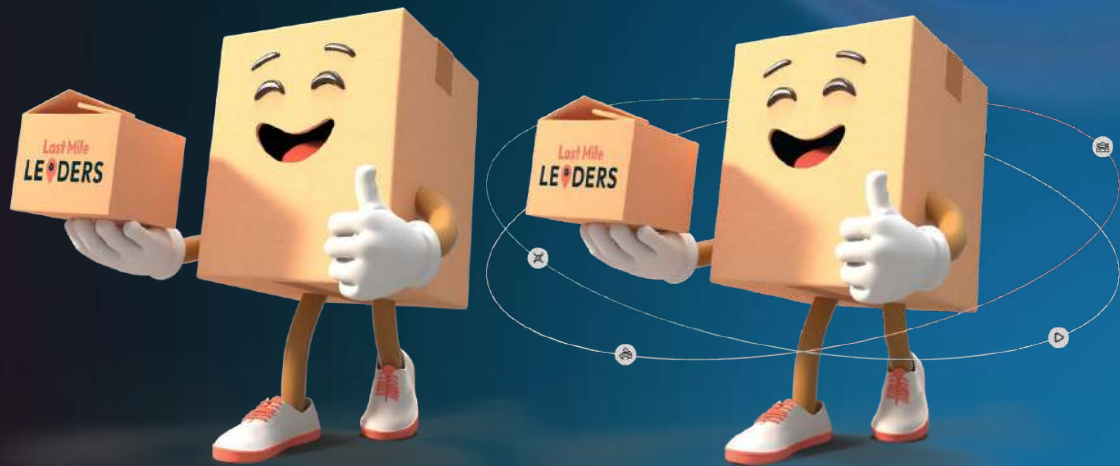
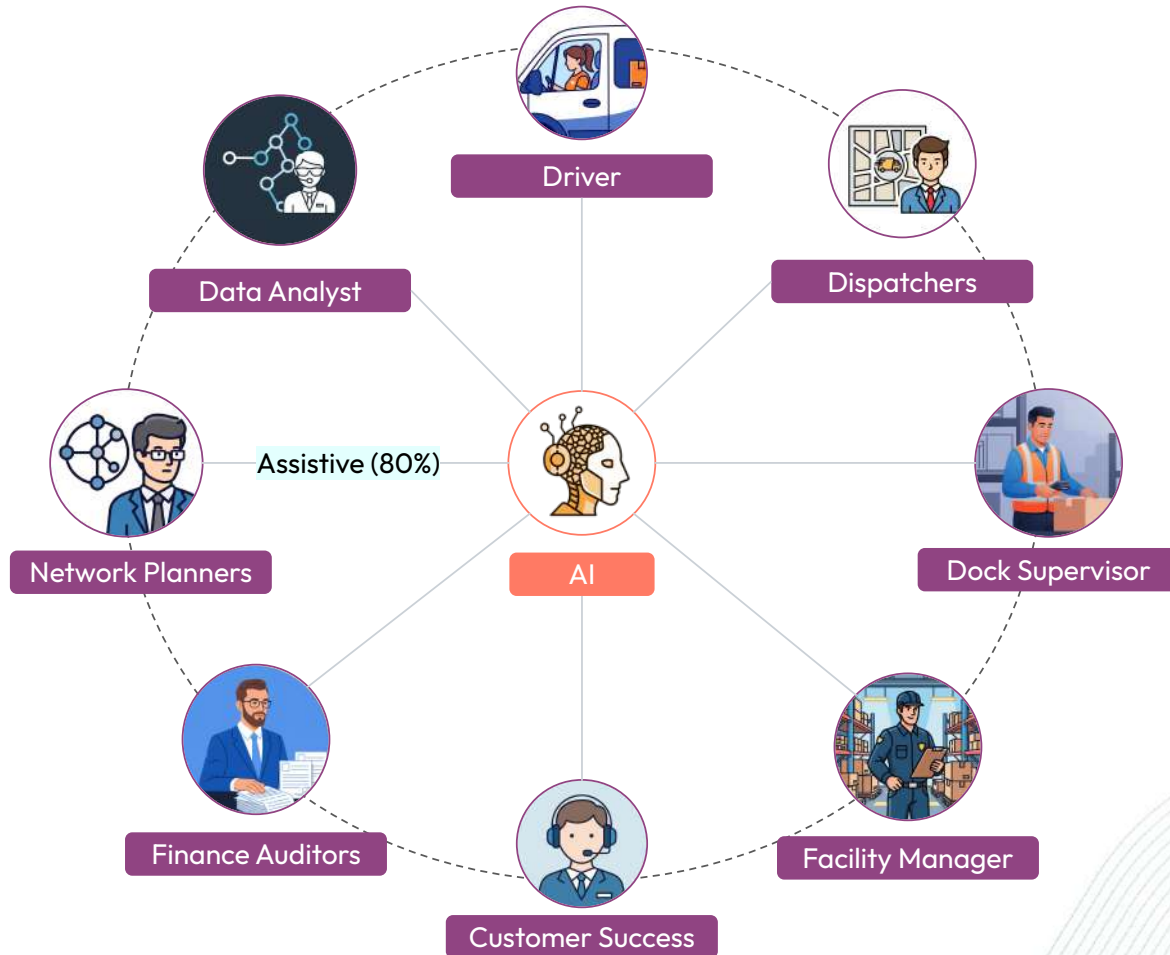


AI Digital Twins for Last Mile



Presented by: Stephane Gagne

AI Roadmap for Last Mile



How do I right size my fleet?

How do I plan for home deliveries in a new city?

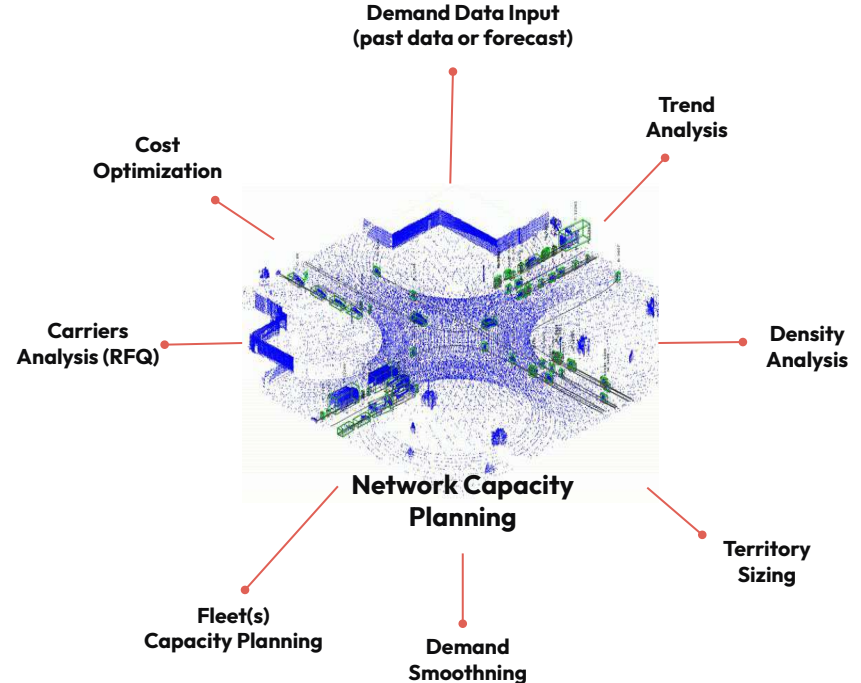
How do I price, if a new customer will give me 2x volumes?

How do I plan for a projected 25% growth?

How do I reduce my carrier costs?

From Demand to Network Capacity Planning

Territory, Fleet Capacity & Cost Planning for Final Mile



Introducing FarEye PLAN

A Final Mile Digital Twin for **Territory Planning**, **Density Analysis**, and **Capacity Forecasting**



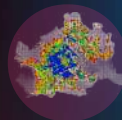
Hub Network Optimization

Strategic hub placement and territory design for optimal coverage and efficiency



Territory Planning

Dynamic boundaries that adapt to changing delivery patterns and business needs



Density Smoothing

Balance workloads across days and territories to maximize vehicle utilization and driver productivity

