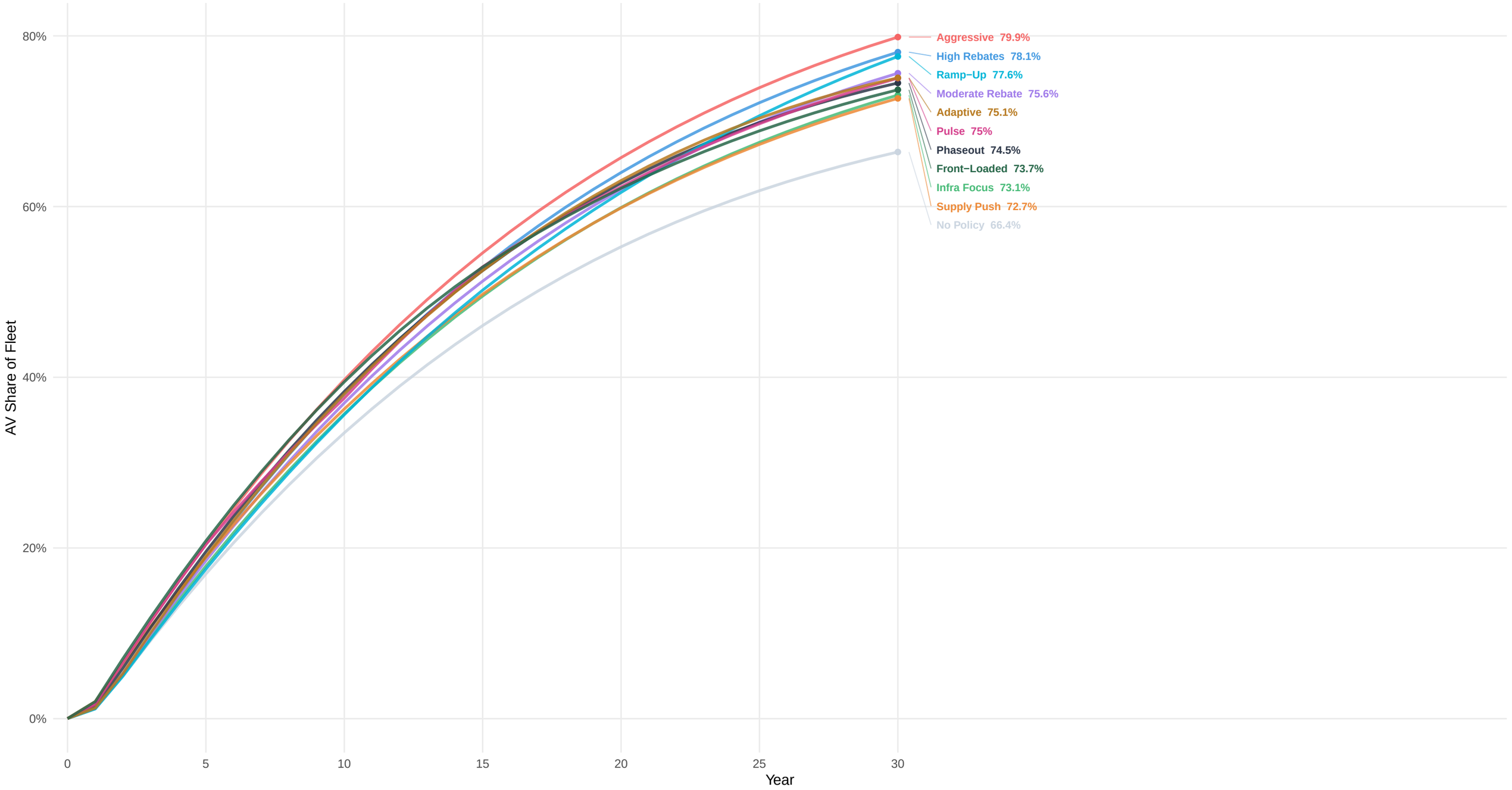
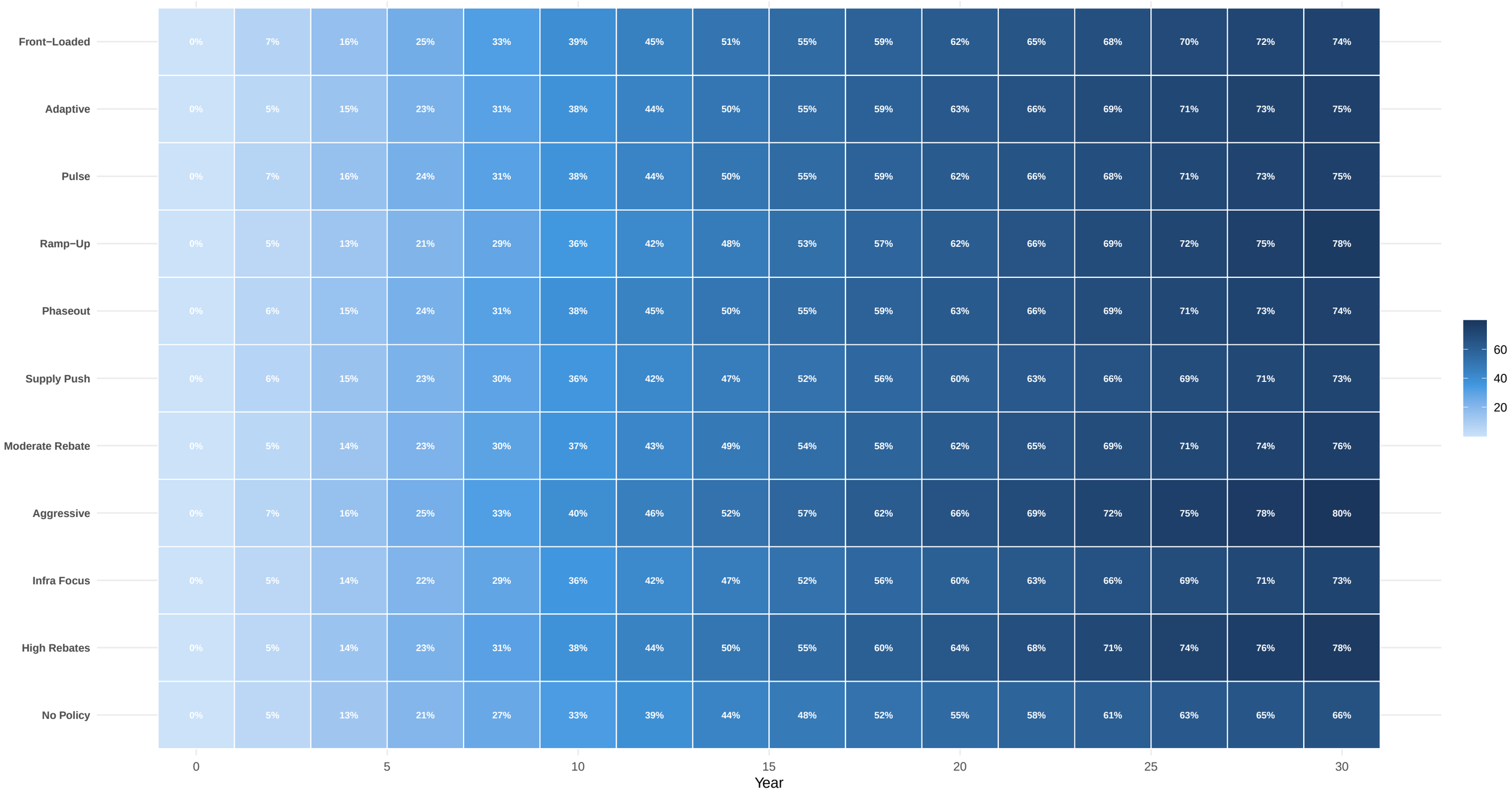
AV Market Share Trajectories

