

A Plan to Make Cars Disappear!

IN .. R 8003

Preston Stinger
Fehr & Peers

p.stinger@fehrandpeers.com





What is TDM? Why use it?



MANAGE # OF AUTO TRIPS



ALTERNATIVE TO BUILDING MORE ROADWAY CAPACITY



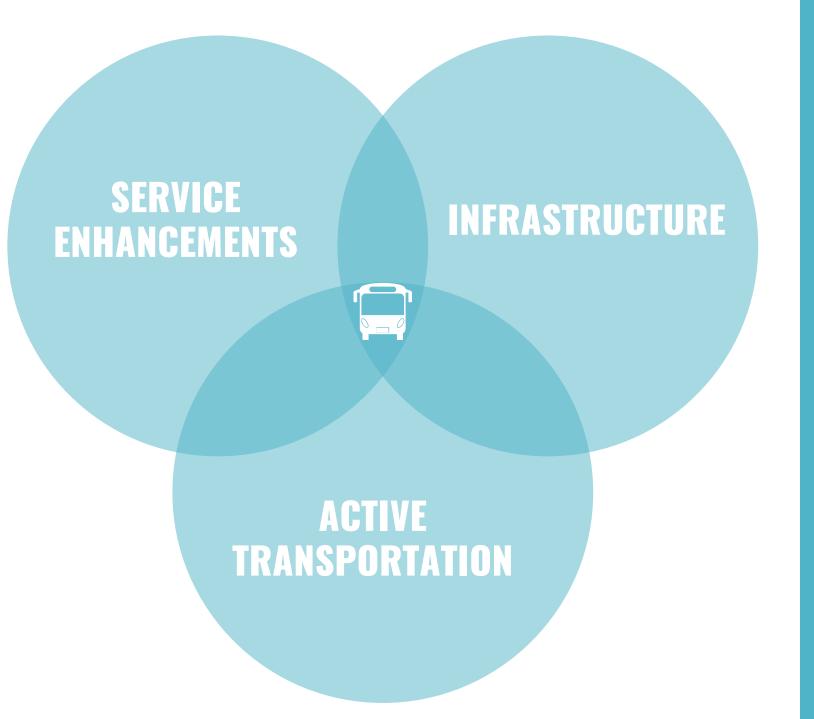
REDUCES SOLO AUTO TRIPS & VEHICLE MILES TRAVELED



PROVIDES ALTERNATIVE MODES OF TRAVEL



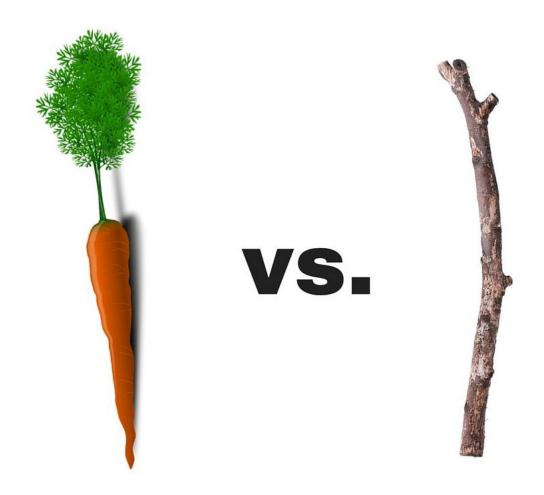
REDUCES PARKING DEMAND



Programmatic Approach:

Projects, Programs & Services that

- » Improve mobility & safety
- » Protect environment
- » Enhance economy



Where is TDM Used?

