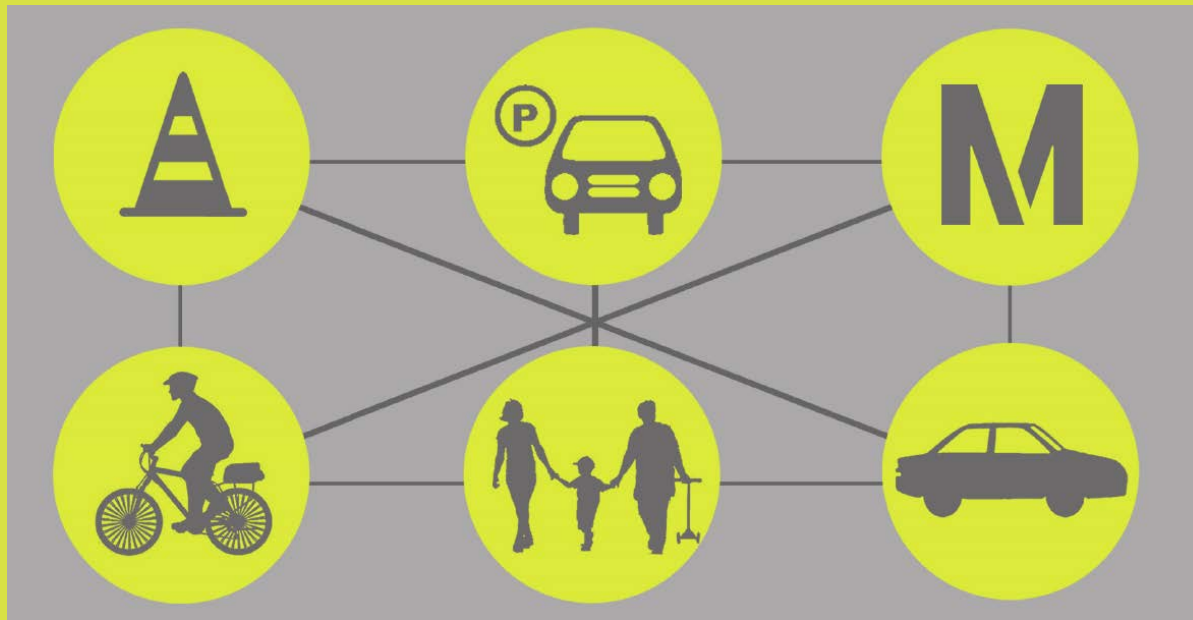# Beach Cities
Living Streets Design Manual

PRESENTATION OUTLINE

1 **Introductions**

2 Project Background

3 Living Streets Design Manual

4 Next Steps

5 Q & A

INTRODUCTIONS

City of Hermosa Beach

City of Manhattan Beach

City of Redondo Beach

Beach Cities Health District

PROJECT BACKGROUND

1. California Department of Transportation (Caltrans) Transportation Planning Grant

2. Customize Los Angeles County Living Streets Design Manual

3. Conduct three (3) Community Outreach Sessions

4. Prepare Concept Plans for the Aviation Boulevard Corridor

5. Approvals at a future date at the City Level

Active Transportation Specialist: Rock Miller
Project Manager: Maria Morris
Traffic and Planning: Daryl Zerfass
Outreach Specialist: Leslie Scott

MILESTONES

- Understanding Existing Conditions
- Parking and Traffic Study
- Meetings with City Staff
- First Community Workshop
- BCHD Workshop featuring Dan Burden
- Draft Living Streets Design Manual for Public review
- Develop Concepts for Aviation Boulevard and Marine Avenue
- Second Community Workshop
- Draft Living Street Design Manual
- Third Community Workshop
- Refined Promising Alternatives based on Workshops
- Develop Implementation Plan

WORKSHOP #1 July 17, 2017

Introduced the purpose for a Beach Cities Living Streets Manual and Aviation Boulevard Multimodal Corridor Plan for the region.

The public was asked to provide input on
- Bicycle facilities
- Crossing treatments
- Design elements
- Travel modes
- Living Streets Manual
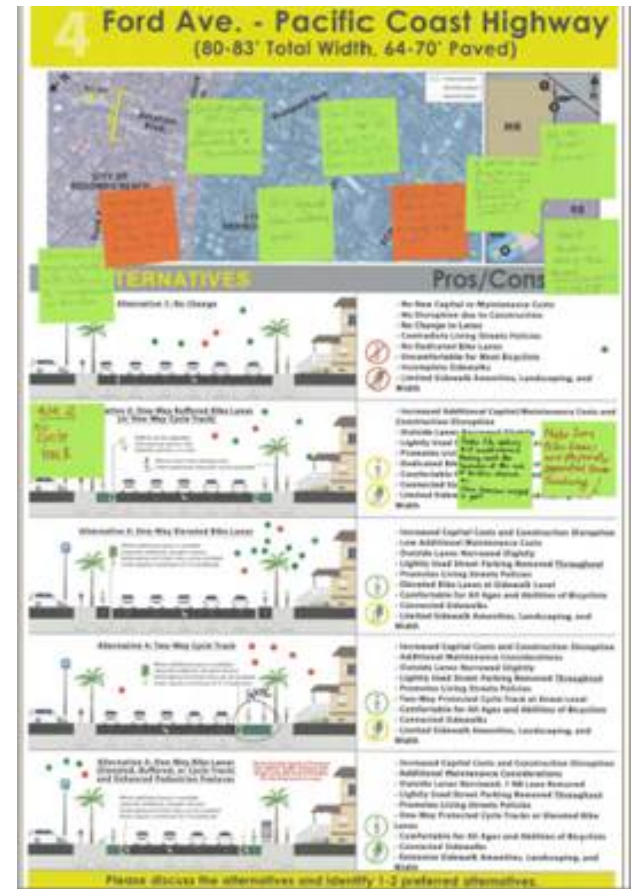- Cross sections
- Potential issues