Full 30−year penetration path by policy scenario



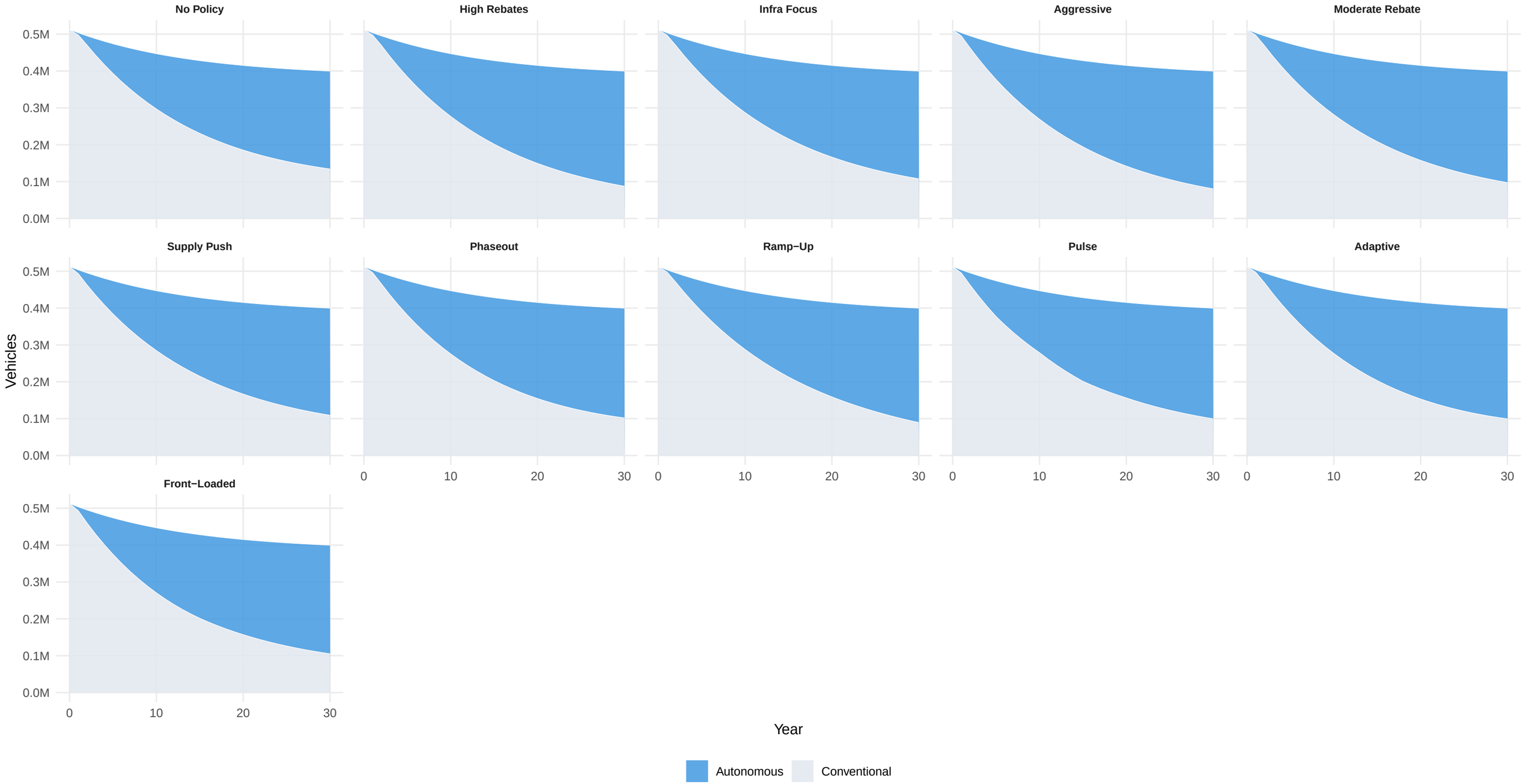
AV Penetration Heatmap

Share of fleet that is autonomous — every 2 years



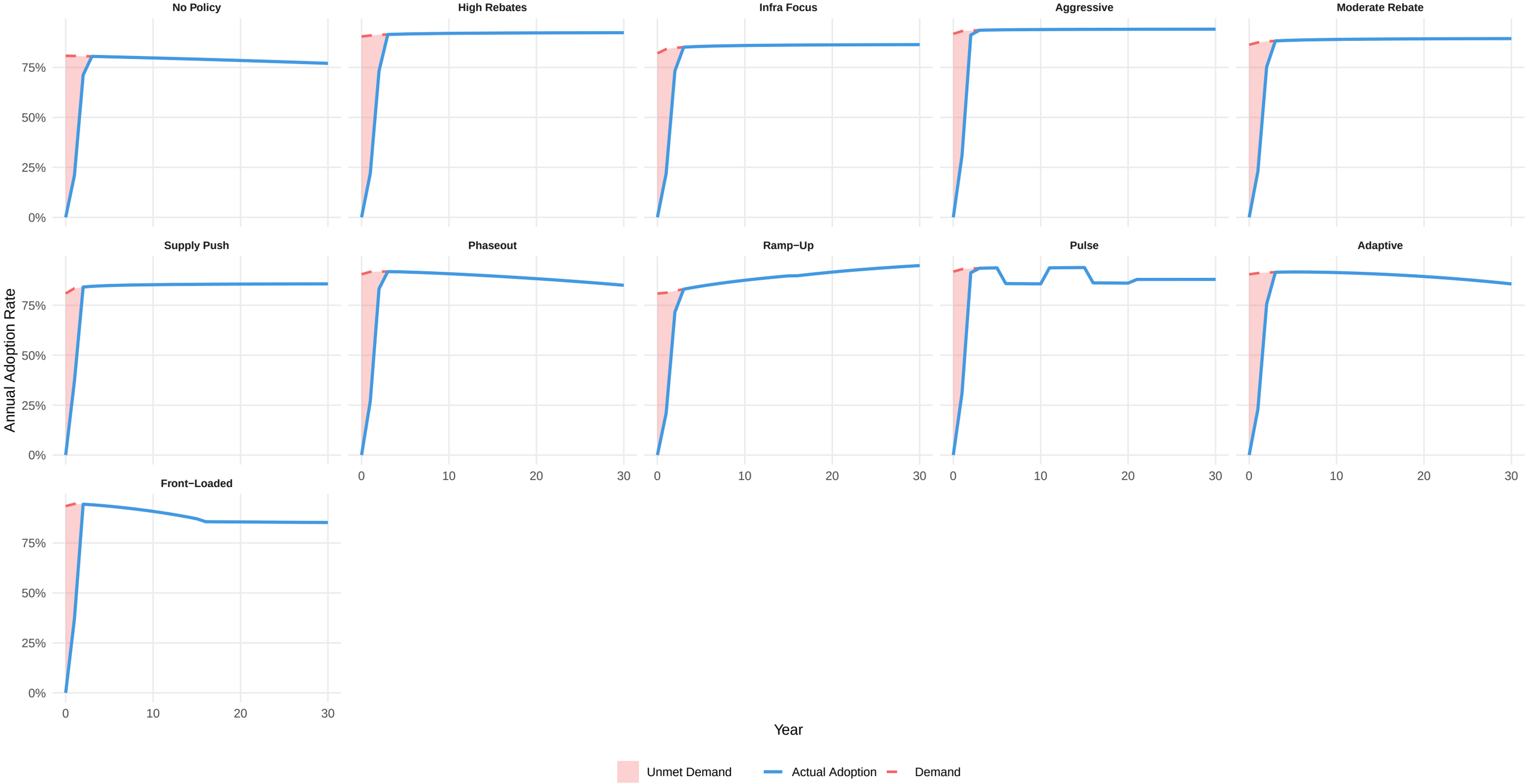
Fleet Composition Over Time

Total vehicle stock split between autonomous and conventional



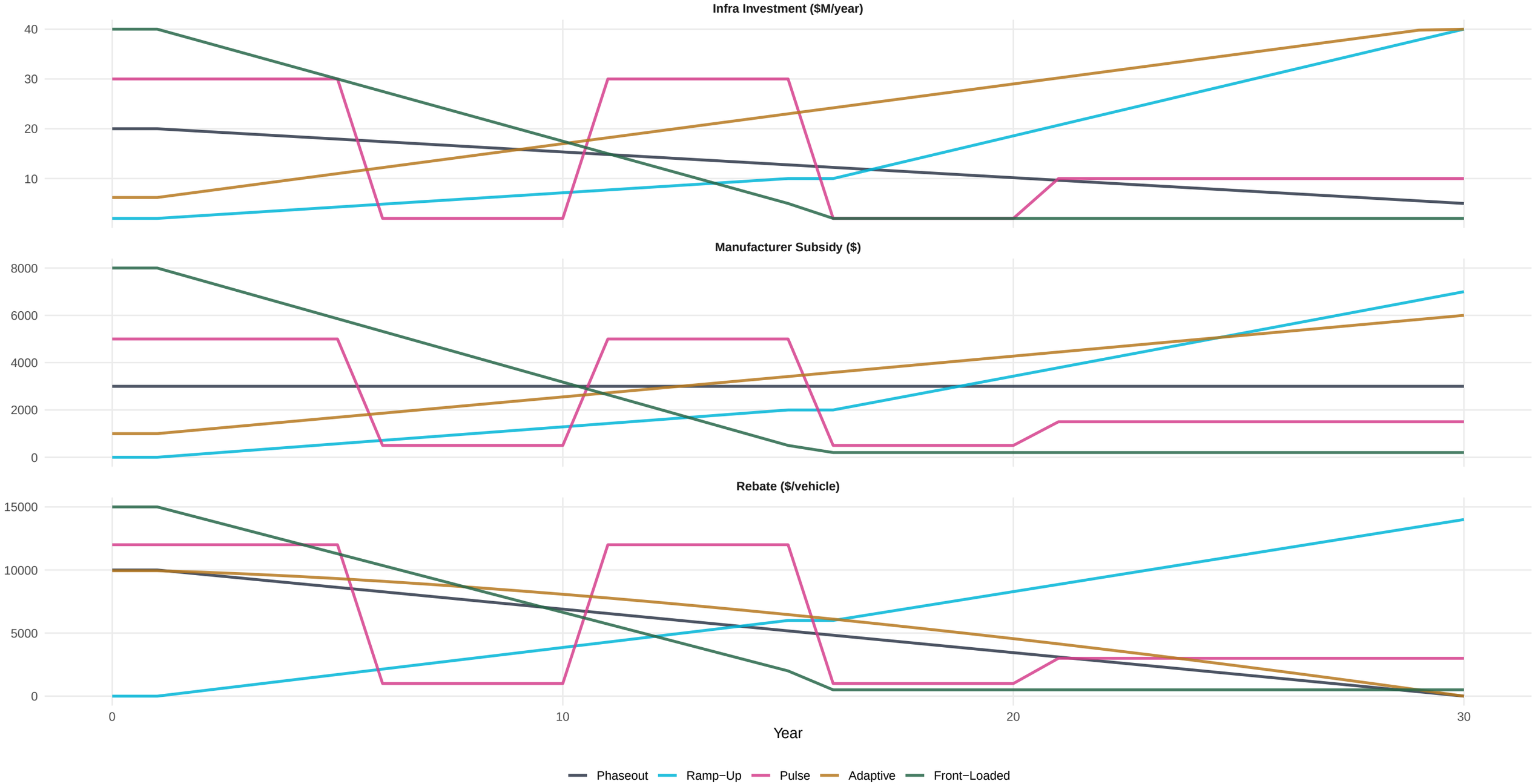
