

Re-shaping Urban Environments for Disruptive Transport



March 26, 2019
CM | 1 (live viewing only)

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Interested in sponsorship for 2019-2020? Contact Karla Ebenbach (kebenbach@yahoo.com)



Division Information

Contact

Website: planning.org/divisions/sustainable

Blog: sustainableplanning.net

LinkedIn: APA Sustainable Communities Division

Facebook/Twitter: APASCD

Email: APASCD@gmail.com



We're having a Celebration!

<https://npc19.eventbrite.com>



APA NPC 19

Multi-division & chapter reception



+



NATIONAL
CAPITAL
AREA
CHAPTER

Sunday, April 14, 2019 (5:30 - 7:30 PM)

SPUR Urban Center | 654 Mission Street
(located about 2 blocks from the conference center)

\$10 Entrance Fee (fee includes 2 drink tickets)

Sponsored By:

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Additional sponsorship opportunities are available. Please contact your division or chapter leadership for details.



Today's Event

Re-shaping Urban Environments for Disruptive Transport

William (Billy) Riggs, Ph.D., AICP, LEED AP | Professor,
University of San Francisco School of Management

Michael V. Johnson, PLA, ASLA | Director of Urban Design,
SmithGroup



Re-Shaping Urban Environments for Disruptive Transport

APA SCD Webinar

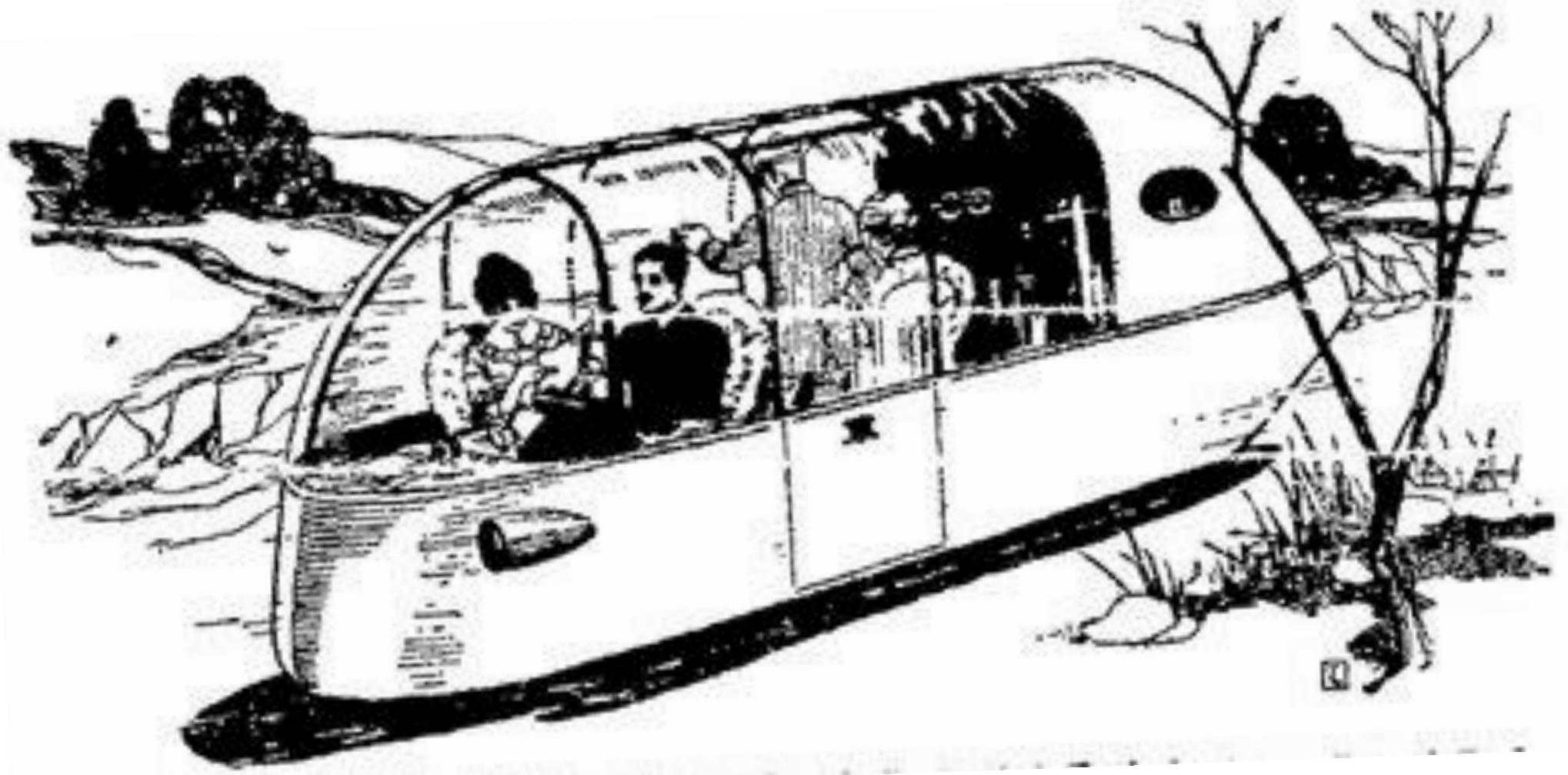
Tuesday, March 26, 2019

William Riggs, PhD, wriggs@usfca.edu | @billyriggs

Michael Johnson, michael.johnson@smithgroup.com | @johnsonmichaelv













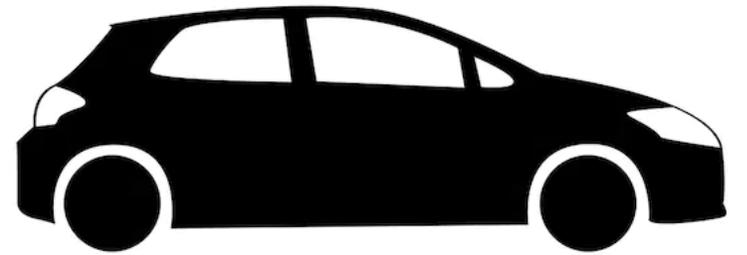
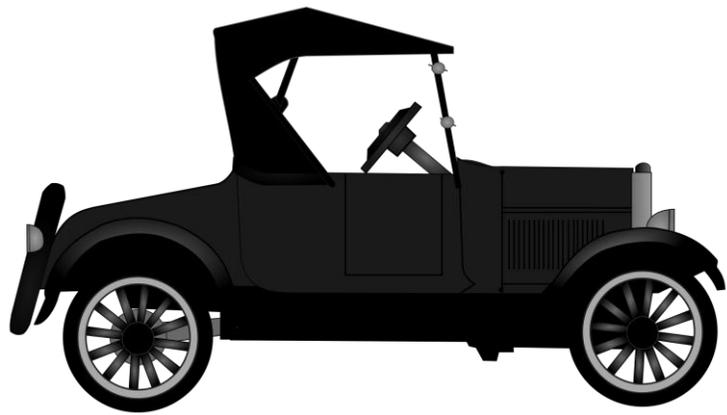


Company	Level 3 Availability	Level 4/5 Availability	Shared / Fleet	Notes / Sources
BMW	2021	2025	Y	Shared at first. Partnership with Intel and Mobileeye
Ford	2021	TBD	Y	Potential partnership with Waymo or Lyft
Fiat-Chrysler	2021	TBD		Potential partnership with Waymo or Lyft
GM	2018	TBD		Partnership with Lyft
Hyundai	2020	TBD		Level 3 (highway capable) by 2020
Tesla	2017	2020	N	Claims level 3 with autopilot and level 4 achieved without LiDAR
Waymo	2020	TBD	Y	May develop vehicles independently



A vehicular
evolution







How might the auto evolve?