WORKSHOP #2 January 31, 2018

Focused on the Living Street Design Manual elements and introduced Aviation Boulevard preliminary concept alternatives

Results: Wide variation of input

- Concern about the balance between traffic and active transportation
- Safety

The public provided input on 4 project segments

PUBLIC OUTREACH RECAP

WORKSHOP #3 April 23, 2018
Focused on the Aviation Boulevard preliminary concept alternatives

Results: Wide variation of input

- Concern about the balance between traffic and active transportation

The public provided input on the preliminary concept plans

BCHD Streets for All educational series led by Dan Burden

What attendees value the most:

1. Community
2. Beach
3. Safety
4. Recreation
5. Weather
6. Walkability

Streets for ALL

WHAT IS A LIVING STREET

Living Streets can Include:

- Sidewalks
- ADA accessibility
- Bike lanes or other bike signage
- Comfortable and accessible transit stops
- High visibility crosswalks
- Bulbouts and medians
- Roundabouts
- Green space and street trees
- Outdoor dining
- Integrated land uses
- Street furniture

"Living Streets" have the following elements...

- reflect the **CHARACTER** of the community to which it belongs

- allow people of all ages and abilities to **WALK AND BIKE** comfortably and safely

- contribute to the **ECONOMIC VITALITY** of the community

- are functionally complete, providing a **CHOICE OF TRAVEL MODES** throughout the place

- create attractive places that promote **SOCIAL ACTIVITY**

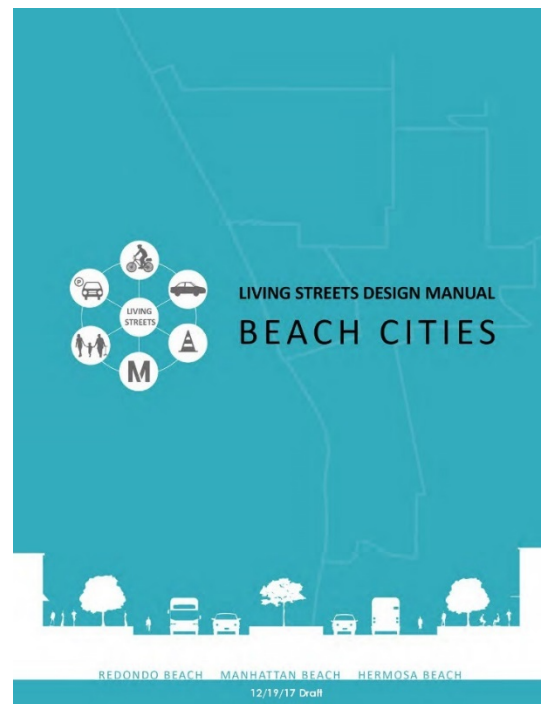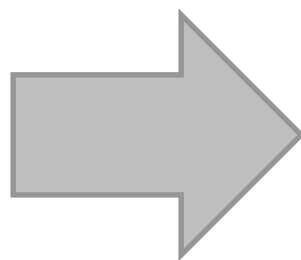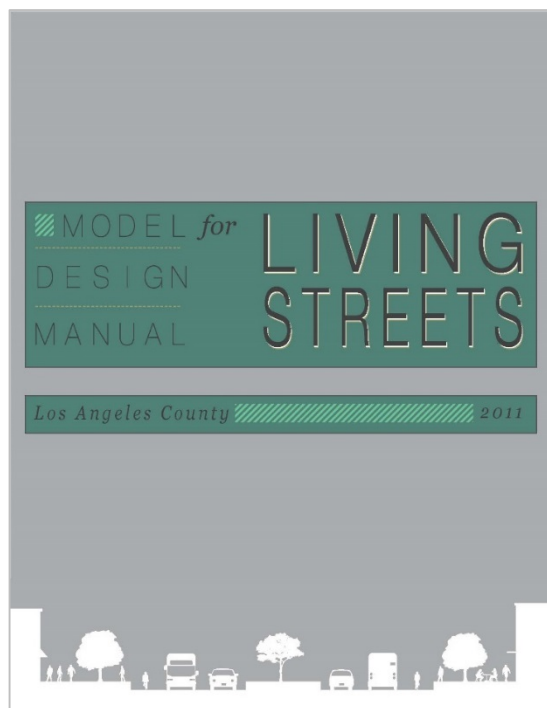- integrate **GREEN TECHNOLOGIES** into design and construction

