

How U.S. Cities are Moving the Needle

Western Places | Western Spaces Rocky Mountain Land Use Institute Denver, CO March 6, 2020



PRESENTER

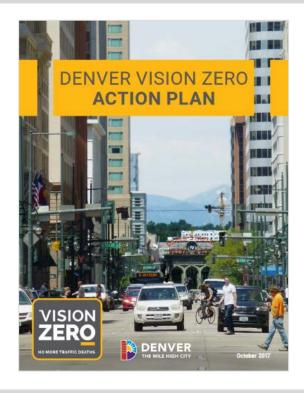


JESSICA
FIELDS
PE, AICP

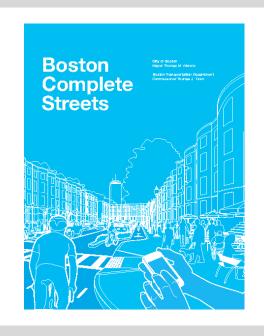
Toole DesignDenver Office Director

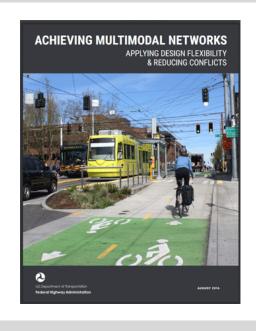
TOOLE DESIGN EXPERIENCE



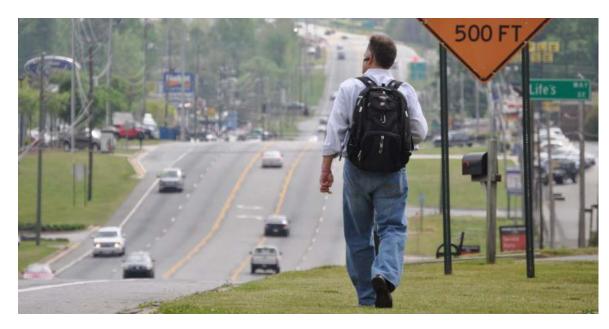




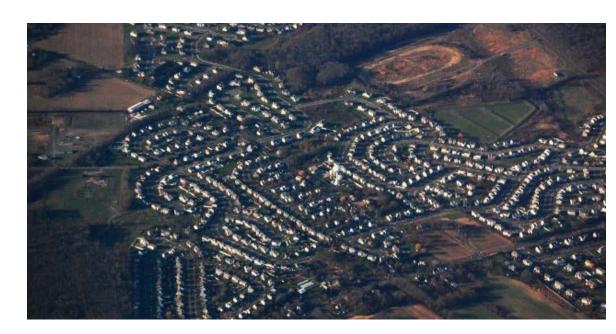




U.S. CONTEXT: CAR CULTURE



Source: Smart Growth America

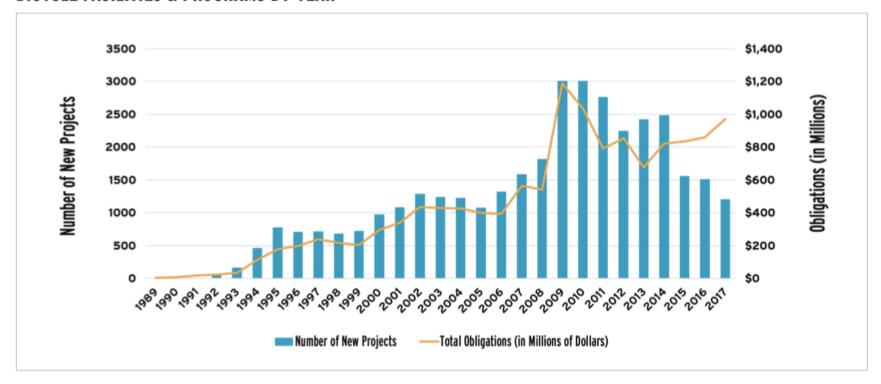


Source: Rebecca Wilson, Flickr

