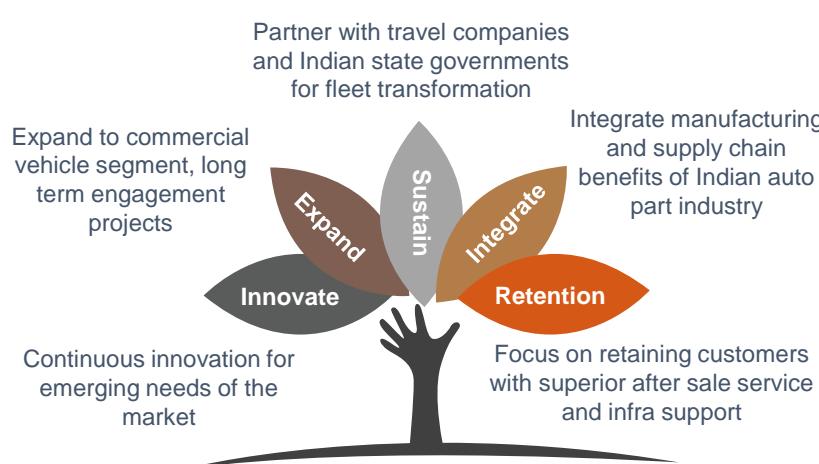
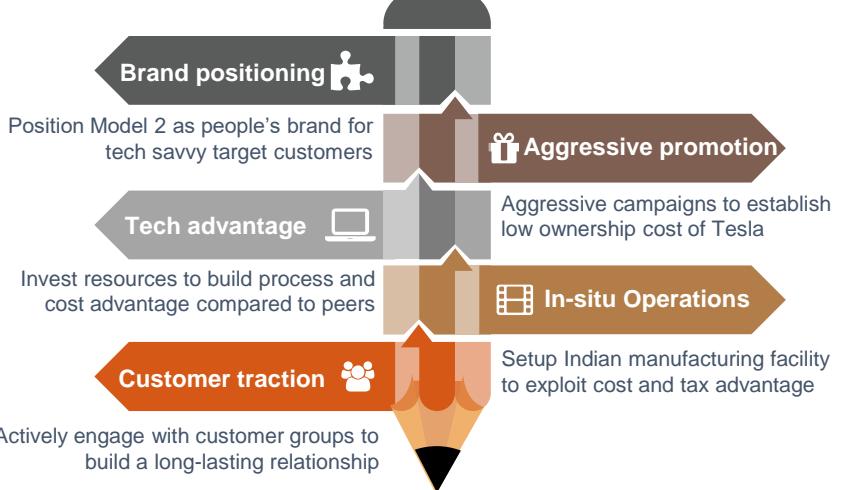
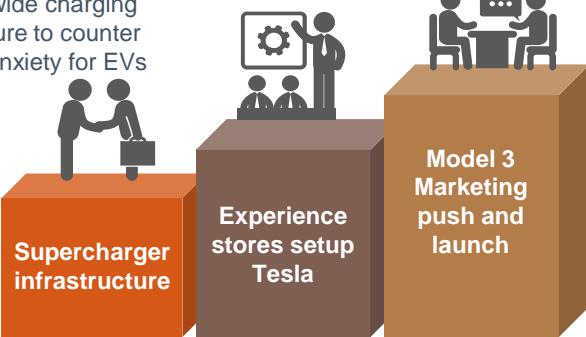


Long term ~ 24-36 months

Sustain customer value; Innovate, Grow & Expand into commercial segment with Semi



Intense marketing of Model 3 as the aspirational must have for the target customer segment
Setup physical experience stores of Tesla to establish presence and gain trust
Create a wide charging infrastructure to counter customer anxiety for EVs



Phase I - Quick Wins



1. Going live with limited units of Tesla Model 3 targeting the niche, arousing aspirational value for the mass market



Phase II – Expanded offering



1. Going live with limited units of Tesla Model 3 targeting the niche, arousing aspirational value for the mass market
2. Full fledged roll out of the Tesla Model 2 across the country, targeting the Indian mass market with largest TAM



Phase III - Full Range



1. Going live with limited units of Tesla Model 3 targeting the niche, arousing aspirational value for the mass market
2. Full fledged roll out of the Tesla Model 2 across the globe, targeting the Indian mass market with largest TAM
3. Investing in development of public/commercial vehicles solutions from a long-term perspective basis the traction

Executive Summary	As-is Landscape	Legal Framework	Customer Strategy
Entry Strategy	Pricing Strategy	EV Value Chain	Inroads to the Future

Tesla vs Tata ~ Indian Backdrop

Comparing Tesla with Indian incumbent Tata Motors to chalk out competitive advantages



Tesla's Strengths:

To accelerate the advent of sustainable transport and electric technology



Superchargers

Tesla has worldwide network of superchargers, which are superior in charging time and range and are brand agnostic



R&D Advanced

Pioneer in EV segment and has more invested in tech for long. It enjoys a superior trust and is a leader in self driving technology.



