



Quick Build vs. Concrete Construction in Speed Management

COMPARATIVE STUDY

PRESENTED BY MAGGIE CHAN

Overview

1. Introduction
2. Quick Build - Alexandria Drive
3. Concrete Construction - Willow Creek Drive
4. Comparison/Discussion
5. Conclusion/Q&A

Back to Basics



TRAFFIC CALMING TOOLKIT



Challenge:
150+ Requests /Year
Funding available for 5-15 Projects/year

Data Driven Methodology Developed
FHWA Guidance

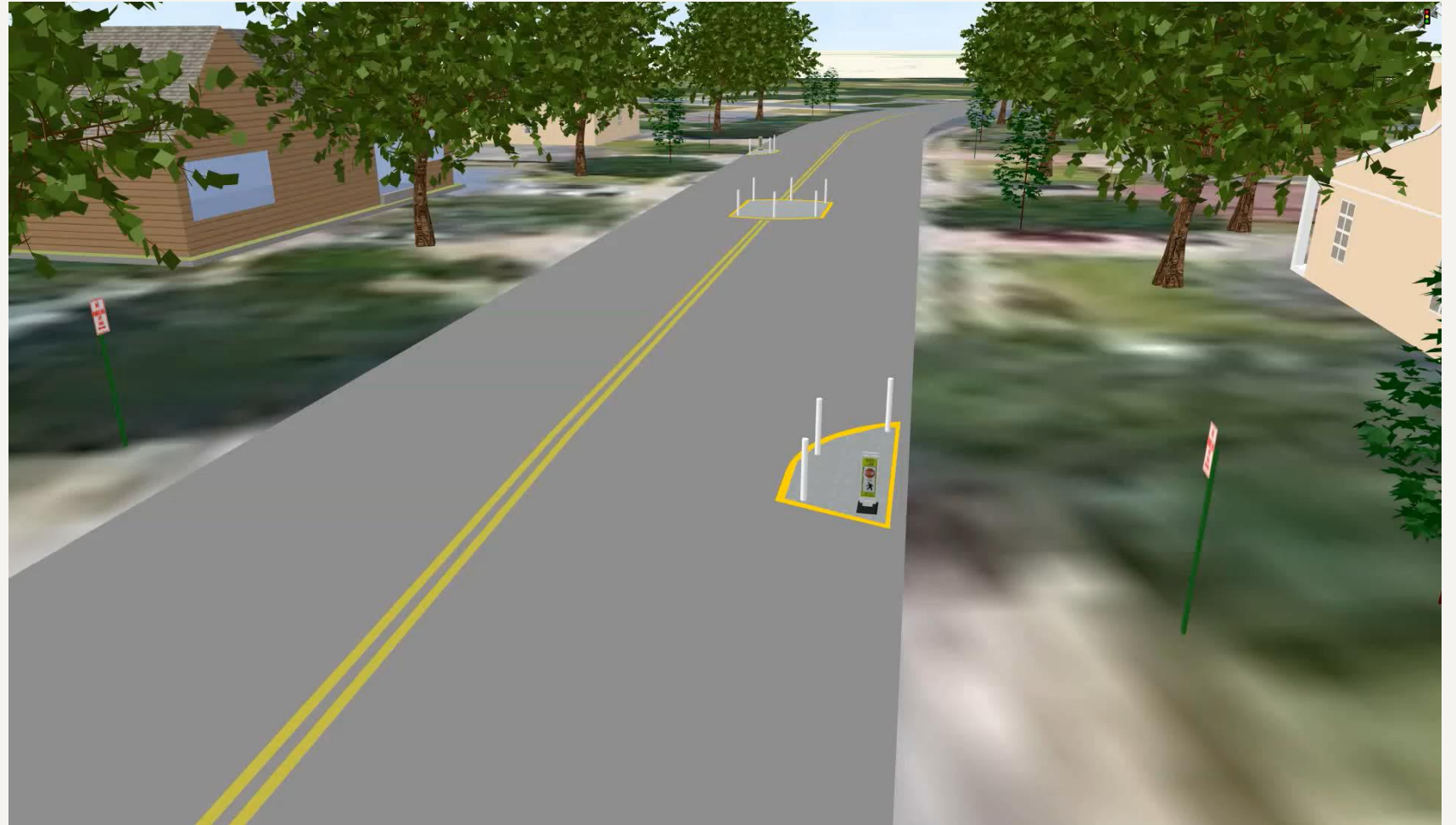
City wide
screening

Ranked
for
funding

Panel
Review/
Project
Selection

Quick Build – Alexandria Drive

- BRODIE LN TO COPANO DR
- ADT ~2000
- 44' WIDTH
- LEVEL 2



