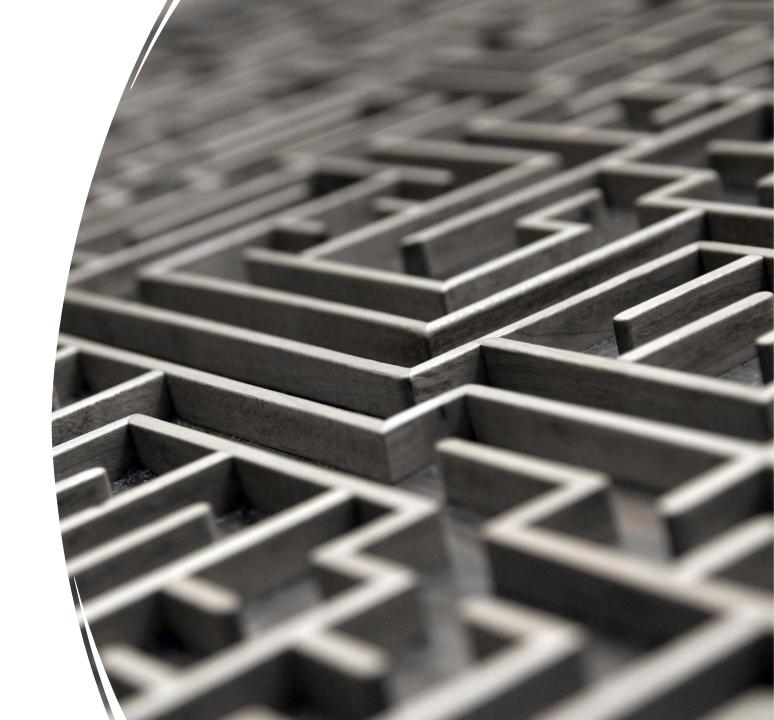


DISCUSSION POINTS

- Today's Tesla
- Integrate demand forecasting solutions recommendations and benefits
- Demand forecasting solutions Analysis
- Risks
- Adoption Analysis





Today's Tesla

- Tesla combines a unique sales strategy with dedicated service and expansive charging infrastructure.
- Emphasizing on both hardware and software, Tesla leads in innovation and sustainable energy solutions.
- Tesla's self-sustained ecosystem, encompassing vehicles to energy storage, sets them apart from competitors.
- In the years 2022-2023, as a significant number of competitors entered the market, Tesla's market share and profitability experienced a decline.

Strengths:
Impressive Hiring Strategy
Strong Brand Value and High Market Capitalization
Phenomenal Organizational Structure
Unique Brand positioning and Superb Marketing Strategy
Strong Innovative Capacity
Almost Near-total Market Dominance

Weaknesses:

Frequent Manufacturing Delays Setting Overly Optimistic Targets The Cost of Products

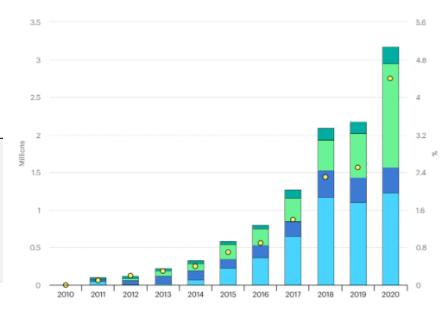
Opportunities:

Introducing Its Products to New Markets
Improving the Affordability of Their Vehicles
Improving Their Autonomous Driving Technology
In-house Battery Production
Maintaining Its Reputation as the Champion of Innovation

- Threats:

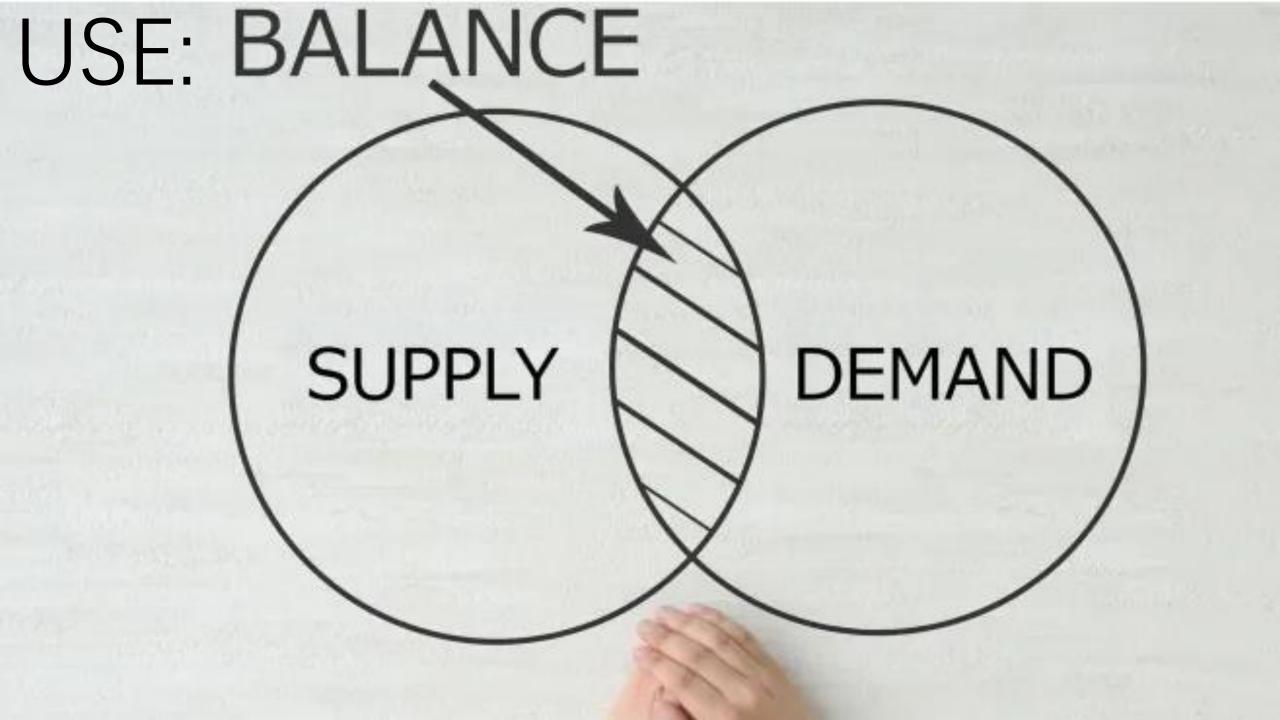
Increasing Competition from Other Top Automakers
The Uncertainty Surrounding Rare Earth Metals
The Legal Intricacies of Self-driving Vehicles
Changing Government Policy and Public Opinion on Green Energy

Global electric car sales by key markets, 2010-2020e









Competitive Uses and Benefits:

- Implementing Demand Forecasting Solutions strengthens Tesla's image of innovation and customer focus.
- Accurate demand forecasting sets Tesla apart from competitors in the fast-evolving electric vehicle industry.
- Tesla's reputation for reliability is enhanced by meeting market demand accurately.
- Better demand understanding enables Tesla to seize new opportunities, including product expansion or market entry.
- The technology's value transcends mere operational efficiency; it offers strategic insights.
- Tesla's use of this technology reaffirms its position not just as a car maker, but as an industry-forward thinker.
- Tesla leverages technology to advance its mission of transitioning the world to sustainable energy.