JACK STEWART TRANSPORTATION 11.09.17 07:00 AM

UBER'S PLAN TO LAUNCH FLYING CARS IN LA BY 2020 REALLY COULD TAKE OFF

SHARE

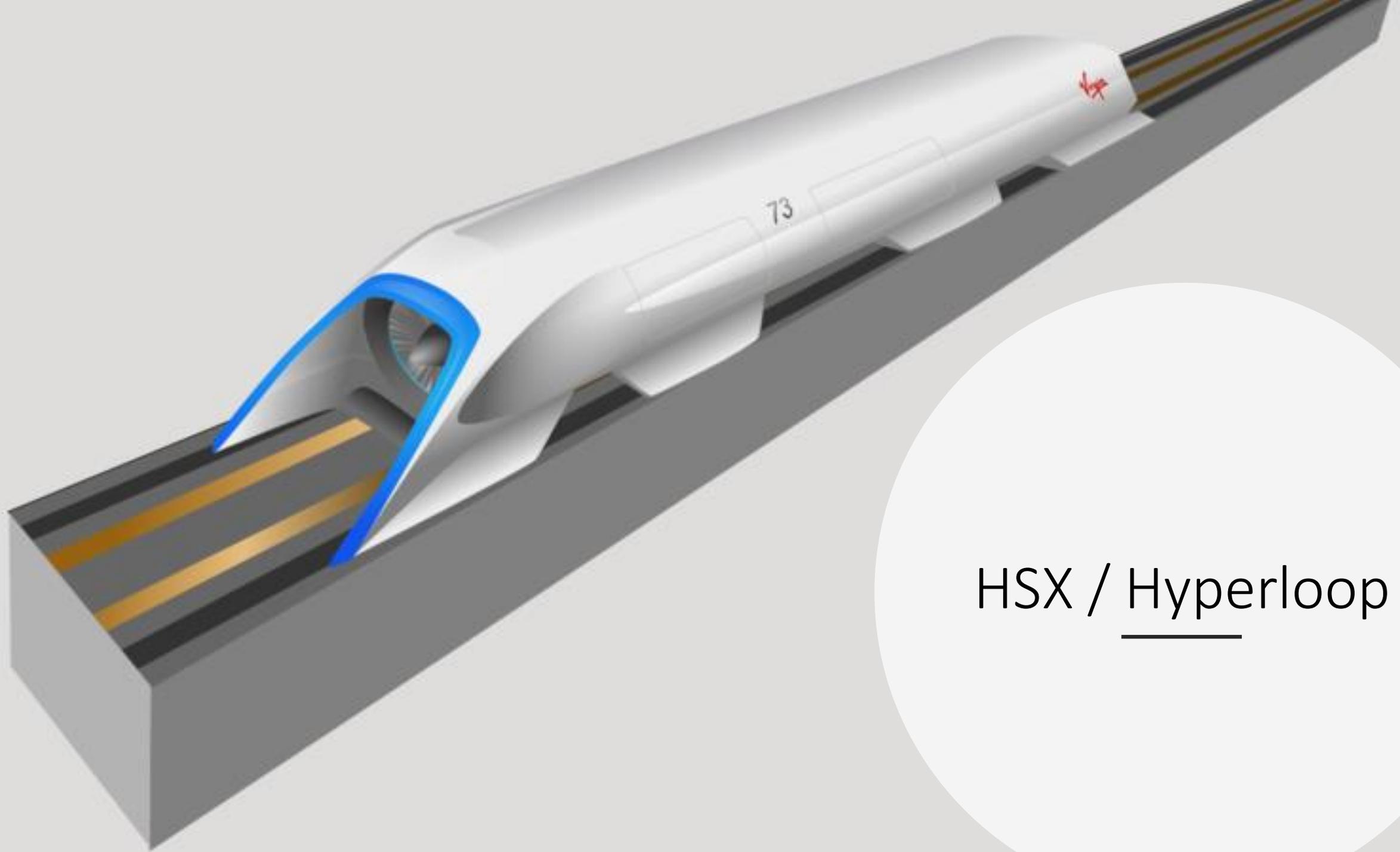
f SHARE 1155

TWEET

COMMENT

EMAIL





HSX / Hyperloop



A revolution that's not just |
about the car |



What will autonomous
vehicles
mean to our
communities?

