

NEIGHBORHOOD TRAFFIC MANAGEMENT PROGRAM (NTMP)

Arapahoe County

Public Works & Development



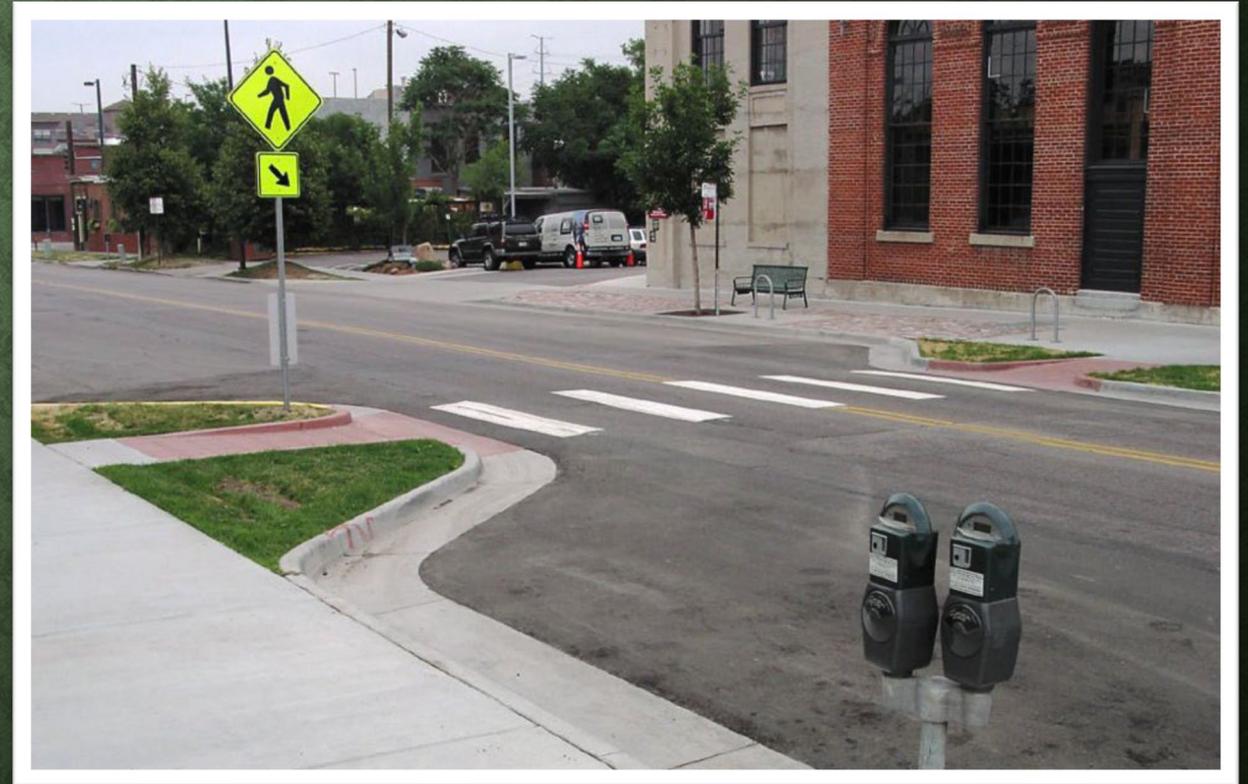
REQUEST

- Discuss the revised NTMP
- Bring back for Adoption at Business Meeting
- Promote NTMP on County website