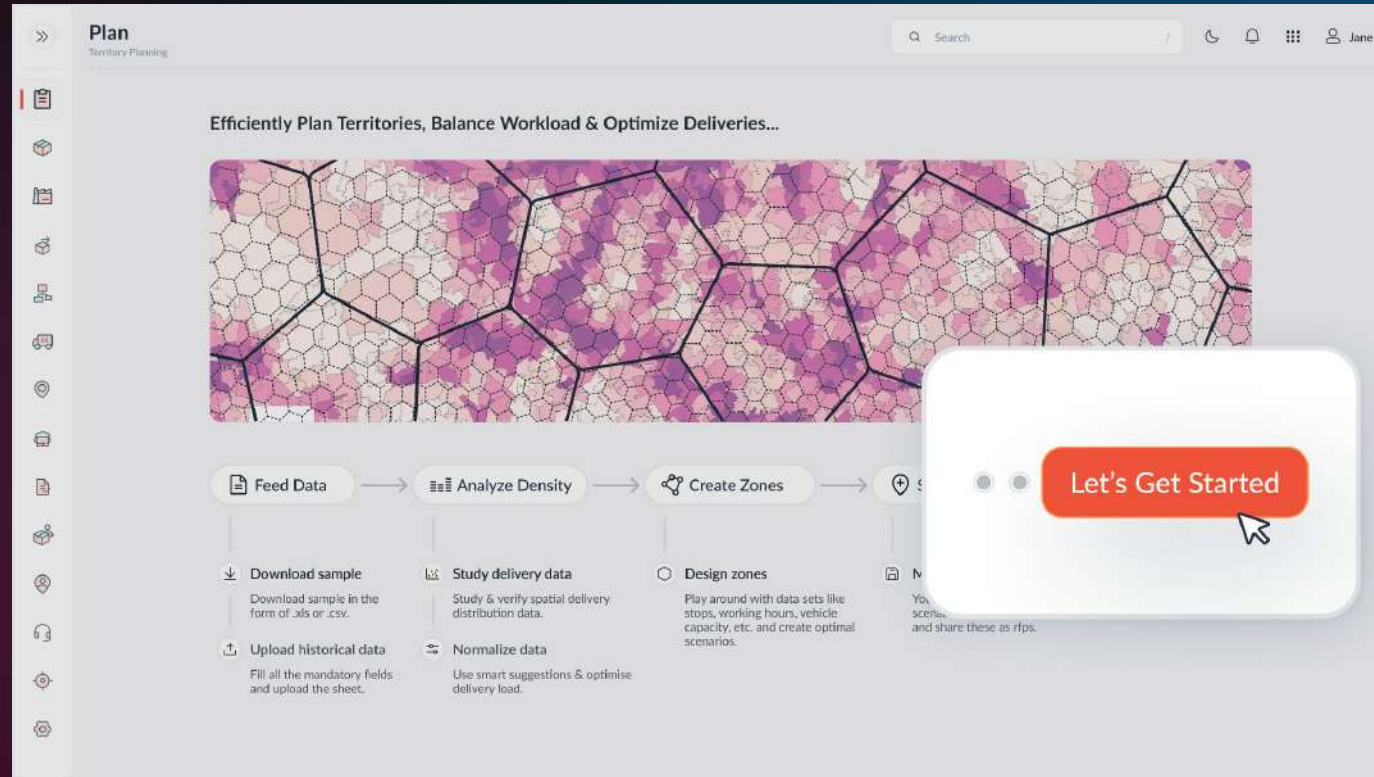


Capacity Forecasting

Predict future network capacity needs and resource requirements with AI-powered accuracy

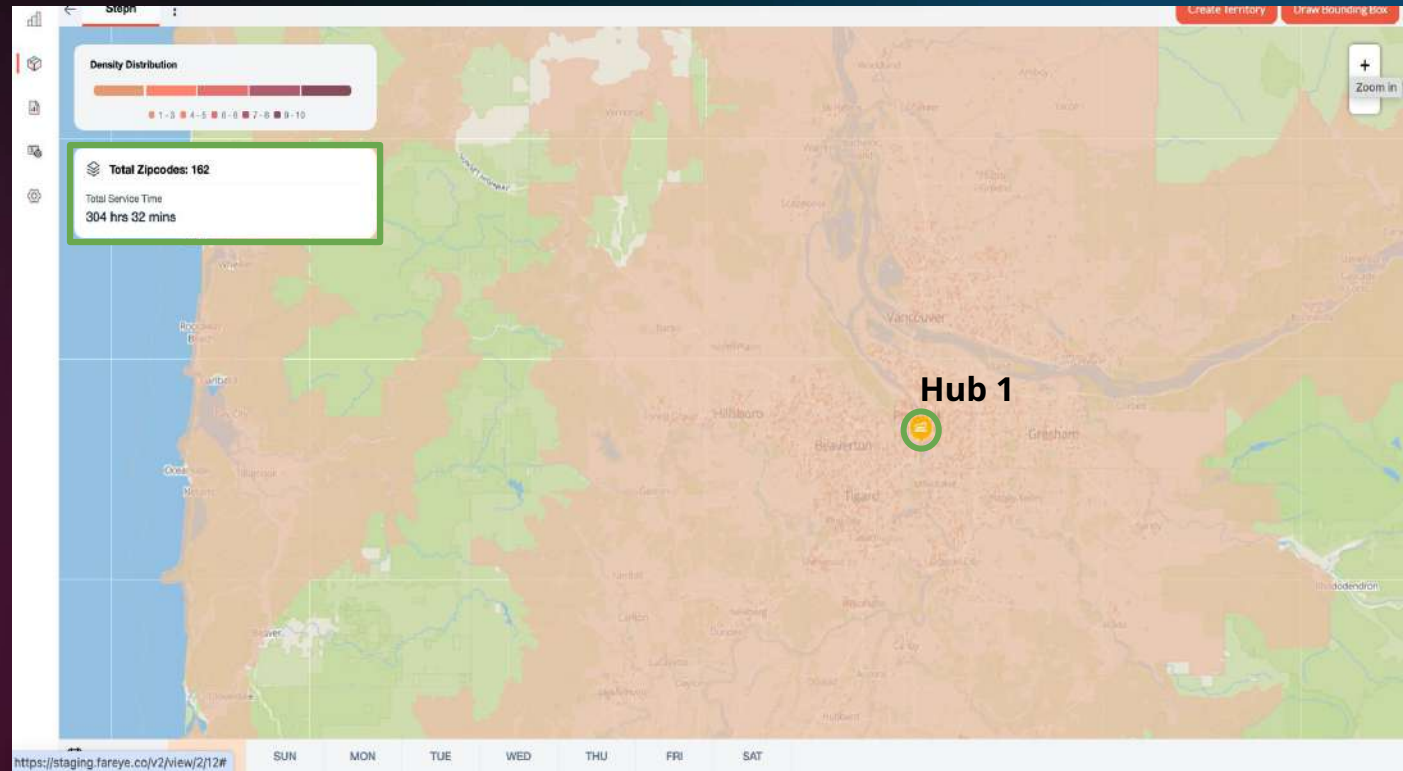
How do I plan for home deliveries in a new city?

Input
Forecasted
Volumes



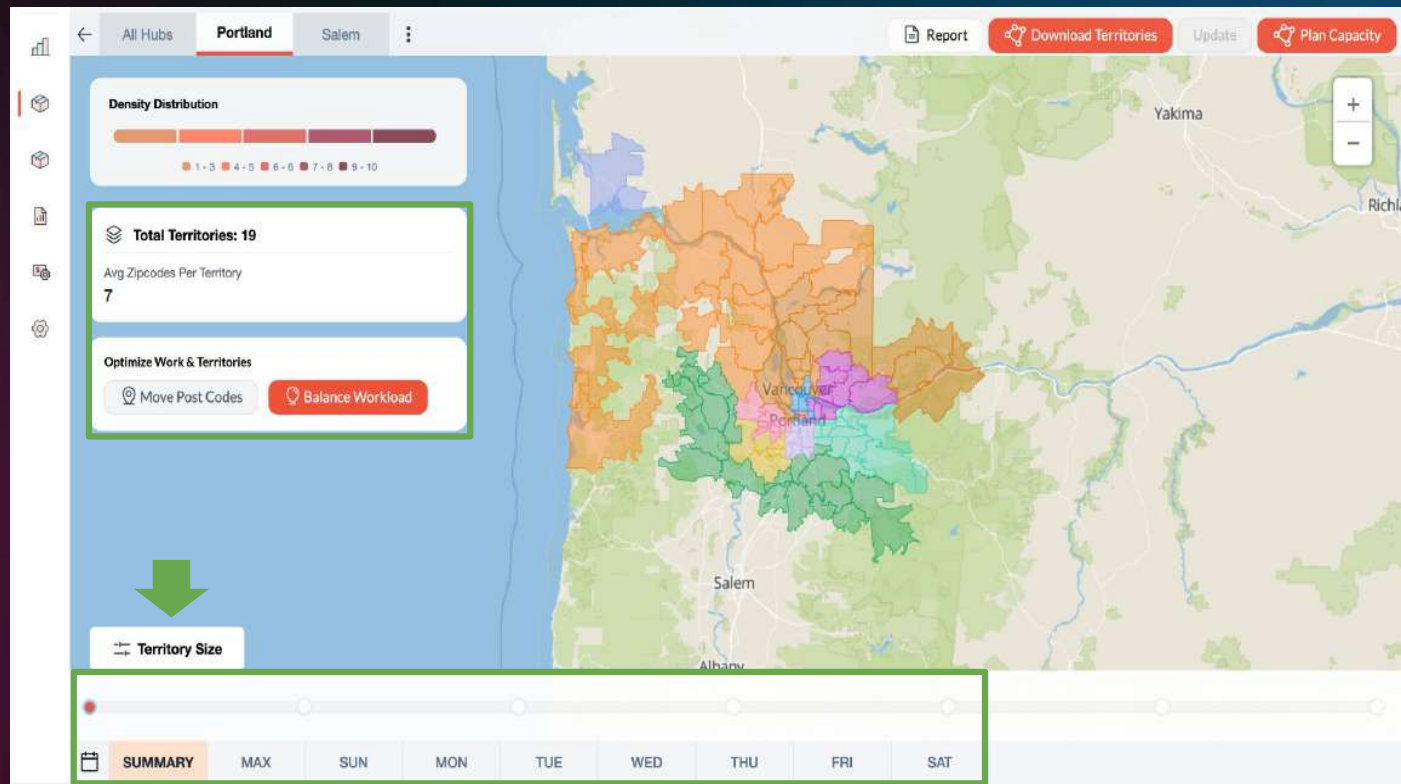
How do I right size my fleet?