FUTURE OPPORTUNITIES-OPTIMISTIC PERSPECTIVES



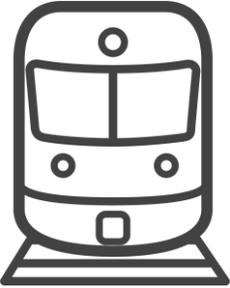
LESS VEHICLE OWNERSHIP



EXPENSIVE AVS/MORE SHARED



LESS COMMODITIZATION



LESS VMT



MORE ACCESSIBLE REGIONS



REDUCED INFRASTRUCTURE



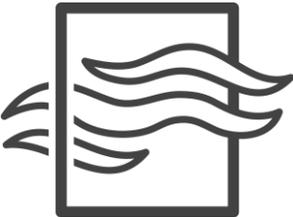
REDUCED PARKING



MORE TIME FOR LEISURE



MORE TIME FOR HUMAN CONNECTIVITY



IMPROVED AIR QUALITY

POTENTIAL CHALLENGES-PESSIMISTIC VIEWS



MORE VEHICLE OWNERSHIP



CHEAP AVS/LESS SHARED



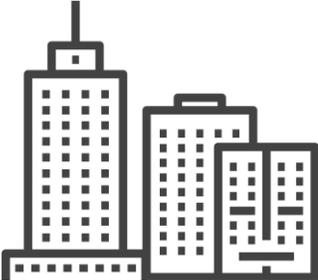
CAR = ULTIMATE COMMODITY



MORE VMT



MORE SPRAWL



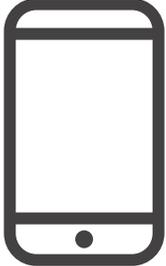
SIMILAR INFRASTRUCTURE



SIMILAR PARKING



MORE TIME FOR WORK



MORE SOCIAL DISCONNECTION VIA DIGITAL DEVICES







Impact	Expected Net Impact
Traffic Safety	+
Air Quality (Emissions)	+/-
Reduction in Travel Stress	+
Use of Active Modes of Transportation	+/-
Improved Mobility for Transportation Disadvantaged Populations	+
Health Equity	-