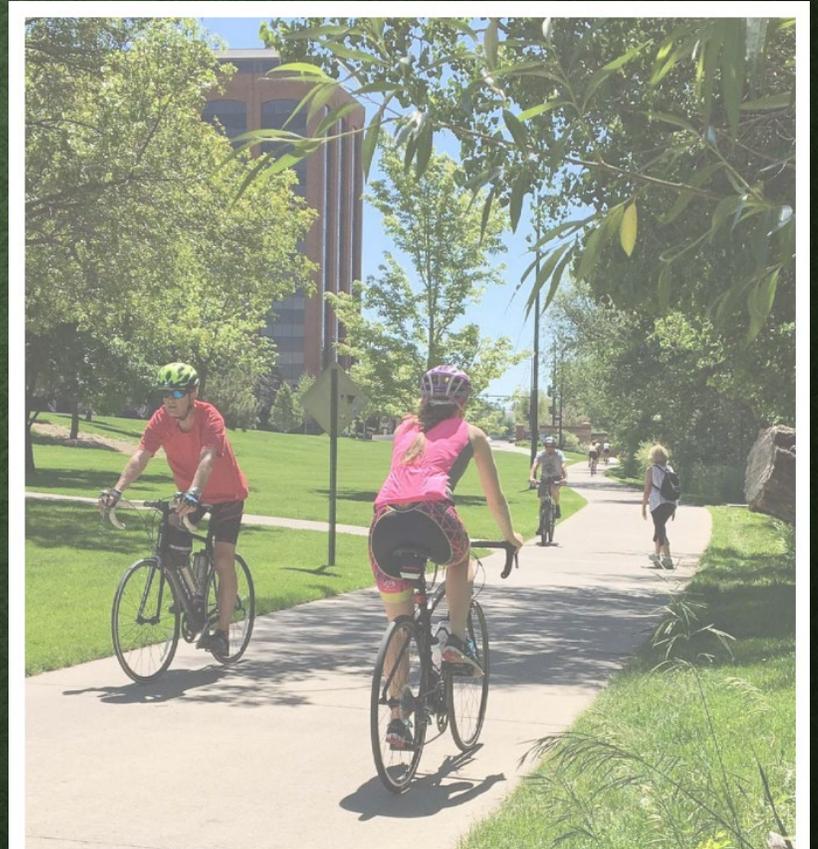
PURPOSE OF THE REVISED NTMP

- To address neighborhood traffic speeding and cut-thru traffic
 - Usually a resident request
- Improve application process to:
 - Manage request consistently and efficiently
 - Develop and implement effective solutions
 - Prioritize requests
- Expand NTMP to Minor Collectors



ENGINEERING STRATEGIES UPDATED

- Inclusion of implemented and tested techniques (10)
- Resources
 - AC Bike and Pedestrian Plan Implementation
 - Federal Highway Administration guidance
 - Other jurisdictions in the area
 - Aurora
 - Centennial
 - Albuquerque
- Comments from Road and Bridge and emergency service providers

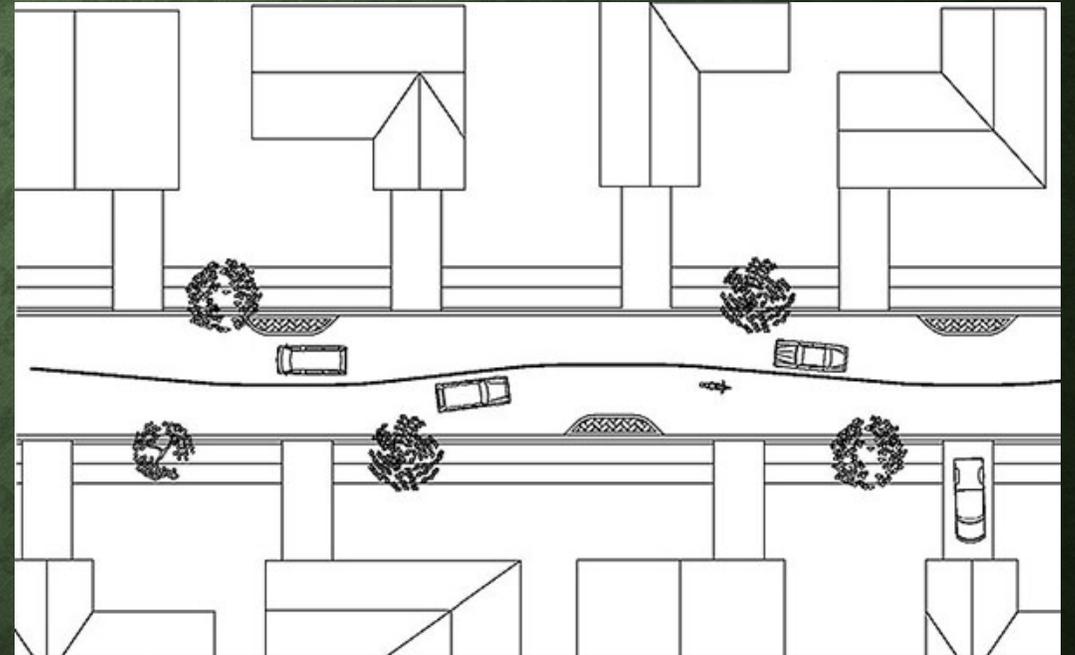


Arapahoe County
Bicycle and Pedestrian Design Guide

October 2017

CHICANES

- Series of alternating curves
- Volumes in both directions needs to be balanced
- Pros:
 - Calms traffic
 - Cost effective options
- Cons:
 - Impacts to street design/operations
 - Snow