GOALS OF A LIVING STREET

- Promote Health
- Improve Safety
- Spur Economic Growth
- Lower Emissions
- Raise Property Values
- Provide Choices
- Reduce Traffic Congestion

LIVING STREETS MANUAL

- LA County Living Streets model manual updated for localized conditions in Beach Cities - Hermosa Beach, Manhattan Beach, and Redondo Beach.
- Updated policies, standards, tool box, local pictures, local conditions
- Documented outreach process
- Additional chapter on "Emerging Technologies"
- Specific Chapter on each of the three Cities

Available Online
Please visit your City website

CUSTOMIZE THE <u>LIVING STREETS DESIGN MANUAL</u>

a) Local outreach and priorities specific to the Beach Cities

b) <u>Local</u> examples

c) Framework for future improvements within the Cities

LIVING STREETS MANUAL CHAPTERS

Chapter 1: Introduction
Updated to include new manuals, standards, and legal changes since 2011

Chapter 2: Vision, Goals, Policies and Benchmarks
Removed generic policies and referenced city-specific goals

Chapter 3: Street Networks and Classifications
No changes

Chapter 4: Traveled Way Design
Updated to include new cycle track treatments and referenced feedback from first public meeting

Chapter 5: Intersection Design
Expanded discussion of pedestrian scrambles and curb ramp orientation

Chapter 6: Universal Pedestrian Access
No changes

Chapter 7: Pedestrian Crossings
Expanded discussion of pedestrian scrambles and referenced feedback from first public meeting

Chapter 8: Bikeway Design
Added discussion of topography, bicycle intersections, bicycle stations, and bicycle corrals and expanded on cycle tracks, bike boxes, colored pavements, and legal status. Added model project.

LIVING STREETS MANUAL CHAPTERS

Chapter 9: Transit Accommodations

Added discussion of comfort and sense of place, effective wayfinding, personal safety, transit-bike conflicts, bus stop islands, rail-bike conflicts, and additional resources.

Chapter 10: Traffic Calming

Expanded discussion of road diets and referenced public feedback from first public meeting

Chapter 11: Streetscape Ecosystem

Added discussion of regional SCAG GoHuman regional outreach and advertising program

Chapter 12: Gathering Places

No changes

Chapter 13: Designing Land Use Along Living Streets

No changes

Chapter 14: **Retrofitting Suburbia**

No changes

Chapter 15: Community Engagement for Street Design

Added discussion of outreach conducted for this manual and concerns and projects for consideration identified through that process

Chapter 16: Emerging Technologies

New chapter: discussion of shared mobility services, transportation network companies, car share, bike share, autonomous vehicles, and the impact of these technologies on transit included

Chapter 17: The Beach Cities and [Hermosa Beach, Manhattan Beach, or Redondo Beach]

INTRODUCTION

- Legal standing of street manuals,

- Purpose of the manual

- How to use the manual

- New materials since 2011

VISION, GOALS, POLICIES, AND BENCHMARKS
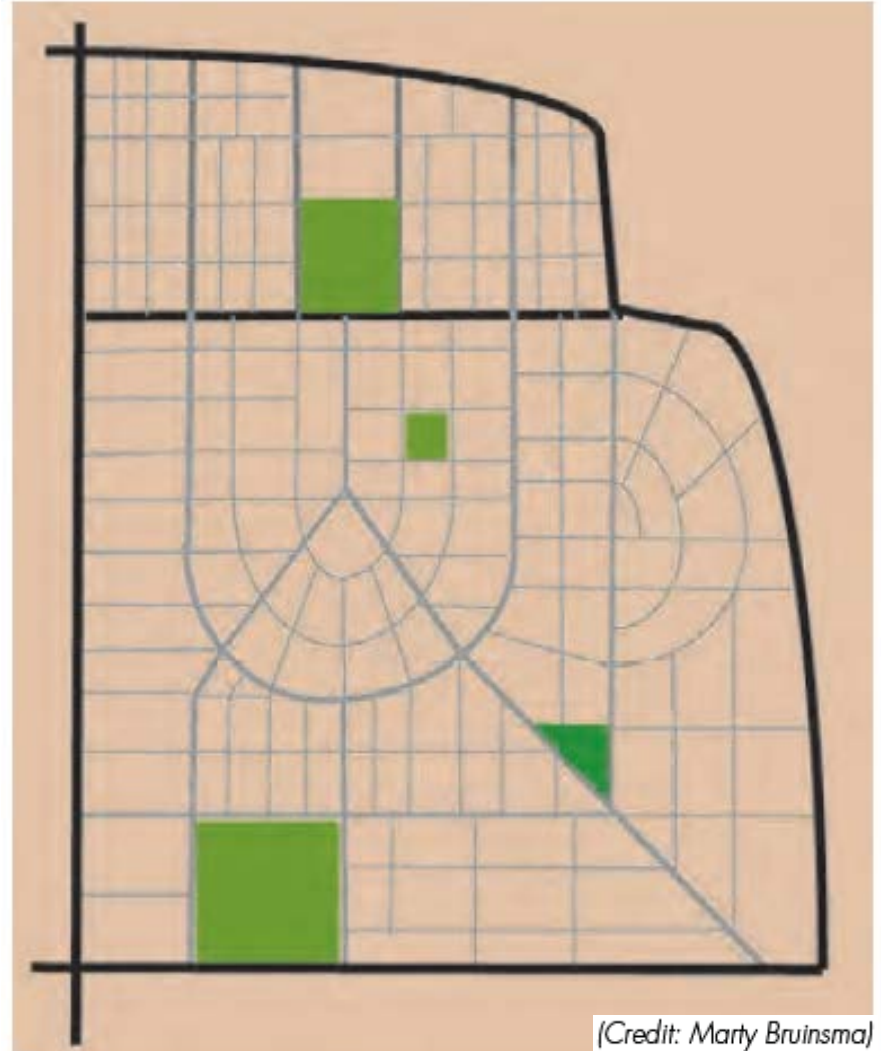
- Creating a new set of benchmarks and performance measures