Demand vs. Actual Adoption Rate

Gap between what consumers want and what the supply chain delivers



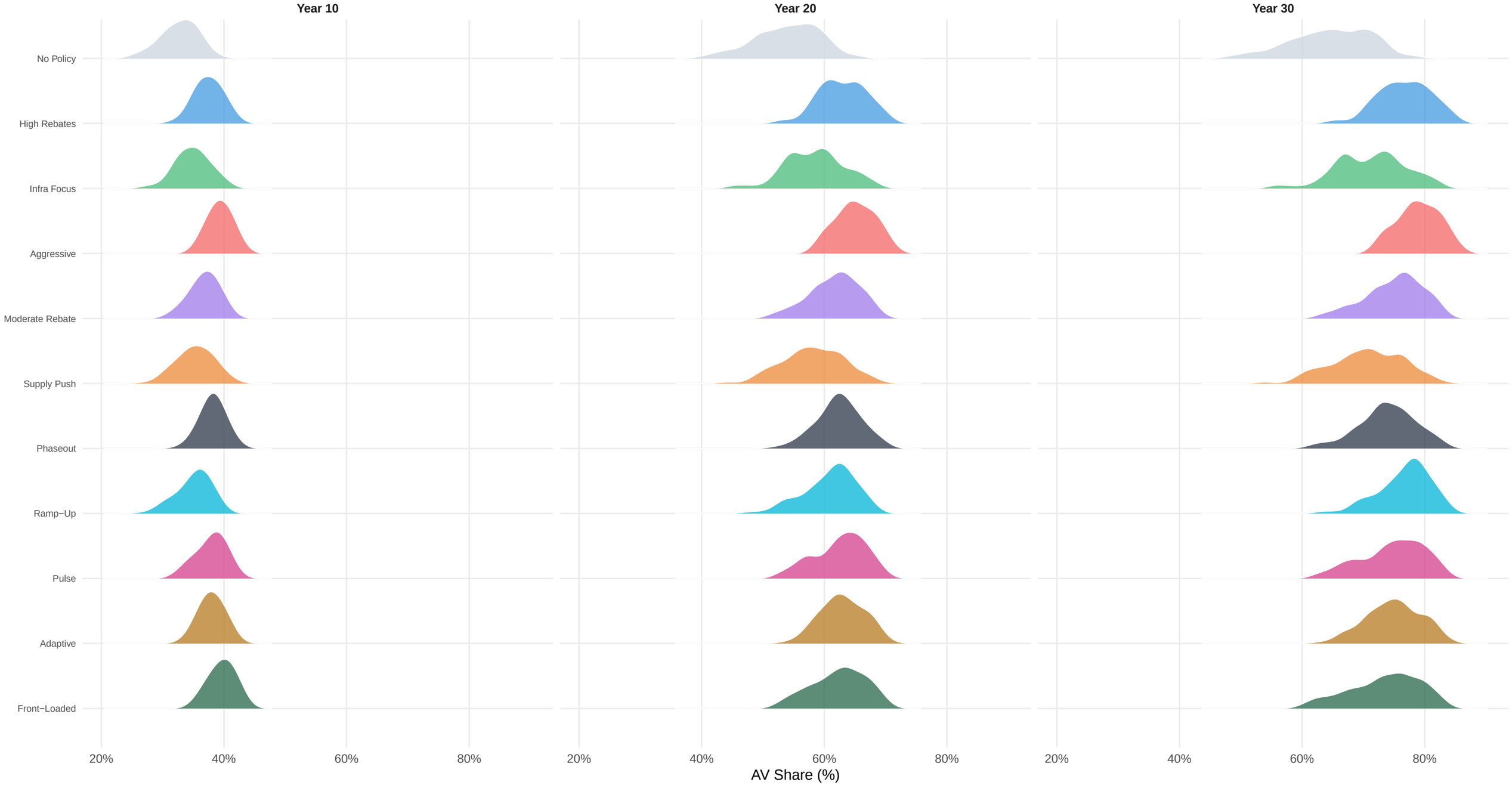
Time−Varying Policy Controls

How each dynamic policy adjusts its levers over the 30−year horizon



Distribution of AV Market Share Outcomes