Density Analysis



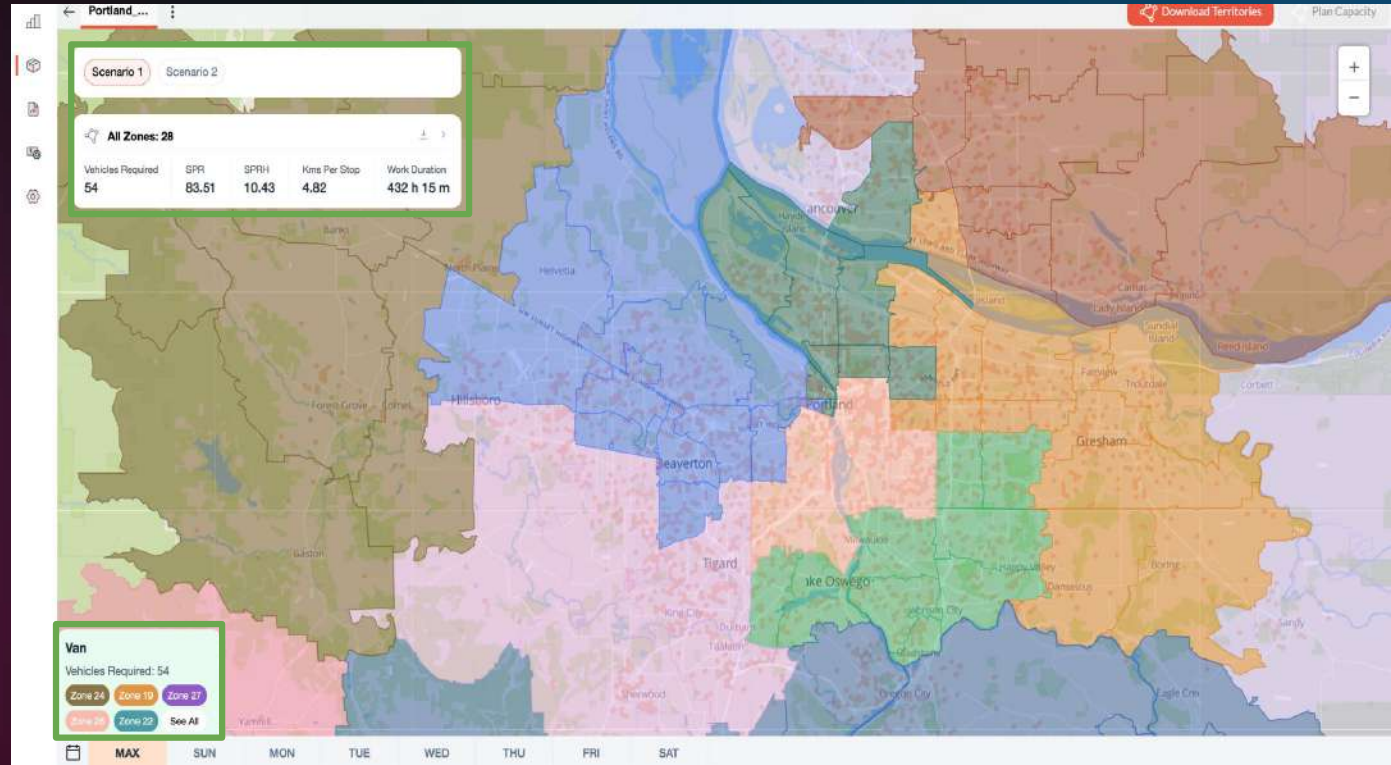
How do I right size my fleet?

Get
Territory
Suggestion



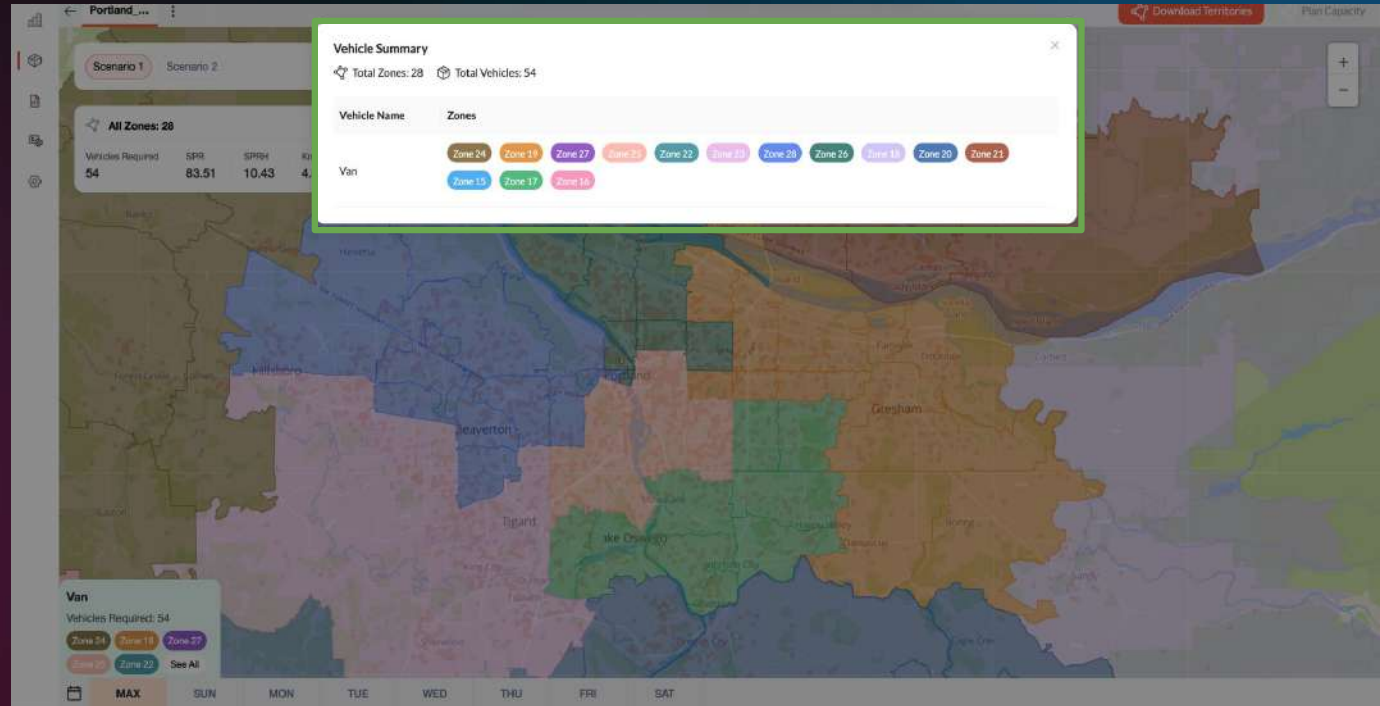
How do I right size my fleet?