STREET NETWORKS AND CLASSIFICATIONS

- Sustainable street networks
- Characteristics
- Classifications
- Design standards

Interconnected street network with small blocks

(Credit: Marty Bruinsma)

TRAVELED WAY DESIGN
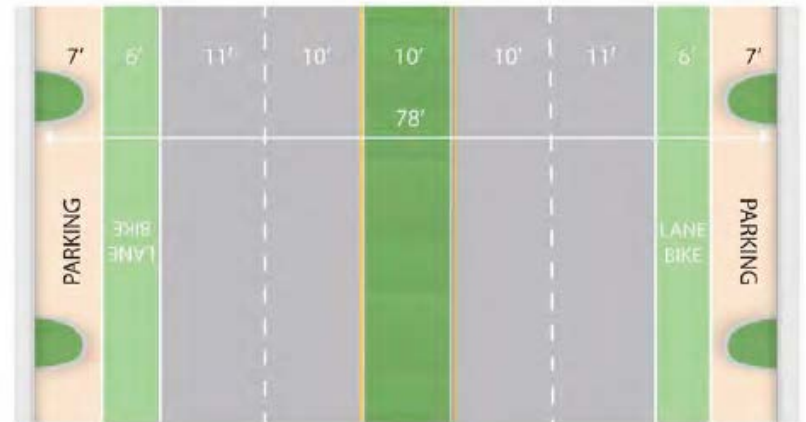
- Factors affecting street design
  - Users
  - Traffic volume
  - Design speed
  - Multi-modal LOS
  - Access

TRAVELED WAY DESIGN

- Cross-sections
  - On-street parking, bicycle facilities, transit facilities, lanes, medians, samples

Geometric designs
  - Vertical and Horizontal alignment, sight distance, horizonal clearance, traveled way lighting
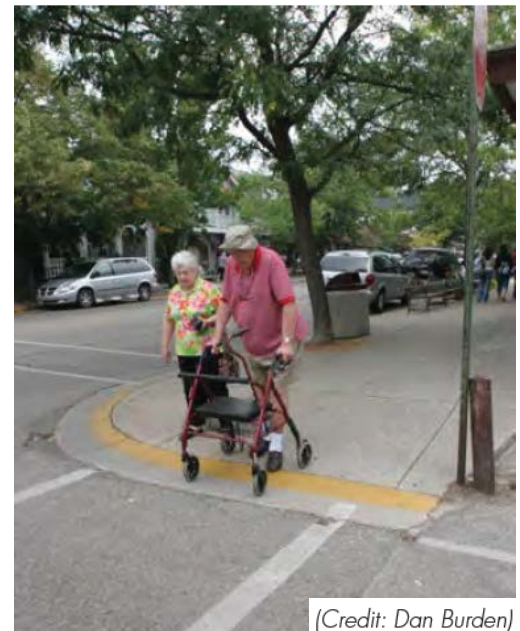
INTERSECTION DESIGN

- Principles of intersection design
- Intersection geometry
  - Intersection skew, corner radii, curb extensions, crosswalk and ramp placement, on-street parking, right-turn channelization
- Yield and Stop-controlled intersections
- Signalized intersection
  - Operation and phasing
- Roundabouts

(Credit: Michele Weisbart)

UNIVERSAL PEDESTRIAN ACCESS

- Users and needs
  - mobility, visual, cognitive impairments, children and adults
- Pedestrian facility design
  - Sidewalks, curb ramps, detectable warnings, signals
- Land use and sidewalk design
  - Residential density, commercial, downtown, offices, public facilities
- Design specifications by roadway type

(Credit: Dan Burden)

PEDESTRIAN CROSSINGS

- Performance measures
- Pedestrian crossing toolbox
- Pedestrian scrambles

Best Practices: Pedestrian Crossings

Intersection Bulbouts
Source: BCHD

Specialty Pavement
Hawthorne Blvd.,
Hawthorne

All-Direction Pedestrian
Scramble Crossing Treatment,
Santa Monica

Crossing Treatments

- Reduce vehicle speeds
- Reduce crossing distances
- Pedestrian comfort

Crossing Toolbox

- Marked crosswalks
- Raised crossing island/medians
- Raised crosswalks
- Curb extensions
- Pedestrian scrambles
- Signs
- Advanced yield
- and more

BIKEWAY DESIGN

- Bikeway types and design
- Implementation
- Topography
- Bicycle stations
- Bicycle channels
- Cycle tracks
- Bike boxes
- Colored pavement

