

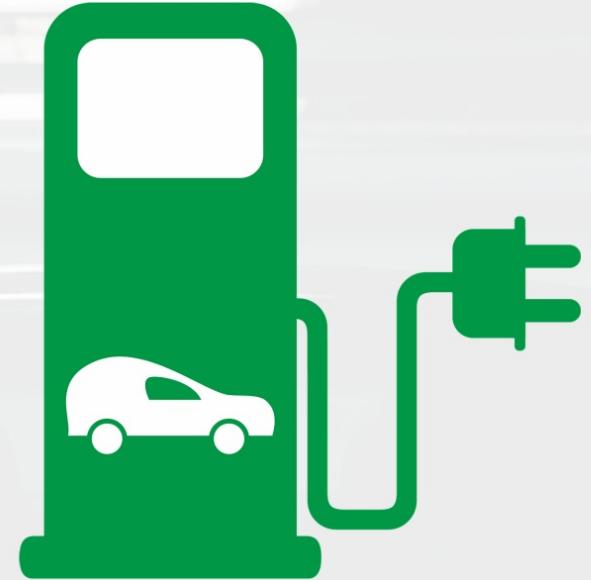
Charging Stations as revenue stream



Team at *Data & Dan-alytics*



Charging Stations as revenue stream



Team at *Data &
Dan-alytics*





*"Dan-alytics, I need your help!
With all the commotion
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acquisition- I need to
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making my investors happy.
Lets talk about additional
streams of revenue with
Tesla..."*

* hypothetical scenario

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* hypothetical scenario

*Who we
are...*

Daniel Moreira

Founder of

Data & Dan-alvtics



- Data Science student at Flatiron
- BS in Business Administration, MIS concentration, Binghamton University
- Background in management and entrepreneurship
- Volunteer mentor/coordinator at SCORE
- Car and boat enthusiast

Dmoreir1@outlook.com
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Github.com/Dmoreir1

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Charging Stations as revenue stream



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**Charging
Stations
Types**

**EV
Charging
stations**

Business Problem

*Is there enough growth
for installation of
charging stations to be
profitable?*



Charging types

Type 1 (120V)

Type 2 (240V)

DCFC (fast charger)



CCS (SAE Combo)

is compatible with BMW®,
Volkswagen and General Motors EVs.



CHAdeMO

is compatible with Nissan, Mitsubishi
and some Kia®, EVs. Compatible with
Tesla EVs if you have a Tesla
CHAdeMO adapter.



Tesla Supercharger

is compatible with Tesla only.

**Charging
Stations
Types**

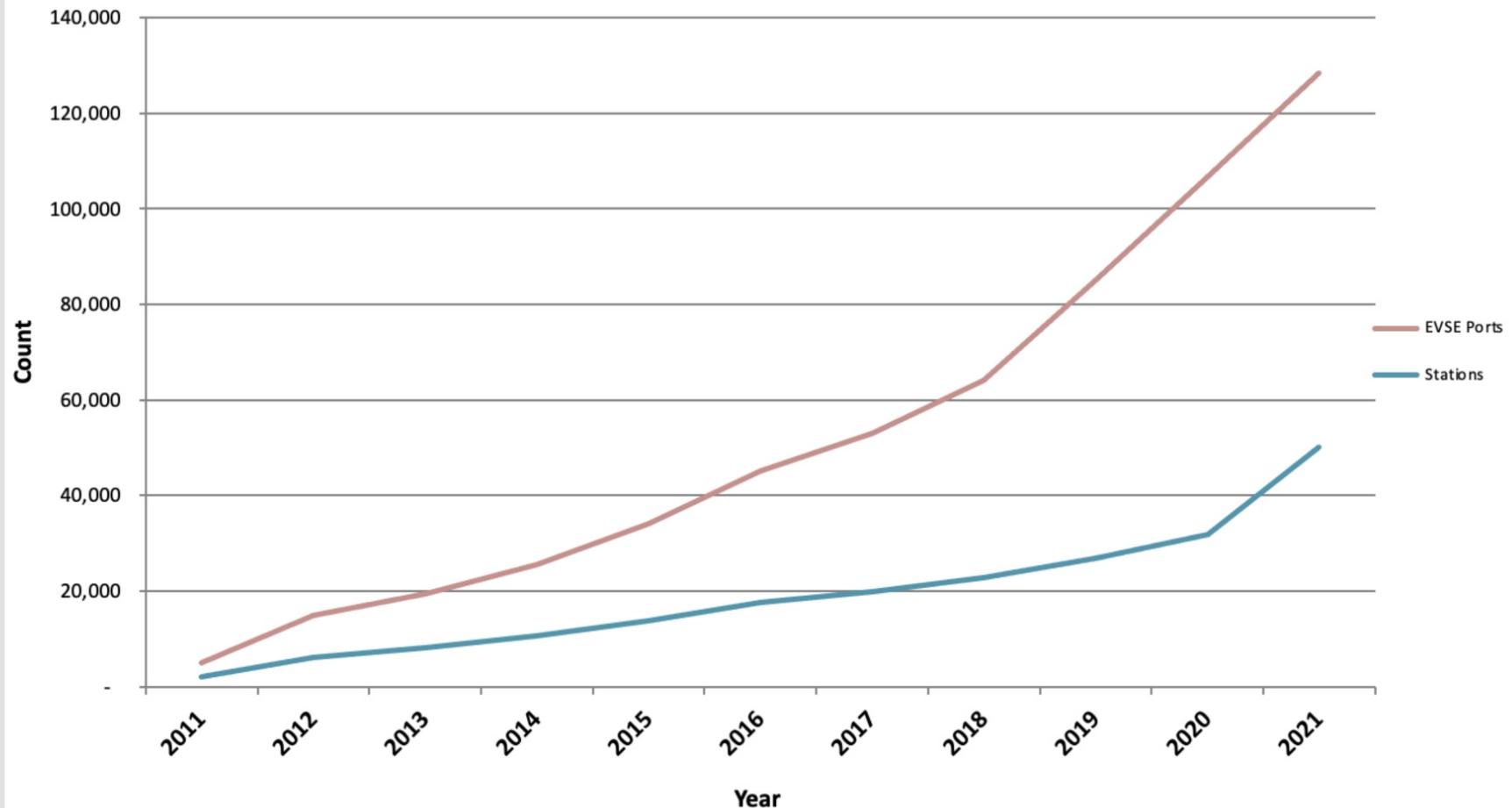
**EV
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U.S. Public and Private Electric Vehicle Charging Stations



**Charging
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Takeaway

States exhibiting highest growth :

- Florida
- New Jersey
- New York



Dataset

Methodology

Limitations

Data Sources

- Atlas EV Hub
 - Over 3.6 million DMV records from 16 states
 - CA, NY, NJ, CT, TX, FL, MT, MN, MI, WA, OR, VT, VA, TN, CO, WI
- US Department of Energy: Alternative fuels data center (AFDC)

Takeaway

States exhibiting highest growth :