Density of 100 Monte Carlo simulations at years 10, 20, and 30

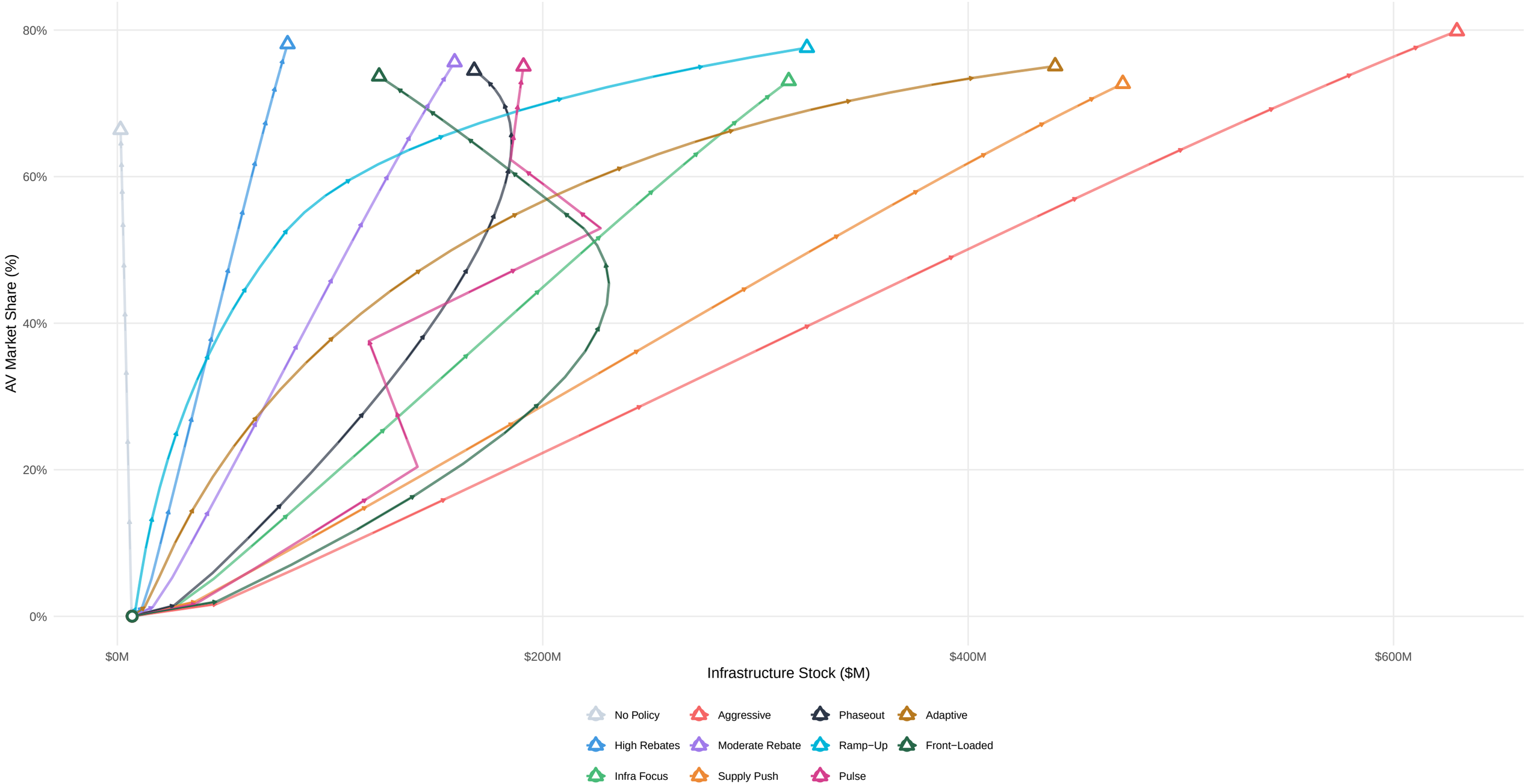


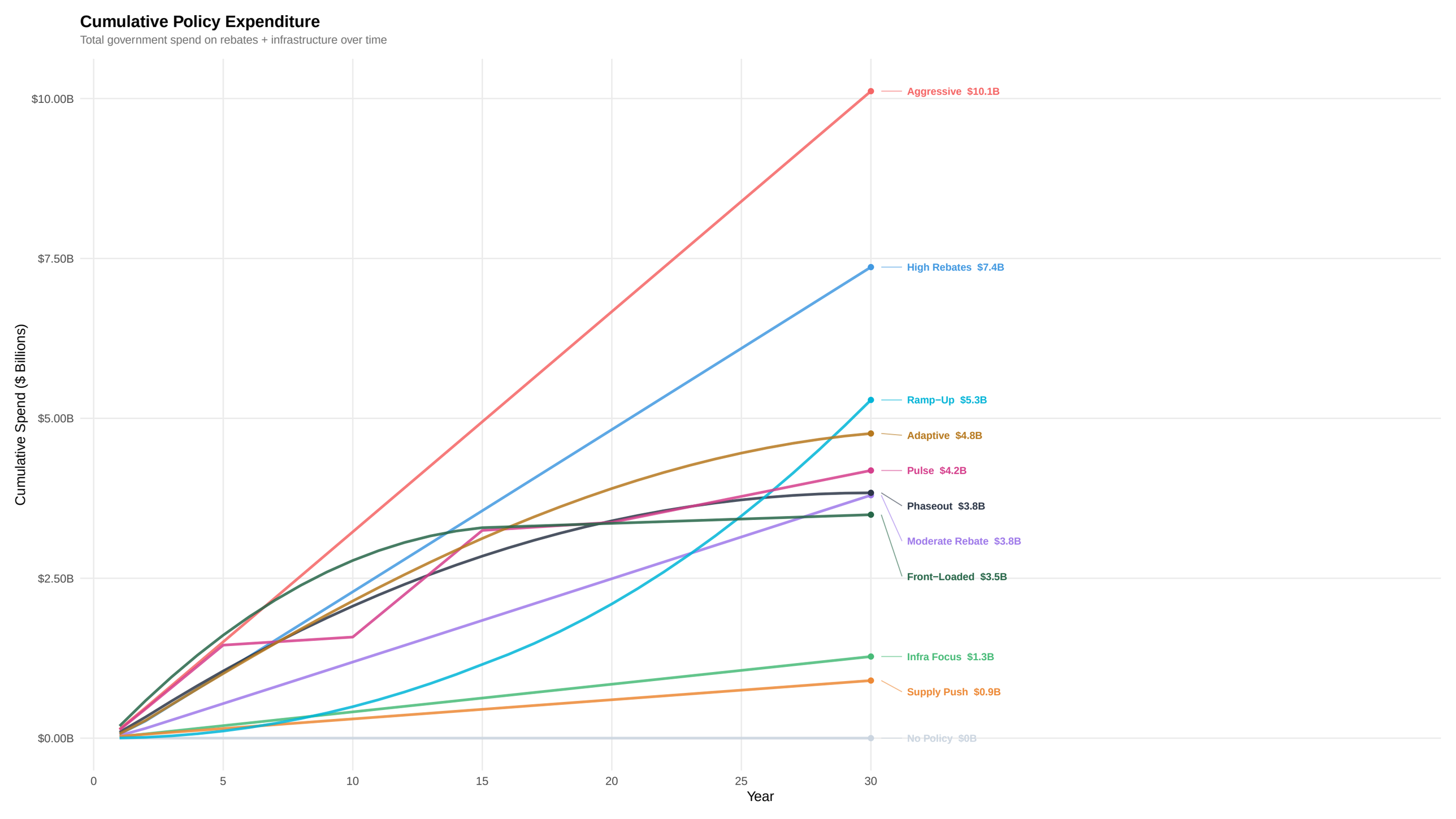
Parameter Sensitivity — Swing Analysis

Change in final AV share when parameter varies ±50% from baseline

Phase Portrait: Infrastructure vs. AV Adoption

Trajectory through state space — circle = start, triangle = year 30