Planning & Design

A market-driven spatial evolution

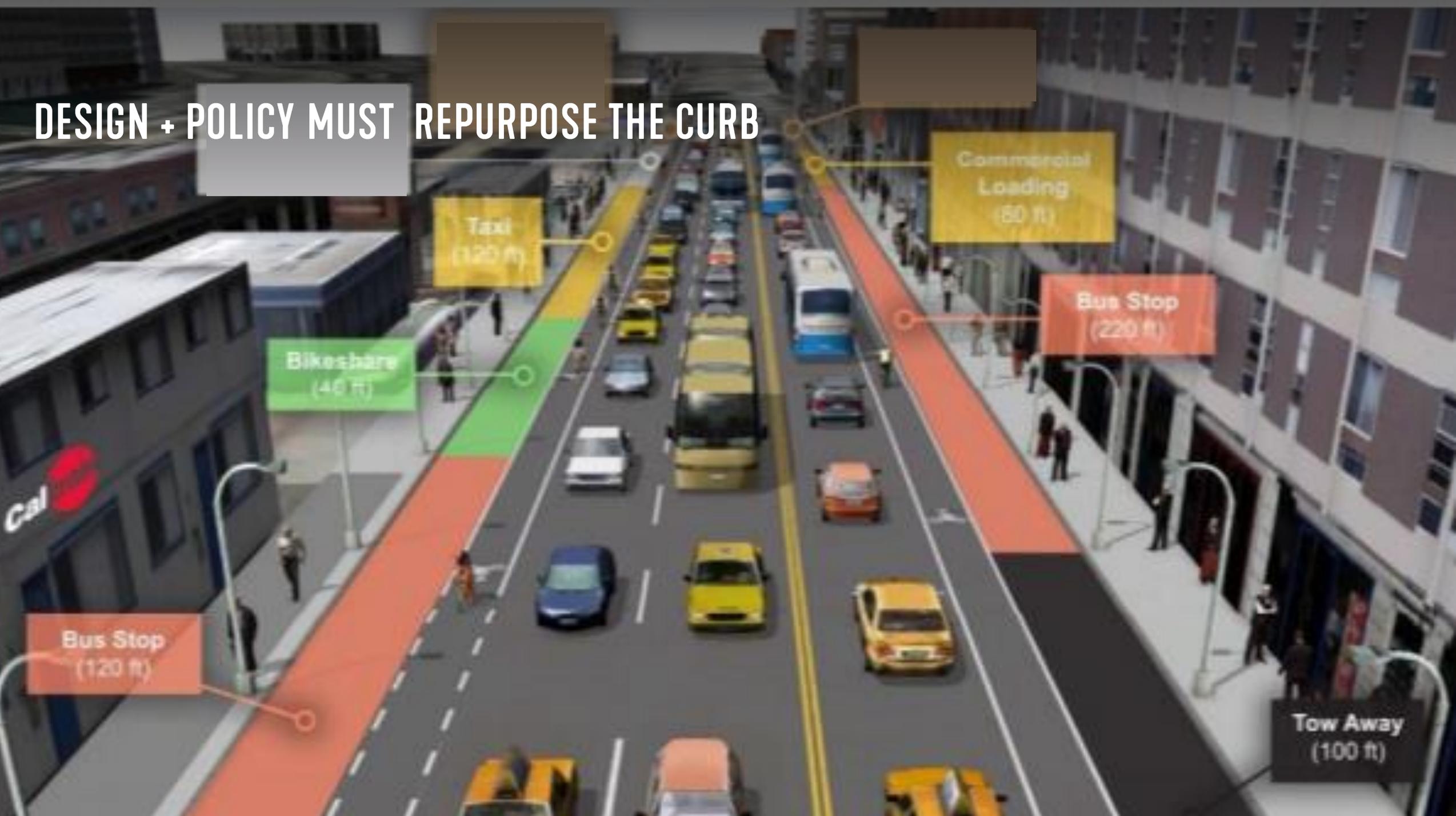
WE MUST ADVANCE POLICY RAPIDLY



DESIGN + POLICY MUST: LEAD WITH AUTONOMOUS MASS TRANSIT



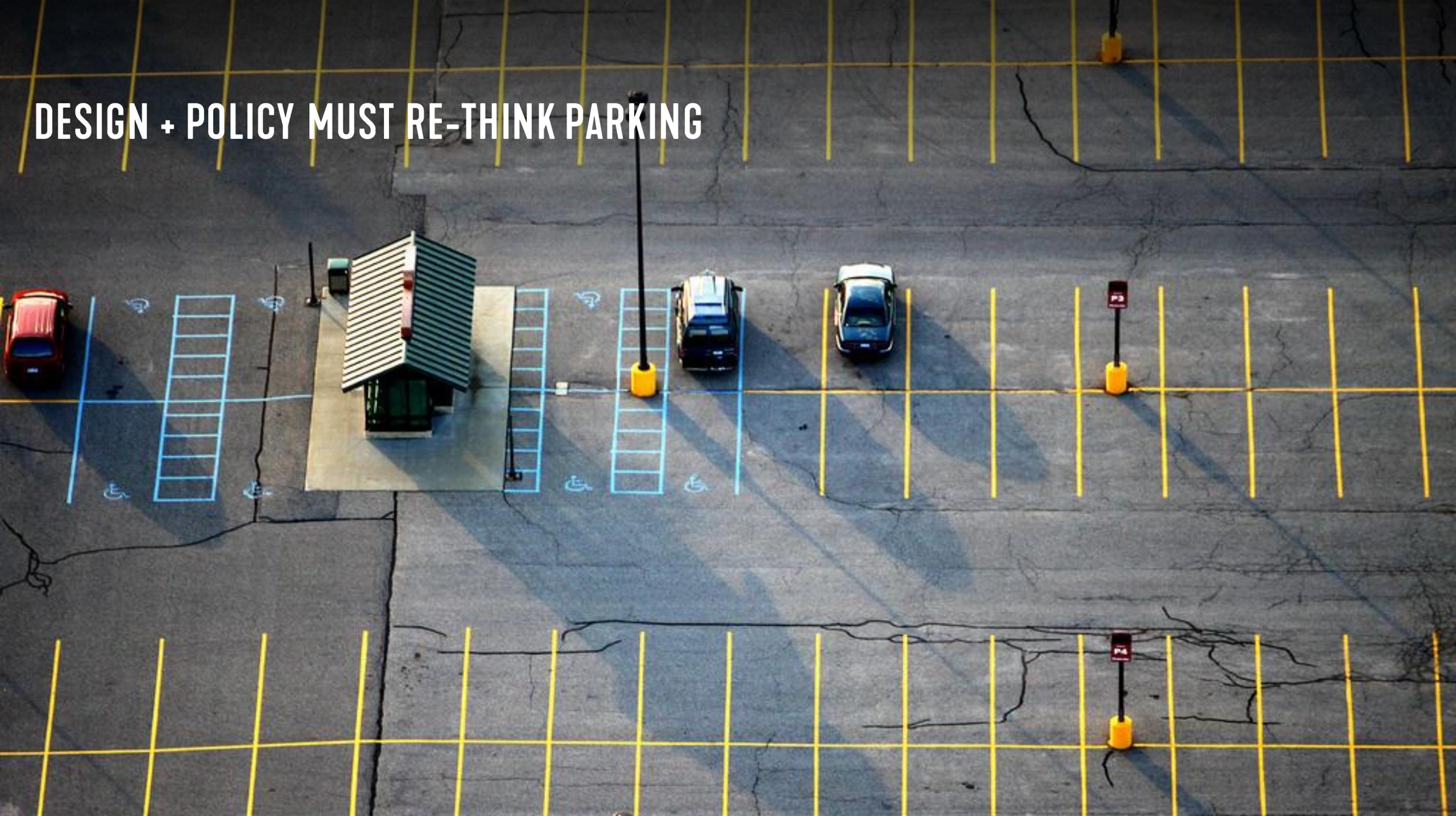
DESIGN + POLICY MUST REPURPOSE THE CURB



DESIGN + POLICY MUST IMPLEMENT CONGESTION POLICIES



DESIGN + POLICY MUST RE-THINK PARKING



DESIGN + POLICY MUST REPURPOSE SPACE FOR PEDESTRIANS



DESIGN + POLICY MUST EMPHASIZE IMPROVED HUMAN HEALTH



nyc.gov/visionzero



DESIGN + POLICY MUST LEAD + PARTNER WITH TECHNOLOGY



DESIGN + POLICY MUST INCLUDE CREATIVE LAND USE POLICIES

DETROIT DESIGN 139

DETROIT DESIGN 139 presents a UNESCO City of Design bi-annual exposition that will showcase relevant projects being completed in the City of Detroit. Structured around the targeted neighborhood frameworks identified by the City of Detroit Planning Department, the expo will establish a collective city-wide vision for innovative land-use planning, green infrastructure, creative reuse of existing buildings and architectural design excellence for all of Detroit's 139 square miles.