Vertical Integration

Tesla's competitive advantage arises from its vertical integration model. More control on ideation, design and product quality.



Regulatory Support

Tesla's investment in India is important from economic perspective and as such they will enjoy import tariff benefits



Global Brand

The global presence gives it recognition as well as acts as hedge, a must have appeal for the modern enviro-conscious user



Luxury Segment

Tesla in India with its Model 3 will be targeting the luxury car segment, sought after by the upper middle class and top tier



Tata's foothold:

Connecting Aspirations

Lead in Infra solution

Tata has an early over advantage in infra capabilities in India. It has established itself as a self-sufficient player for E2E infra



Deep Pockets

Tata has raised 1bn USD from TPG rise and ADQ wholly for their EV business and have started heavily investing in R&D



Synergies of Tata Group

Tata is a conglomerate and is leveraging its sister companies Tata Power, chemical and Elxsi to provide an ecosystem..



Regulatory Partnerships

Tata has strong partnership with central and state government in India. It already has contracts from states for public vehicles.



Indian Market Trust

Tata has been in Indian families across generations. Across user and suppliers, garners unparalleled trusts and share of the mkt



Cross Sectional Appeal

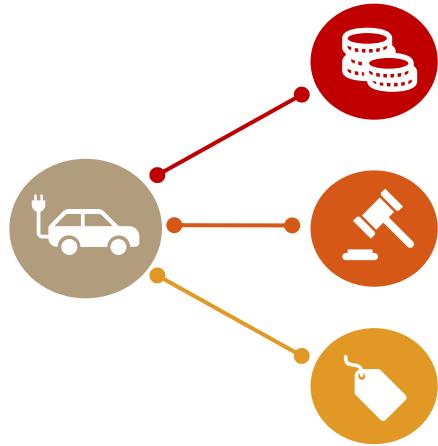
Tata with Nexon already has a mass market appeal and will be entering the luxury segment with JLs 10 new EV models



To-be Pricing strategy

A brief outline of the pricing mechanism to be followed by Tesla highlighting major challenges

Breakdown of the process



Cost coverage

In the first step of the process, Tesla adds up the total cost producing the car and other overheads incurred in manufacturing

Legal payments, Taxes, Duties

For sale in the Indian market, import duties, GST and other legal & regulatory requirements need to be added to the cost

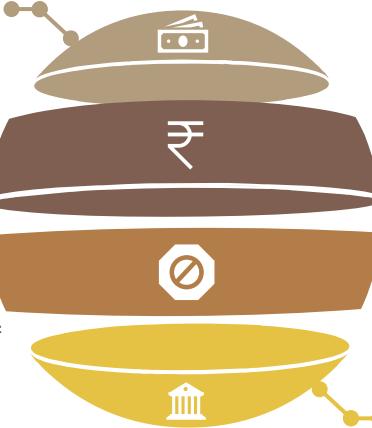
Showroom Price

After considering all fixed & variable costs, Tesla would add a reasonable margin % & arrive at the final selling price

Drivers of Price determination

Broad Price Skimming strategy

Expected to enter the market with a **premium pricing** model, potentially **decrease** it over time as **scale economies** are attained



Estimated Prices

As per the current regulatory landscape, Tesla Model 3 to cost ~Rs. 60L; Model S ~Rs. 1.5Cr

No Discount model

Expect to adhere to its strict policy of "**one price for all**" with no rebates / discounts for anyone whosoever

Govt. Confidence

Senior Union Minister Nitin Gadkari said Tesla car to be **affordable**, cost ~Rs. 35L

Major concerns faced by Tesla

115mm

Low ground clearance
Tesla Model 3 has a **ground clearance** of 115mm which is too low for Indian roads – requiring reconfiguration



100%

Current Import Duty
If CIF value exceeds \$40,000 Tesla **lobbying** with Govt. to get **concessions** being an EV

Forex adjusted price

Current US purchase price of **Standard Range Plus** Tesla model 3 is \$39,990

Industry characteristics

The Indian automobile industry has long been characterized by **low margins & higher volumes**

~6% Net margin historically

~Rs. 29.7L

Factors affecting pricing

Competitive Dynamics

Mass market **Tata Tigor** priced at ~Rs. 13L currently; Hyundai to enter with ~Rs. 40L car



Battery costs

With a ~390km range Tesla Model 3 has a **50 kWh battery capacity** constituting the biggest chunk of cost

Total Cost of Ownership

Tesla EVs turn out to be ~20% cheaper than their IC counterparts at a 1.5 lakh km run over vehicle life

Dominant Design

As industry evolves and **penetration increases** (~40% by 2029), market standards will crop up

Market Sensitivity

<20% of Indian consumers present in the Rs. 25L+ segment, high price sensitivity

To-be Infrastructure Layout

Following is a snapshot of the charging stations infra strategy that Tesla can follow for India:

1. Focus on heavy duty public and commercial vehicles like buses and mini-buses



- ❖ Identify nodal zones for public buses and **setup mega charging stations**, capable of charging **25-30 vehicles** together. Allow private agents and logistics firm to setup mega chargers at their end at DCs.
- ❖ These stations will help in **managing grid loads** by providing **subsidy** during **non-peak hour** usage, limiting the usage to specific localities.
- ❖ Public vehicles need 170-180kms of peak usage on one charge intracity. Banking in this need while **enhancing demand estimation**.