Get Vehicle
Needs



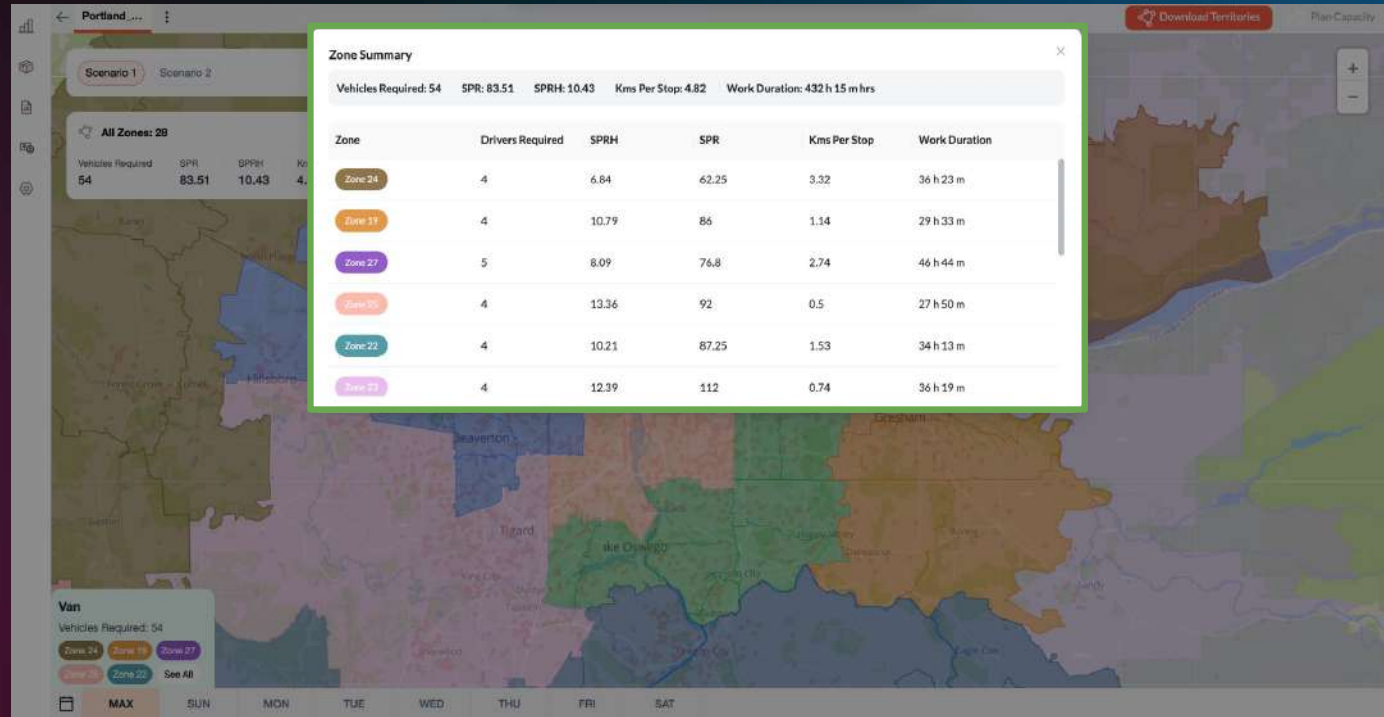
How do I right size my fleet?

Get Vehicle
Needs



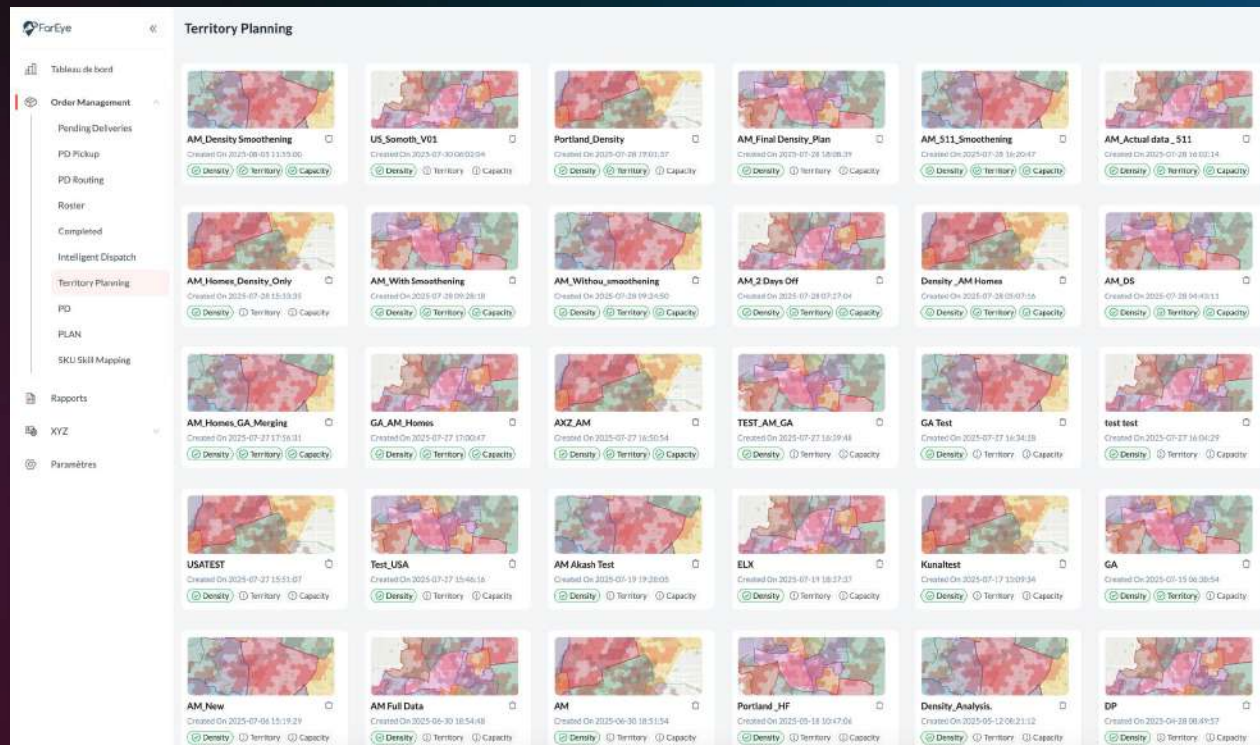
How do I right size my fleet?

Get Vehicle
Needs



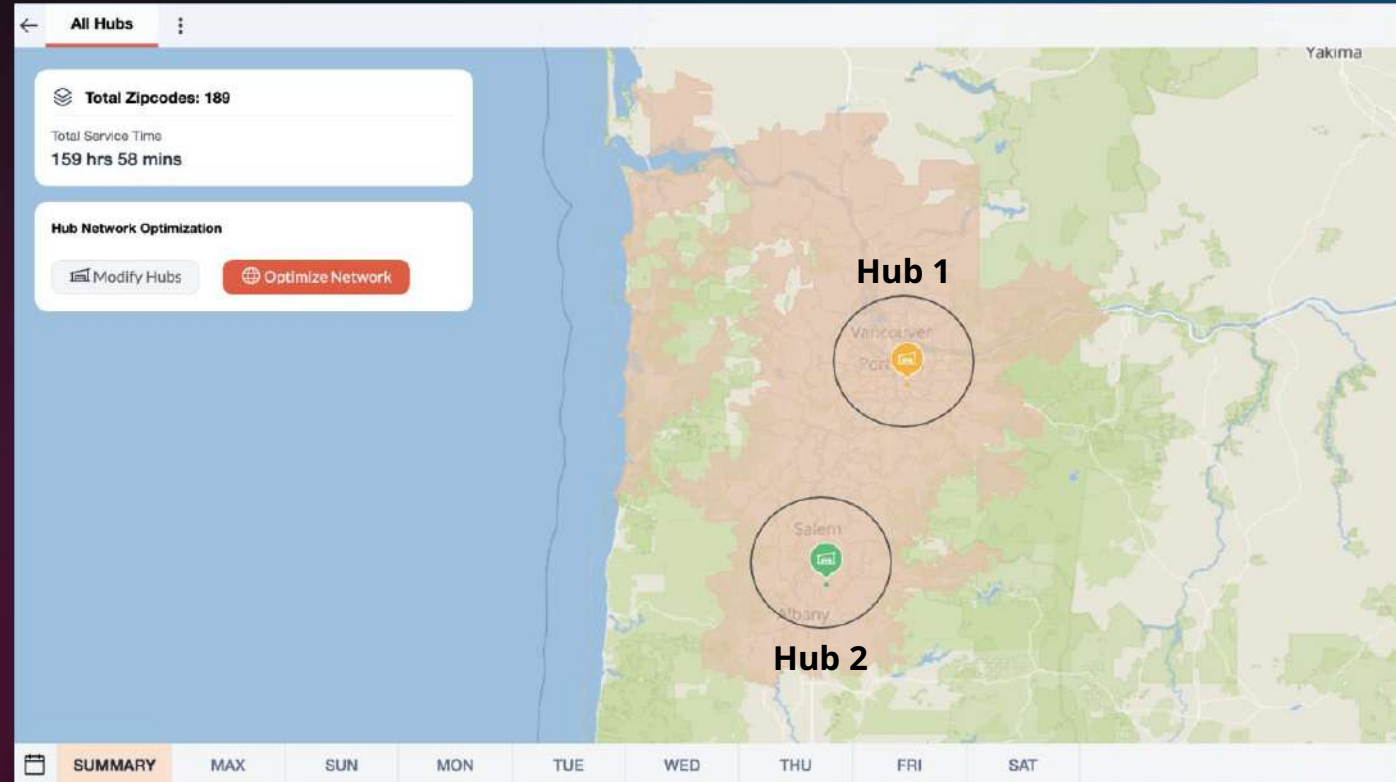
How do I right size my fleet?