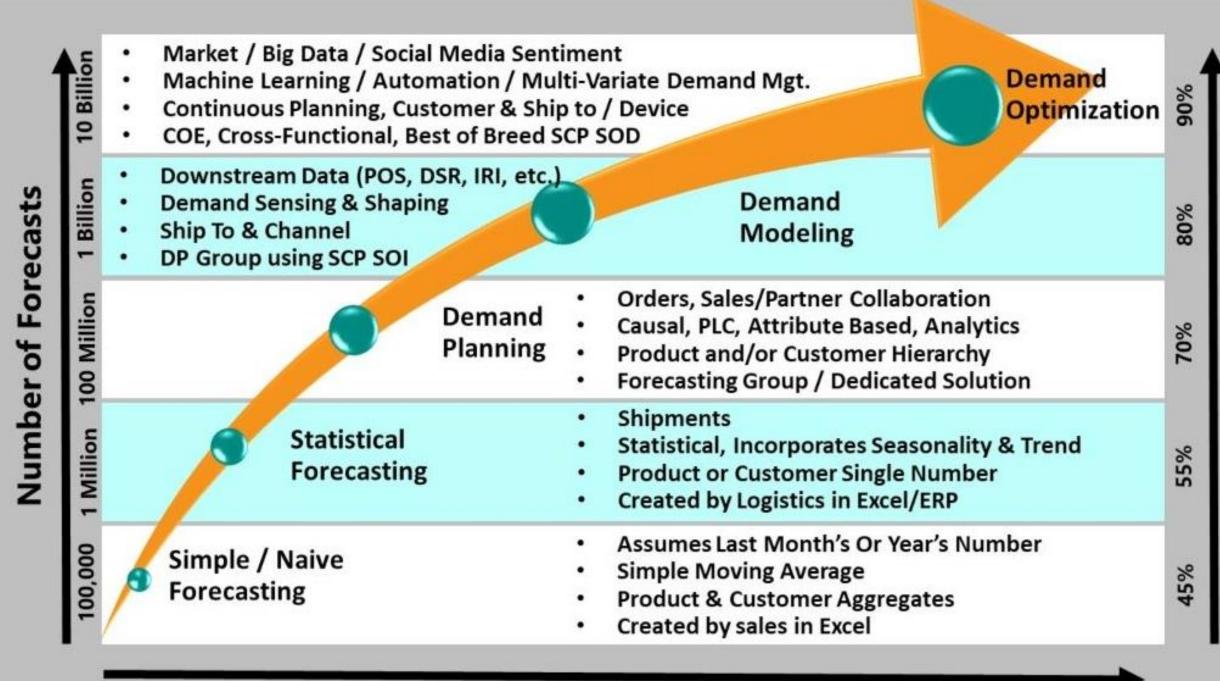
Why Demand Forecasting Solutions

Demand Forecasting Solutions

- Integrates diverse data sources
- Employs predictive analytics
- Offers high accuracy
- Suitable for Tesla's growth
- Provides consistent & reliable results
- Displaces legacy systems efficiently
- Enhances production & delivery timelines

Legacy Demand Prediction

- Limited data source integration
- Relies on historical data
- Moderate accuracy
- May not scale with Tesla's expansion
- Prone to manual errors
- Requires manual processes
- No guarantee of reducing inefficiencies



IMPACTS



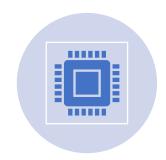
Systemic Transformation: Tesla will undergo a large-scale migration to a new data management system.



Data Sharing and Security: Al-driven forecasting requires enhanced data sharing, necessitating strict metadata locks for privacy.