3. Long Range charging stations across highways and expressways



- ❖ **Long range travelling and range anxiety** needs to be addressed to **gain trust** of consumer

- ❖ At every **75-100 kms** installation of charging facilities for passenger as well as commercial vehicles. Focus on the **busiest routes** first like near metro cities and tourist destinations
- ❖ These routes can make use of **superchargers** as travelers would be time constrained. These facilities would be costly and can be built in **partnership with existing petrol pumps**

2. Micro charging points for parking areas, office location and residential Areas

- ❖ Shift in focus for personal use EVs. Focus on locations where vehicles are at standby for than a few hours.
- ❖ Charging requirement for regular routine purpose is not daily or frequently. Reduce congestion by allocating 10% space at parking, offices and residential location to charging



Micro sharing stations
Empowering customers and increasing convenience

Heavy load optimization
Controlled demand and grid loads. Lower cost

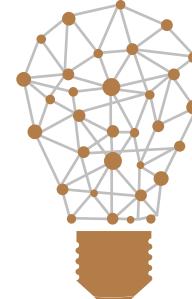


Long range anxiety
Overcome last bit of doubts with stations along routes

Swapping and portability
Invest in tech for portability and swapping facility

4. Swapping Stations and build technology for portable super chargers

- ❖ Invest in **emerging technologies** to develop small portable superchargers for on the run consumer.



- ❖ Swapping stations require small space, low time intensive, less upfront cost and might also lead in **battery-life improvement**. These would be best for small commercial vehicles like 3 wheelers or taxis.
- ❖ Investing in technology for more **efficient portable superchargers** can eradicate consumer anxiety completely. They can be more **cost efficient** and **reusable**

Approaches to Charging Setup

A comparative analysis of a self owned vs collaborative strategy to infra setup In India for Tesla



Self Owned ●●○○○

Wholly owned and used by Tesla

Better brand image and control

Financial synergy: ●○○○○

Tesla will have to bear huge capital investment and battle rising competition if it ventures with totally self owned infra model

Control vs Interoperability: ●○○○○

Much more operational and design control. Lesser R&D required due to low compatibility req & higher exclusivity

Commitment and Risk: ●○○○○

Very high commitment required for setup as well as maintenance and high sunk cost in case of market exit

Speed and Adoption: ●○○○○

Lower speed of setup initially and adoption heavily dependent on sale of Tesla vehicles in India, vicious circle

Brand Image vs Lobby Power: ●○○○○

Brand image remains exclusive and tech remains in house but the lobby power of tesla over govt policy reduces



Collaborative ●○○○○

Partnership with major layers in Industry

Better Financial synergy and adoption

Financial synergy: ●○○○○

Development of infra is capital intensive but the benefits is reaped by multiple stakeholders. Subsidies by govt., and pooled investment can reduce the load.

Control vs Interoperability: ●○○○○

Higher R&D required for cross brand compatibility, but customer apprehension regarding interoperability reduced

Commitment and Risk: ●○○○○

Shared commitment among players, reducing business risk for each and reduced barriers to exit

Speed and Adoption: ●○○○○

Increased speed of setup and high adoption rate majorly due to increased interoperability

Brand Image vs Lobby Power: ●○○○○

Brand exclusivity dilutes but tesla in the consortium gets much more lobbying power over favorable regulatory policies.

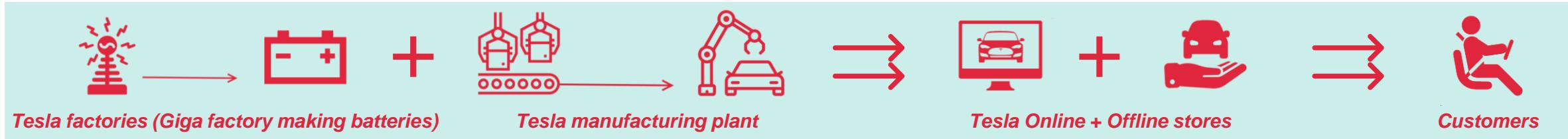


Overall, a collaborative approach to setting up infra emerges as a better solution for Tesla in Indian Market