Best Practices: Class II Bike Lanes

Buffered & Colored Lanes (7th Street)
Santa Monica, CA

- Designed to accommodate cyclists
- A dedicated, striped lane
- Special treatments to increase visibility
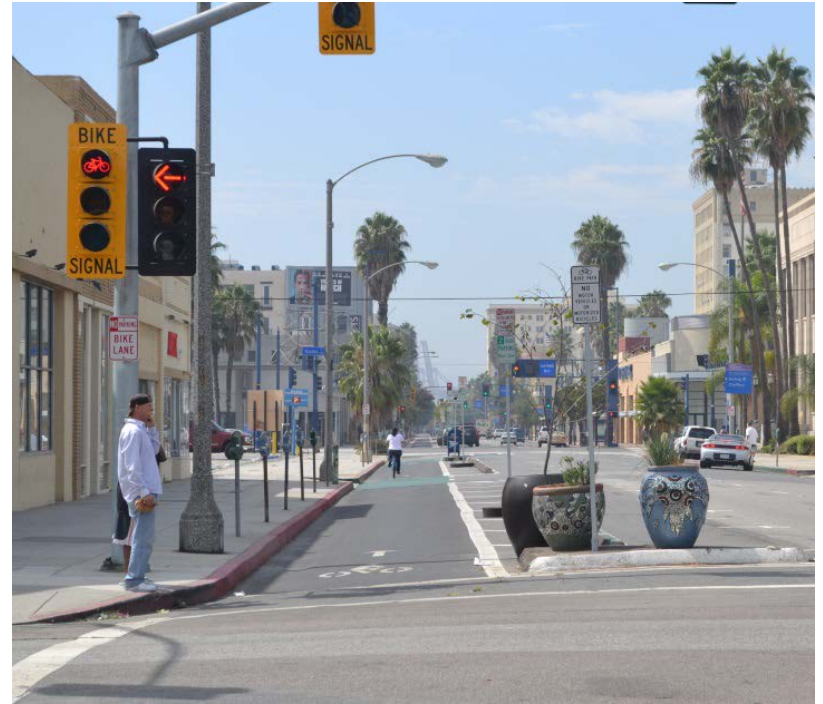
Best Practices: Class III Bike Routes

Bicycle Boulevard
Long Beach, CA

- Shared use with vehicles
- Designate preferred routes
- Identified with signage with or without sharrow markings or colored pavement
- Reminds users to share the road

Best Practices: Class IV Cycle Tracks

Harbor Dr. Cycle Track
Redondo Beach, CA

One-way Protected Cycle Track (3rd St.)
Long Beach, CA

- Dedicated bicycle right-of-way
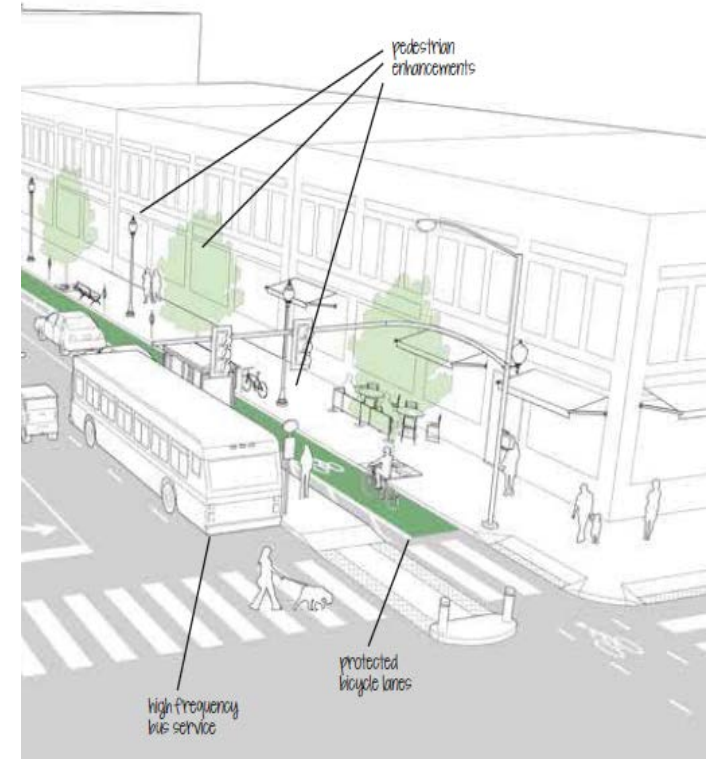- Buffered by some kind of physical barrier

TRANSIT ACCOMMODATIONS

- Access to transit and bus stops
- Bus stop placement
- Signal treatment
- Bus lane and bus bulbs
- Transit-bike conflicts
- Light rail
- Wayfinding

Best Practices: Transit Improvements

Bus Stop Shelter for Big Blue Bus & Next Bus Arrival Sign
Santa Monica, CA

Source: SCAG/NACTO

Bus Stop Amenities

- Bus arrival signs
- Distinctive shelters & seating
- Signage

Bus Stop Islands

- Reduces conflicts between buses and bicyclists

TRAFFIC CALMING

- Safety
- Emergency response
- Policy guidance
- Public outreach

- Planning and design process
  - Understand context, involve and educate stakeholders, align vision, informed consent of plan