Endless Scenario Analysis



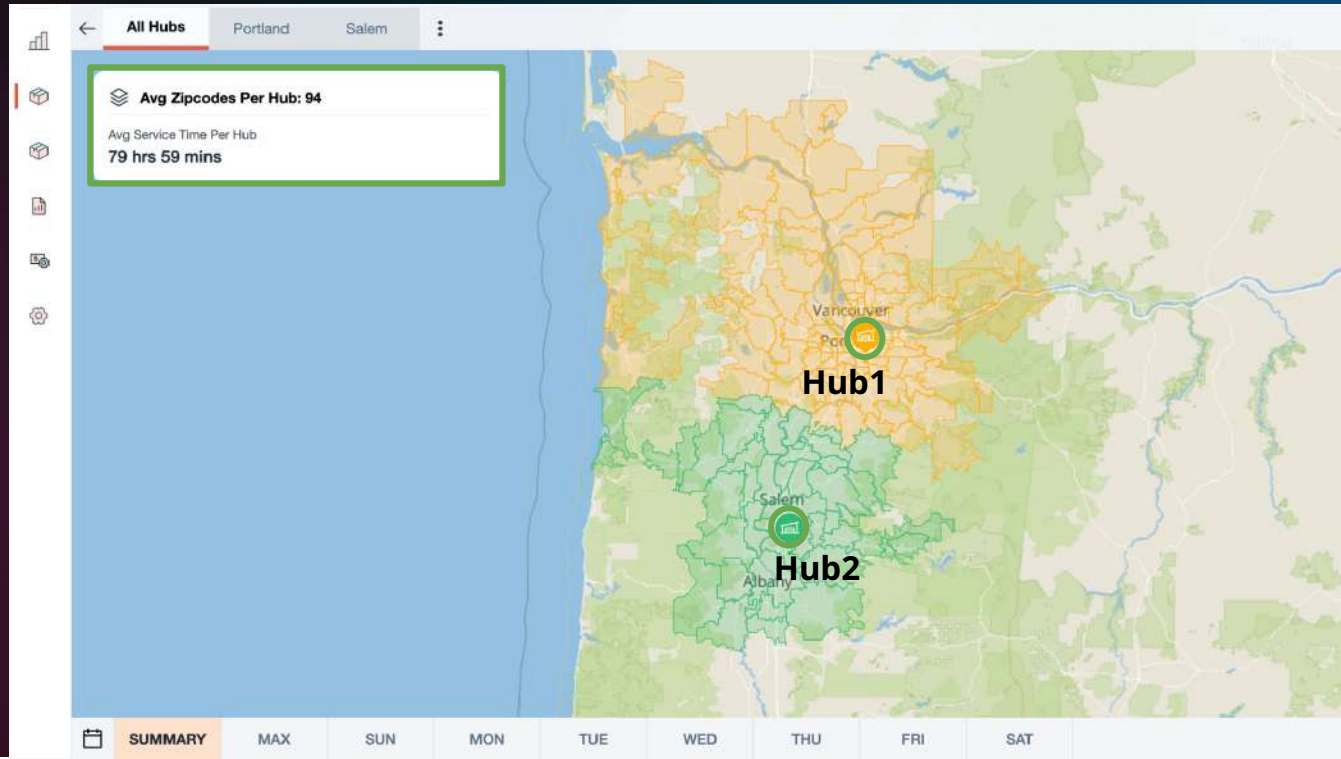
How do I identify optimal hub locations?

Input 2
Options



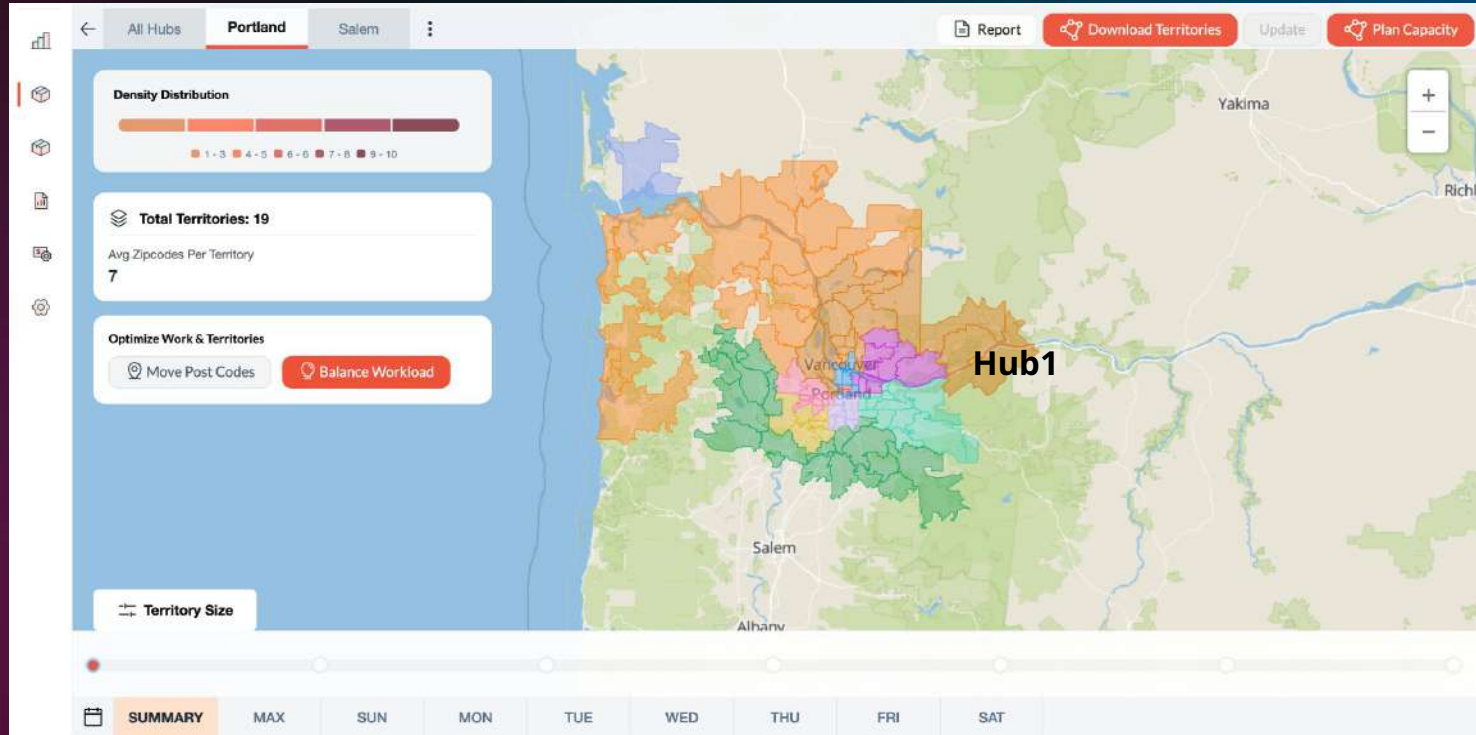
How do I identify optimal hub locations?

Get The
Hub
Distribution



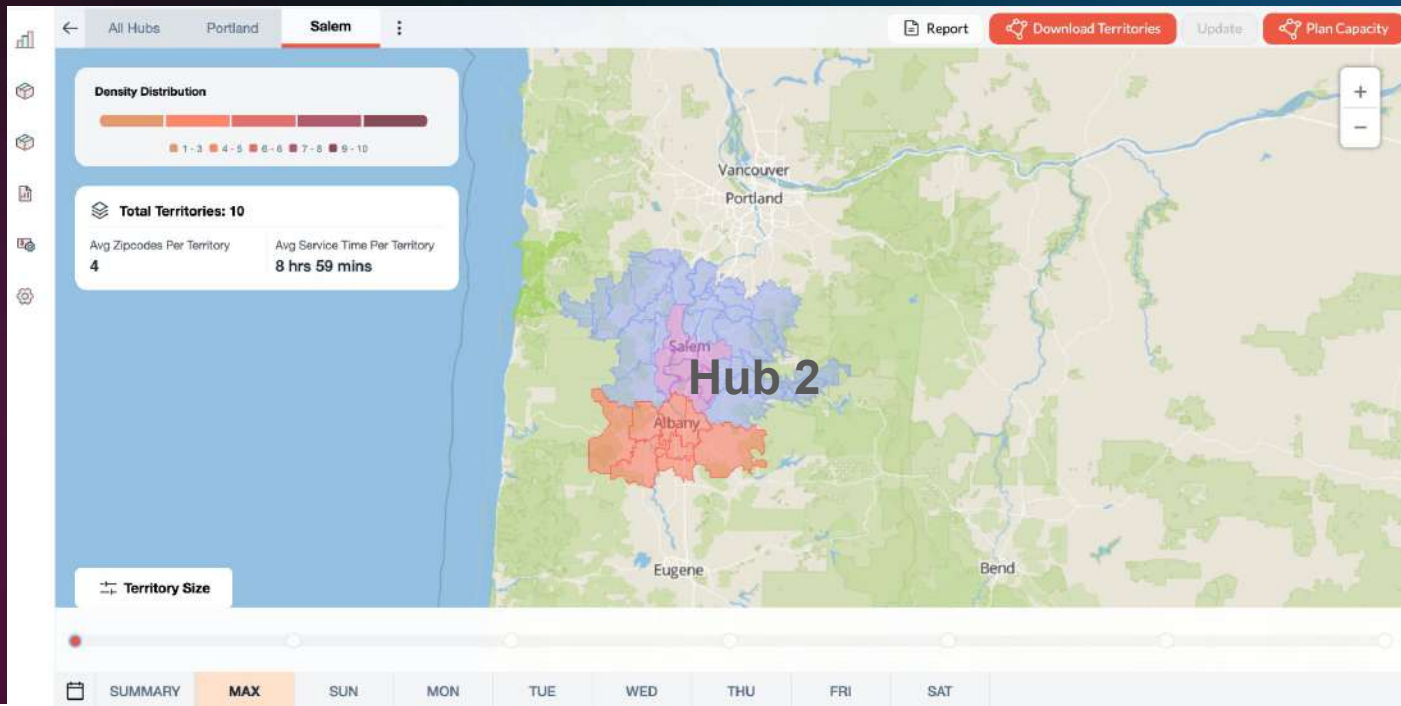
How do I identify which postal code to deliver on which day of week?