Executive Summary	As-is Landscape	Legal Framework	Customer Strategy
Entry Strategy	Pricing Strategy	EV Value Chain	Inroads to the Future

Setting up the Supply Chain

Supply chain considerations for Tesla while setting up operations in the Indian market



Raw material sourcing

Responsible sourcing practices including **eco-friendly products & ethical suppliers** – not using immoral practices like child labour

Also looking for potential investments in **producing raw materials** like Lithium



Component procurement

Basic component parts procured by **collaborating with automobile makers** like Daimler & Toyota; partner with **Indian domestic suppliers** to source **lightweight forged** parts & possibly steering wheels

Vertical Integration

Owing to lesser # of components in EVs, Tesla to benefit from vertical backward integration by **importing self made** batteries, motors, etc. India poses the **threat of high import duties** that are to be considered

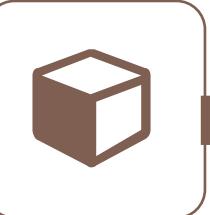


Data driven decisions

Ton of data to rank suppliers & take decisions base on production times. Potential to **leverage a data foundation**, produce **actionable insights** & complete the **data loop** from pre to post production

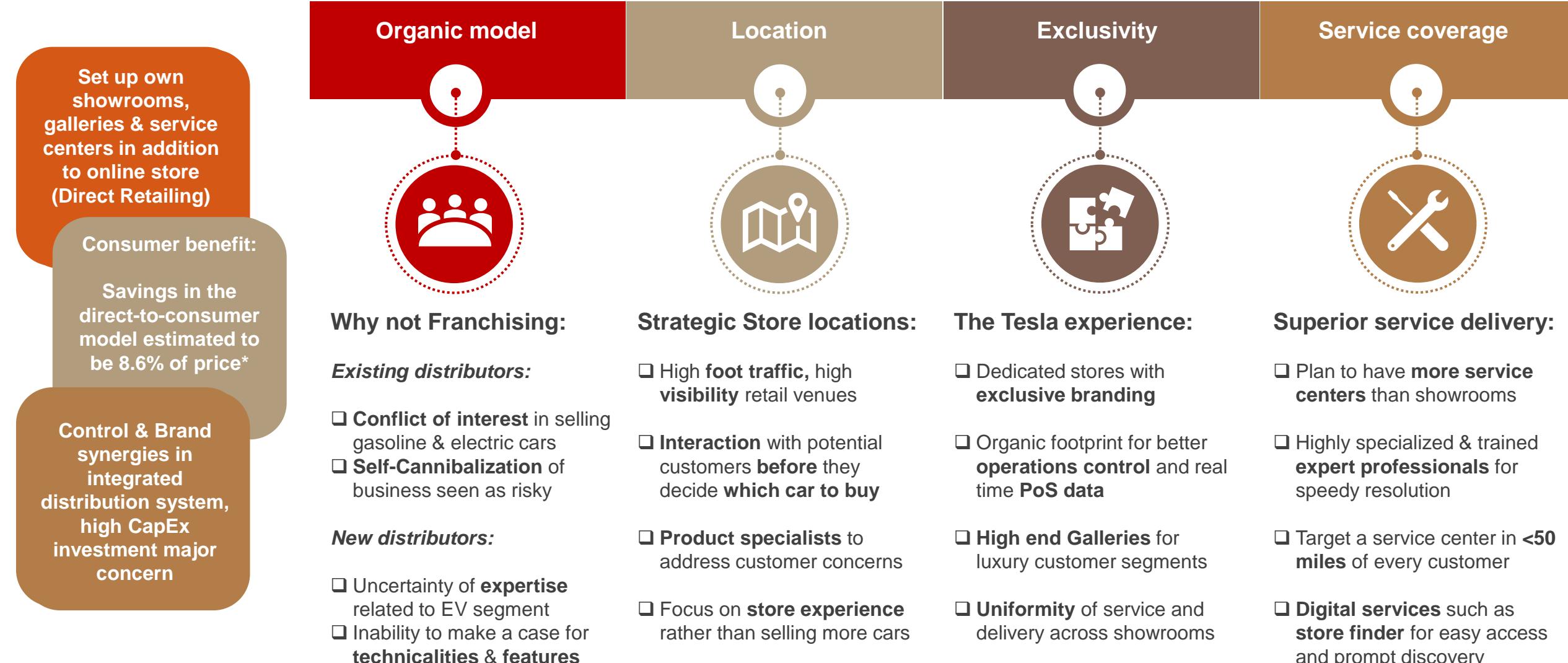
Smart Inventory management

Risk minimization objective, **very little** inventory on hand, **Increase in wait time** dealt with offering **additional customization** options
Better inventory mgmt contributed to direct savings - **5.3% of sales***



