

Success in EV: Learning lessons from fuel retail

15th May 2024

UNITI Expo International Forum

lan Thompson
Executive Director

OPIS Retail Overview



- Founded in 1997 focused primarily in USA but that is all about to change
- Acquired by Dow Jones in 2022. OPIS curates and provides data to Refiners & Suppliers, Wholesalers, Retailers, Traders, Transportation incl auto OEMs, Financial Institutions
- OPIS Retail monitors nearly 5 million gasoline & diesel prices per day in real time for all players: major brands, regional independents, c-store chains, supermarkets, bigbox stores, etc.
- 145,000+ outlets in North America (USA, Canada, Mexico)
- 280,000+ stations in 62 countries across Europe, South America, Asia & Australia
- Interactive, web-based tools allow instant access to retail pricing for informed decisions on regional and national levels
- Reports track margins and market share by site, brand and geography
- Demand reports track weekly volume trends by region



STAGE 1: Regulated

Stages of Market Maturity - Major Characteristics



Price is determined by government/3rd party Prices change monthly

High volume

High margin

Barriers to entry

Competition based on non-pricing factors - Location, Operations, Facilities etc

STAGE 2: Energing

Price flexibility - cost plus is typical

Price changes weekly

Good volume

Good margin

New entrants - NTI, some M&A

Price is starting to become a factor but non-pricing factors remain important

FAGE 3: Competitive

Price dynamism: market based

Price changes daily

Volume and margin are more challenging

Few new entrants

Consolidation

Significant M&A

Matching price with offer is critical

TAGE: 4 Volatile

Price volatility: customer based

Price changes many times per day

Volume shrinking, margin challenging price is used as a volume lever

Rampant M&A

Great retailers thrive, others struggle to survive

Fundamental KPI - Market Efficiency

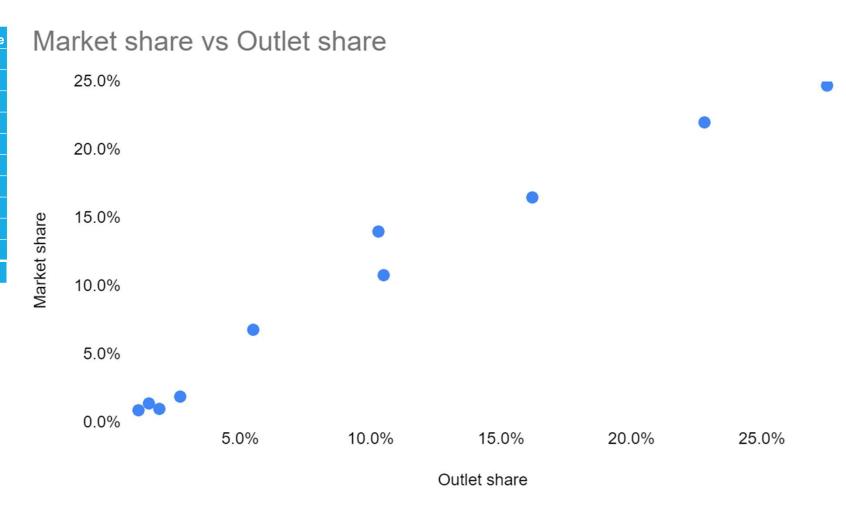


Name	Outlet share	Market share	MER
Retailer 1	1.1%	0.9%	0.82
Retailer 2	1.5%	1.4%	0.93
Retailer 3	1.9%	1.0%	0.53
Retailer 4	2.7%	1.9%	0.70
Retailer 5	5.5%	6.8%	1.24
Retailer 6	10.3%	14.0%	1.36
Retailer 7	10.5%	10.8%	1.03
Retailer 8	16.2%	16.5%	1.02
Retailer 9	22.8%	22.0%	0.96
Retailer 10	27.5%	24.7%	0.90
TOTAL	100.0%	100.0%	