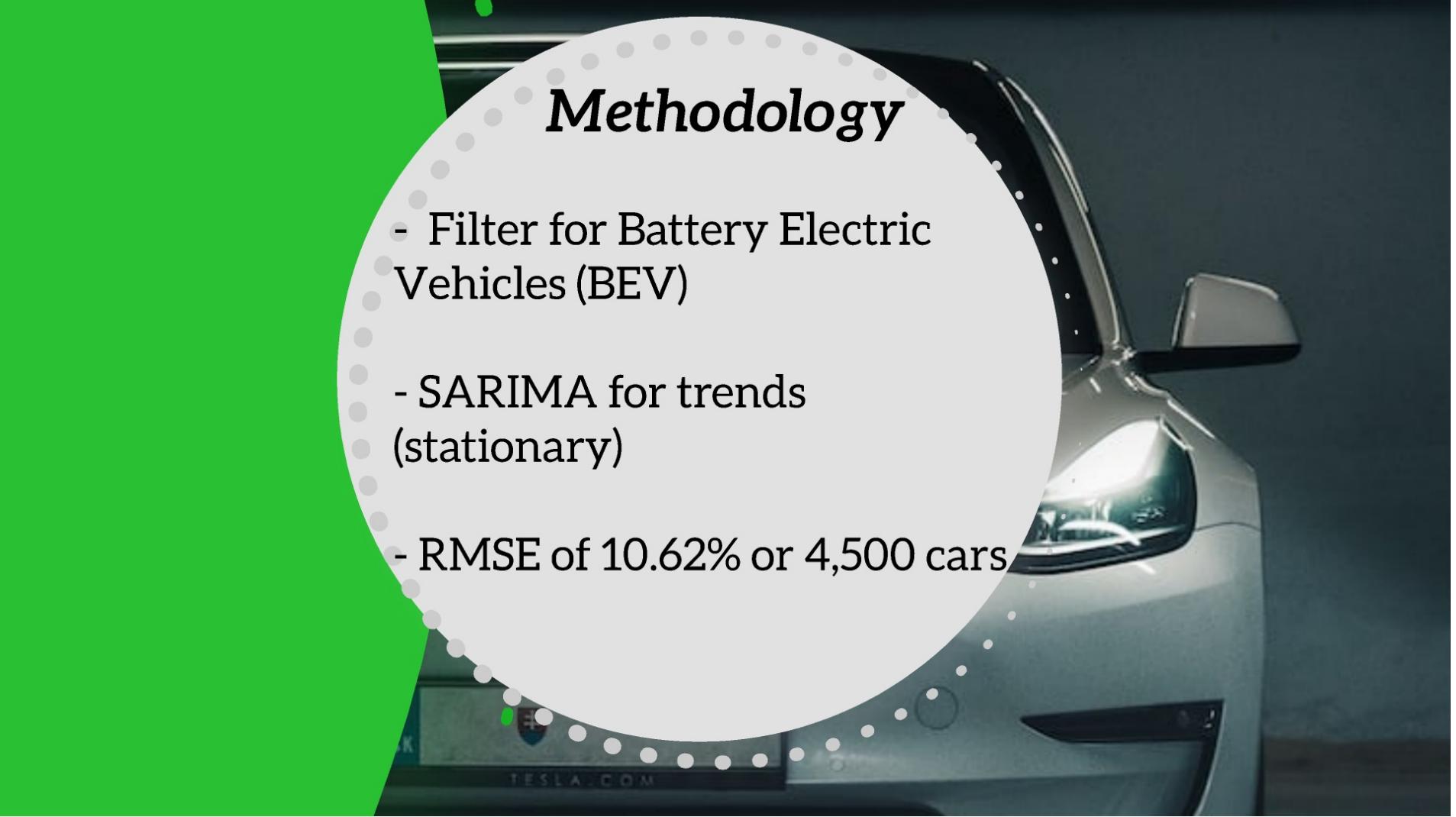
- Florida
- New Jersey
- New York



Dataset

Methodology

Limitations



Methodology

- Filter for Battery Electric Vehicles (BEV)
- SARIMA for trends (stationary)
- RMSE of 10.62% or 4,500 cars

Takeaway

States exhibiting highest growth :

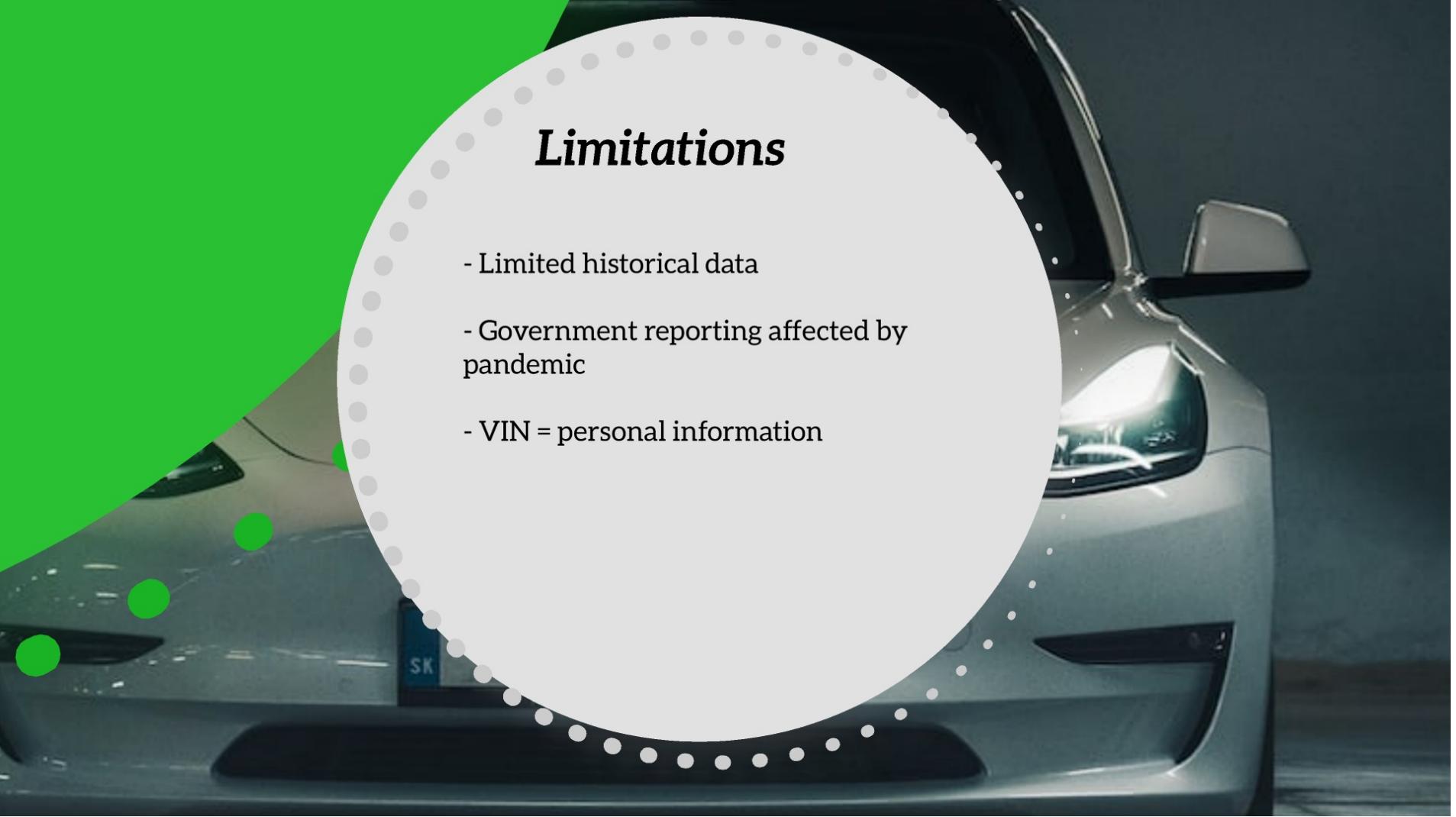
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Dataset

Methodology

Limitations



Limitations

- Limited historical data
- Government reporting affected by pandemic
- VIN = personal information