Alexandria Drive Project Details

- DID NOT QUALIFY FOR FUNDING
- PILOT PROJECT: CHICANES
- COA CREWS INSTALL
- COMMUNITY ENGAGEMENT

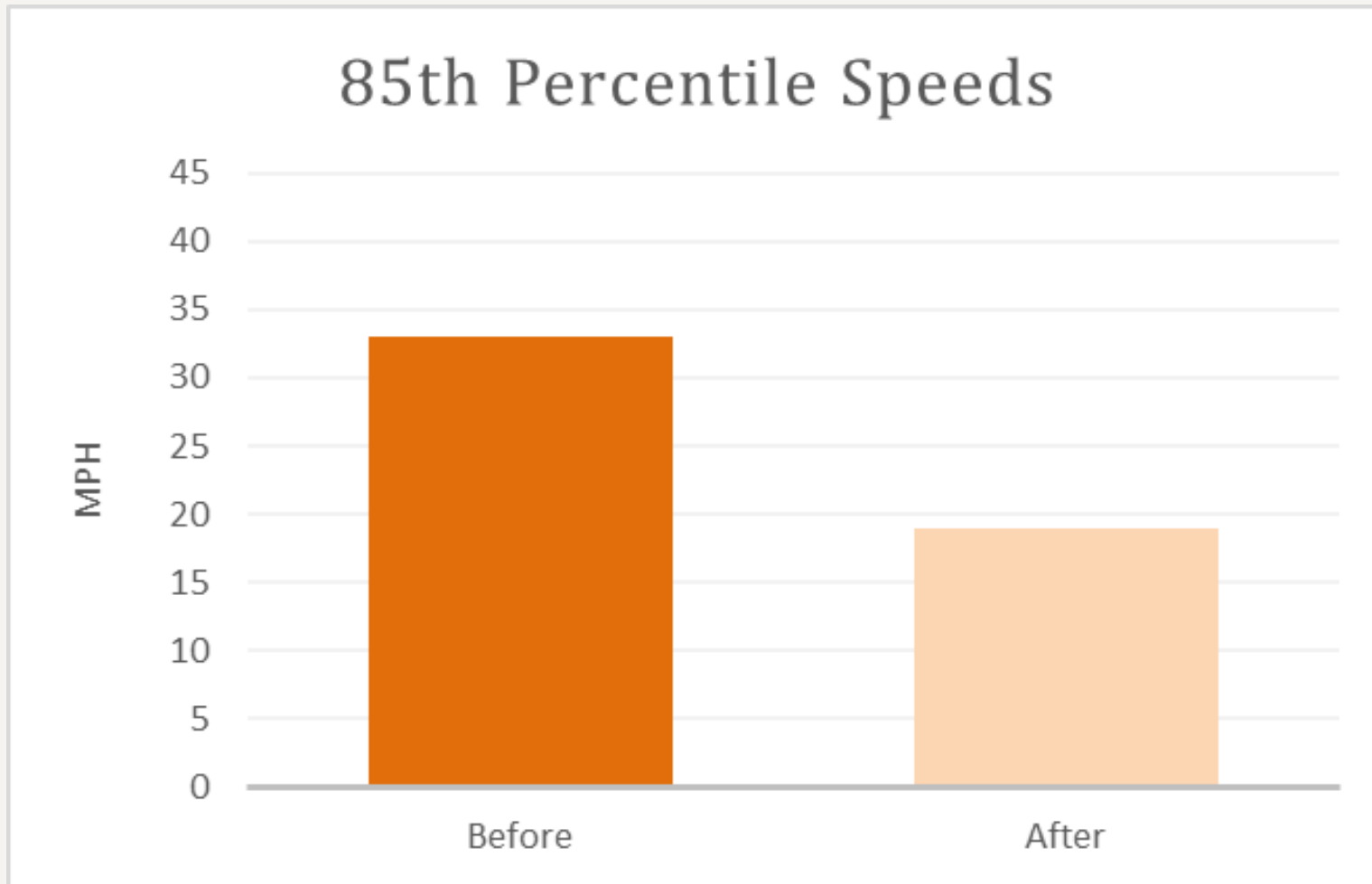


Alexandria Drive Cost



Construction Cost \$20K

Alexandria Drive Effectiveness



- 14 MPH DECREASE
- 42% REDUCTION
- 85% OF DRIVERS ARE TRAVELING AT OR BELOW 20 MPH

Concrete Construction - Willow Creek Drive

- E RIVERSIDE TO OLTORF
- ADT ~7000
- 44' WIDTH
- LEVEL 2



Willow Creek Drive Project Details

- RECEIVED BOND FUNDING
- BIKE NETWORK & SIDEWALK IMPROVEMENTS
- PEDESTRIAN ISLAND PINCH POINT
- CONTRACTOR – PERMITS, ENGINEERING, INSPECTION