Highly-traveled corridors

Constrained or limited capacity areas

Downtowns

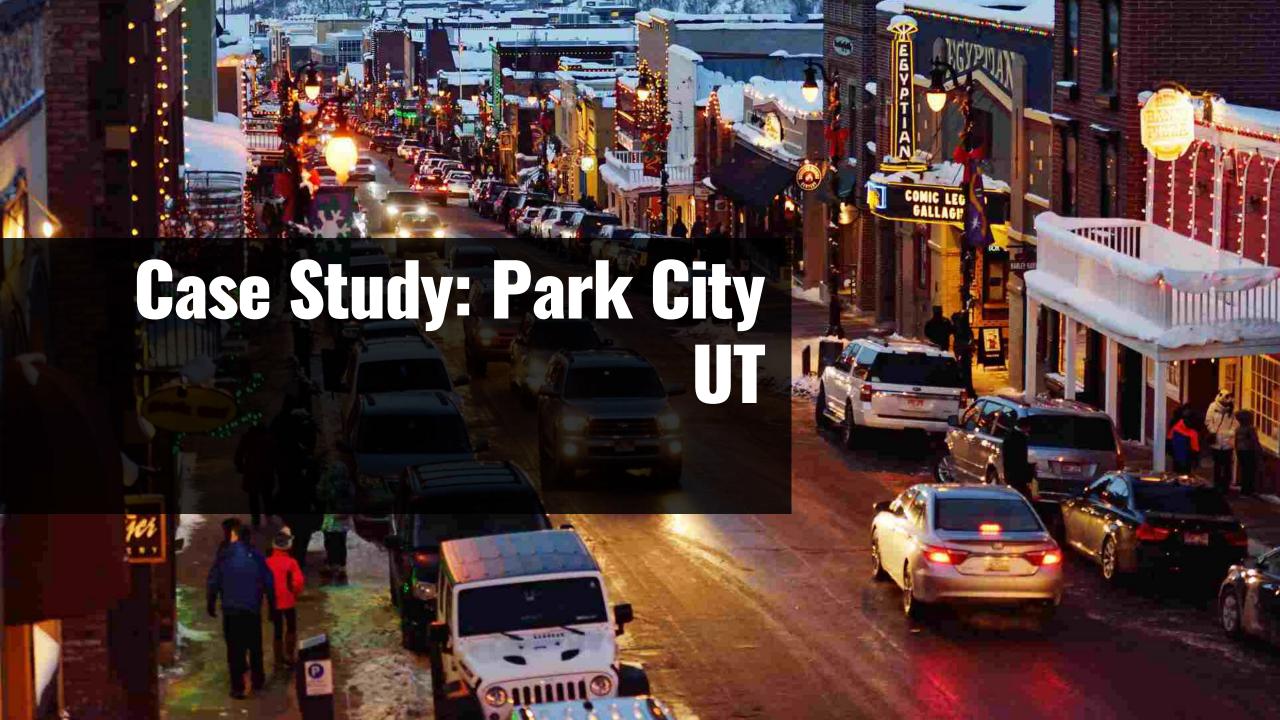
Business parks

Medical centers

Shopping areas

Resorts & event venues

Universities





Plan Goals

Reduce single occupancy vehicles (SOV) during peak

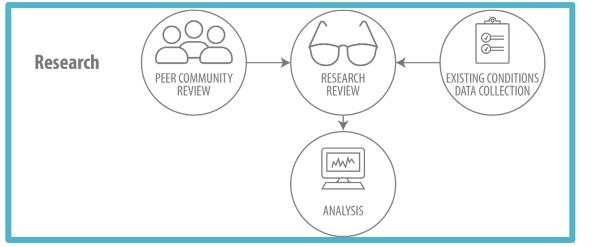
Reduce vehicle miles traveled (VMT) per person