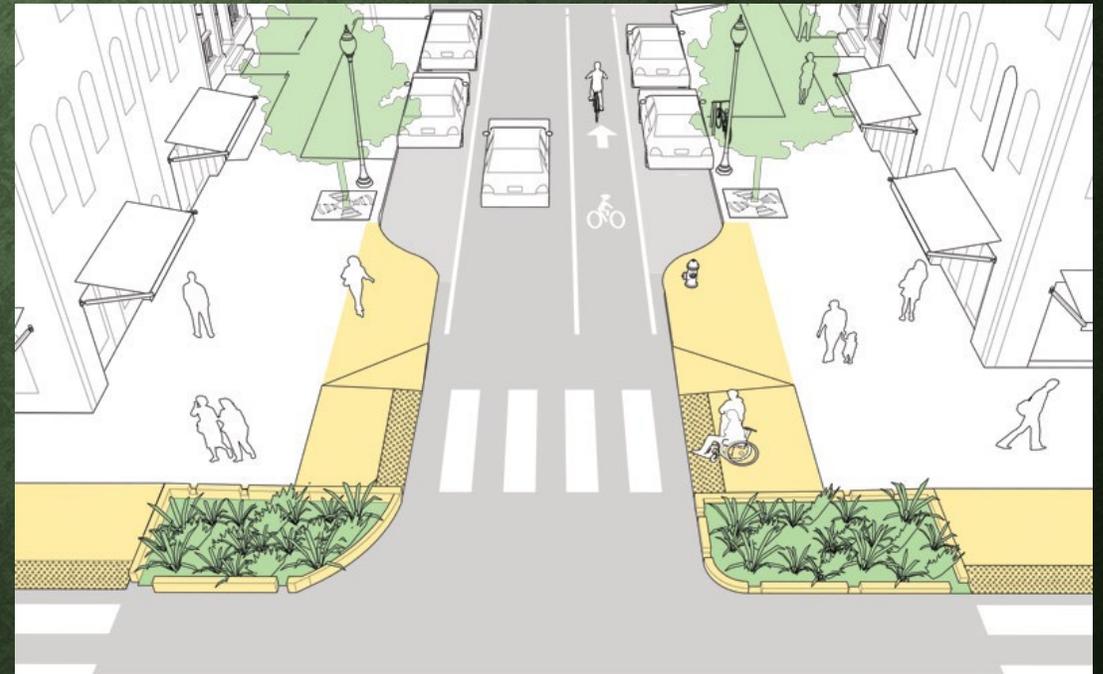
RAISED MEDIANS

- Raised island in middle of road
- Larger vehicles and on-street parking impacts
- Pros:
 - Calms traffic
- Cons:
 - Costly
 - Access impacts
 - Bicycle lanes



CURB EXTENSIONS/BULBOUTS/PINCH POINTS

- Curblin extension that narrows the roadway
- Pros:
 - Calms traffic
 - Pedestrian crossing distance reduced
- Cons:
 - Costly and impacts to street design/operations



RAISED CROSSING/SPEED HUMPS

- Raised areas of pavement
- Emergency services considerations
- Pros:
 - Pedestrian safety
 - Very effective at slowing traffic
- Cons:
 - Emergency services response time
 - Noisy



SPEED FEEDBACK SIGNS

- Speed-measuring radar and message sign
- Pros:
 - Effective in reducing speeds for vehicles over posted speed limit
- Cons:
 - Not effective over time due to drivers becoming familiar with sign



RUMBLE STRIPS

- Pavement textures or transverse cuts
- Pros:
 - Warns motorist of condition
 - Reduces roadway departures and
- Cons:
 - Specific to one location along road segment
 - Pavement deterioration
 - Noisy