Takeaway

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Dataset

Methodology

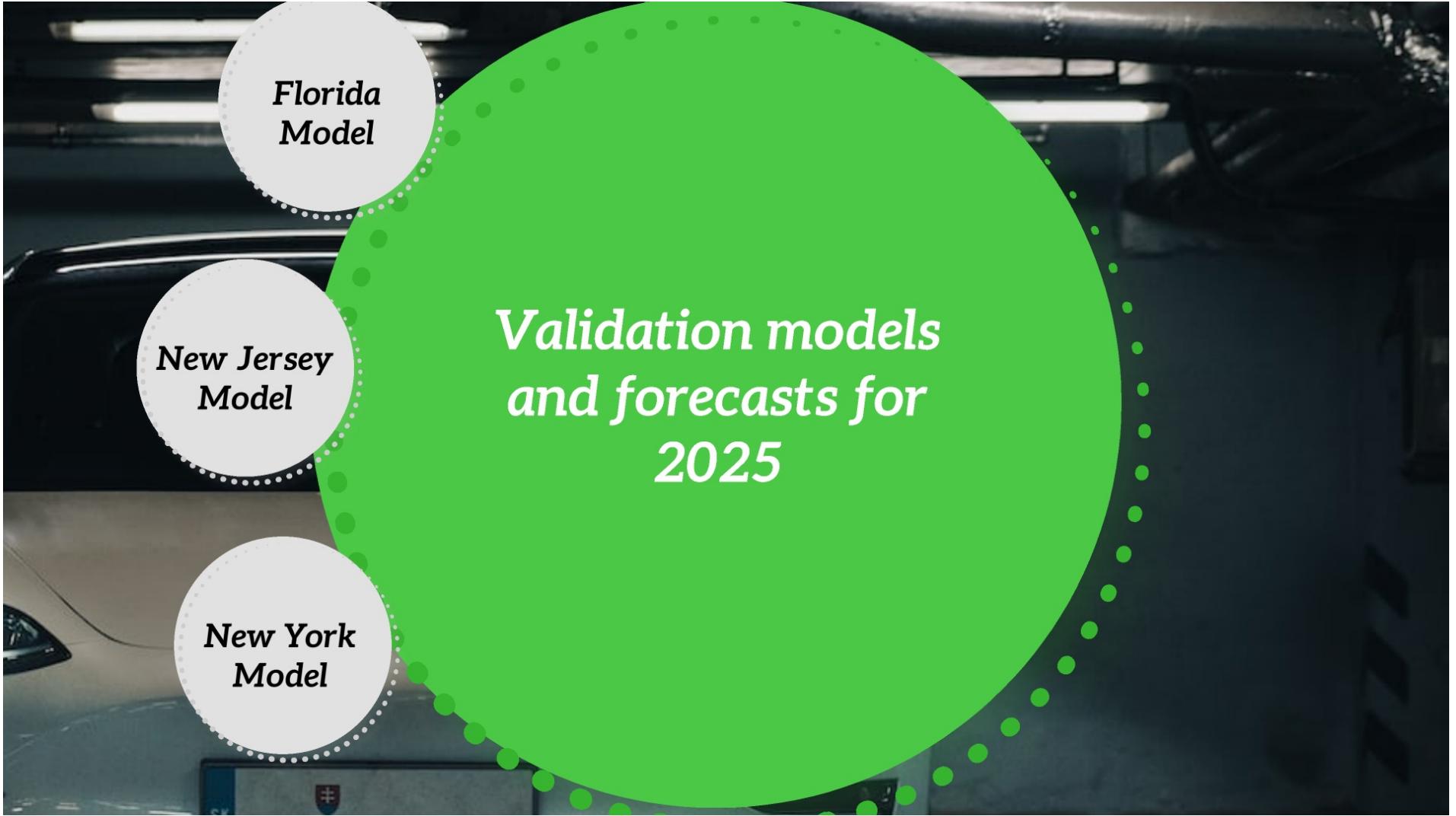
Limitations

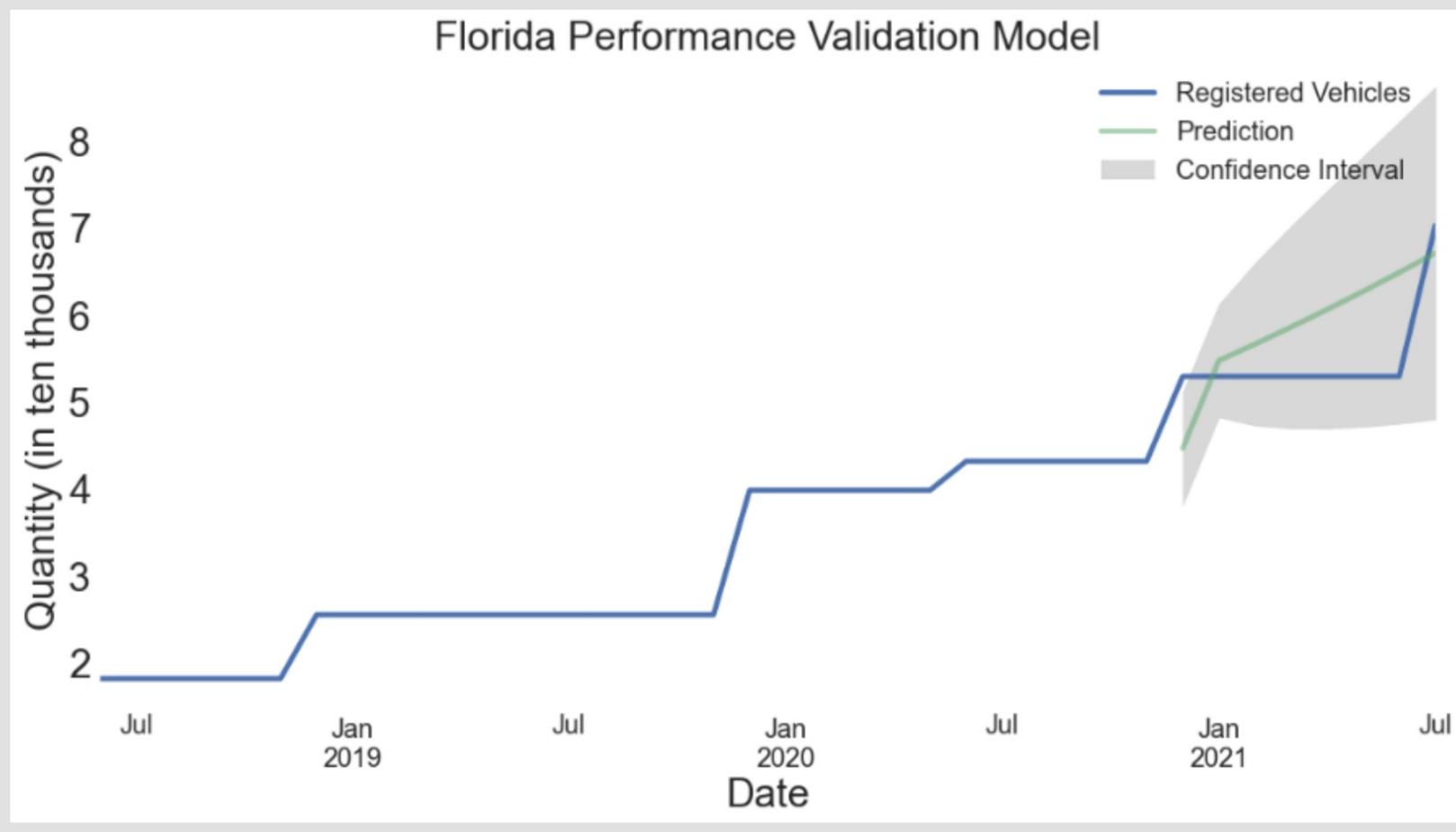
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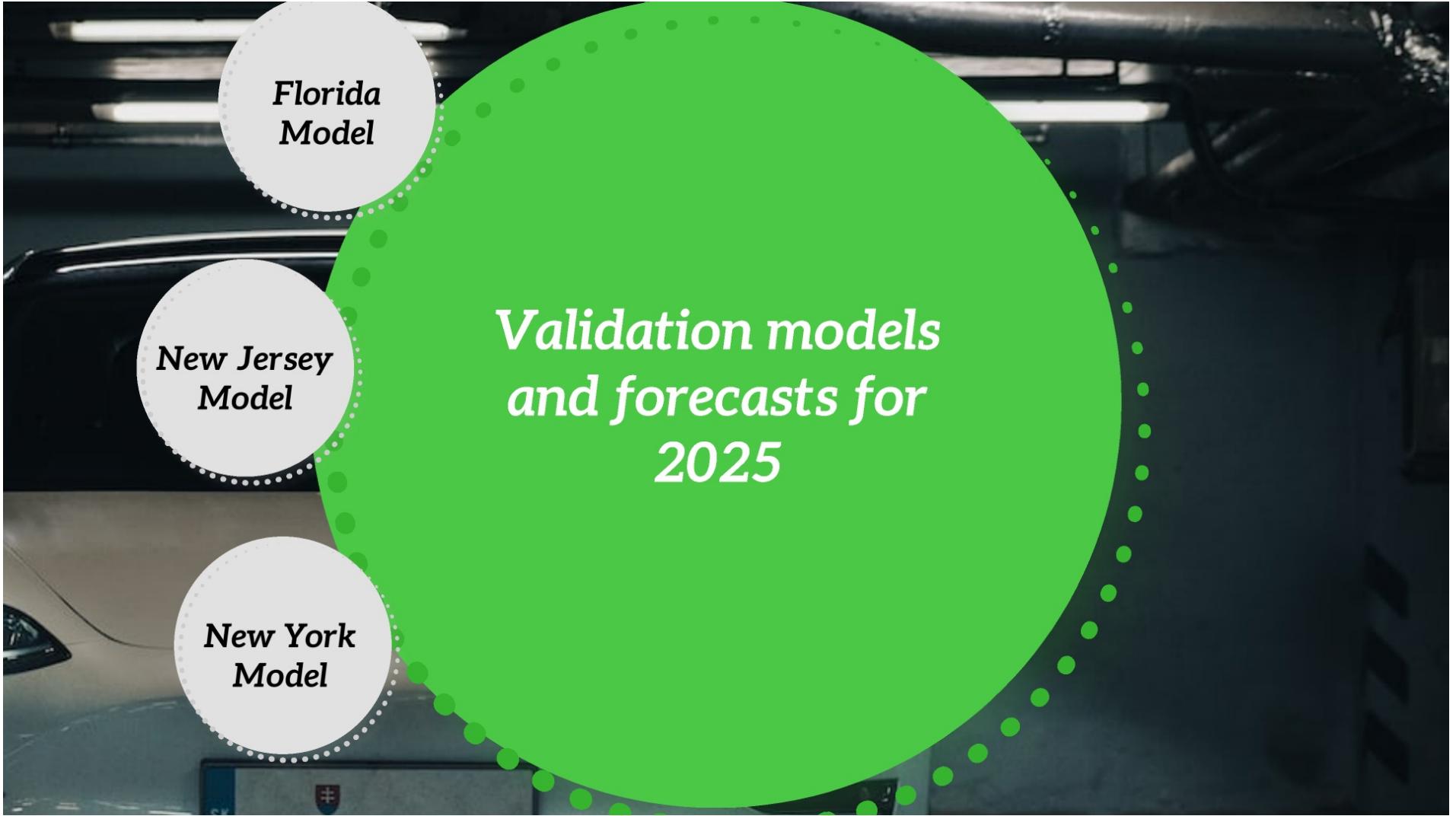