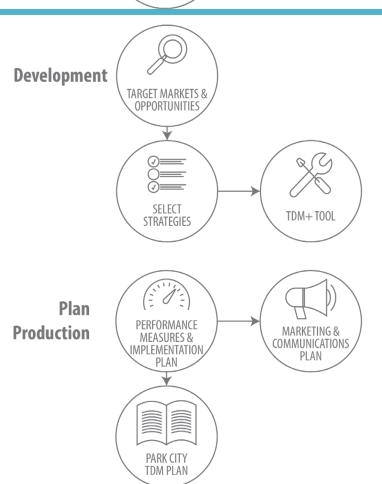
Manage congestion



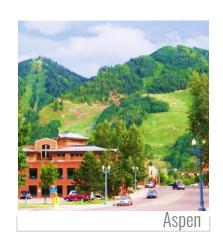








Peer Community Research Findings



Collaboration between public & private



Variety
of strategies & driving
alternatives



Unique Contexts
means program managers must
adapt conventional strategies



Ongoing Monitoring
to respond to changing
needs over time

Existing Conditions Analysis







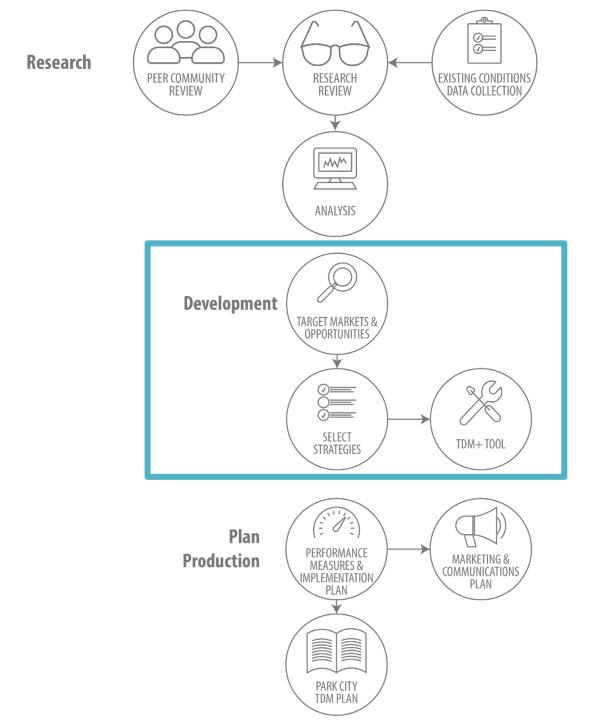


Traffic Counts

Surveys

Big Data

To identify markets
Understand travel behavior
Examine how demand changes based on time & date



Target Markets



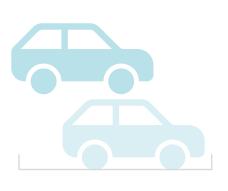




Part-time Residents



Visitors & Tourists

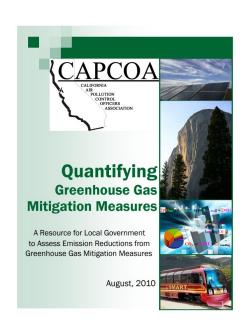


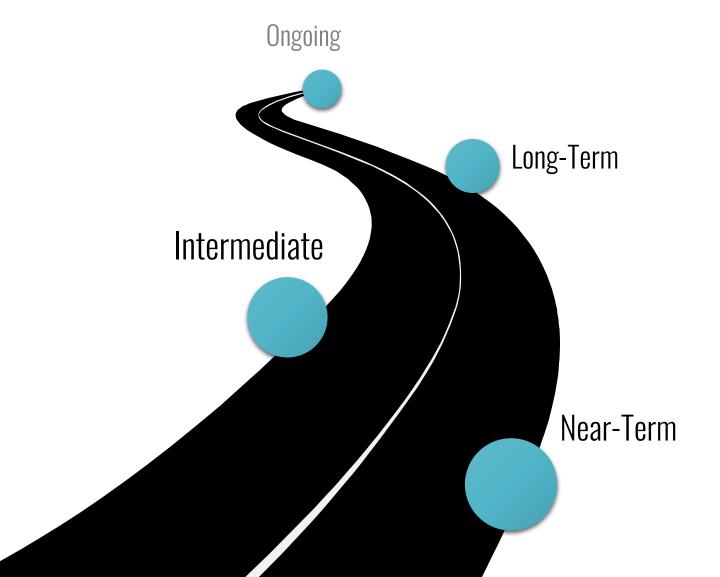
Commuters



Employees

Strategies





Strategies

POLICY

Density Bonus for Parking Reduction

TDM Requirements for New Development or Redevelopment Projects

Affordable Employee Housing

PARKING

Efficient Parking (Joint, Flex, & Satellite)
Parking Supply & Demand Management
Cash-out employee parking
School Parking Management

PROGRAM

Require TDM Coordinators with Employers
Provide Tailored Information & Promotions
On-Site Day Care Services