Cumulative Policy Expenditure
Total government spend on rebates + infrastructure over time
$10.00B
$7.50B
$5.00B
$2.50B
$0.00B
Cumulative Spend ($ Billions)
0
5
10
15
20
25
30
Year
Aggressive $10.1B
High Rebates $7.4B
Ramp−Up $5.3B
Adaptive $4.8B
Pulse $4.2B
Phaseout $3.8B
Moderate Rebate $3.8B
Front−Loaded $3.5B
Infra Focus $1.3B
Supply Push $0.9B
No Policy $0B

Cumulative Spend per Autonomous Vehicle

Total policy dollars spent divided by AV fleet size — policy efficiency metric

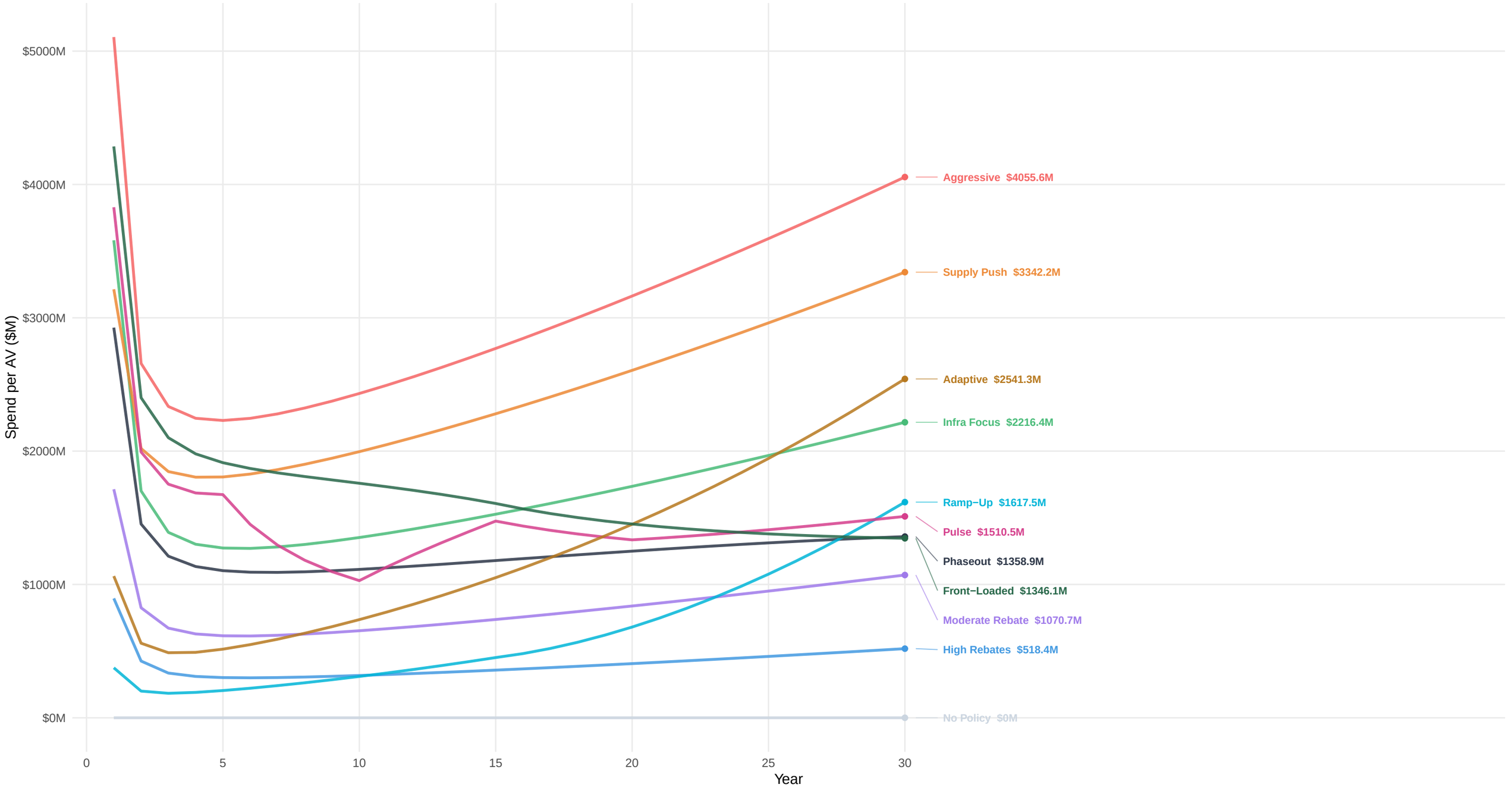


Figure SSM−1: OLS Calibration Fit

Observed vs. fitted log−odds across 53 penetration estimates (4 sources)