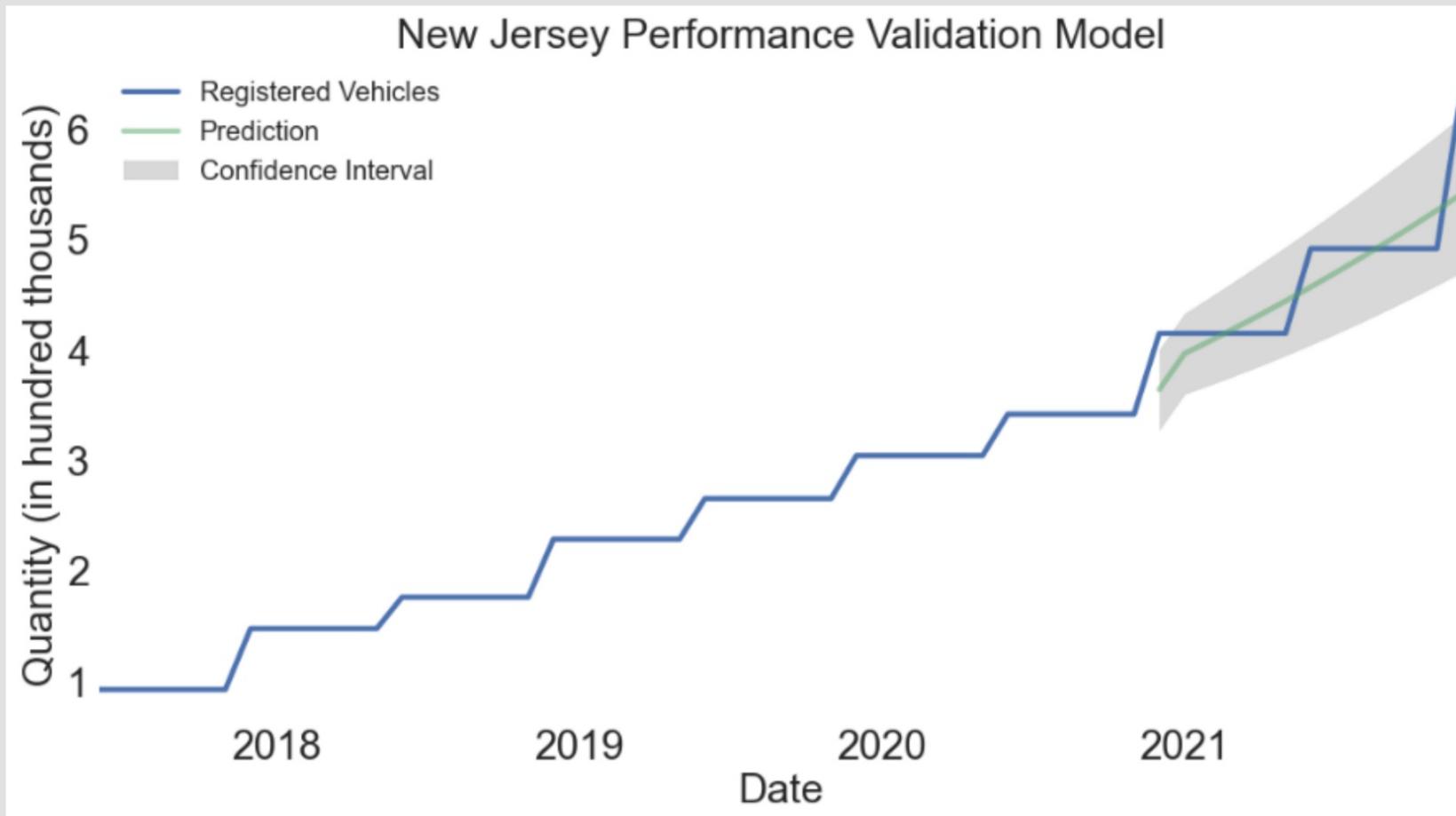
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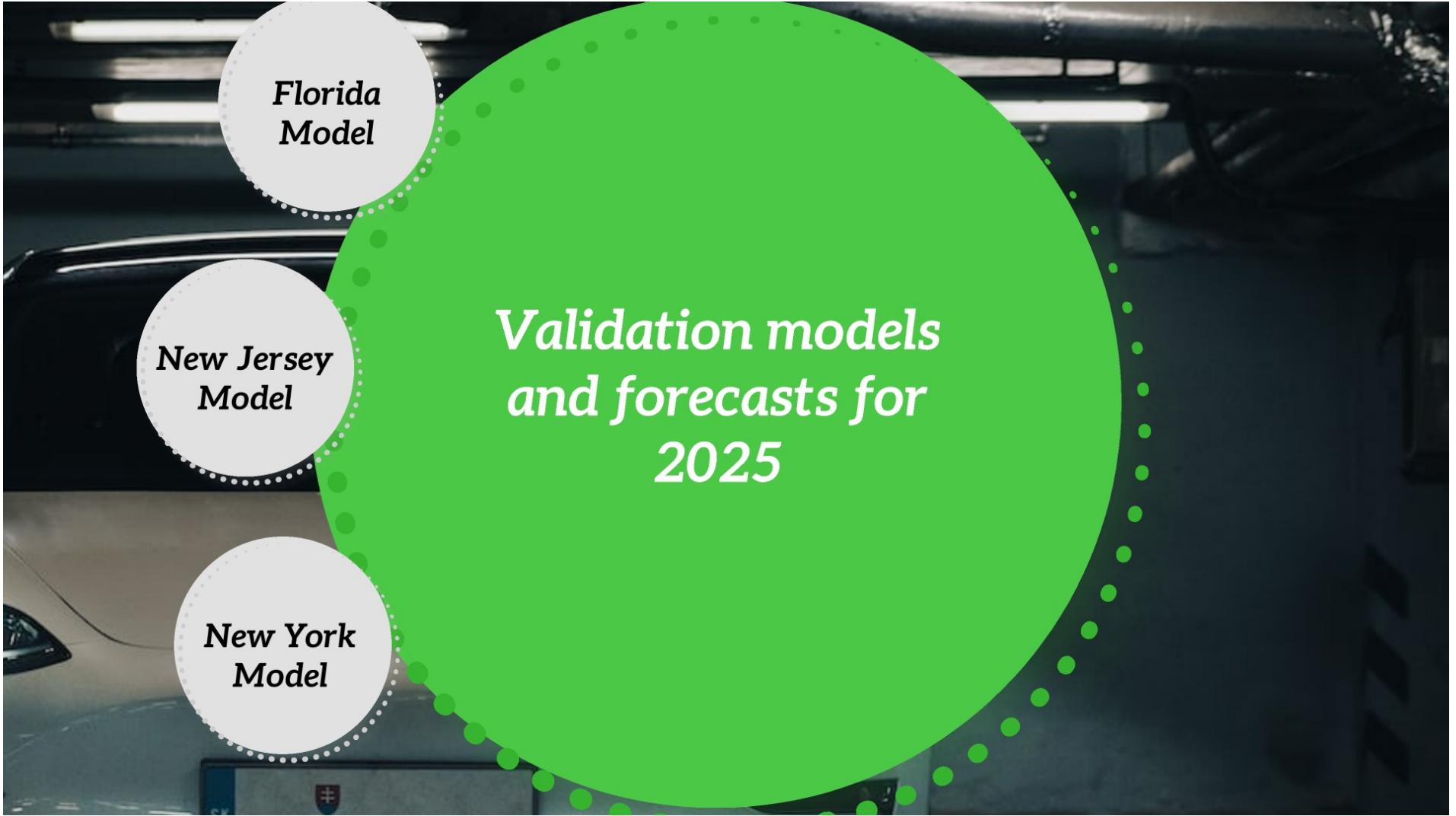