RIDERSHARE

Ridershare Programs

Carpool/Vanpool Programs & Parking

School-oriented Carpools

TRANSIT

Charter/Shuttle Bus Service for Large Events

Expanded Route & Frequency Options

Subsidized Transit & Inter-City Commuters

Transit Queue Jump Lanes

Transit Vehicle Signal Pre-Emption

BICYCLING/WALKING

Bike parking & repair at Key Destinations

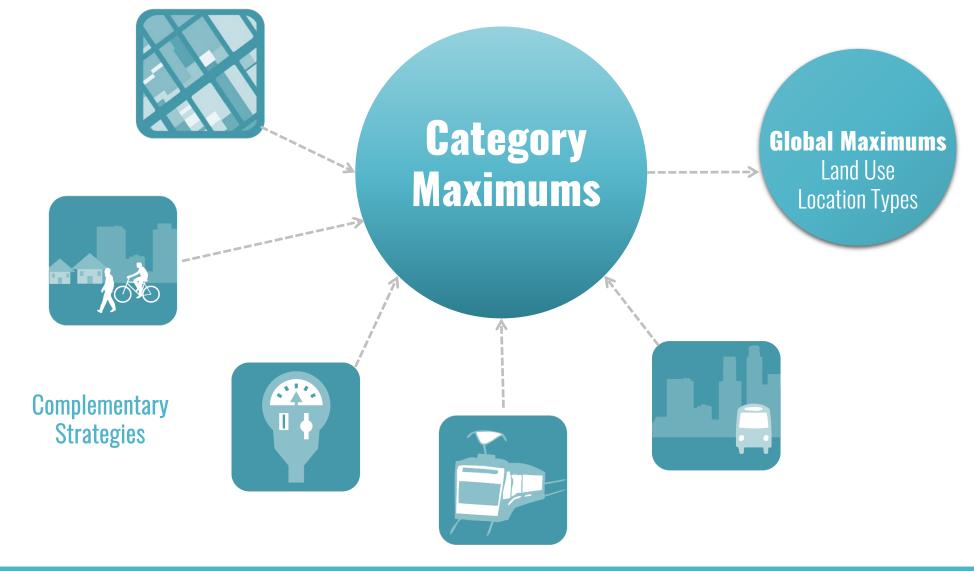
E-Bike Share

Showers/Lockers

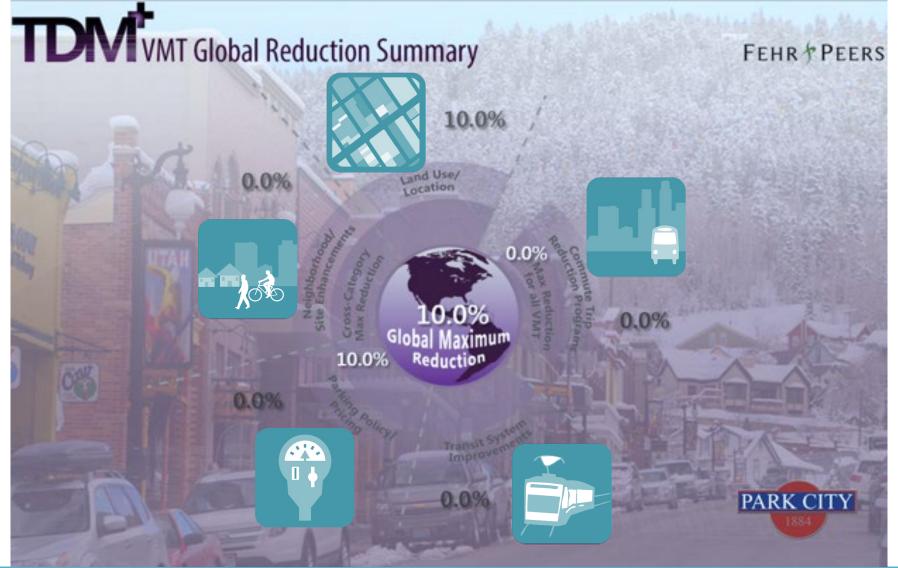
Walking/Biking School Bus (seasonal) Demand Mgmnt & Peak Spreading Strategies

Real-Time Info Gathering & Messaging

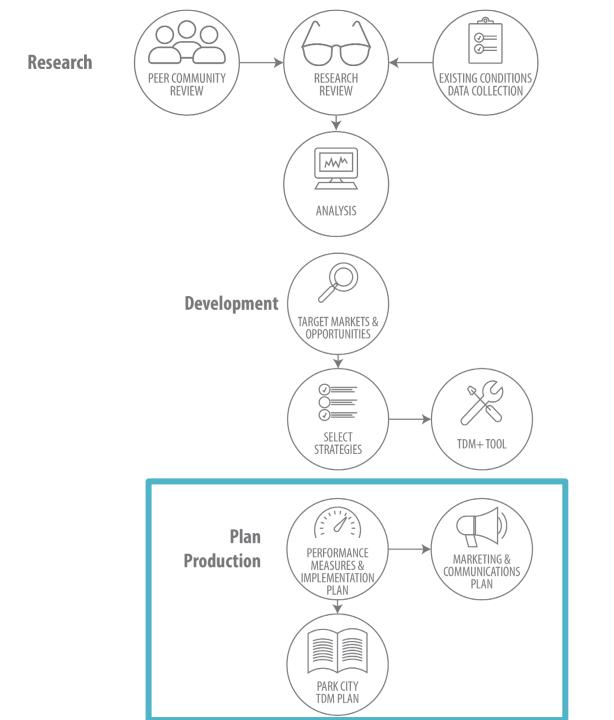
Add'l PM Recreation Opportunities & Amenities