Sample of Table 10.1

Can be used by City staff to identify appropriate traffic calming measure to consider

Legend	
	Appropriate
	Appropriate on specific circumstances
	Not Appropriate

Traffic Calming Classification		Framework Street			Framework Street or Non-Framework Street		Non-Framework Street
Conventional Street Classification		Boulevards in Transition (partially calmed)	Regional Boulevard	Community Boulevard	Community Avenue	Neighborhood Avenue	Local Street
Posted/Design/Target/Operating Speed (mph)		35 mph +	25 to 30 mph	20 to 30 mph	20 to 30 mph	20 to 25 mph	20 mph or below
Transition Zone from/to higher speed environment		Yellow	Green	Green	Red	Red	Red
Entrance Features (architecture/landscaping/monument)		Green	Green	Green	Green	Green	Green
Cross-Section Measures	Bulb-outs	Green	Green	Green	Green	Green	Green
	Curb and Gutter	Green	Green	Green	Green	Green	Green
	Curbless / Flush Streets	Red	Green	Green	Green	Green	Green
	Flush Medians	Green	Green	Green	Green	Green	Green
	Pedestrian Scale Lighting	Green	Green	Green	Green	Green	Green
	Street Trees	Green	Green	Green	Green	Green	Green
	Building up to the right-of-way	Green	Green	Green	Green	Green	Green
	Lateral Shifts	Red	Green	Green	Green	Green	Green
	Shared Spaces	Red	Green	Green	Green	Green	Green
	Bike Lanes / Protected Bike Lanes / Cycle Tracks	Green	Green	Green	Yellow	Yellow	Yellow

CHAPTER 10

Lane width reduction

One-lane chicane
(Credit: Ian Lockwood)

Rectangular rapid-flash beacon
(Credit: SPOT Devices)

STREETSCAPE ECOSYSTEM

- Street water management
- Urban forestry
- Street furniture
- Utilities
  - Lighting

Best Practices: Streetscape Improvements

Landscaped Roundabout,
Redondo Beach, CA

Public Art,
Redondo Beach, CA

Wrapped Utility Boxes
Hermosa Beach, CA

Landscaping

- Interest & aesthetics
- Reduce heat island effect
- Capture storm water

Street Amenities

- Makes roadways more attractive places to walk, shop, or exercise
- Lighting/safety

Best Practices: Streetscape Improvements

Tree-Lined Street,
Santa Monica, CA

Wayfinding on Culver Blvd.,
Culver City, CA

Shade Trees

- Pedestrian comfort
- Reduce heat island effect
- Capture storm water

Wayfinding

- Important local destinations
- Establish a sense of place

GATHERING PLACES

- Public space
- Strategies to re-place streets
- Placemaking for streets

CHAPTER 13

LAND USE ALONG LIVING STREETS

- Streetscape environment types
- Implementation strategies
- Health and land use

Best Practices: Adjacent Uses

Land Uses Facing the Street
Manhattan Beach, CA

Integrating Gardens
Manhattan Beach, CA

Streetwall

- Buildings face the street
- Surface parking lots can be relocated to the rear

Activating the Street

- A mix of uses & ground floor uses interact with the street creates interest & walkability

RETROFITTING SUBURBIA

- Transforming suburban streets to living streets
- Re-establishing street network
- Setting priorities and phasing

(Credit: Google Maps)

COMMUNITY ENGAGEMENT FOR STREET DESIGN

- Essential Principles of Community Engagement
  - Develop a plan
  - Accept Responsibility
  - Start with shared values
  - Build understanding
  - Broaden stakeholders
  - Foster cultural competence
  - Emotional connections
  - Two-way conversation
  - Achieve informed consent
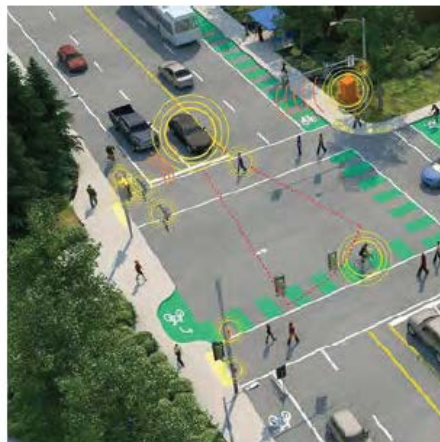 - Carry momentum
- Outreach for the manual