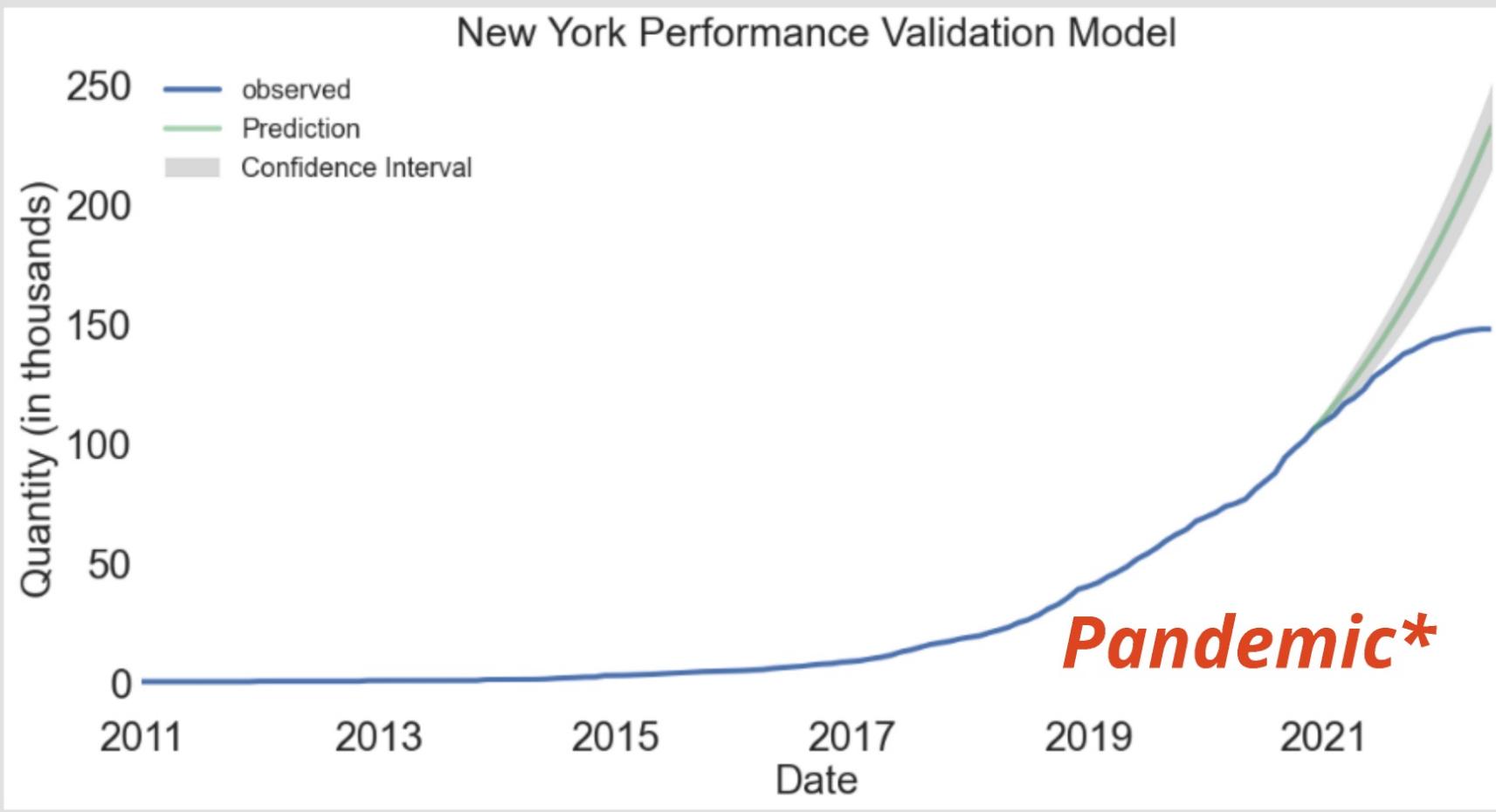


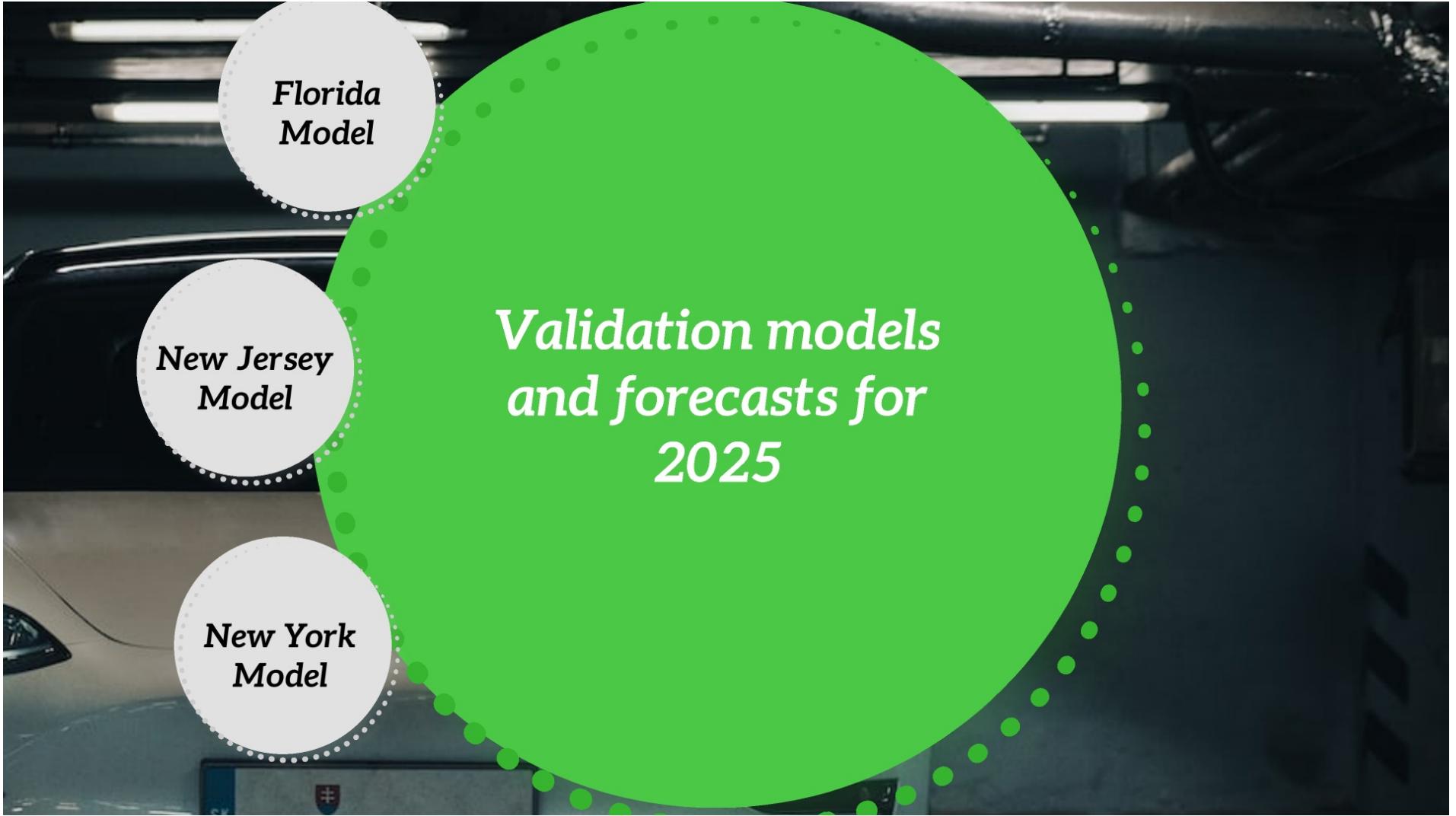


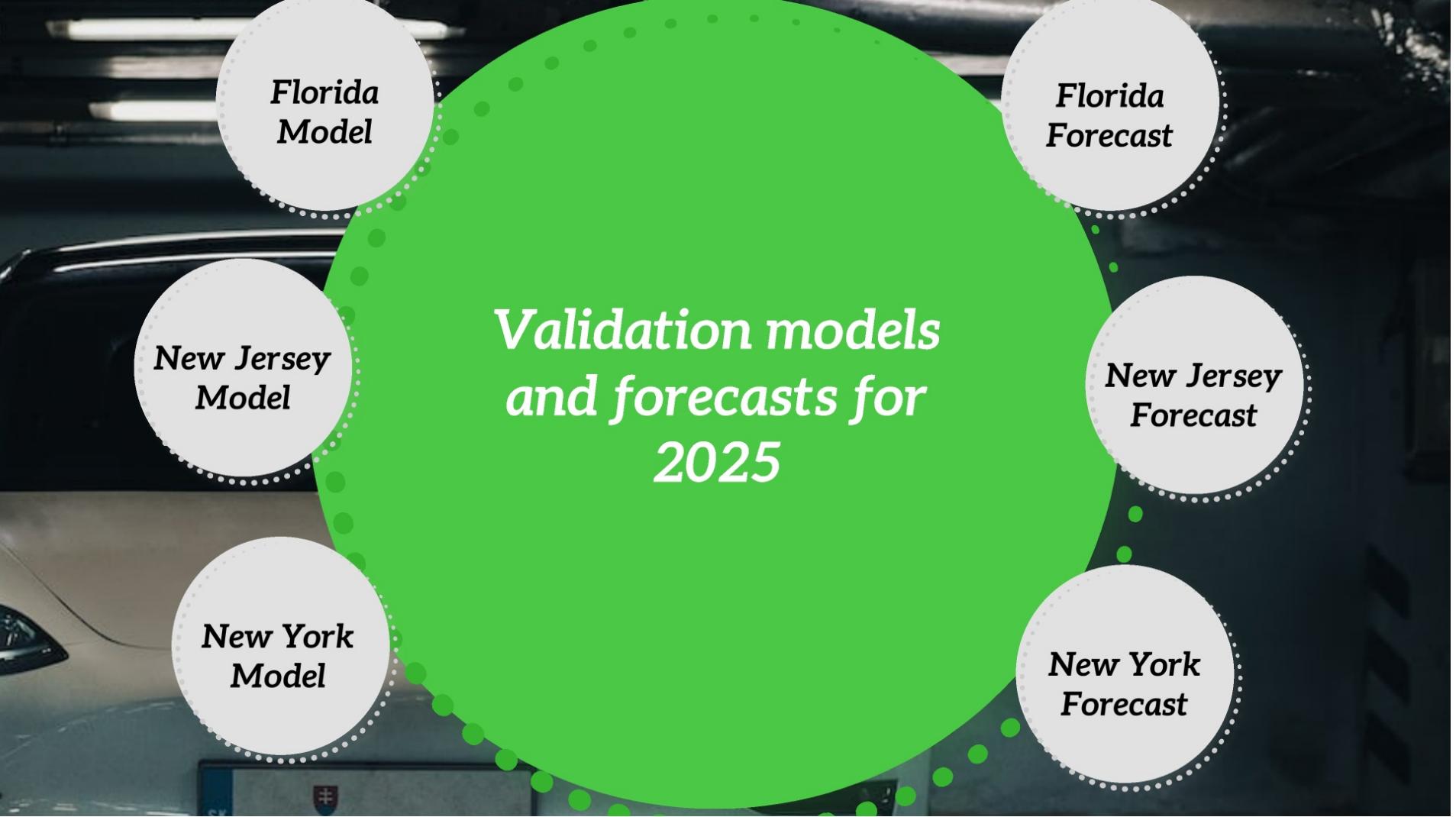












Validation models and forecasts for 2025

Florida
Model

Florida
Forecast

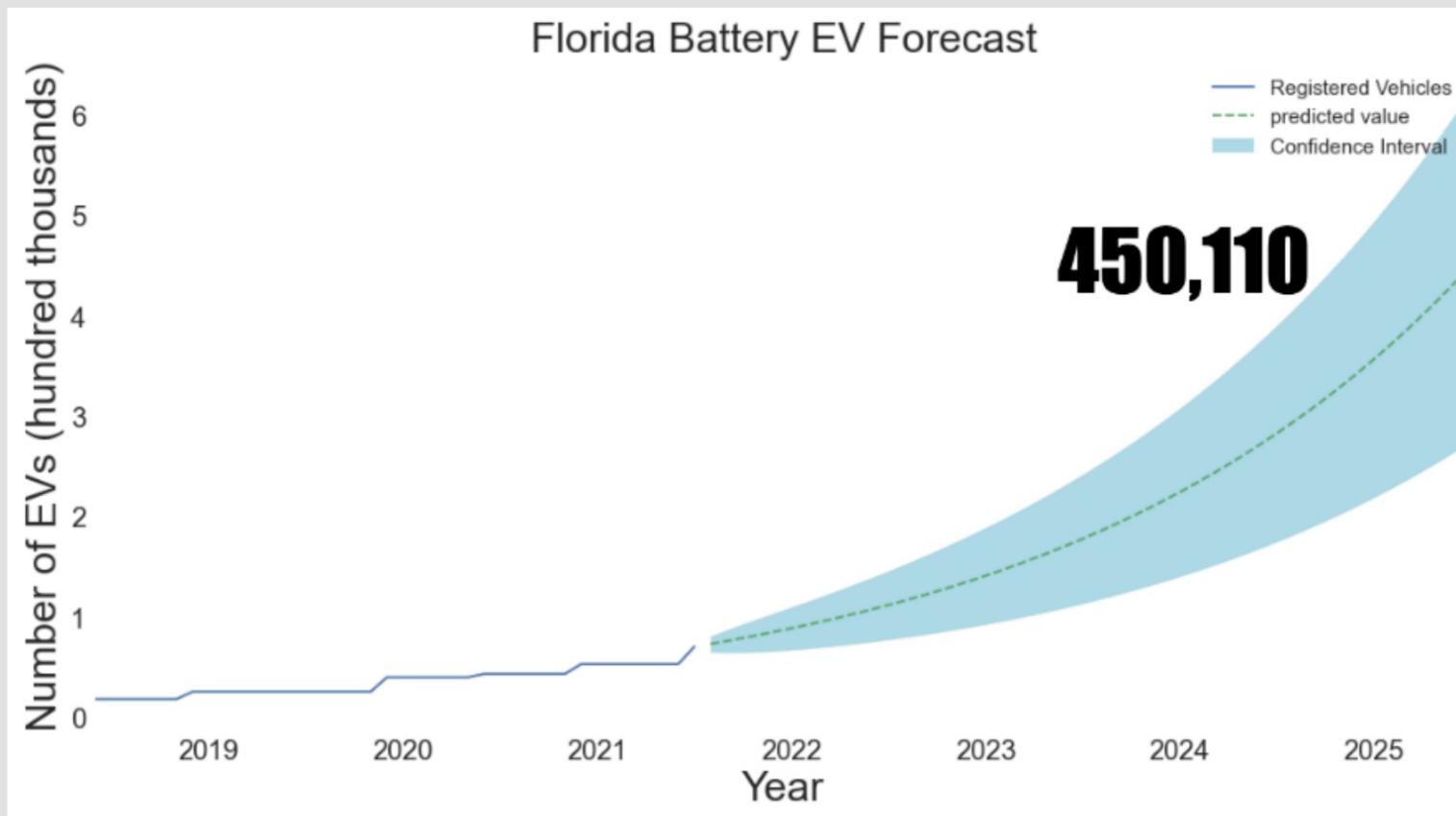
New Jersey
Model