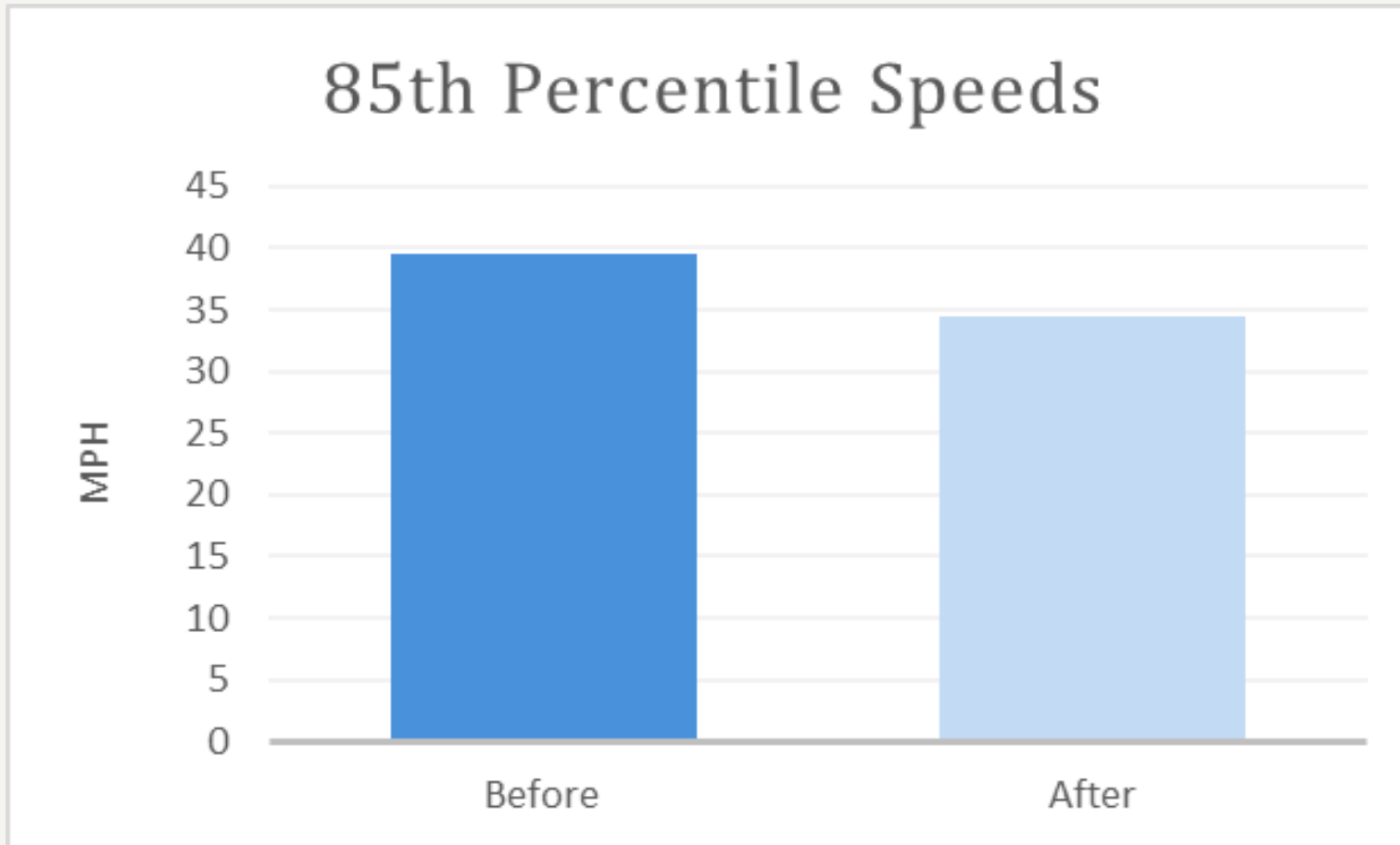


Willow Creek Drive Cost

Construction Cost		\$300K
Striping Work		\$100K
Concrete Work		\$200K

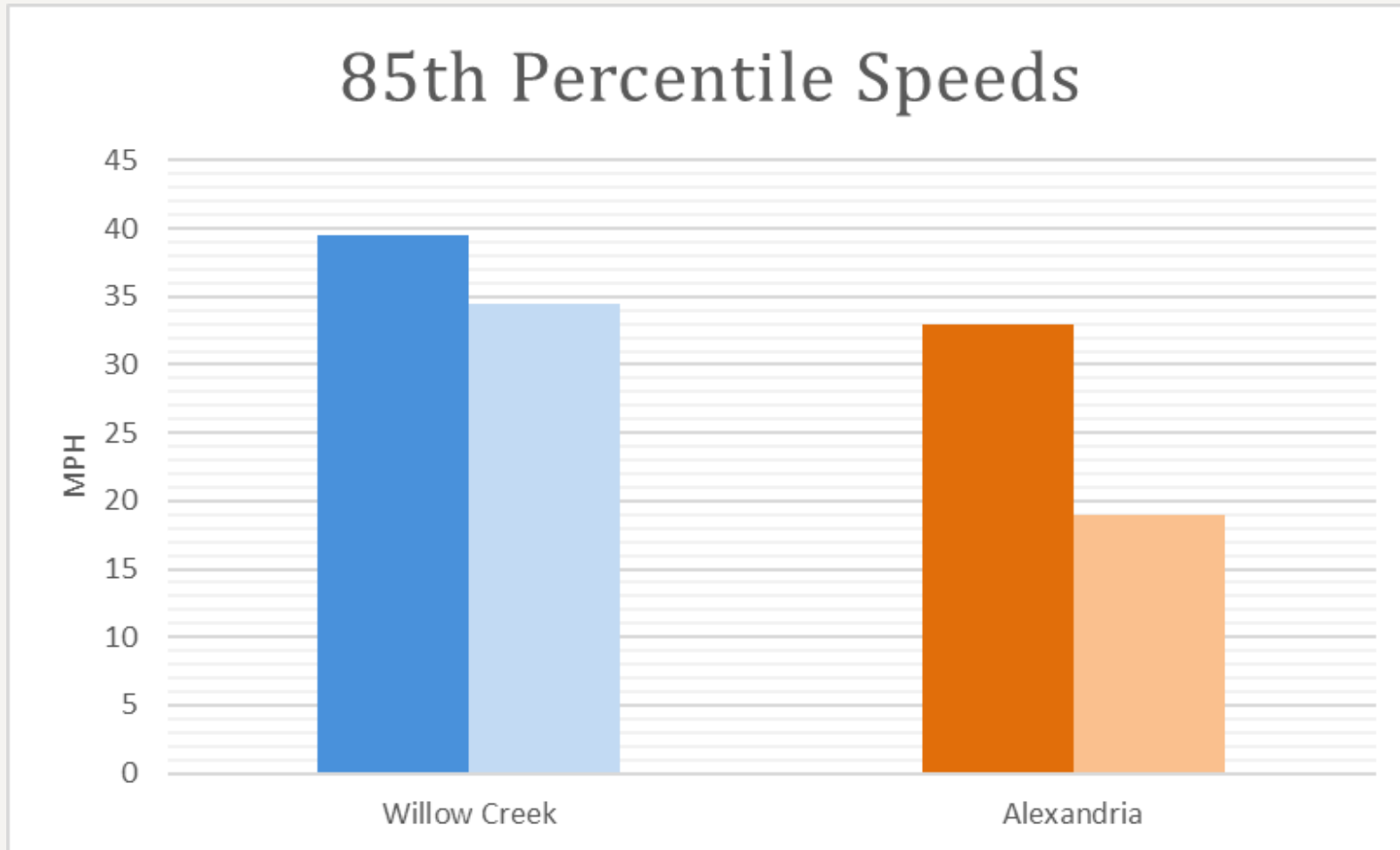


Willow Creek Drive Effectiveness



- 5 MPH DECREASE
- 13% REDUCTION