For thirty days in September and October, the DETROIT DESIGN 139 exposition will be headquartered in a 'storefront' at 1001 Woodward Avenue, centrally locating a coordinated series of design advocacy initiatives that will include an exhibition, lectures, events, and tours. Providing an open, inviting 'storefront' for this collection of design initiatives will ensure that all of Detroit's communities impacted by these projects are integral to the conversation and ultimately drive future design outcomes.

The DETROIT DESIGN 139 exposition will channel the experience of local, national and international professionals towards resolving current city-wide challenges and identifying future opportunities, with the underlying objective of establishing Detroit as a destination for world-class, design excellence.

MIX-TAPE ZONING

A Zoning Handbook for Detroit's Commercial Corridor

Detroit Design 139 is an architecture advocacy platform that promotes thought-leadership design initiatives focusing on Detroit's future built and natural environment. As organized by the City of Detroit and Bedrock, the Detroit Design 139 collaborative is the advisory board currently comprised of members from the City of Detroit Planning Department, Bedrock, University of Michigan Taubman School of Architecture, AIA Detroit, Detroit Creative Corridor Center, University of Detroit School of Architecture, and the Detroit Riverfront Conservancy.

MIX-TAPE ZONING

DRAFT AUG 22 2017

A Zoning Handbook for Detroit's Commercial Corridor

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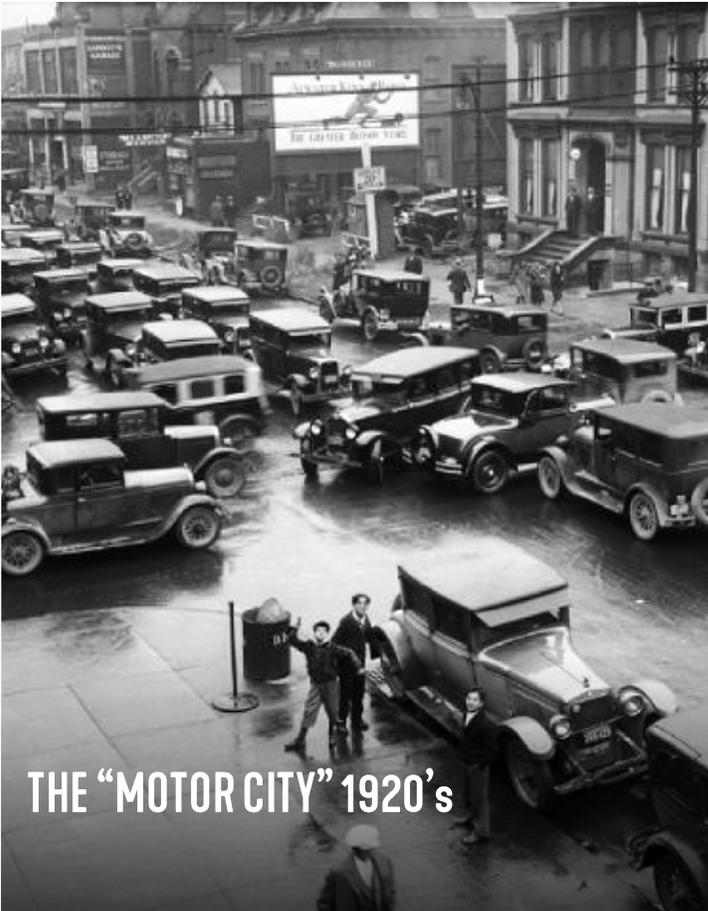
CITY OF DETROIT RECLAIMING PUBLIC RIGHT-OF-WAY