Same data - different view



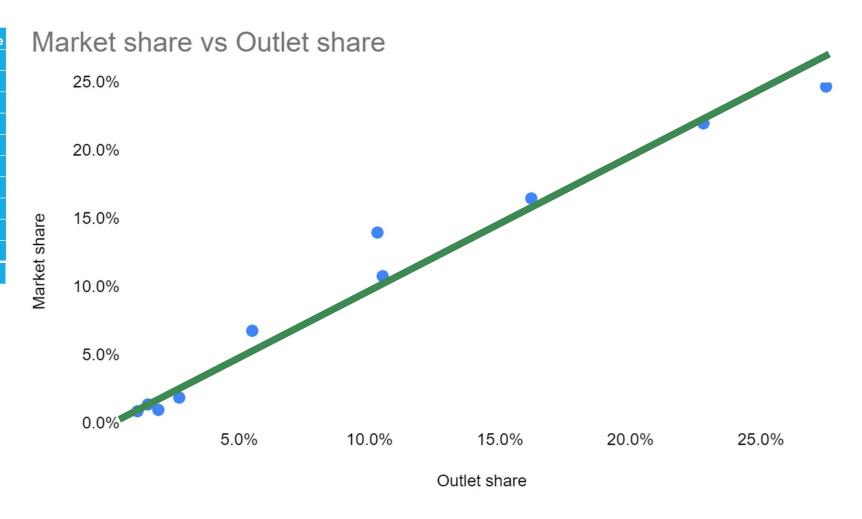
Name	Outlet share	Market share
Retailer 1	1.1%	0.9%
Retailer 2	1.5%	1.4%
Retailer 3	1.9%	1.0%
Retailer 4	2.7%	1.9%
Retailer 5	5.5%	6.8%
Retailer 6	10.3%	14.0%
Retailer 7	10.5%	10.8%
Retailer 8	16.2%	16.5%
Retailer 9	22.8%	22.0%
Retailer 10	27.5%	24.7%
TOTAL	100.0%	100.0%



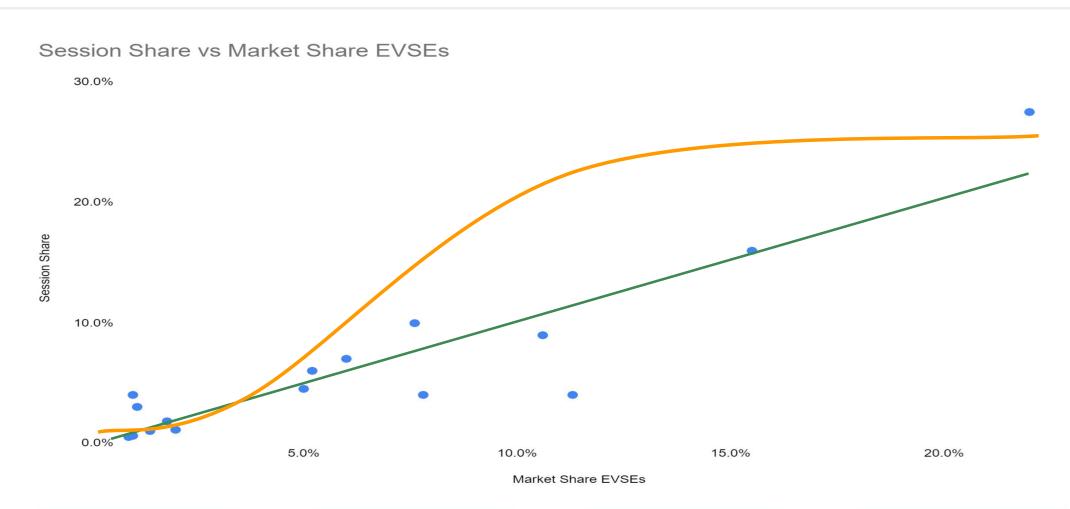
Same data - different view



Name	Outlet share	Market share
Retailer 1	1.1%	0.9%
Retailer 2	1.5%	1.4%
Retailer 3	1.9%	1.0%
Retailer 4	2.7%	1.9%
Retailer 5	5.5%	6.8%
Retailer 6	10.3%	14.0%
Retailer 7	10.5%	10.8%
Retailer 8	16.2%	16.5%
Retailer 9	22.8%	22.0%
Retailer 10	27.5%	24.7%
TOTAL	100.0%	100.0%