CONSENSUS BUILDING
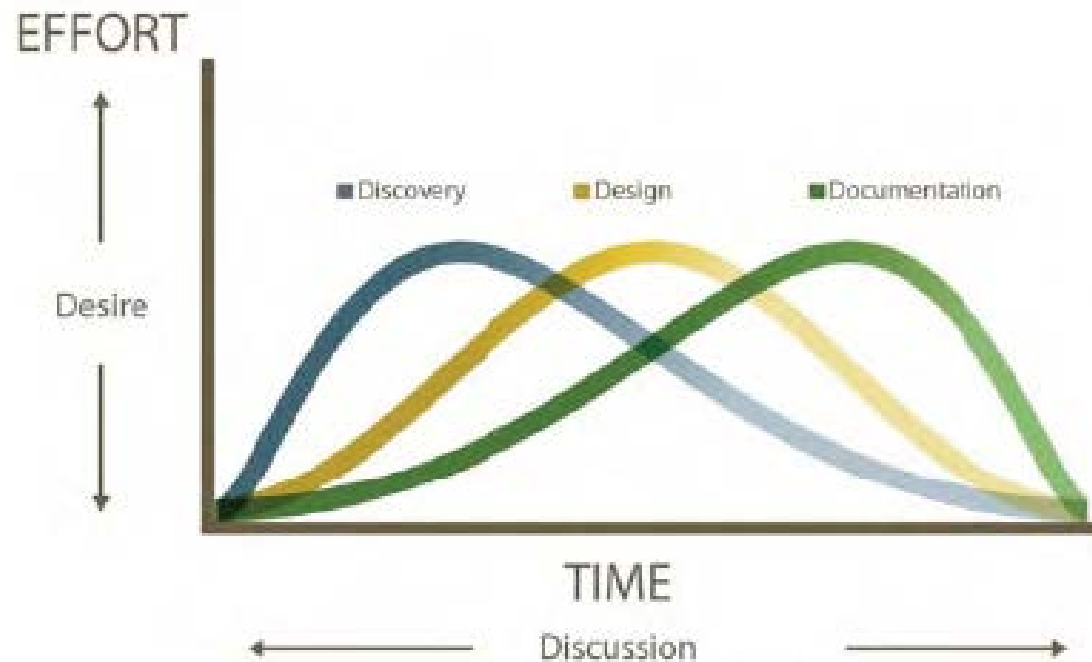
Steps of an informed consent process

(Credit: Michele Weisbart, adapted from Ian Lockwood)

EMERGING TECHNOLOGIES

- Shared mobility services
- Transportation network companies
- Car share
- Bike share
- Autonomous vehicles
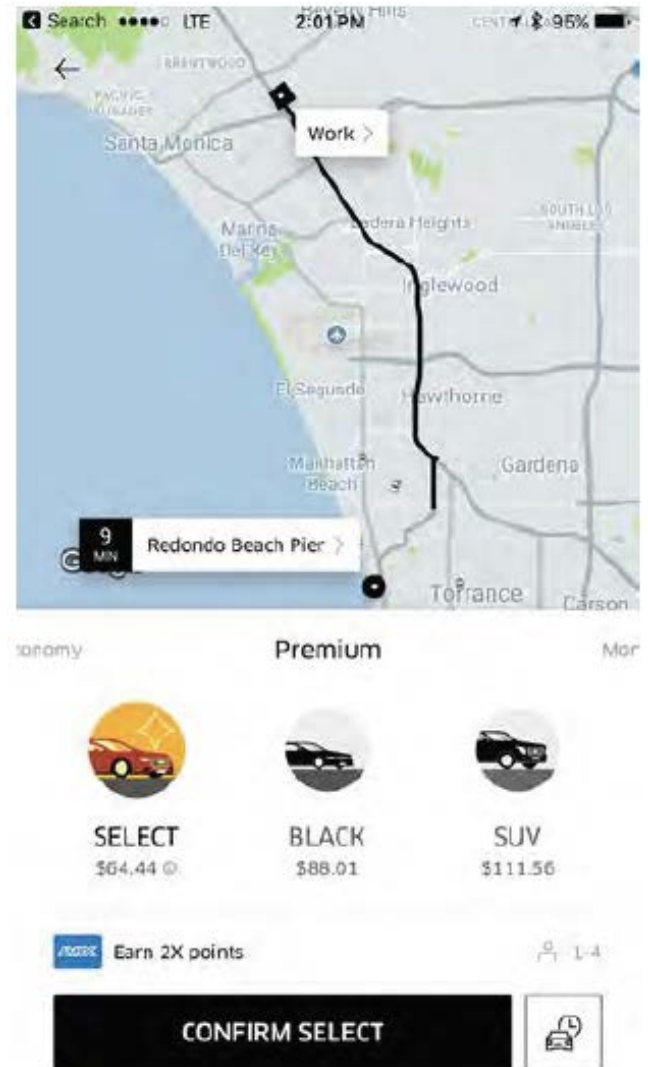
Beach Cities Specific Chapter

- Beach Cities Shared Issues and Challenges

- City-Specific Living Streets Issues and Policies

AVIATION BOULEVARD

- Potentially desirable route

- Alternatives generated a divided response

- Each city needs to decide what is best for it

- Living Street Guide may be helpful for this street or any other street in the communities

- Living Streets Guide does not commit any city to any specific project but helps to identify options for all streets

AVIATION BOULEVARD TODAY
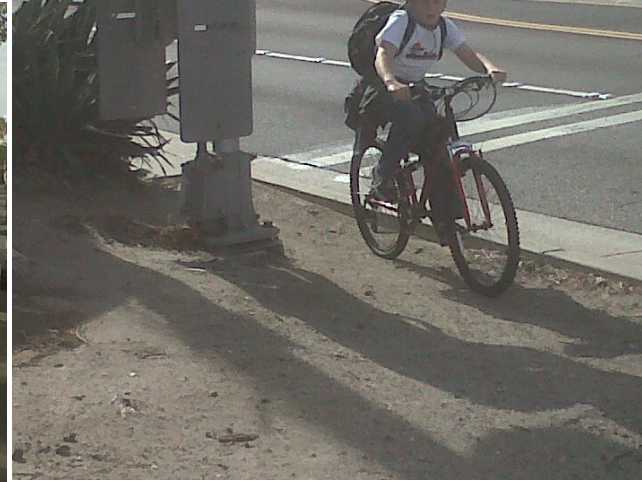
USE OF THE MANUAL