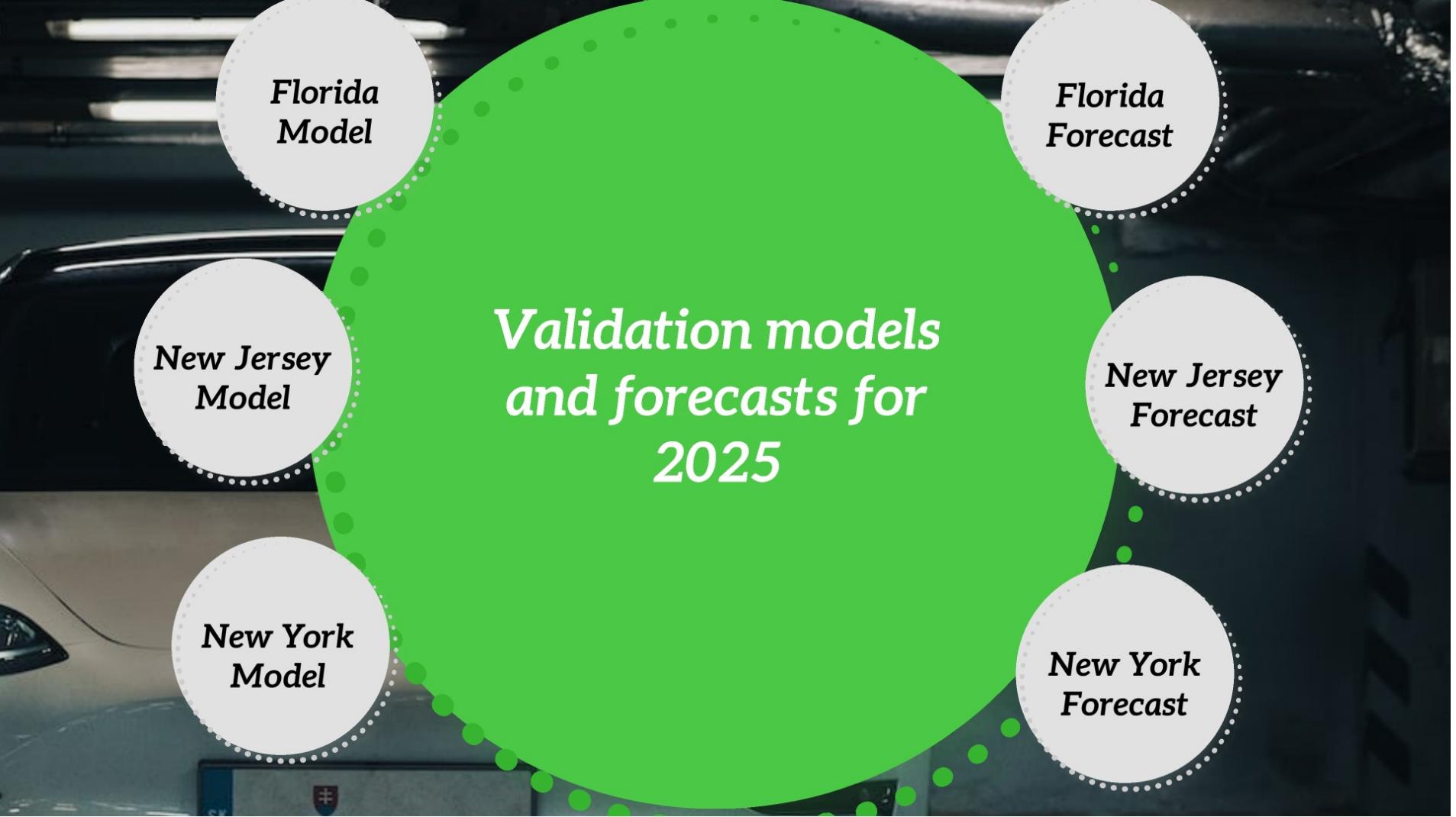
New Jersey
Forecast

New York
Model

New York
Forecast

2025 Forecast - 370% increase





Validation models and forecasts for 2025

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Model

Florida
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