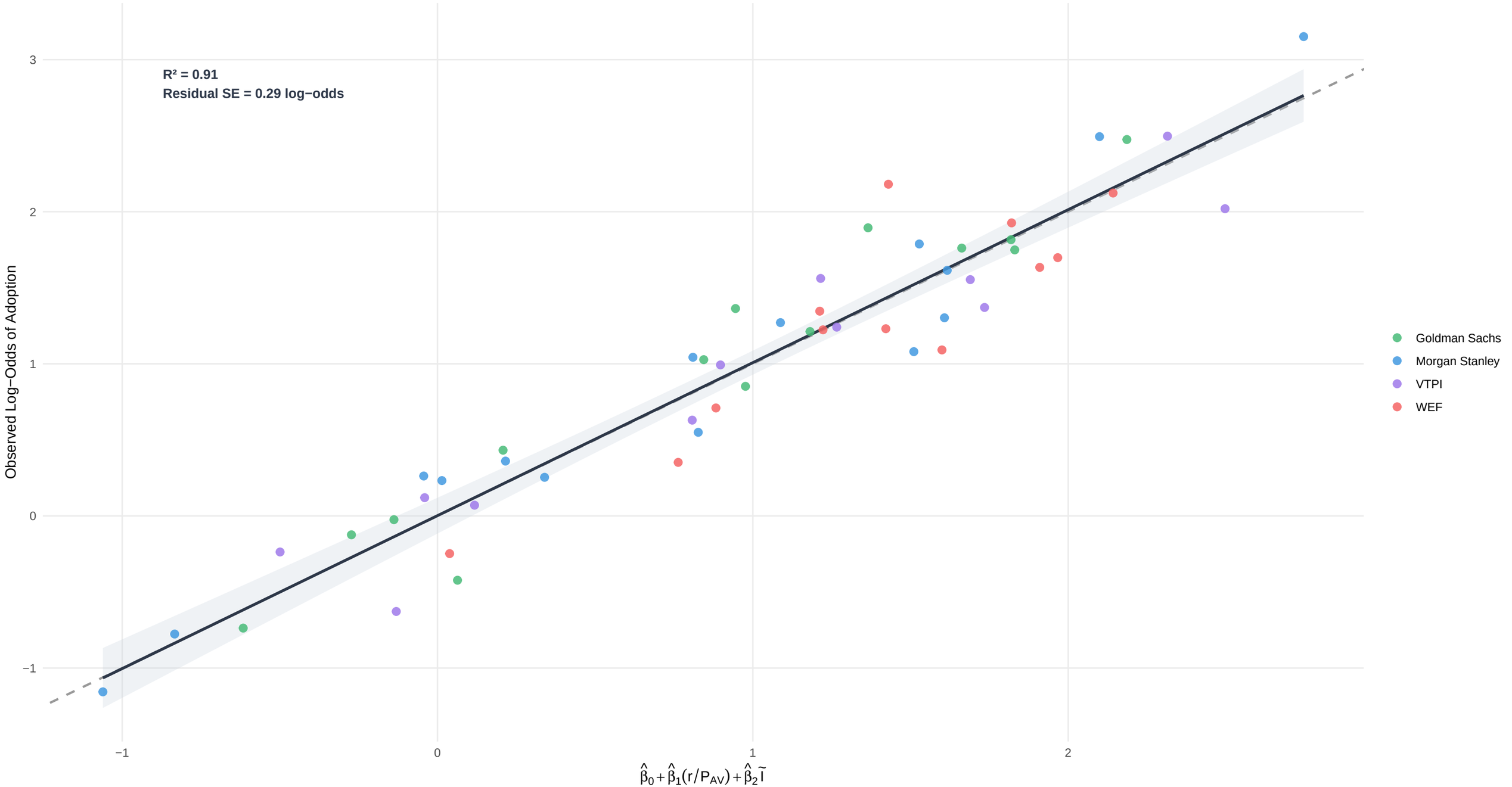


Figure SSM−2: Sensitivity Tornado Chart

Year−30 AV share range when each parameter varies ±20%; baseline marked

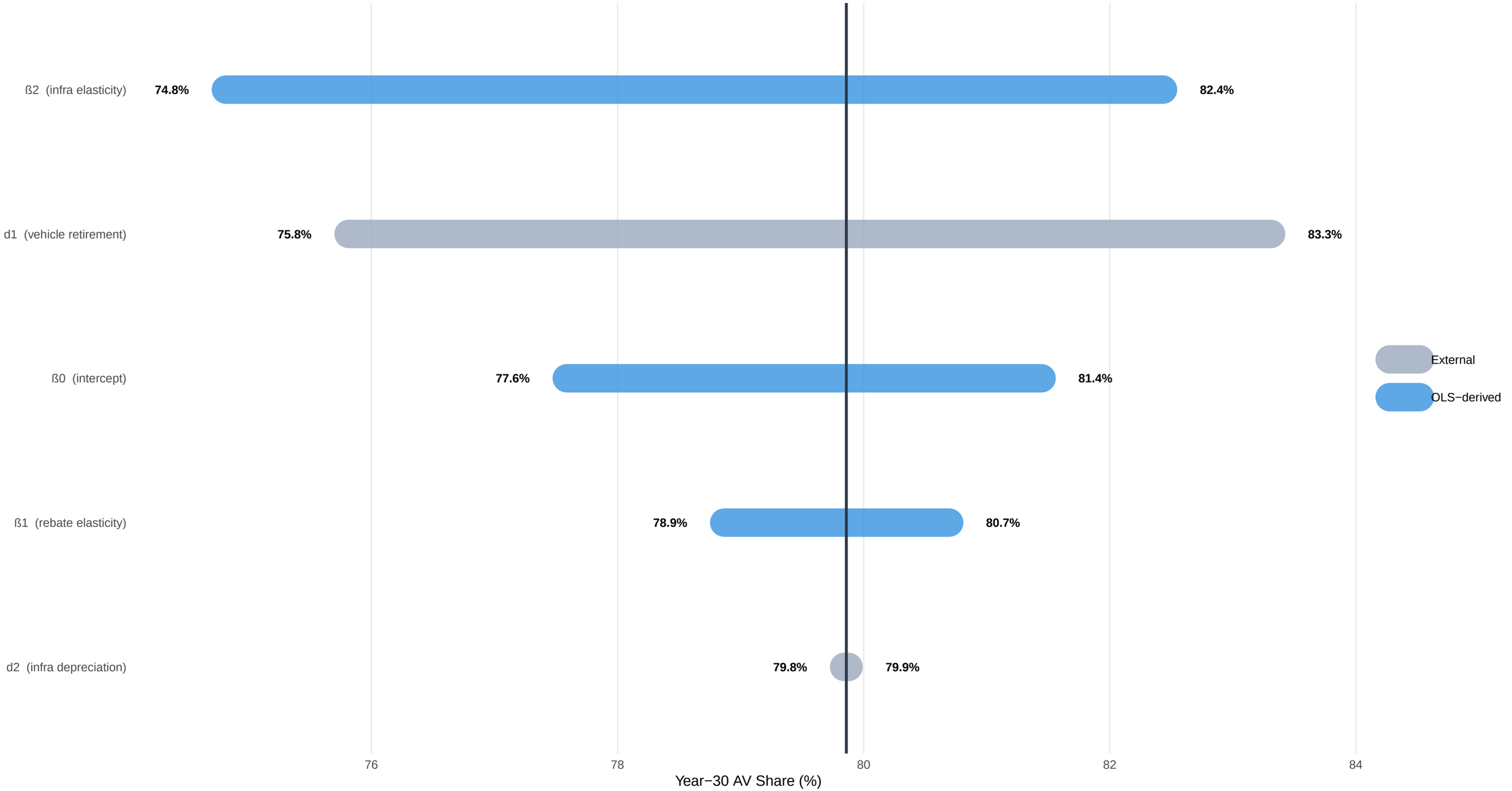


Figure SSM−3: AV Fleet Adoption Trajectories with Monte Carlo Uncertainty Bands