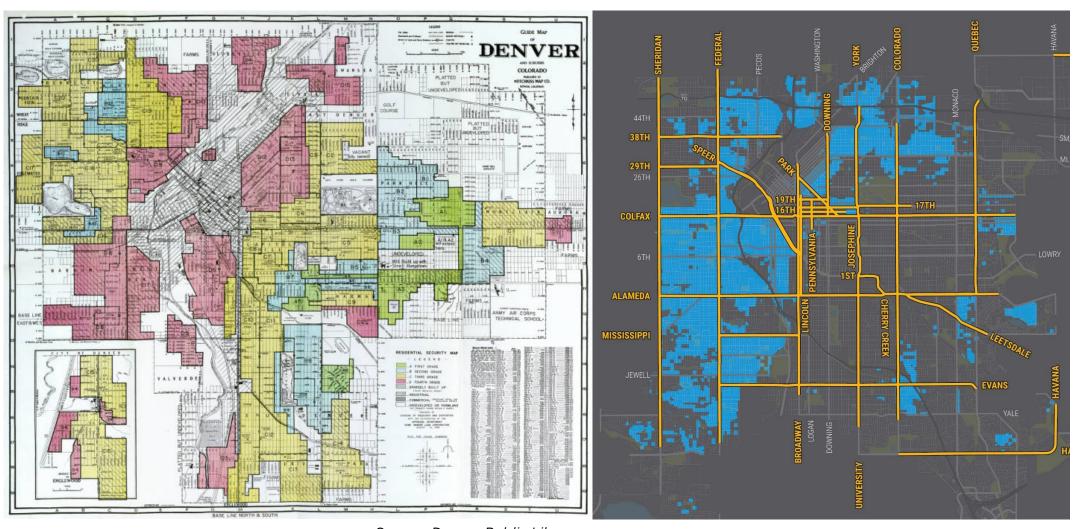
U.S. CONTEXT: INVESTMENT

Federal Funding for Bicycling & Walking Infrastructure **

FIGURE 1.5.1 - # OF PROJECTS & TOTAL OBLIGATIONS TO PEDESTRIANS & BICYCLE FACILITIES & PROGRAMS BY YEAR

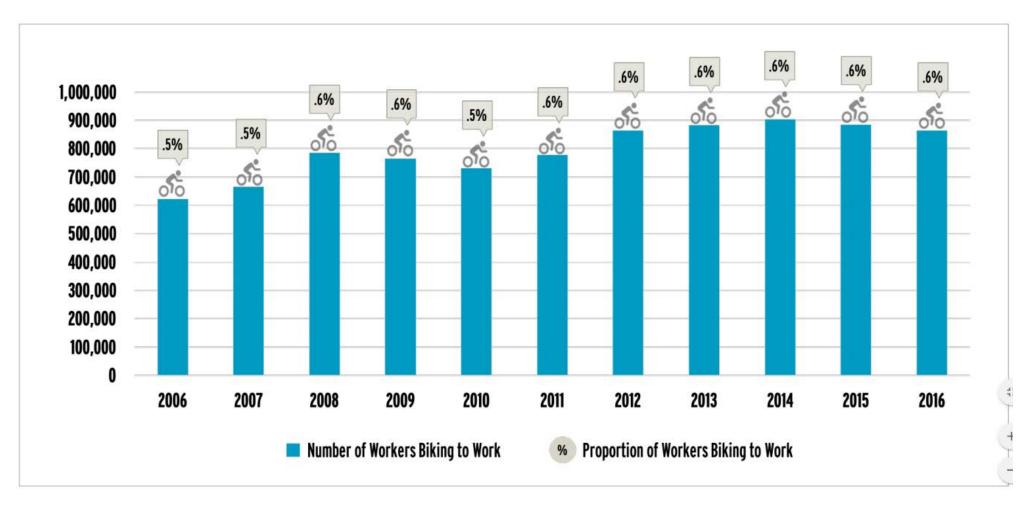


U.S. CONTEXT: SEGREGATION



Source: Denver Public Library

AMERICANS BIKING TO WORK

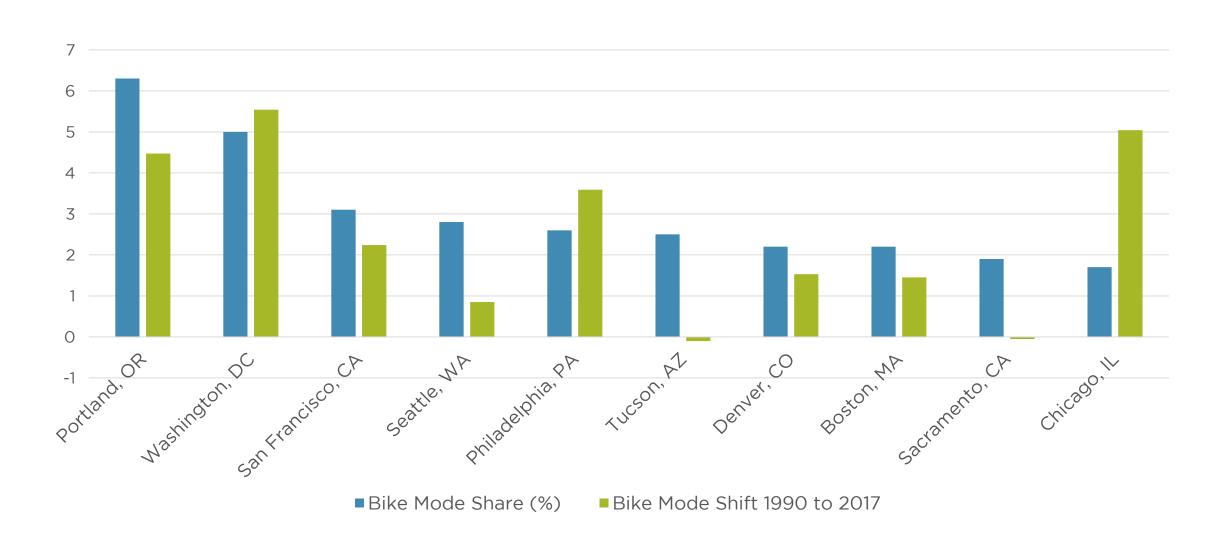


SAFETY INEQUITIES

According to data from the CDC, compared to white bicyclists, the fatality rate was 23% higher for Hispanic and 30% higher for African-American riders.