TDM+



TDM+



Performance Measures & Ongoing Monitoring

Metrics & Collection Methods

REDUCE SOV MODE SHARE

Reduction in drive-alone mode share on gateway corridors

Method:

Bi-annual vehicle occupancy counts on SR-248 & SR-224

Carpooling/vanpooling increase

Method:

Annual employee survey for major employers & resorts

REDUCE VMT PER EMPLOYEE & PER RESIDENT

Shorter Commute Distances

Method:

Employee survey of major employers & resorts

Increase in visitor transit use

Method:

Visitor intercept surveys

MANAGE CONGESTION ON MAJOR CORRIDORS

Growth in traffic volume on gateway corridors (peak & daily) to not exceed % growth in annual housing & employment

Method:

Cordon counts on SR 248 & SR 224

TDM PROGRAM AWARENESS & UTILIZATION

of participants in employer programs & services

Method:

Yearly employer report submitted by TDM coordinator

Best Practices

Performance Measures & Ongoing Monitoring















Everyone has a role to play

Measure what matters

Understand the true costs of monitoring

Carefully consider enforcement



Clarity



State the intentions & desired effects upfront



Set up ongoing governance structure

Implementation

Park City, UT



Transportation
Management
Association
(TMA)



New Transit Investments



Parking Management



Electric Bikeshare Program



Policy



Non-profit, member-controlled

Transportation Management Association



Fine-grain transportation funding/service



Agencies & employers can pool resources



Businesses have equal seat at the table



Increase PC/SLC Connect Service

New Transit Investments



Electric Xpress

10 min headways 1st month ridership: **35,000** 2nd month ridership: **41,000**



Regional Commuter Service Kamas Commuter 1st month ridership: **1,000** 2nd month ridership: **1,250**

Parking Management



Manage all Old Town city-owned parking



Tiered Paid Parking in evenings



Free Carpool Parking



Smart Parking App



Guaranteed Ride Home Program

Electric Bike Share Program



Implemented: July 2017



9 stations (20 today)



88 bikes

Total distance: **28,000** miles

8,400 total trips

4,600 memberships



TDM requirements in project approval process

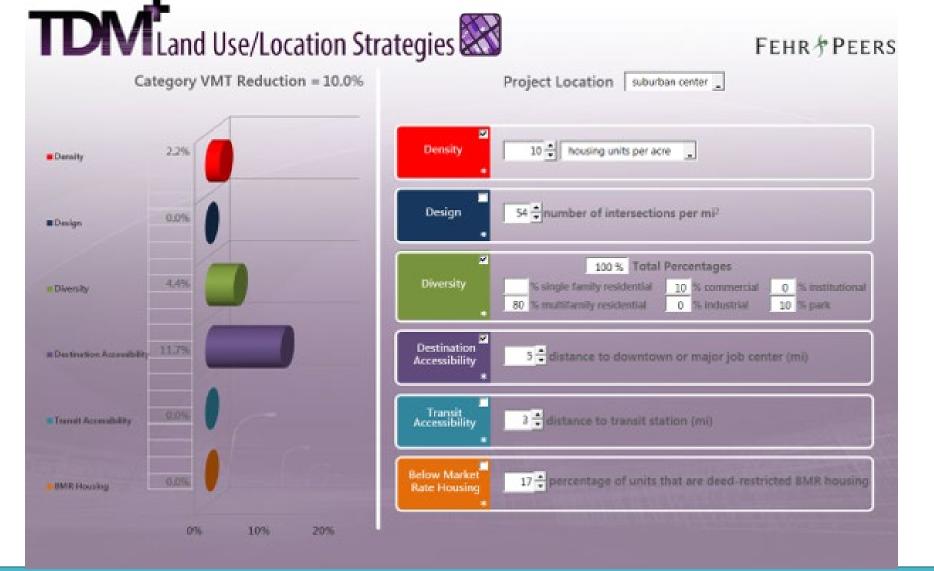
Trip reduction/TDM ordinances

Employee coordinator requirements

Event approvals & management

Policy





TDM+