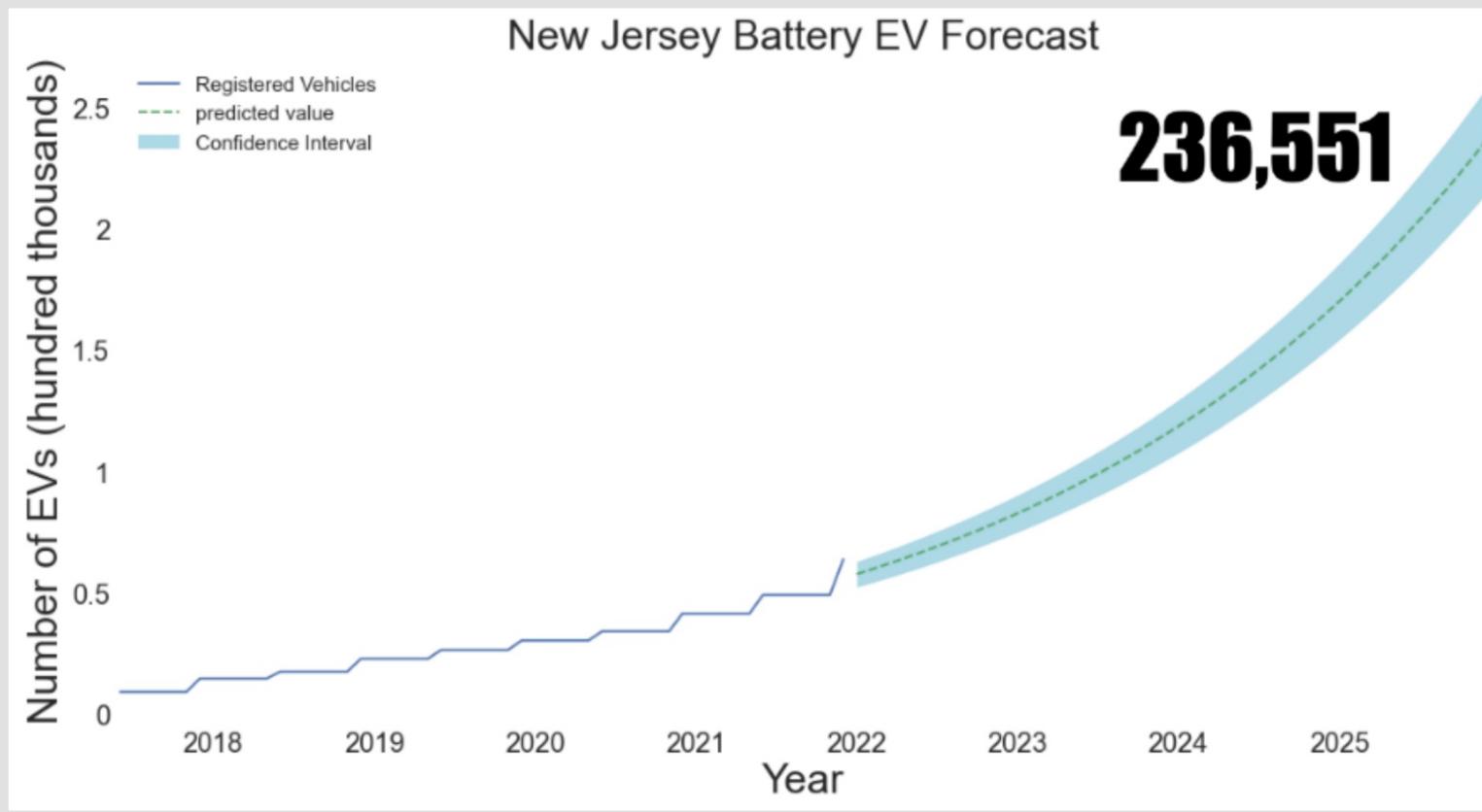
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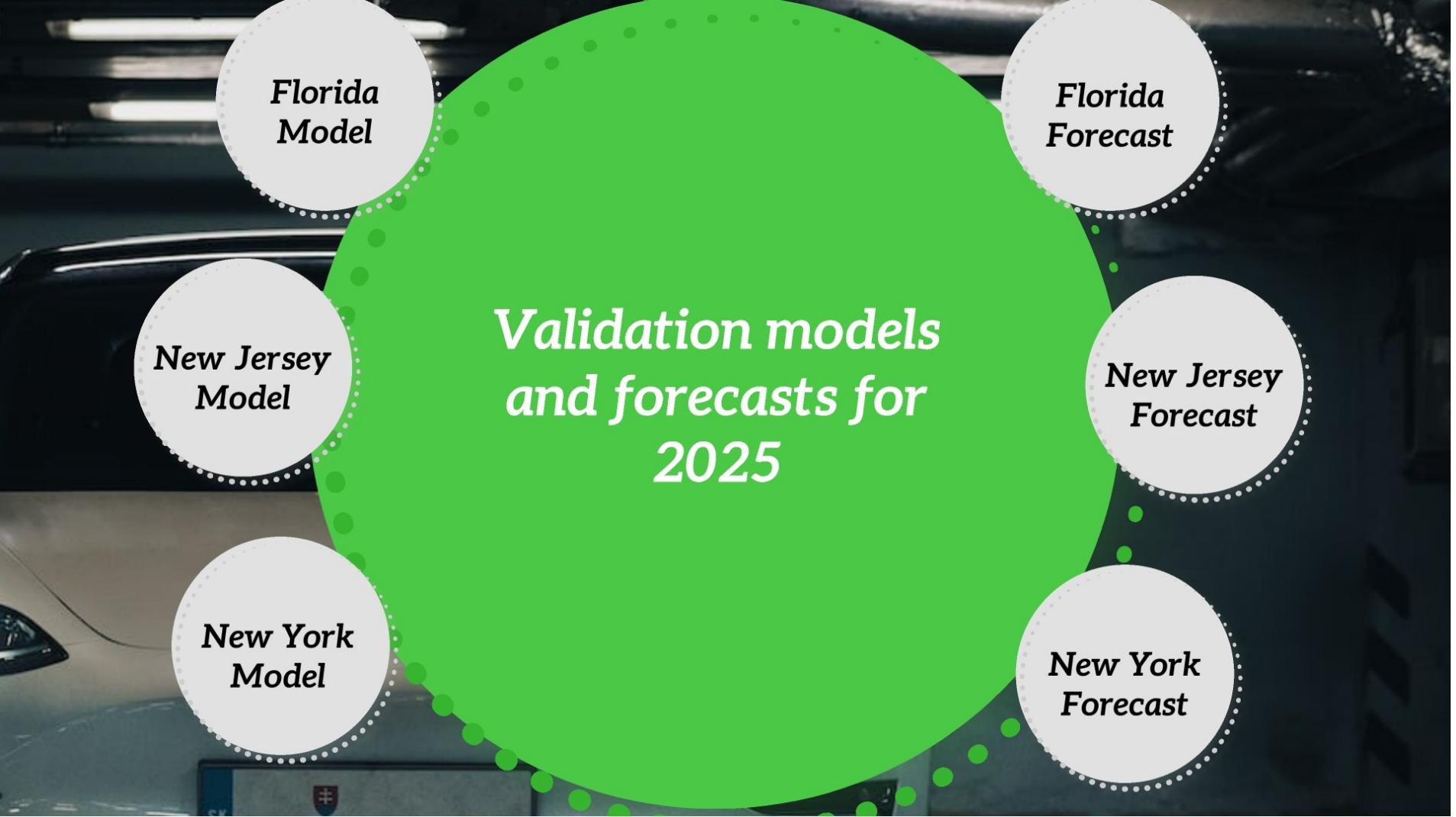
New Jersey
Forecast

New York
Model

New York
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2025 Forecast - 394% increase