Solid lines = deterministic scenario; shaded = 10th–90th percentile of 100 MC runs

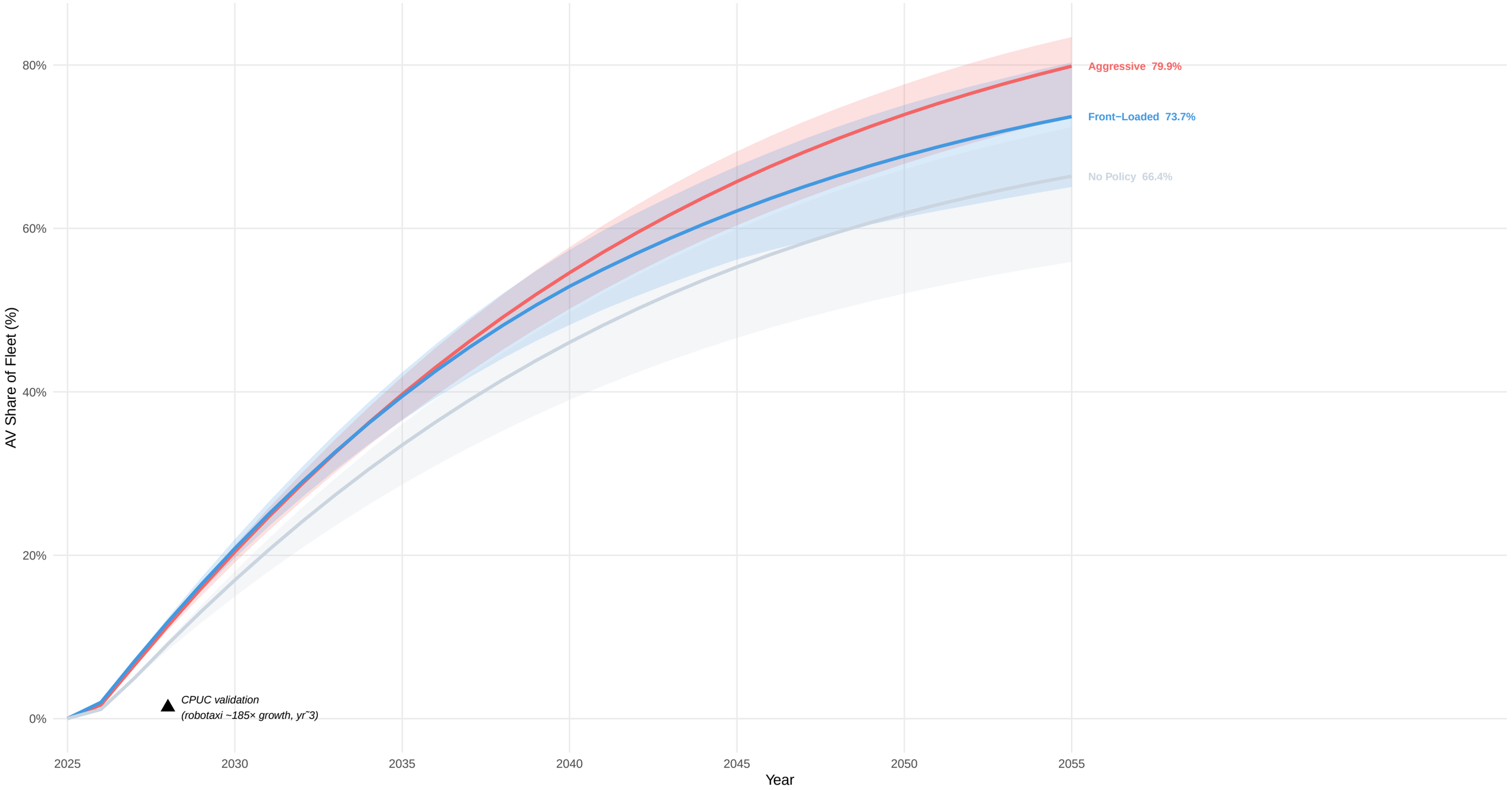


Figure SSM−4: Logistic Adoption Surface

Predicted adoption fraction across policy levers; * = scenario operating points at Year 15