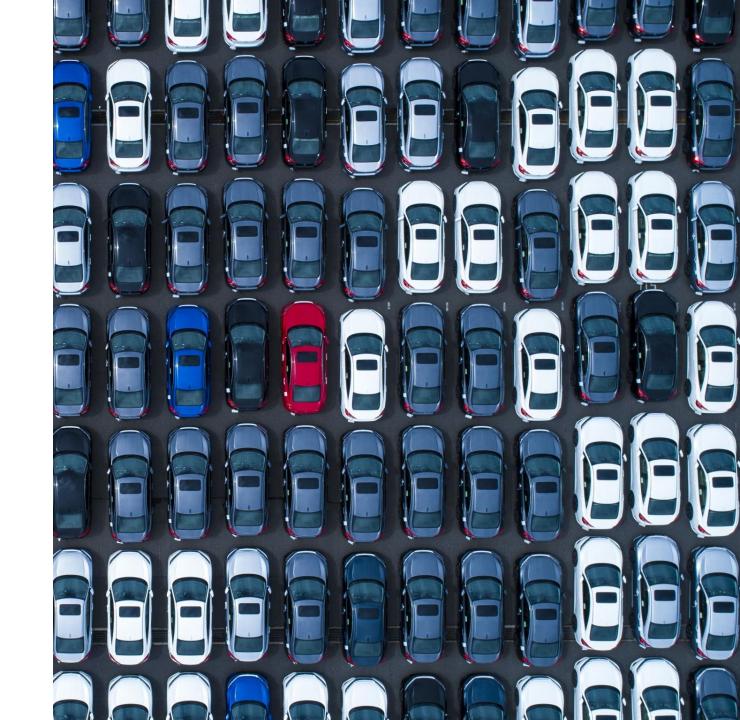
Standardization Challenges: The advanced nature of the solution might limit Tesla's options due to a lack of industry standards.

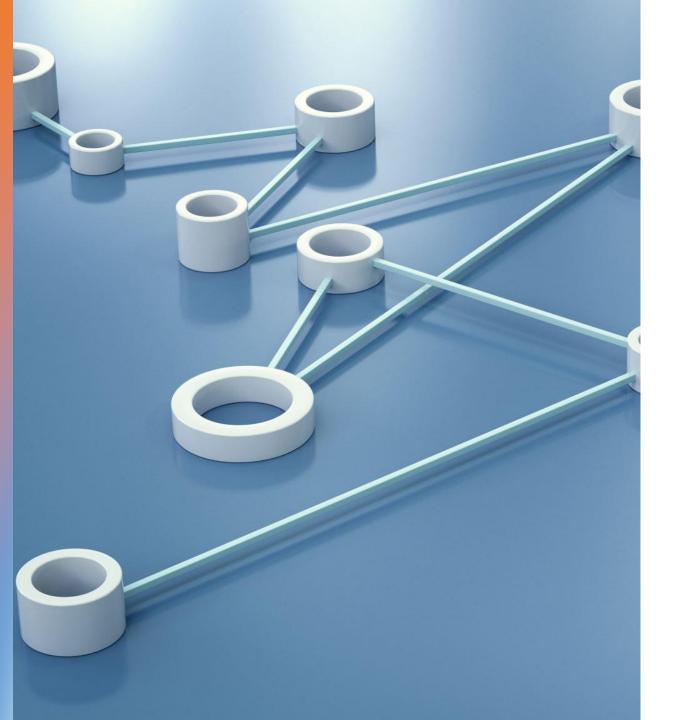


Computational Costs: Increased reliance on active machine learning will demand greater computational power, leading to higher costs.

RISKS

- Organizational Readiness and Adaptability: Tesla's growth could pose challenges in staff adaptability and cultural alignment with the new Demand Forecasting Solutions.
- External Relationship Dynamics: The new technology might strain Tesla's relationships with suppliers and dealers due to increased third-party data dependencies.
- Competitive Landscape Alteration: Tesla's adoption of the technology could standardize demand forecasting in the industry, potentially commoditizing this aspect of the electric vehicle sector.





IMITIGATION

- Stakeholder Involvement: Engage all stakeholders through communication and feedback sessions to ensure seamless adoption.
- Change Management: Implement a tailored change management plan, with training and pilot programs, addressing Tesla's unique needs.
- Resource and Capability Management: Utilize Azure collaborations and consider outsourcing to bolster IT capabilities and support during the transition.
- Pace of Deployment: Opt for a phased deployment to identify and address challenges early on.
- Governance Structure: Form a governance body to guide the integration in line with Tesla's goals.