Validation models and forecasts for 2025

Florida
Model

Florida
Forecast

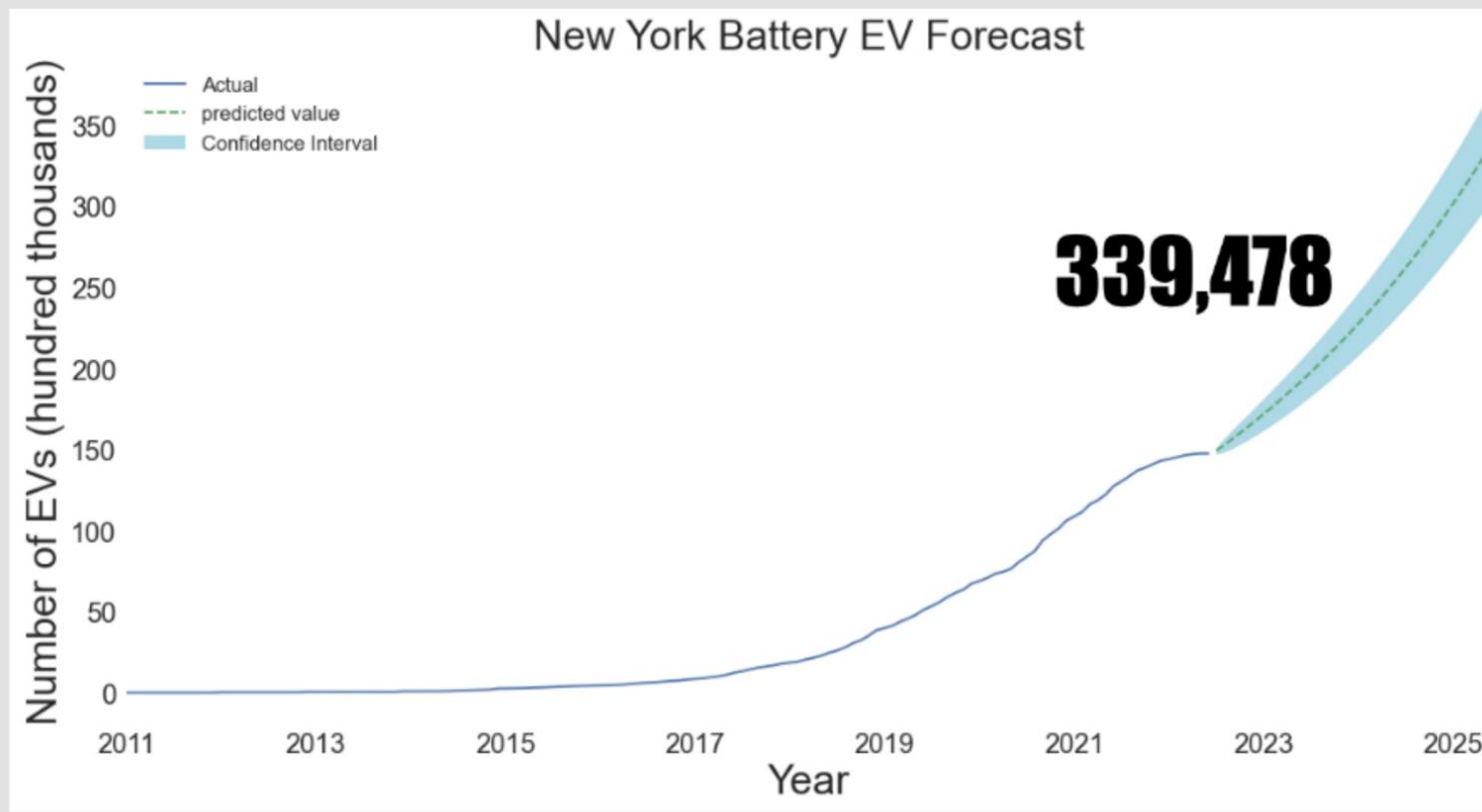
New Jersey
Model

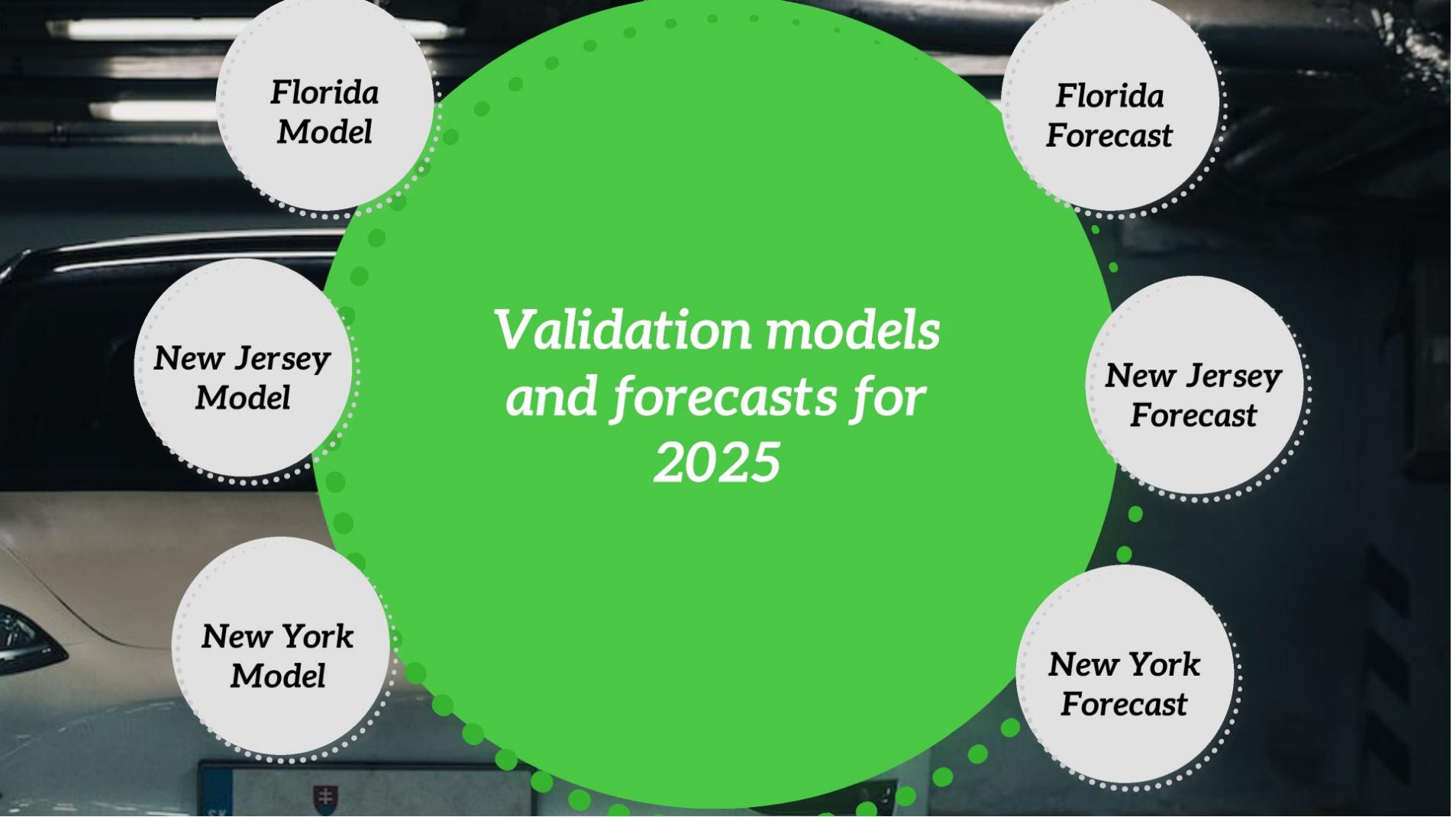
New Jersey
Forecast

New York
Model

New York
Forecast

2025 Forecast - over 400% increase





Validation models and forecasts for 2025

Florida
Model

Florida
Forecast

New Jersey
Model

New Jersey
Forecast

New York
Model

New York
Forecast

Charging Stations as revenue stream



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Recommendations

Highest growth rate vs. market share

- 1) New York - 39,070 or 38.84%
- 2) New Jersey - 36,182 or 57.4%
- 3) Florida - 55,370 or 61.41%

Universal
compatibility for
stations



*Further
Considerations*



Further Considerations

- Vin Decoder to filter based on battery type
- Tensorflow with longer data + variables
- Calibrate for NY state registrations



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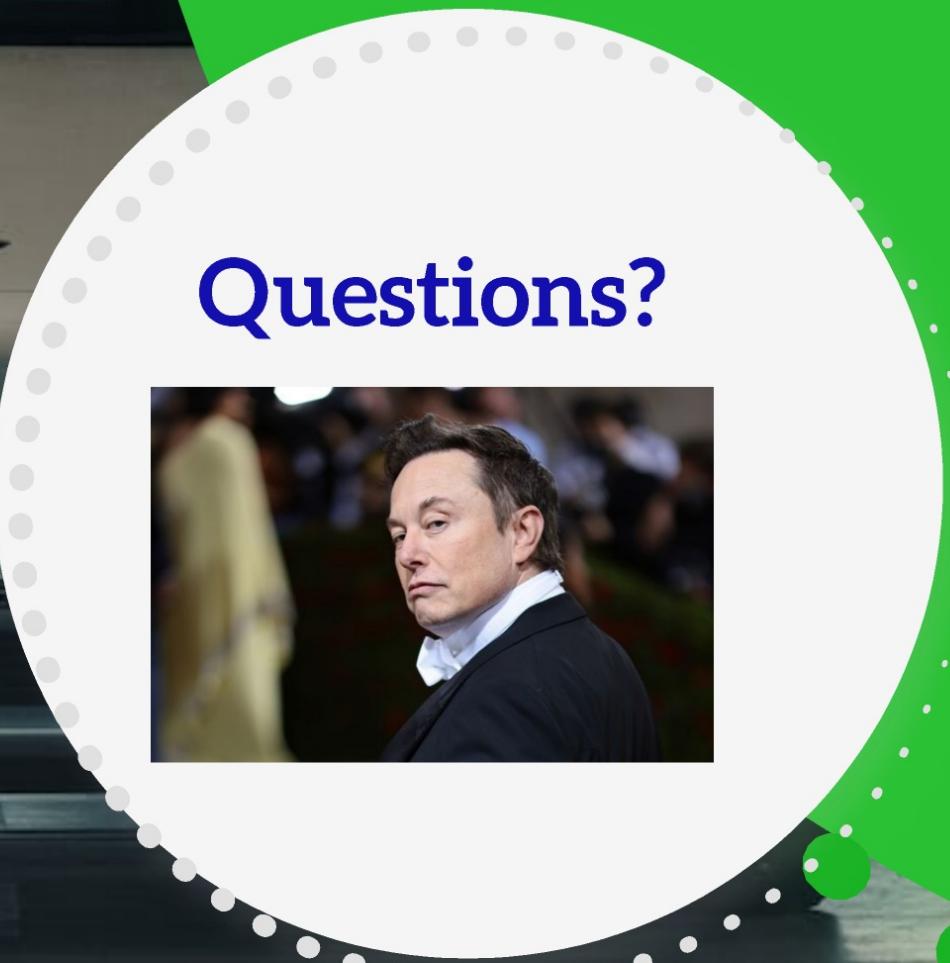
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**Thank
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Questions?





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