Density Smoothing



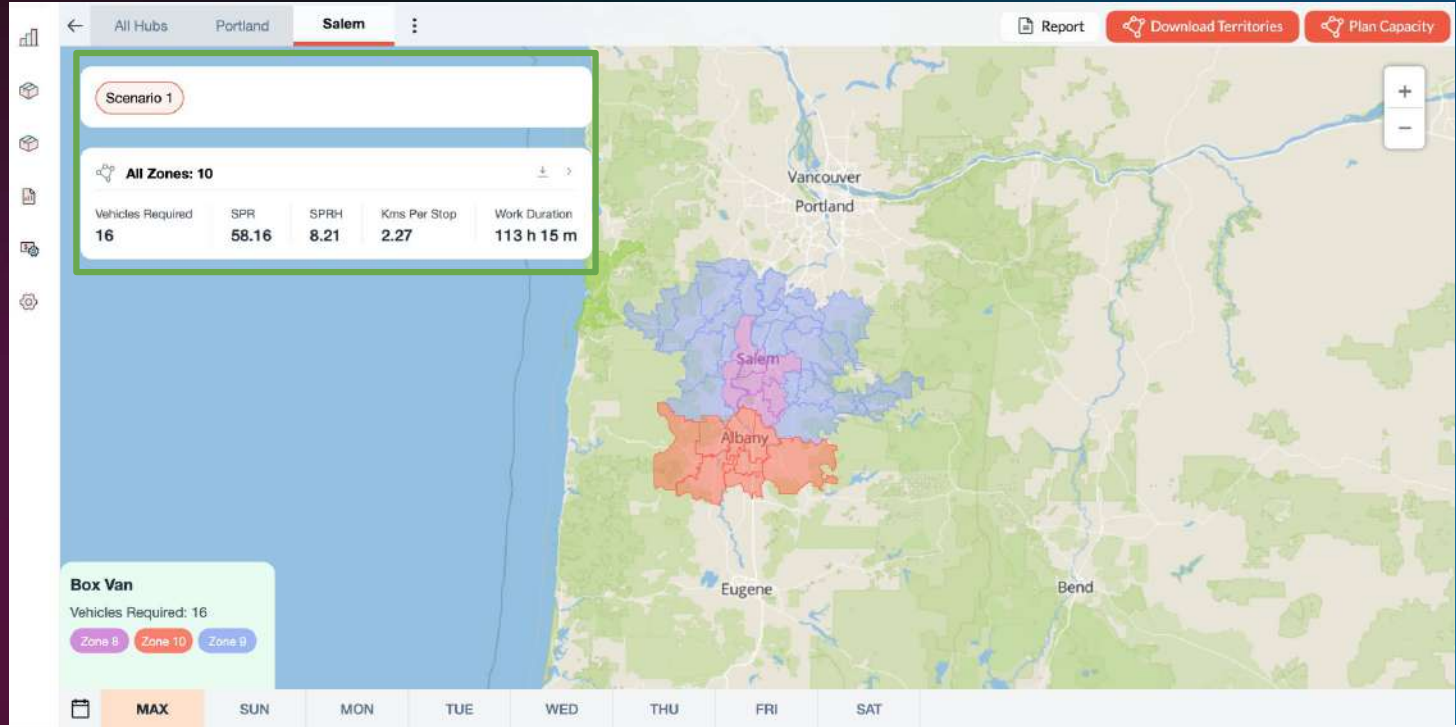
How do I identify which postal code to deliver on which day of week?

Density Smoothing

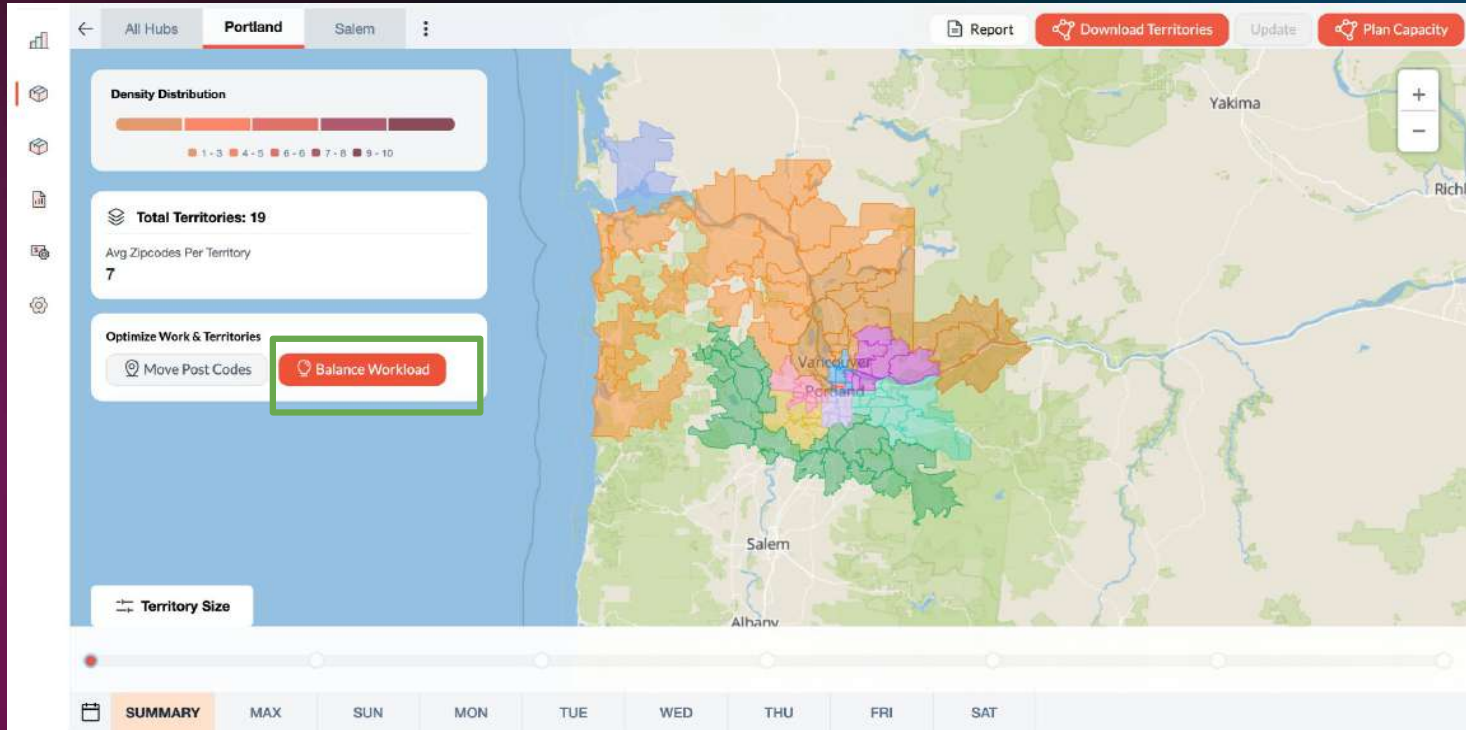


How do I identify which postal code to deliver on which day of week?