Adoption Analysis: Goals

Enhanced Operational Efficiency: By accurately forecasting demand, Tesla can optimize production and reduce delivery delays, resulting in increased customer satisfaction.

Strategic Competitive Advantage: As electric vehicle market competition intensifies, having an edge in demand prediction can keep Tesla ahead of its competitors, ensuring that the company can meet market demand efficiently.

Future Business Evolution: The technology aligns with Tesla's goals of innovation, making it easier for the company to adapt to changing market dynamics, evolving customer preferences, and potential business model shifts.

Adoption Analysis: Costs

Initial Integration Cost: Estimated at \$3 million, covering the licensing of the technology, initial setup, and integration into Tesla's current IT infrastructure.

Training and Support: Roughly \$1 million for continuous training programs, workshops, and support during the initial phase.

ROI: By reducing overproduction and ensuring consistent delivery timelines, Tesla can potentially save an estimated \$10 million annually. Further, enhancing customer trust through reliability can result in increased sales, leading to a ROI in less than two years.

Risks of Adoption: Allocated \$500,000 for pilot programs, phased rollouts, and dedicated teams to address potential issues. If risks materialize, additional costs might be incurred in terms of PR management and operational adjustments.

Other Approaches: Manual
Forecasting: While traditional methods
exist, they lack the accuracy, efficiency,
and data integration capabilities of the
proposed solution. Given Tesla's data
volume and market dynamics,
Demand Forecasting Solutions offers
the best balance of cost and benefit.

Relative Value: Adopting this technology is of high importance, especially when juxtaposed with other IT activities. It directly addresses a current operational gap, and its integration will reinforce Tesla's position in the market.

THANK YOU! Do You Have Any Questions?

WORK CITY

Tesla, "Annual Report & Webcast", 2023, https://ir.tesla.com/#other-documents-events.

Daniel, Pereira, "Tesla Business Model" July 6, 2023, https://businessmodelanalyst.com/tesla-business-model/#:~:text=The%20Tesla%20business%20model%20operates,easily%3A%20Tesla%20or%20Elon%20Musk%3F.

Josh, Howarth, "10 Important Auto Industry Trends (2023-2025)", December 15, 2022, https://explodingtopics.com/blog/auto-industry-trends

Kinaxis, "Meet the Only Concurrent Planning Platform", January 23, 2023, https://www.kinaxis.com/en/solutions/platform

ToolsGroup, "Demand Planning & Forecasting Software", March, 14, 2023, https://www.toolsgroup.com/solutions/demand-forecasting-planning/

Michigan state university, "How Demand Planning Can Improve the Supply Chain", July 26, 2023, <a href="https://www.michiganstateuniversityonline.com/resources/supply-chain/how-demand-planning-improves-supply-chain/how-demand-planning-improv

Abby, Jenkins,"Demand Forecasting: Everything You Need To Know", September, 2022, https://www.netsuite.com/portal/resource/articles/inventory-management/demand-forecasting.shtml

- Logility, "Demand Optimization Maturity Curve", October 22, 2022, https://www.logility.com/blog/demand-optimization-maturity-curve/
- Rachel, Hand, "What is Demand Forecasting? Importance and Benefits of Forecasting Customer Demand" October 13, 2023, https://www.shipbob.com/blog/demand-forecasting/
- Dorota, Owczarek, "What Makes Demand Forecasting Difficult? Navigating the Supply Chain Forecasting Challenges", April 22, 2023, https://nexocode.com/blog/posts/supply-chain-forecasting-challenges/
- Steven, Calhoun, "Demand Forecasting Problems and How to Solve Them", February 5, 2021, https://www.veryableops.com/blog/demand-forecasting-problems
- Pacemaker editorial office, "Why Demand Forecasting is Crucial for Companies", July 4, 2023, https://pacemaker.ai/blog/why-demand-forecasting-is-crucial-for-companies
- Netstock, "Calculate your ROI", October 17, 2023, https://www.netstock.com/