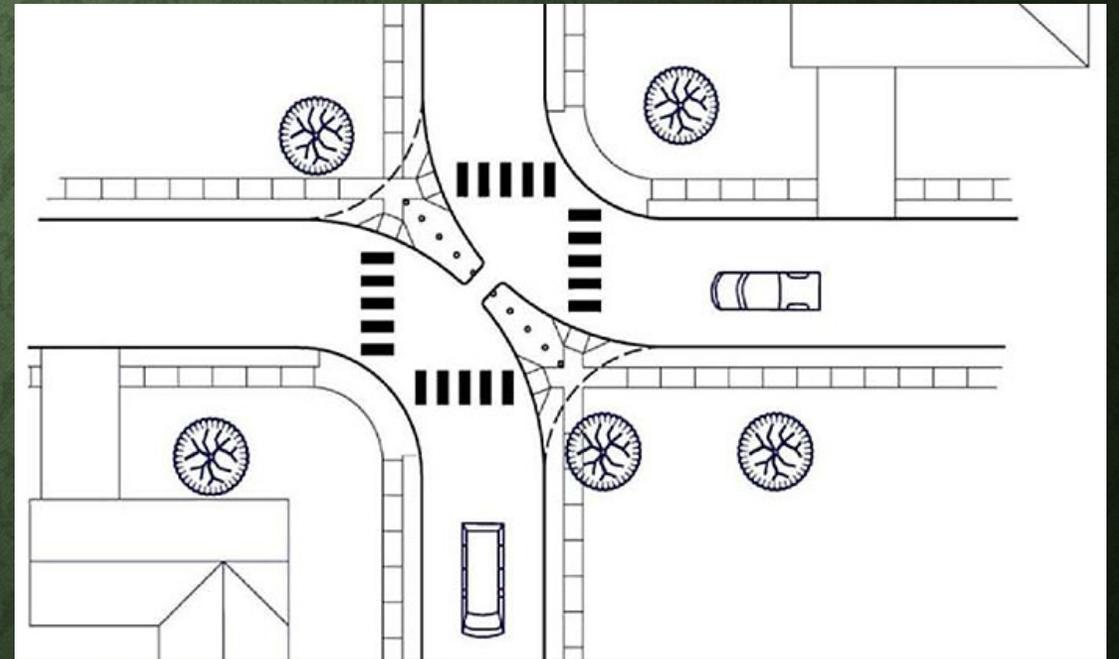
TRAFFIC CIRCLES

- Raised circular island placed in the unsignalized intersection
- Pros:
 - Slows traffic near intersections
 - Different construction material types
- Cons:
 - Pedestrian traffic management
 - Emergency service