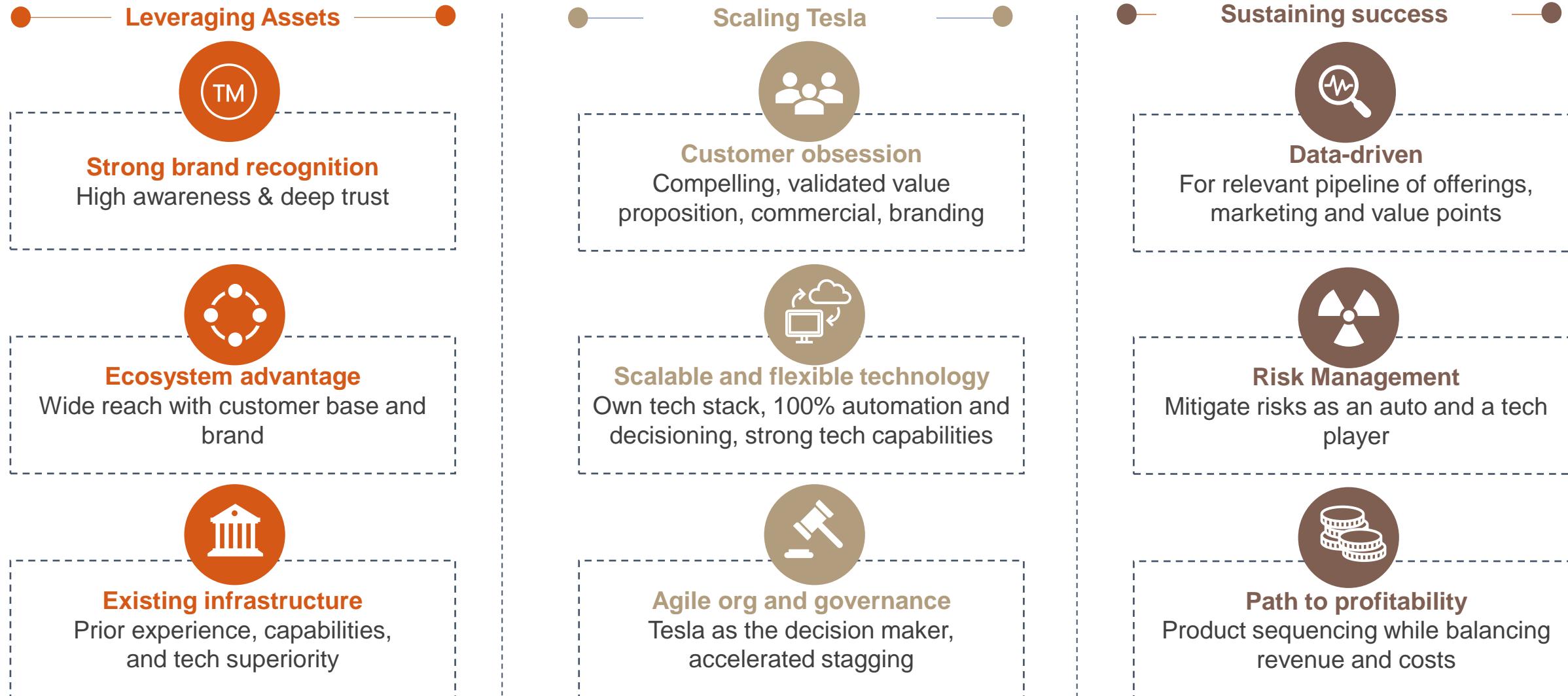
Distribution & Retailing

Following is the proposed long-term strategy for product distribution & forward logistics in the Indian market



Success Factors for Tesla India

Supply chain considerations for Tesla while setting up operations in the Indian market



Roadmap to Successful Entry

Laying out the market entry plan towards building a dominant position in the Indian EV market

Levers for establishment



5

Future outlook: Attaining Scale

- Capital Investment – Set up production & manufacturing capabilities in India
- Evolve with the growing market & attain scale economies to expand product offerings

4

React to competitive stimuli:

- Observe competitor strategies and build a robust response mechanism to build dominance
- Constant boundary spanning to identify emerging trends & technology

3

Demand management & smooth supply:

- Successfully estimate demand & make sure there is adequate supply
- Prepare & execute a successful product launch strategy in a phased manner