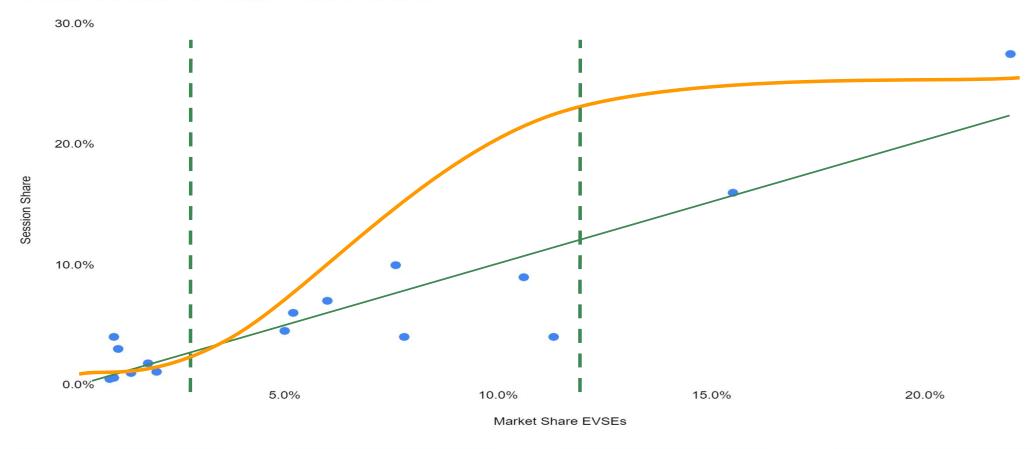






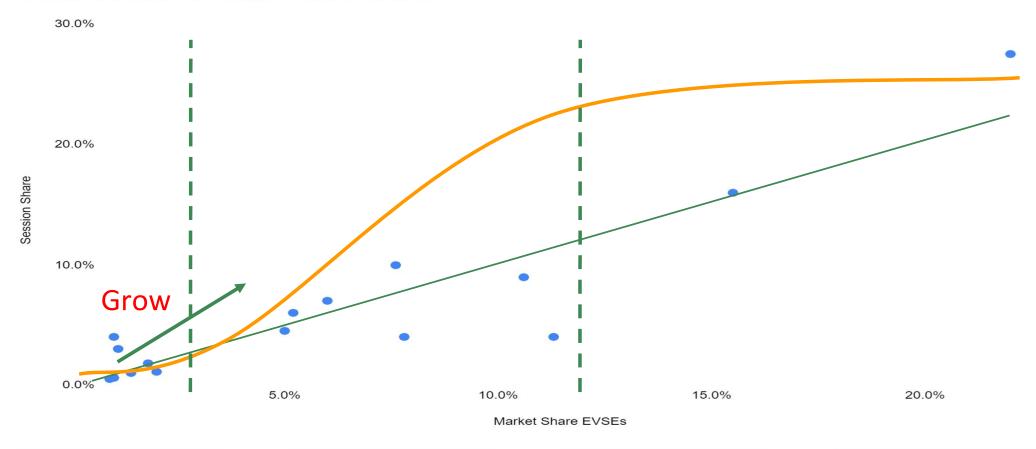


Session Share vs Market Share EVSEs

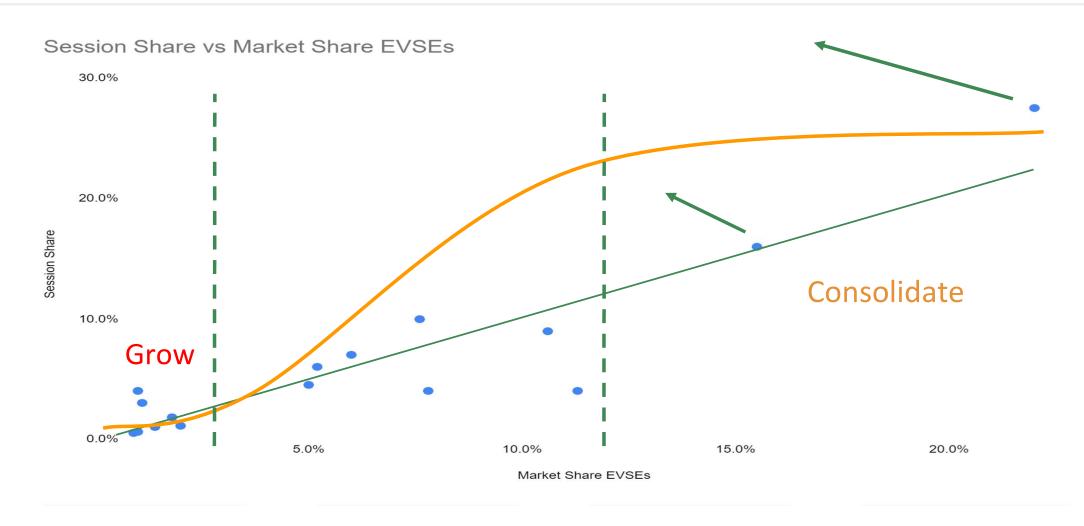




Session Share vs Market Share EVSEs

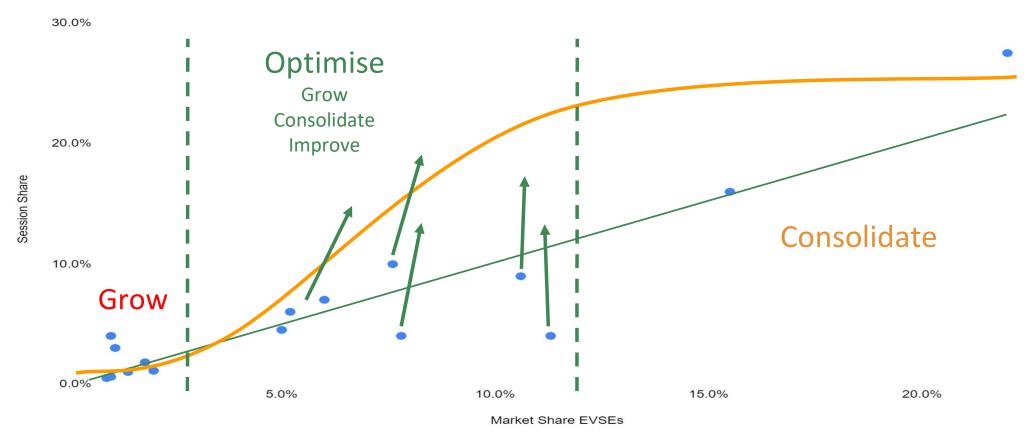






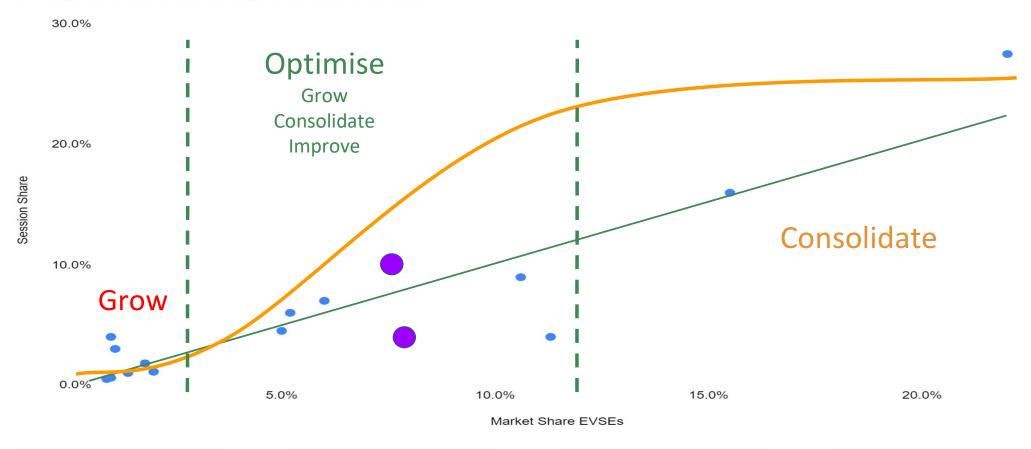






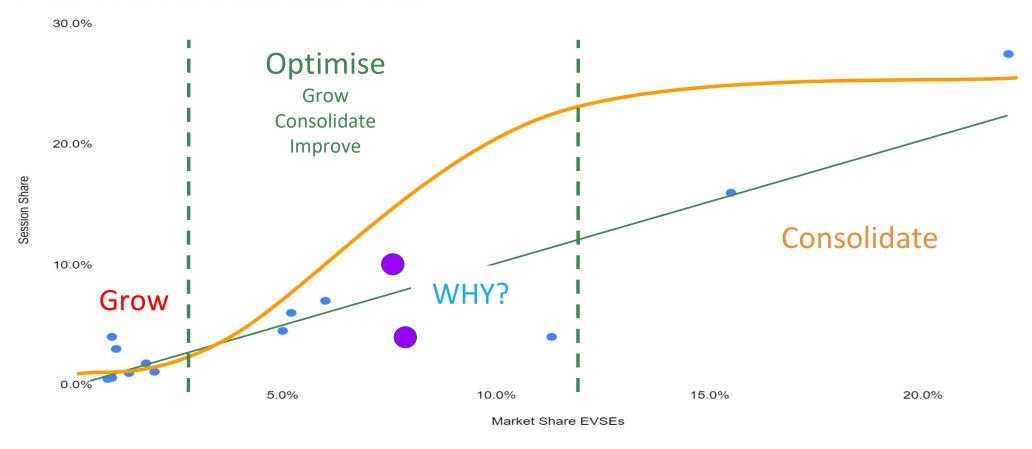


Session Share vs Market Share EVSEs





Session Share vs Market Share EVSEs



Explaining 'Why?' is not easy - but worthwhile

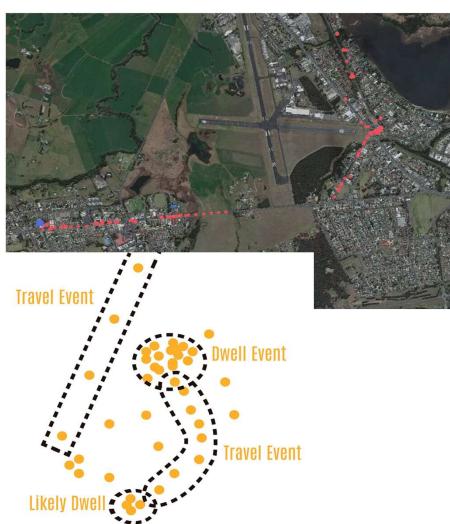


Dataset	Coverage	Update	Relevant attributes
Human Mobility (tracking of mobile phones)	Country-wide, 220 millions mobile devices per month. Residents and visitors	Daily	Location of mobile phones, timestamps, home/work locations, POI visitation, device brand/model, categories
Vehicle Mobility (tracking of connected vehicles)	Country-wide, 1.5 trillion samples per year. Cars and trucks separately	Daily	Location of vehicles, vehicle count per road segment, speed/congestion level, timestamps,