Density
Smoothing

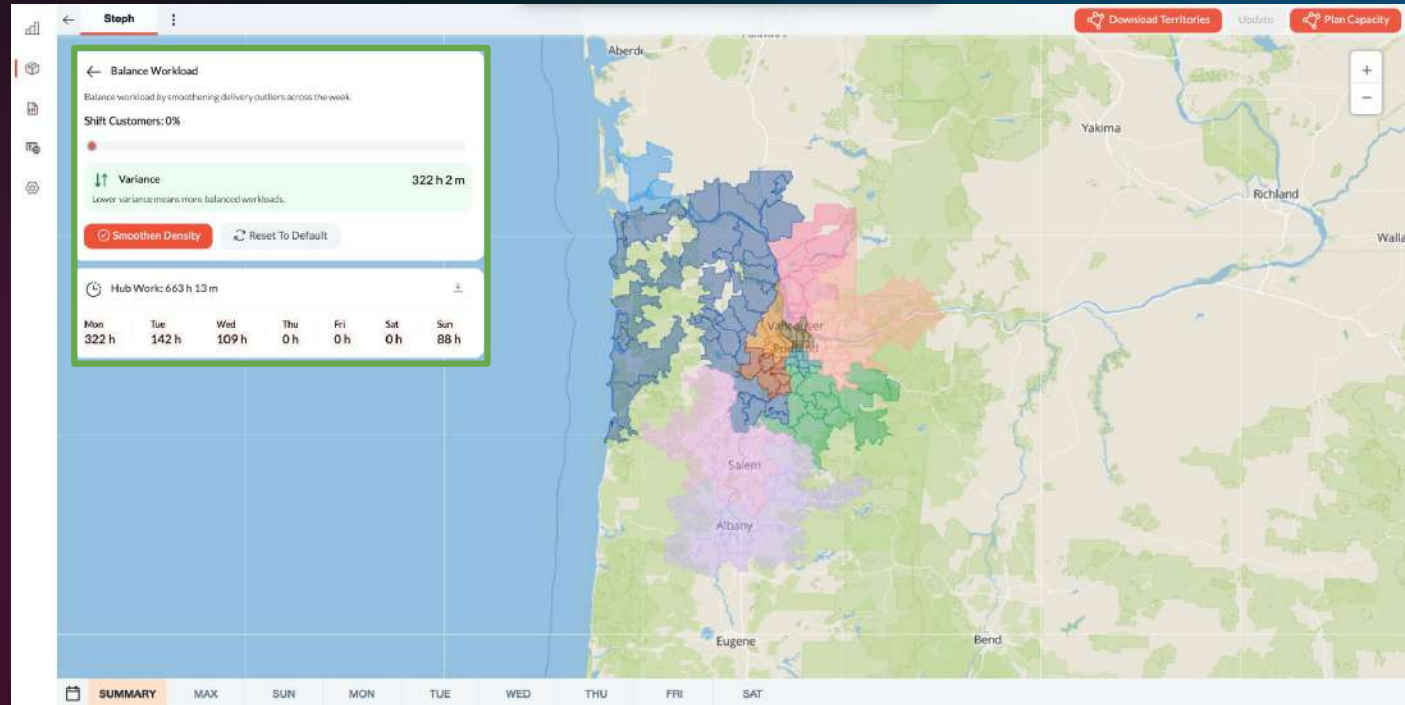


How do I identify which postal code to deliver on which day of week?



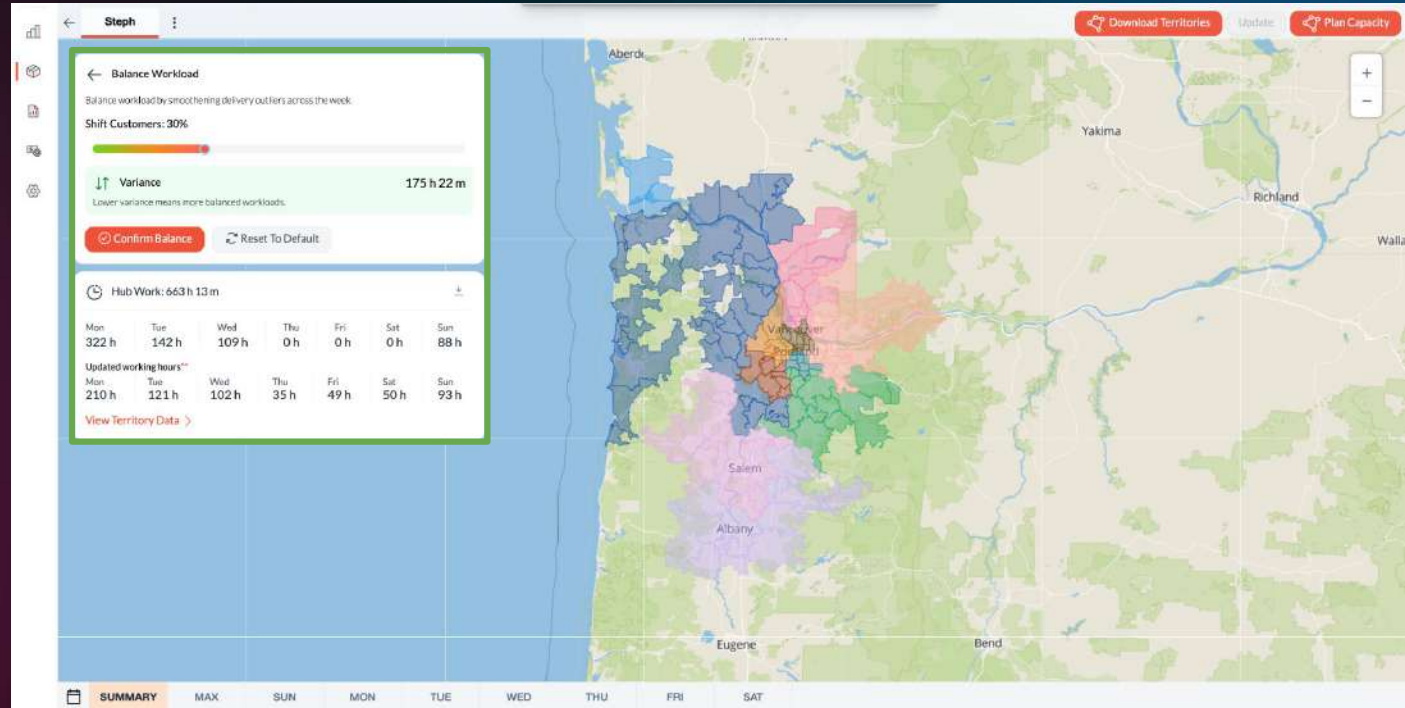
How do I identify which postal code to deliver on which day of week?

Analyse the
Work
Distribution



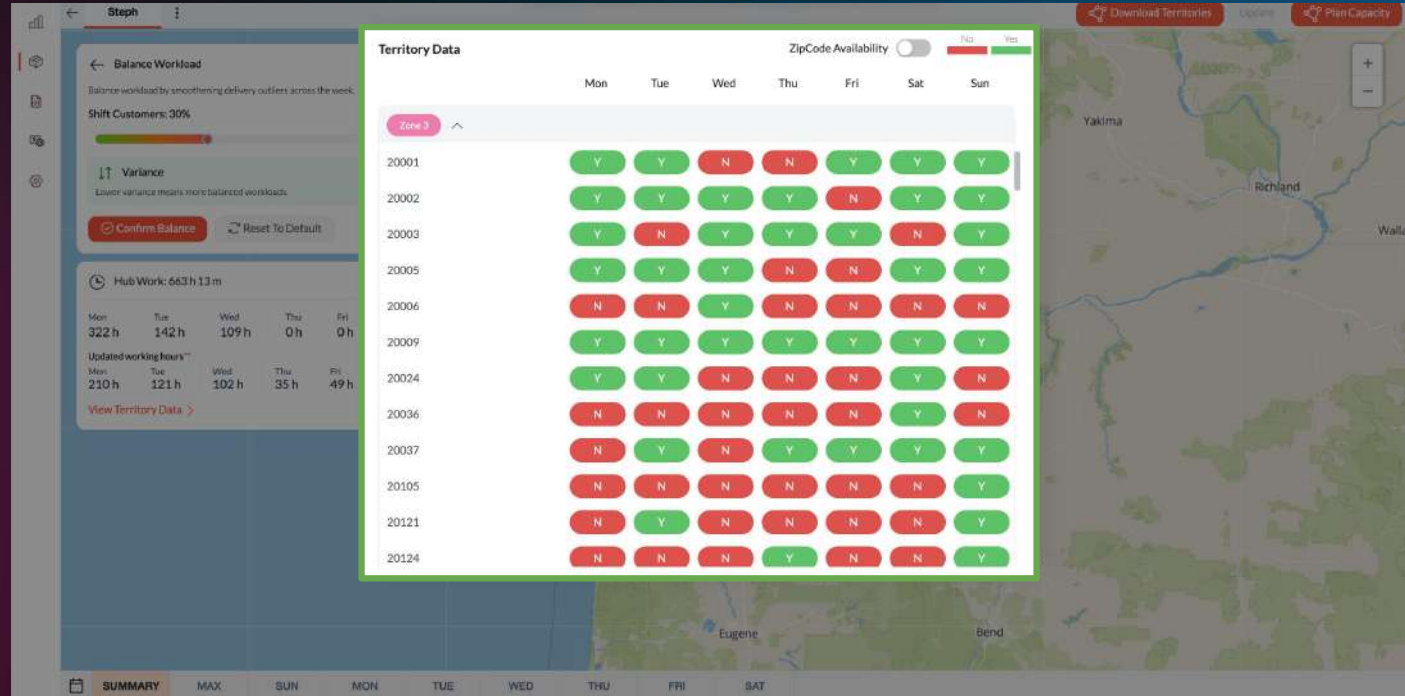
How do I identify which postal code to deliver on which day of week?