Source: League of American Bicyclists

STANDOUT CITIES





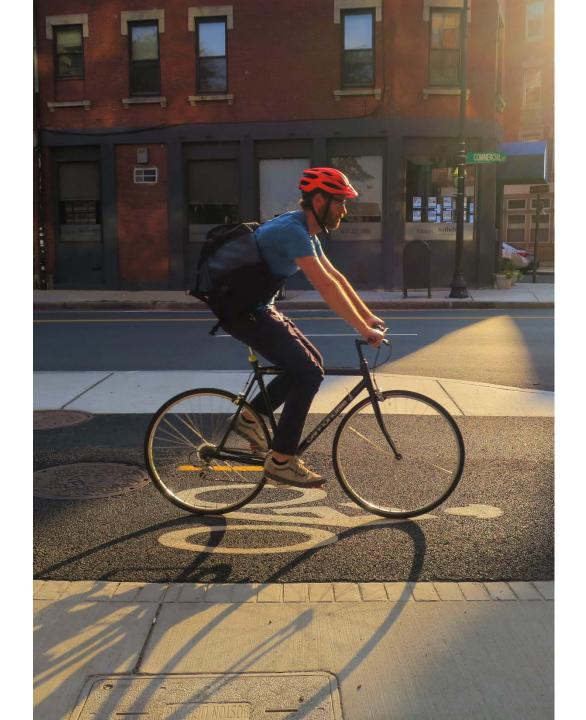
HIGH-COMFORTDESIGN

QUICK-BUILD NETWORKS

3 MULTIMODAL INTEGRATION

4
STRATEGIC
POLICIES





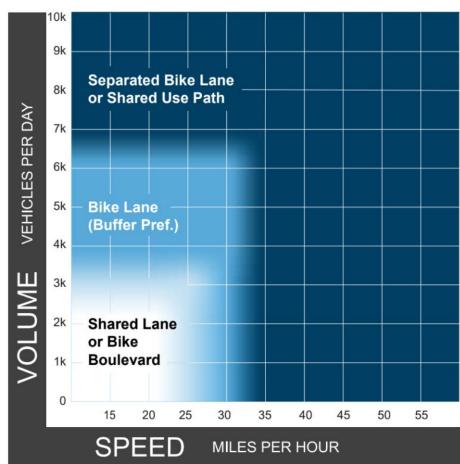
HIGH-COMFORT DESIGN





lower stress tolerance

higher stress tolerance