Advanced Demographics	Country-wide, attributes aggregated at 239,780 Block Groups and projected on a 100x100-meter grid	Yearly	Population, Age, Gender, Disposable Income, Unemployment more than 10,000 demographics-related attributes for the US
Advanced Consumer	Country-wide, attributes aggregated at 239,780 Block Groups and projected on a 100x100-meter grid	Yearly	Income, spend in food and beverages, spend in transportation, fuel more than 10,000 consumer-related attributes for the US
Financial / Credit Card Insights	Country-wide, attributes aggregated at 3,006 counties and projected on a 100x100-meter grid	Yearly	By sector, including Fuel and Convenience: total spend online, total spend in-store, YoY growth, etc.
Real Estate	Country-wide, attributes aggregated at 41,683 ZIP-codes and projected on a 100x100-meter grid	Present	Rental ask and sale ask per square meter and per room of residential real estate, home value index, value forecasts
Future Development	Country-wide, New Commercial and Residential projects	Monthly	Location of the projects, surface, number of units, number of stores, release year
Satellite imagery and basemaps	Country-wide	Yearly	Satellite and non-satellite imagery as basemaps
Points of Interest (POIs)	Country-wide	Daily	Supermarkets, service stations, C-Stores, carwashes, workshops, business centers, supermarkets, locations, ratings,
Population (Satellite Imagery)	Country-wide, in master grid of 100x100-meter	Yearly	Population count
Street-view Imagery	Country-wide (populated areas)	Bi-Yearly	Imagery and features extracted from imagery (car brands,)
Fuel Pricing and Volumes	Country-wide, per site and per fuel operator	Daily	Fuel Price, Market Share, volumes (#number of liters/gallons), timestamps and other fuel pricing related metrics
Retail Pricing and Volumes	Country-wide, per site and per C-Store/Supermarket operator	Monthly	Retail Sales, Sales by category, Retail configuration (has pharmacy, has clinic,). Performance and pricing by UPC/SKU. Store locator (UPC/SKU offered by location)
EV Pricing and Volumes	Country-wide	Daily	EV Price, Usage/Utilization per charger