Analyse the
Work
Distribution



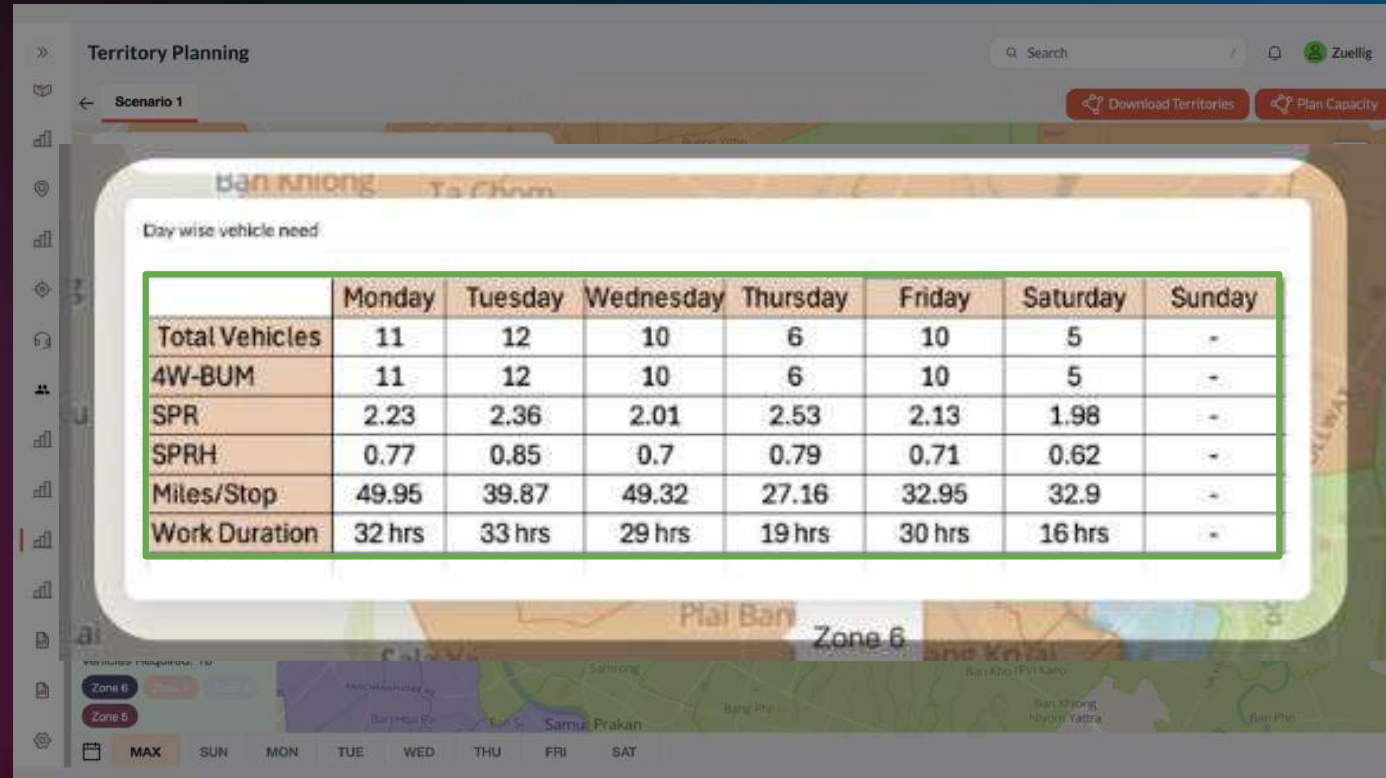
How do I identify which postal code to deliver on which day of week?

The
Answer



How do I plan for a projected 25% increase?

The Answer



How do I price, if the new customer will give me 2x volumes?

Vehicle
Needs &
SPRH

Plan

Scenario 1

Zone Summary

Vehicle Types: 04 | CDD: 04 | SDRH: 04 | Miles Per Stop: 04 | Work Duration: 04

Zone	Drivers Required	SPRH	SPR	Miles Per Stop	Work Duration
Zone 001	10	08.90	10	10.12 miles	8h 30m
Zone 002	15	10.23	33	12.12 miles	7h 30m
Zone 003	15	12.23	48	7.12 miles	8h 14m
Zone 004	12	08.89	64	3.12 miles	8h 30m
Zone 005	12	10.00	50	43.12 miles	8h 30m
Zone 007	11	12.00	60	2.12 miles	8h 30m
Zone 008	10	17.00	85	12.12 miles	8h 30m
Zone 009	10	09.19	36	17.12 miles	8h 30m

Electric Van

Vehicles Required

Zone 001

Zone 002

Zone 003

Zone 004

Zone 005

Zone 006

Zone 007

Zone 008

Zone 009

MAX

SUN

MON

TUE

WED

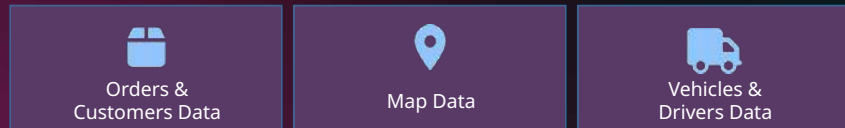
THU

FRI

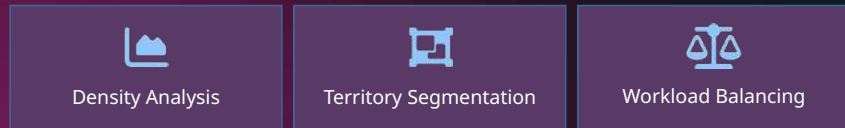
SAT

SOLUTION ARCHITECTURE

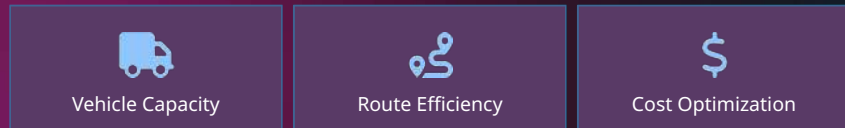
INPUT LAYER



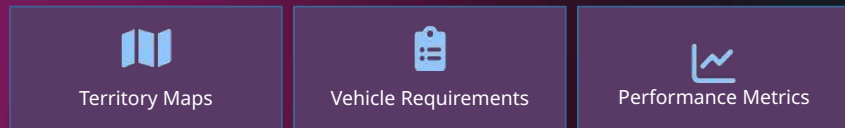
PROCESSING LAYER



OPTIMIZATION LAYER



OUTPUT LAYER



DATA INPUT

Ingest historical or forecasted data to create your digital foundation



DENSITY ANALYSIS

Analyze order density patterns to identify optimization opportunities



DEMAND SMOOTHING

Balance demand fluctuations for consistent resource allocation



TERRITORY SIZING

Segment territories for optimal operational efficiency



CAPACITY PLANNING

Determine precise vehicle requirements to maximize utilization

MEASURABLE IMPACT

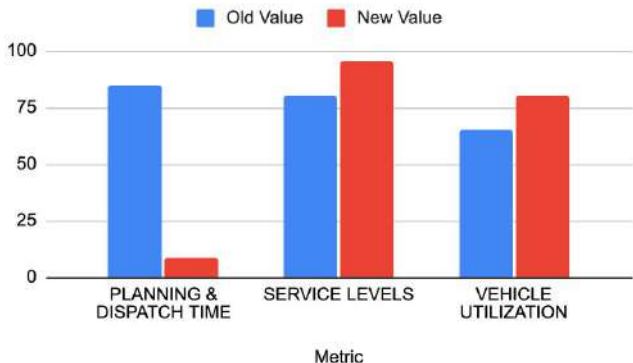
The Transformation Story

 Healthcare Success

The implementation of PLAN delivered **immediate and sustained results** for our healthcare customer, transforming their logistics operations across multiple dimensions.

BEFORE & AFTER IMPLEMENTATION

Old Value and New Value



 Deployed across healthcare facilities in:

Indonesia

Malaysia

Thailand

Hongkong

Philippines

18% INCREASED VEHICLE UTILIZATION

Optimized territory planning led to more efficient vehicle loading and routing, dramatically reducing empty miles and idle time.

~10% FLEET COST REDUCTION

Higher utilization enabled fleet size reduction therefore capital expenditure and operational costs.

~90% PLANNING & DISPATCH TIME REDUCTION

Automated territory and capacity planning reduced manual effort from weeks to hours, enabling rapid adaptation to market changes.

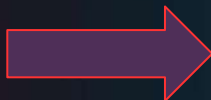
12% IMPROVED SERVICE LEVELS

More balanced territories and optimized capacity led to more consistent delivery times and higher customer satisfaction.

Measurable Impact

\$2M

Current Measurable Impact



\$8.5M

Potential Annual Impact

Thank You

thelastmileleaders.com