- **INTENDED AUDIENCE**
- **INTENDED USES**
  - Grant applications
  - Budget planning
  - Land use decisions
  - General Plan update
  - Street projects
  - Capital improvement projects
  - Active transportation projects

FUNDING

PLANNING STAGE

- SCAG Sustainable Communities Program
- Caltrans Transportation Planning Grant Program

CONSTRUCTION STAGE

- South Bay Cities Council of Governments
- Measure M
- Active Transportation Program
- Senate Bill 1 (SB 1)

NEXT STEPS

- Customized Living Street Design Manual to be independently approved at the City level

- With approval, each city can use the manual as a tool guiding document for land use and infrastructure decisions
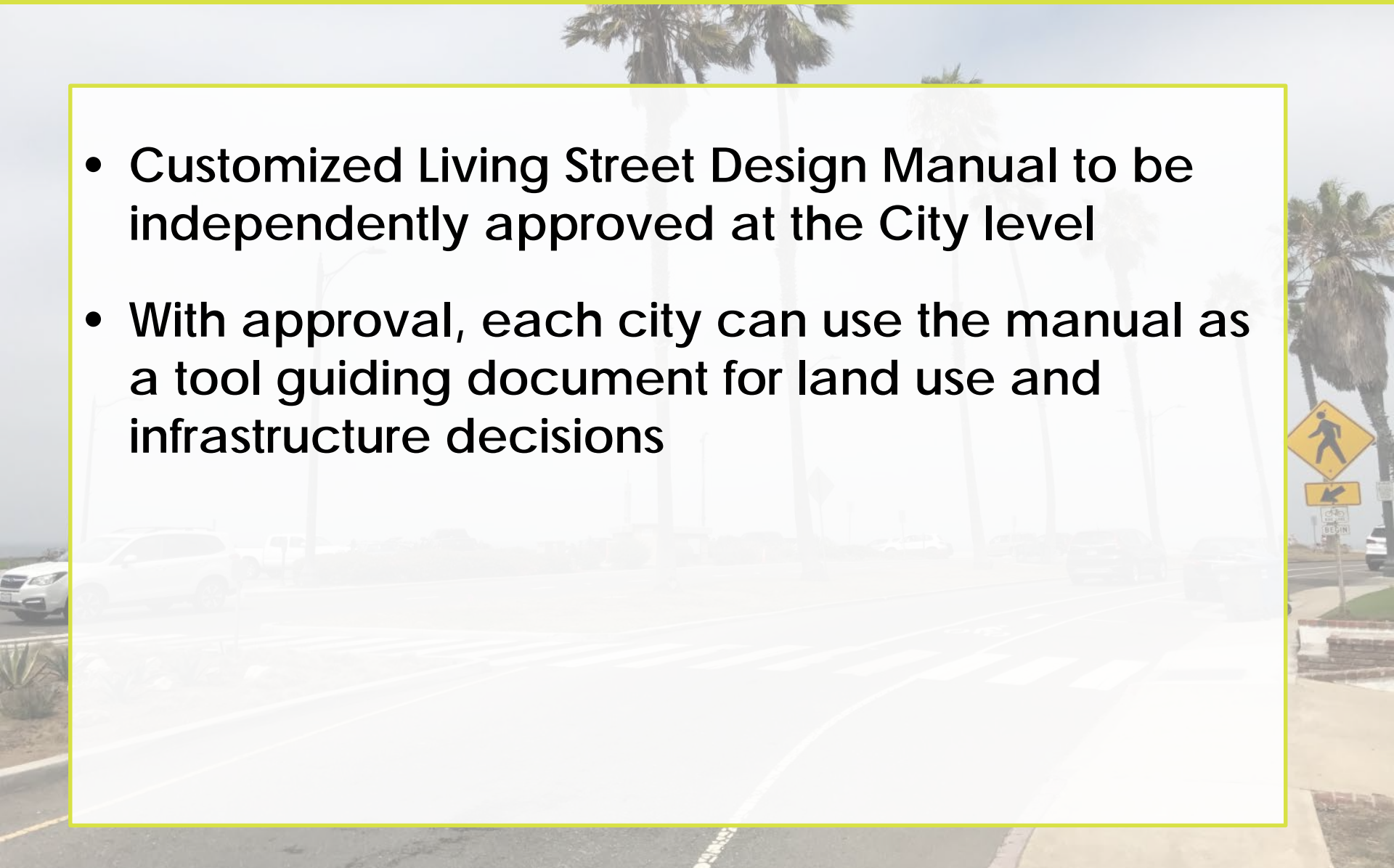
MOVING FORWARD

- Citizen engagement

- Funding opportunities/Leverage funding

- Concept refinement

- Further council action and collaboration

QUESTIONS