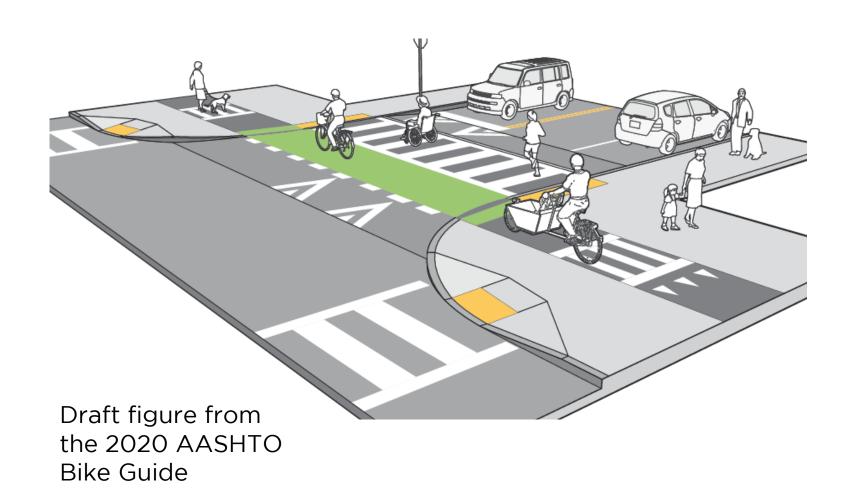




RAISED CROSSINGS

Raised crossings had 50% crash reduction

(Schepers, J. P.; Kroeze, P. A.; Sweers, W.; Wüst, J. C. 2011)



PROTECTED INTERSECTIONS



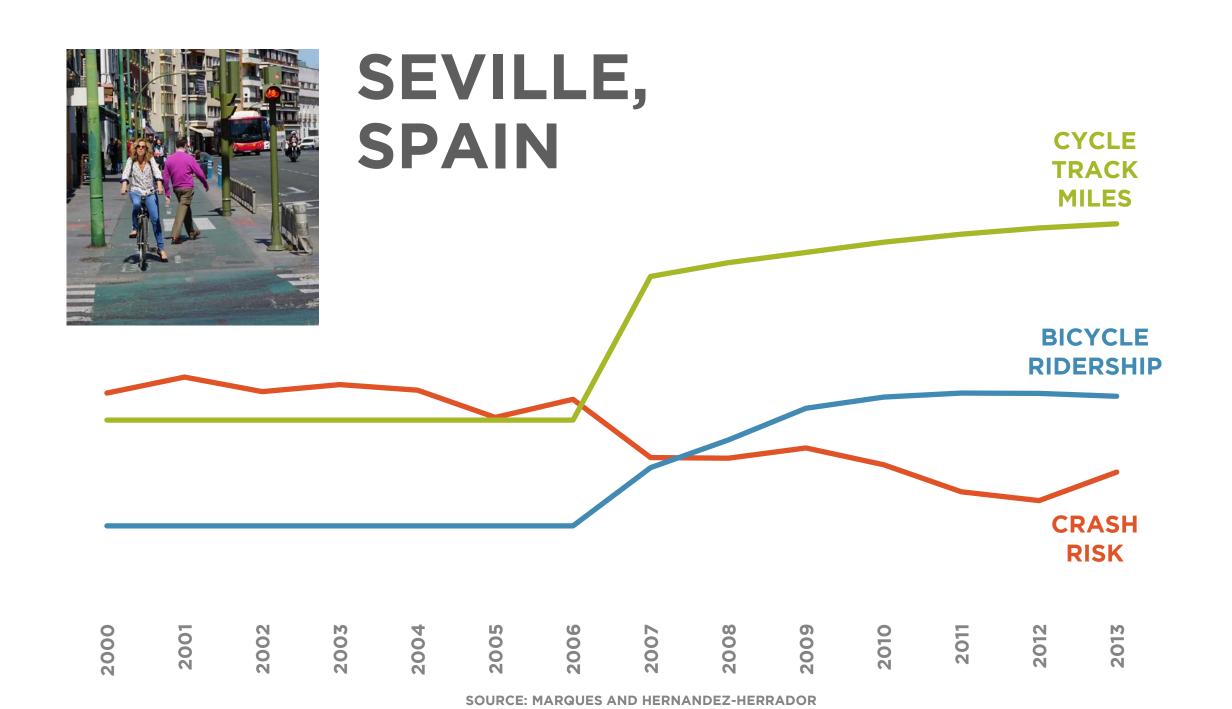
Draft figure from the 2019 AASHTO Bike Guide