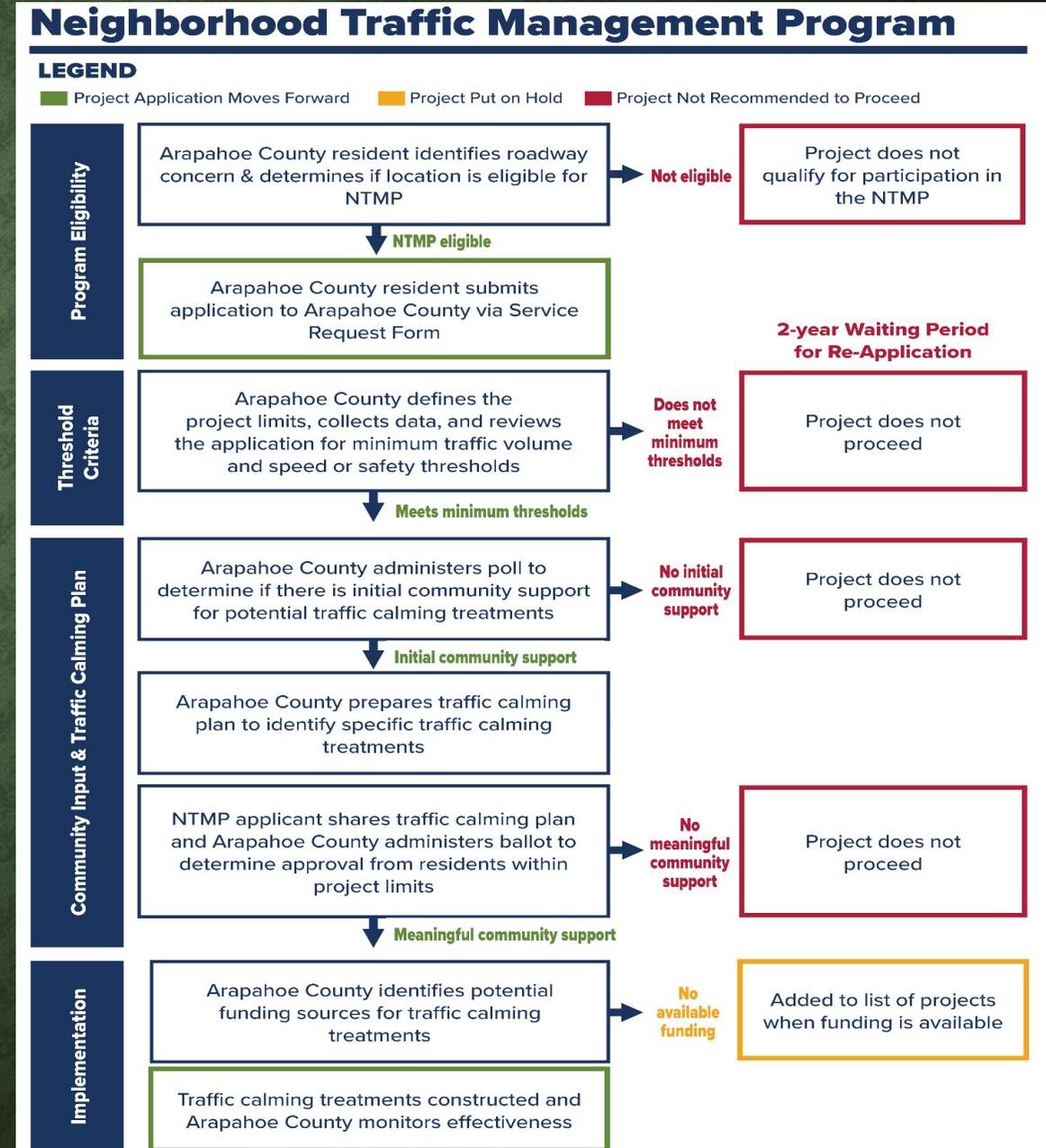
TRAFFIC DIVERTERS

- Raised islands placed diagonally across unsignalized intersections to restrict movement
- Pros:
 - Reduces speeds by requiring turns
 - Improve bike and ped safety
- Cons:
 - Restricts movement in intersection
 - Emergency services
 - Network impact



APPLICATION PROCESS UPDATED

- Residents checks website map to determine if street is eligible
- Residents submit a traffic calming request on County website
- Staff reviews applications and collects data
- Staff administers poll to determine community support
- If there is support, Staff prepares traffic calming project
- Staff identifies potential funding for traffic calming solutions and prioritizes project
- Traffic calming solution is installed and monitored as money is available



STAFF ANALYSIS

- Traffic Analysis will be performing by PWD
- Includes:
 - Data collection – volumes, speed, traffic patterns
 - Crash data and analysis
- Alternative analysis
 - Best performance to address issue
 - Cost benefit
- NTMP Project developed and communicated