2

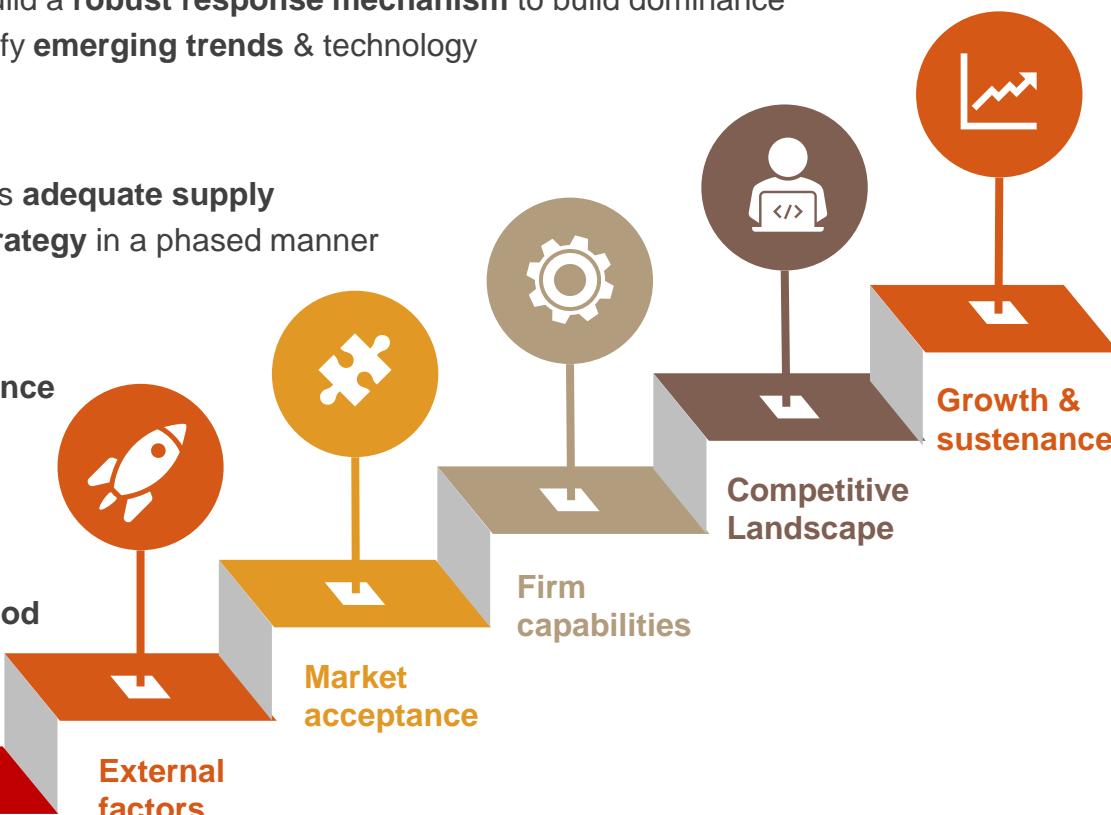
Attain a good product market fit:

- Communicate value proposition effectively to the target audience
- Prepare & execute a successful product launch strategy

1

Tackle the General Environment:

- Lobby with the Government for favourable taxation & import policies
- Build calling in the Indian socio-cultural fabric of automobiles as a luxury good



Strategic Choices for Tesla

A comparative analysis of a self owned vs collaborative strategy to infra setup In India for Tesla

Product Model for entry

Model 3 recommended for entry, as the low cost model of tesla. It will attract the value sensitive yet aspirational customers of India