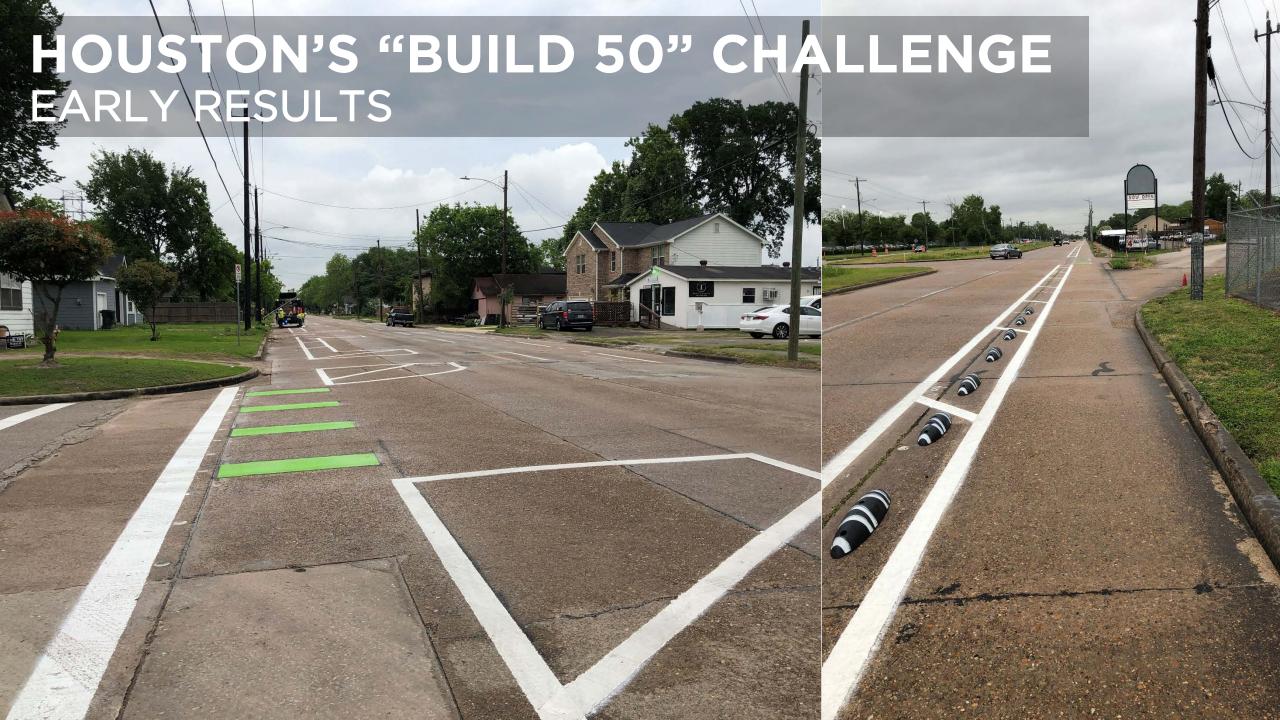
QUICK-BUILD NETWORKS



NORTH AMERICAN EXAMPLES

CALGARY **EDMONTON HOUSTON NEW ORLEANS PROVIDENCE DENVER**

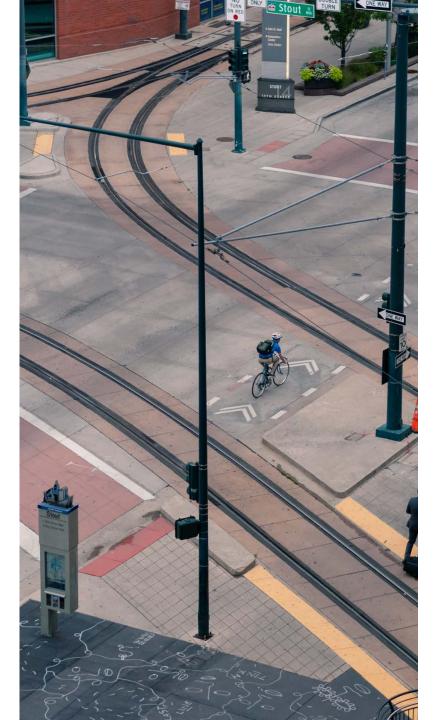






NEW ORLEANS





3

MULTIMODAL INTEGRATION

Introduction

Vision

Chapter 1

Street Types

Chapter 2

Sidewalks

Chapter 3

Roadways

Chapter 4

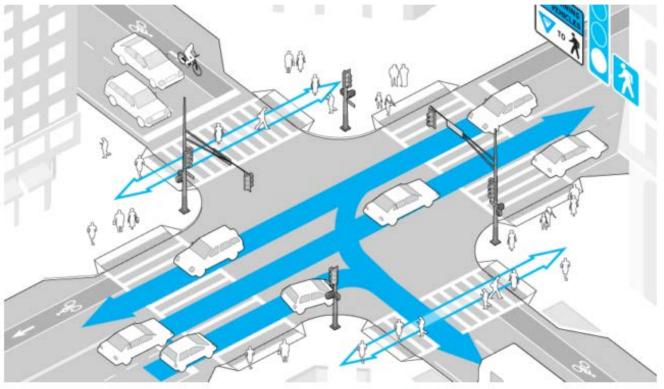
Intersections

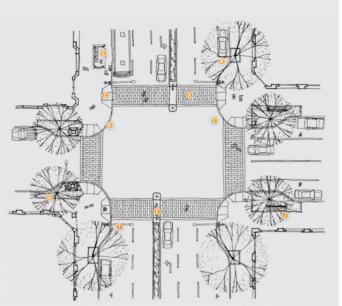
Chapter 5

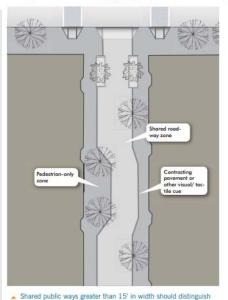
Smart Curbsides

Chapter 6

Implementation







between pedestrian-only and shared zones through contrasting

paving or other measures

& Boston Complete Streets

Credit: SF Better Streets



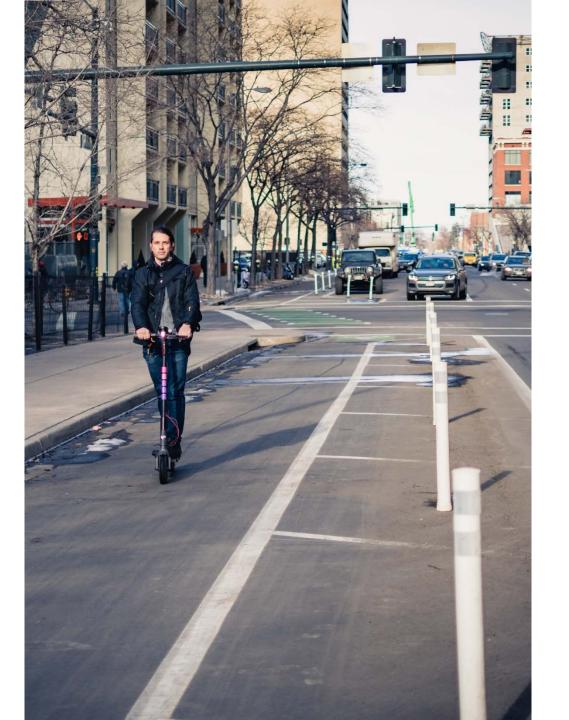
2ND AVENUE SEATTLE, WA



2ND AVENUE SEATTLE, WA







STRATEGIC POLICIES

REQUIRING BIKEWAYS

CAMBRIDGE, MA

Cambridge passed a first-of-it-kind ordinance mandating protected bike lanes as part of roadway reconstruction.

B Editorials

EDITORIAL

A bike lane program to emulate



DAVID I BYAN/GLOBE STAFF/FILE 201

The Cycling Safety Ordinance requires the city to add permanent separated bike lanes when doing reconstruction of certain roads.

APRIL 14, 2019

In five or 10 years, bicyclists in Cambridge may marvel at a comprehensive network of bike lanes on city streets and the foresight of their city government. Or they may pay little mind to history and just pedal by, taking for granted that protected lanes for bikes (and probably by then, scooters) were always there.





KEY TAKEAWAYS



Focus on the MOST IMPORTANT ELEMENTS of HIGH-COMFORT DESIGN.



If given the chance, BUILD YOUR NETWORK QUICKLY.





Institute
POLICIES that
ALIGN WITH
YOUR GOALS.