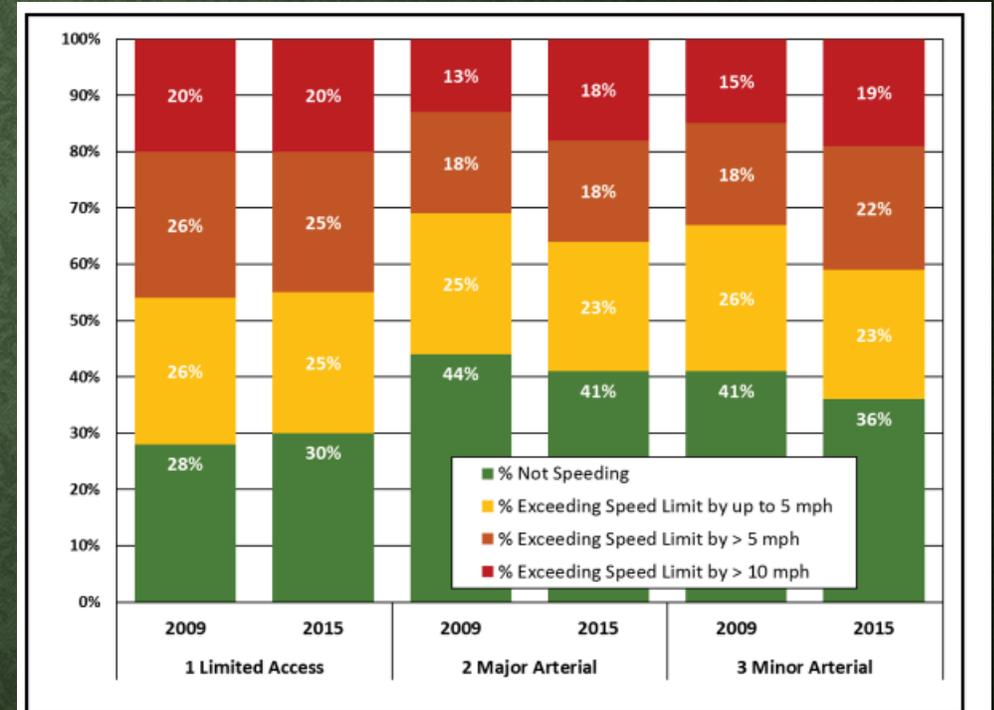
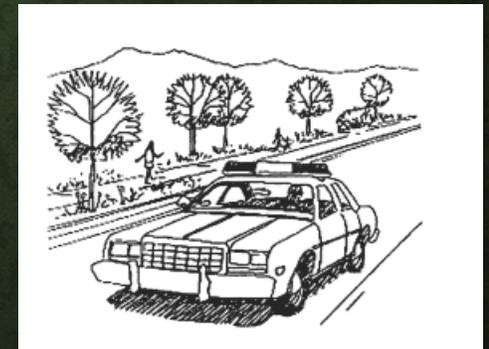
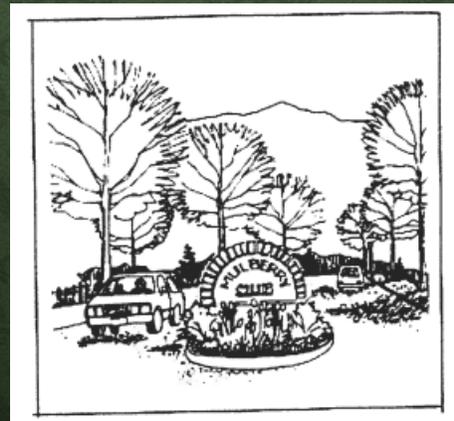
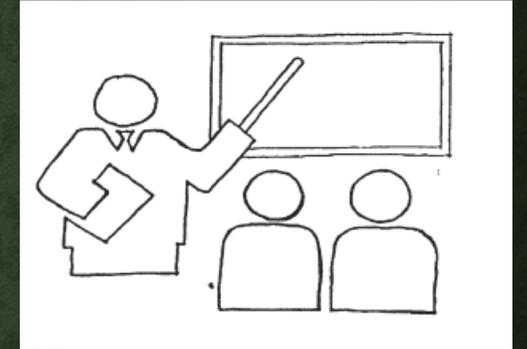


Figure 13. Proportion of Traffic Exceeding the Speed Limit by Road Class (Free-Flow)

OTHER CHANGES

- Removed the option for neighborhoods to participate in the improvements with County
 - Option remains for HOA (others) to fund completely
- Modified the neighborhood feedback process



EXAMPLE PROJECT

VERSAILLES CORRIDOR STUDY

- Study Cost - \$100K
- Roundabout at Tempe and Belleview
 - Federal Grant – \$270K
 - CIP - \$30K
- Traffic Calming Improvements
 - Lane narrowing
 - Turn lane pockets
 - Center island for ped crossing



NTMP BENEFITS

- Process and criteria for designing and implementing traffic-calming measures
- Foster a collaborative relationship between residents and staff in implementing traffic calming measures
- Provide a neighborhood driven process to address concerns about traffic volumes and speeds on residential streets
- Improve quality of life for Arapahoe County citizens by improving neighborhood livability through traffic calming measures



FISCAL IMPACT

- Adoption of the revised NTMP has no fiscal impact
- Funding for the NTMP implementation will occur through the annual budget process
- Calming Measure typical costs
 - Chicane - \$8k-\$25k
 - Speed Humps - \$2k-\$4k
 - Striping, signage, RRFB – \$100's
 - Roundabouts - \$150k-\$1M
- Current list of projects



REQUEST AND NEXT STEPS

- BOCC approve the revised Neighborhood Traffic Management Program for Unincorporated Arapahoe County
- Adopt the NTMP and its inclusion in the Traffic Operation Policies and Procedures manual at a later meeting



QUESTIONS