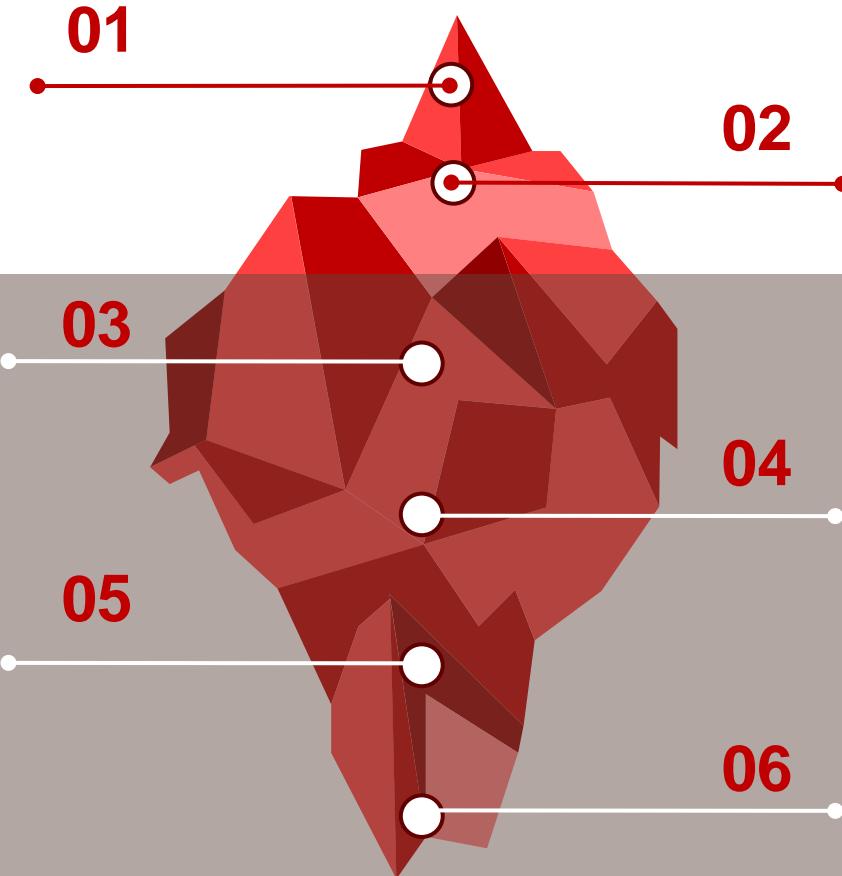
Commercial Vehicle Launch

R&D to reduce cost by process innovation and launch cheaper commercial EVs. More profitable segment in India

Giga Factory & Manufacturing setup

Take advantage of cheaper labor market, established auto component industry and abundant skilled engineers. In situ manufacturing area push to enter the mass market for Tesla

➤ Underlying choices that are not apparent necessary to sustain the positioning and grow in the Indian market



➤ Strategic choices that are visible to the overall market & has impact on Tesla's positioning in India

Supercharging Infrastructure

Collaborative approach positions Tesla as the promoter of EV, enhances image and regulatory lobbying power

State Government Partnerships

Fostering partnership with states to supply EVs for public fleet and infra setup, possible tax rebate and longer engagements

India as exporting hub of the region

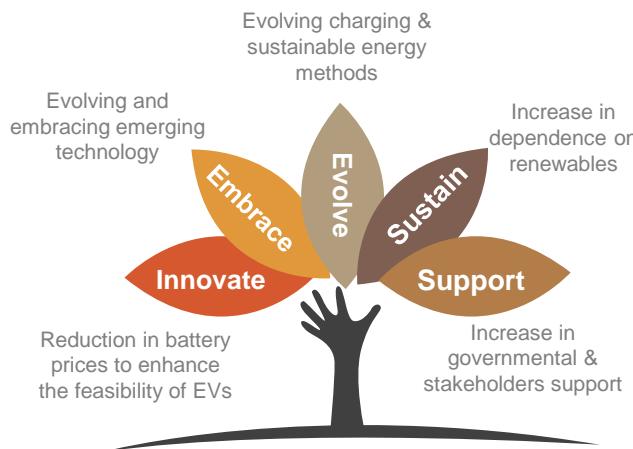
India has a potential to be Tesla's exporting hub in south-east Asian region in the long run. Lesser regulatory risk and lower costs compared to China.

Annexure

Inroads to the future for India

Following is high-level view of the aspects to be considered in order to realize the EV 2030 target:

Drivers of EV adoption



International trade

- Rise of green free trade agreements
- Strategic trade alliances

Geopolitical implications

Energy security

- Transnational energy infrastructure
- Energy independence

Access to strategic resources

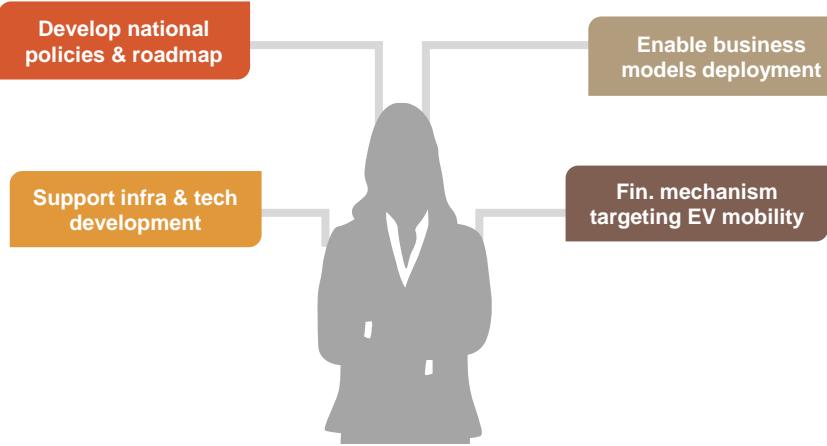
- Increase access to global trade & resources
- Regional stability

Identified need of EV stakeholders



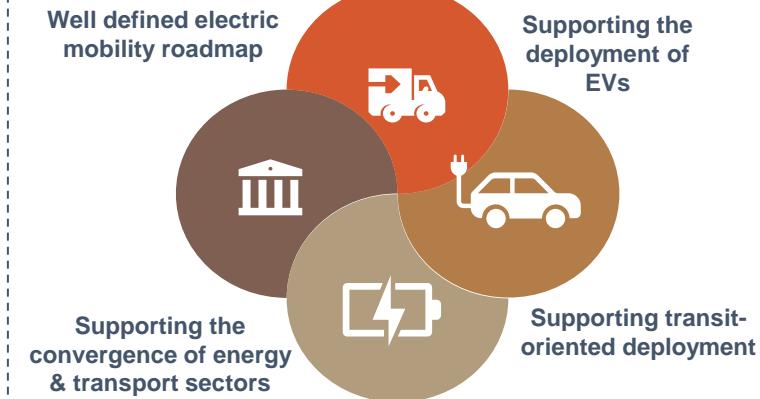
Need of the hour to enable EV quick wins