- 85% OF DRIVERS ARE TRAVELING AT OR BELOW 35 MPH

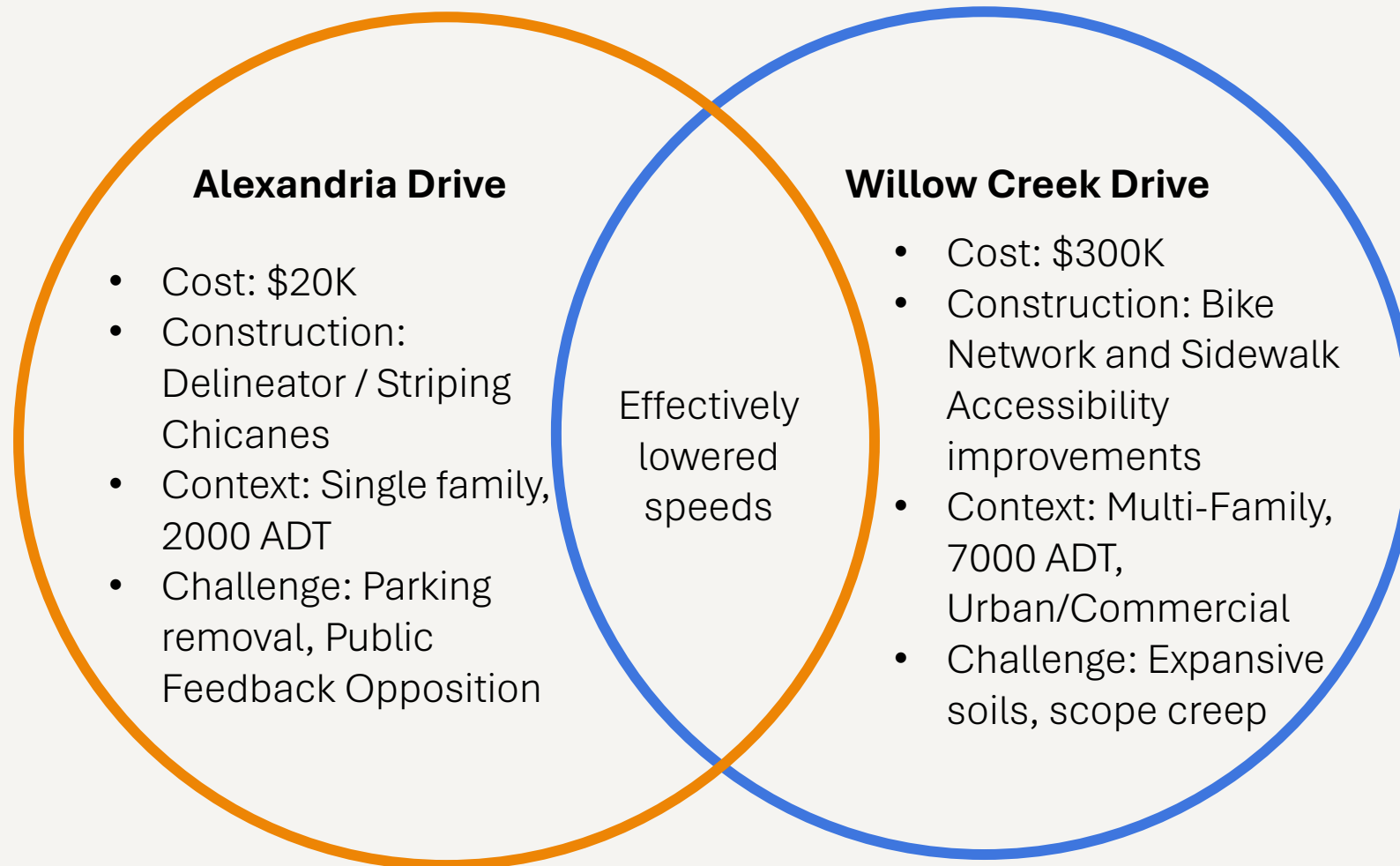
Effectiveness Comparison



Willow Creek	\$300K / 13% ↓
Alexandria	\$20K / 42% ↓

- Effectiveness evaluated by speed/cost/infrastructure improvements
- Opportunity for lower cost projects to make big impact

Cost, Construction, Context, Challenges



Key Takeaway

Low-cost solutions can be as effective as higher cost solutions in speed management

In conclusion...

- Simplicity can bring results
- Keep innovating and utilizing tools in the toolbox!