Human mobility datasets





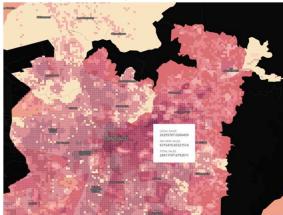


So much data...

OPIS
A DOW JONES COMPANY

- Location
- Brand
- Facilities
- Access
- Price/Promotions

Consumption and Speed



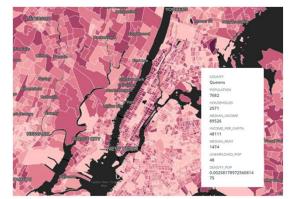
Points of Interest



Social Network Insights



Population and Demographics



Real Estate Insights



Vehicle Mobility



Network Planning outputs



Use the most appropriate, most robust, most accurate data and Machine Learning to -

Maximise return on investment while optimising network volume performance through:

. SITE SELECTION	WHITE SPACE ANALYSIS
. SALES FORECASTING	• INVESTMENT ANALYSIS
. STORE SEGMENTATION	• COMPETITOR SEGMENTATION
. CANNIBALIZATION ANALYSIS	VISITATION ANALYSIS

Retail Fuel Pricing



Lay the foundations

Easy to integrate

Intuitive

Future proof - not just fuel

Flexible

Robust data availability

TAGE 2: Emerging

Add some rules
Phase 1 plus:

Replicate current pricing - likely rules based

Cost plus, cognitive of competition

Value-add analytics

Integration to POS, pump, pole

STAGE 3: Competitive

Increase sophistication Phase 2 plus:

Market based pricing with margin and volume rules

Data driven, incorporating market modelling

Holistic and strategic approach approach to site

STAGE 4: Volatile

World Class Pricing Phase 3 plus:

.

Machine Learning/AI to optimise prices

Every litre and cent counts

TAGE 1: Regulated

Stages of Market Maturity - Focus Areas



Price: set by government Prices chance

Prices change monthly - define processes

Driving volume is key

Focus on:
Market penetration
Location
Facilities
Brand

FAGE 2: Emerging

Price: price flexibility - cost plus is typical

Price changes weekly - refine processes

Driving volume efficiently is key

Focus on:
Market penetration
Cannibalisation
Product
Location
Service

AGE 3: Competitive

Price dynamism: 'market based' competition focussed

Price changes daily - efficiency needed

Focus on:
Network
rationalisation
Cannibalisation
Tail management
Effective Pricing
Bringing Data,
Network Planning
and Pricing
together

AGE: 4 Volatile

Price volatility: 'customer based' -ML, optimisation

Price changes many times per day - world class pricing

Optimising network performance is key

Focus on:
Optimisation of
Network Planning &
Pricing

Deliver market share as profitably as possible

TAGE 1: Regulated

Stages of Market Maturity - Focus Areas



Price: set by government

Prices change monthly - define processes

Driving volume is key

Focus on:
Market penetration
Location
Facilities
Brand

4GE 2: Emerging

Price: price flexibility - cost plus is typical

Price changes weekly - refine processes

Driving volume efficiently is key

Focus on:
Market penetration
Cannibalisation
Product
Location
Service

Price dynamism: 'market based' competition focussed Price changes daily - efficiency needed

Focus on:
Network
rationalisation
Cannibalisation
Tail management
Effective Pricing
Bringing Data,
Network Planning
and Pricing
together

Price volatility: 'customer based' ML, optimisation Price changes many times per day - world class pricing

Optimising network performance is key

Focus on:
Optimisation of
Network Planning &
Pricing

Deliver market share as profitably

OPIS has the data, software and partnerships to maximise performance in all 4 stages of Market Maturity



Success in EV: Learning lessons from fuel retail

15th May 2024

UNITI Expo International Forum

Ian Thompson ithompson@opisnet.com