Indian EV market is expected to reach \$47 billion by 2026 with a CAGR of 44%



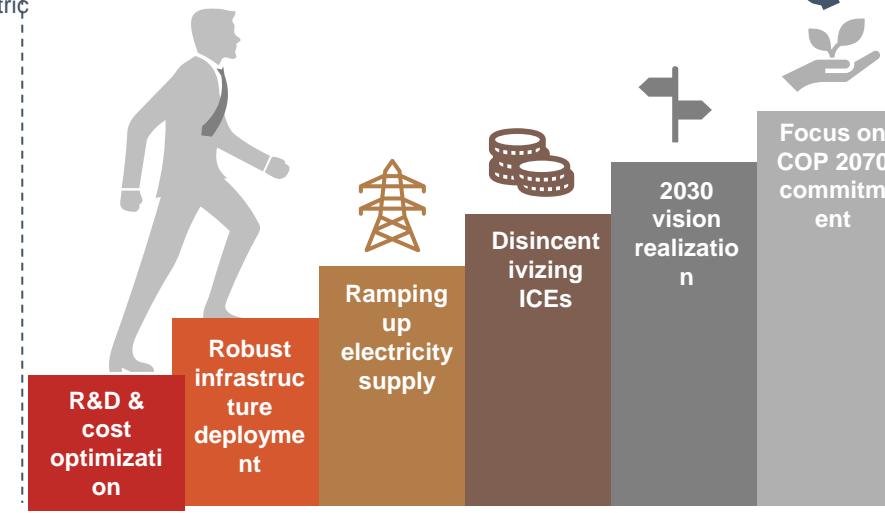
Initiatives in Electric Mobility

Running cost for ICEs is approximately 3-10 times higher than that of electric vehicle



Inroads to the future for India

[Click here for detailed roadmap](#)

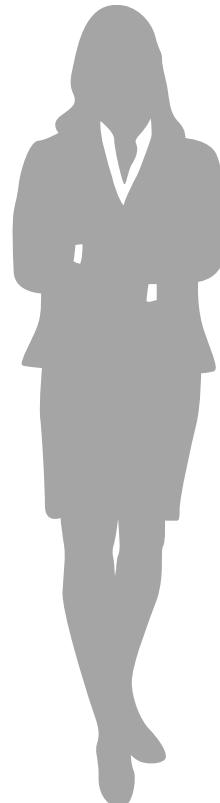


Note: Please refer "Way forward & policy roadmap" slide in annexure for more details.

Policy Recommendations

Following is the non-exhaustive list of recommendations suggested in the existing electric mobility policies

Recommendations to overcome the existing problems



	01 Benchmarking Need for external benchmarking with the leading electric mobility practices adopted by the countries across the globe		Ramping up electricity capacity & supply
	02 Investment in technology Channelizing funds by investing in technology and tools for making the battery and related components more efficient and sustainable		Cost optimization & innovation focus
	03 Increased financial & non-financial incentives Financial assistance in the form of subsidies, reduction in taxes, direct benefits to incentivize the existing and potential private players to drive formalization		Efficient & sustainable
	04 Battery disposal regulations Mandatory battery disposal regulations as well as hiring of experts to conduct life cycle audits ensuring strict compliance with the standards		
	05 Public transport licensing support Charting incentivization schemes for the public transport players for instance auto drivers, to facilitate faster EV adoptions and providing them adequate support in faster licensing, permits etc.		
	06 Inclusive FDI & private investment policies Despite allowing 100% FDI through automatic route, strong emphasis on making policies more inclusive in lines with global policies to attract more private and foreign equity investments		Non-renewable recycling
	07 Robust data privacy & security rules Reliance of EVs on various sensors and collected customer data, magnifies the need for having robust data protection and privacy laws in place.		Environmental protection

Barriers to be cognizant of

Economic barriers

- Business viability issues
- High upfront EV costs
- Huge and rapid investment in charging infrastructure

Regulatory barriers

- Characterization of EV charging activity
- Tariff related issues
- Bureaucracy & red-tapism

Technical barriers

- Charger standards and protocol issues
- Grid stability issues
- Battery performance issues

Informational barriers

- Stakeholder apprehensiveness
- Lack of awareness
- Range anxiety

To truly improve EV adoption and India's role as a value chain participant, it will need to attract more private investment to the country.

Way Forward & Policy Roadmap

Following is a brief overview of an indicative implementation roadmap & way forward for the policy decision makers:

Policy review & sustain