CITY OF DETROIT RECLAIMING PUBLIC RIGHT-OF-WAY



CITY OF DETROIT, MICHIGAN



THE "MOTOR CITY" 1920's

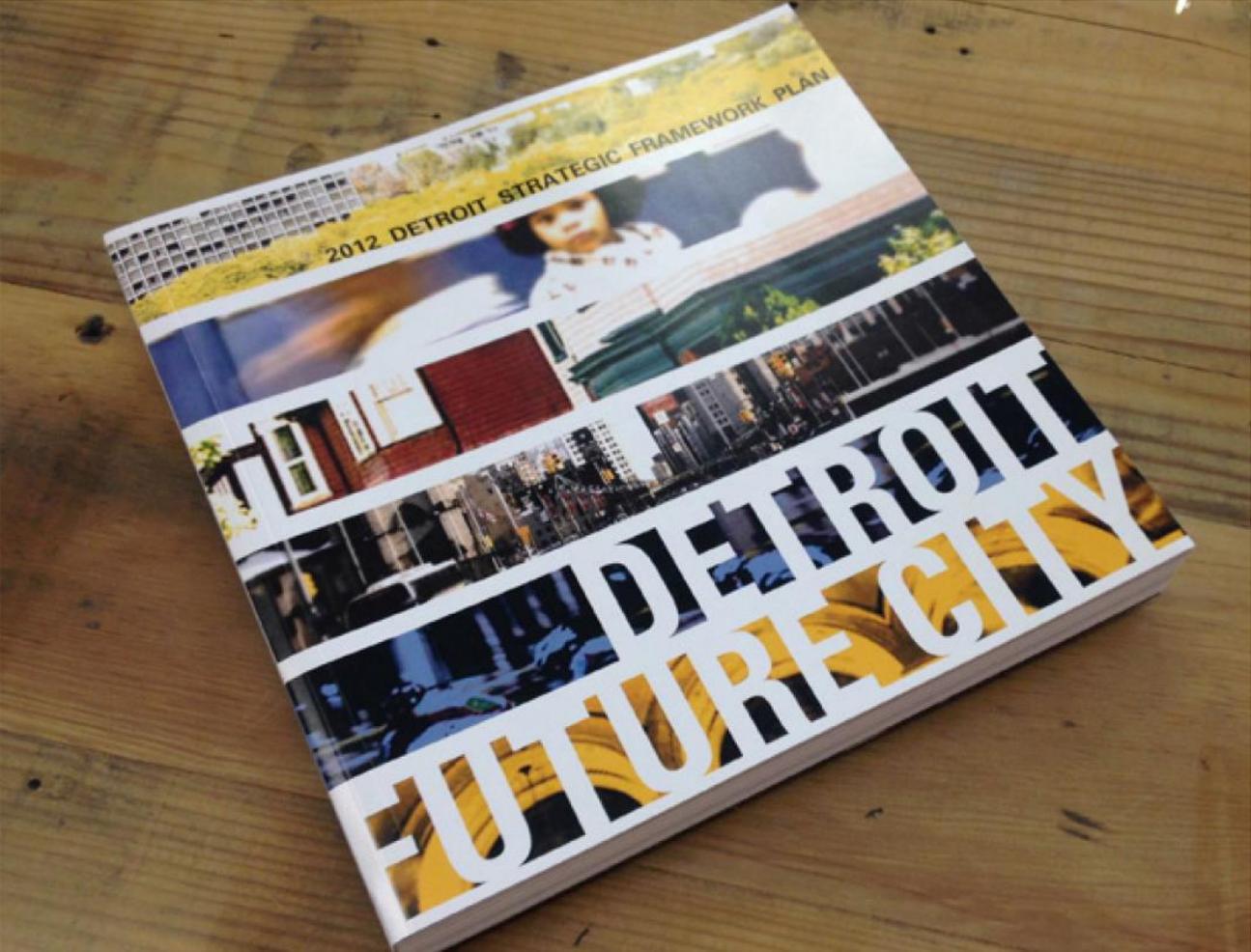


A CITY OF VACANT PARKING, 1990's



MULTI-MODAL LEADER, TODAY

DETROIT FUTURE CITY—MASTER PLAN



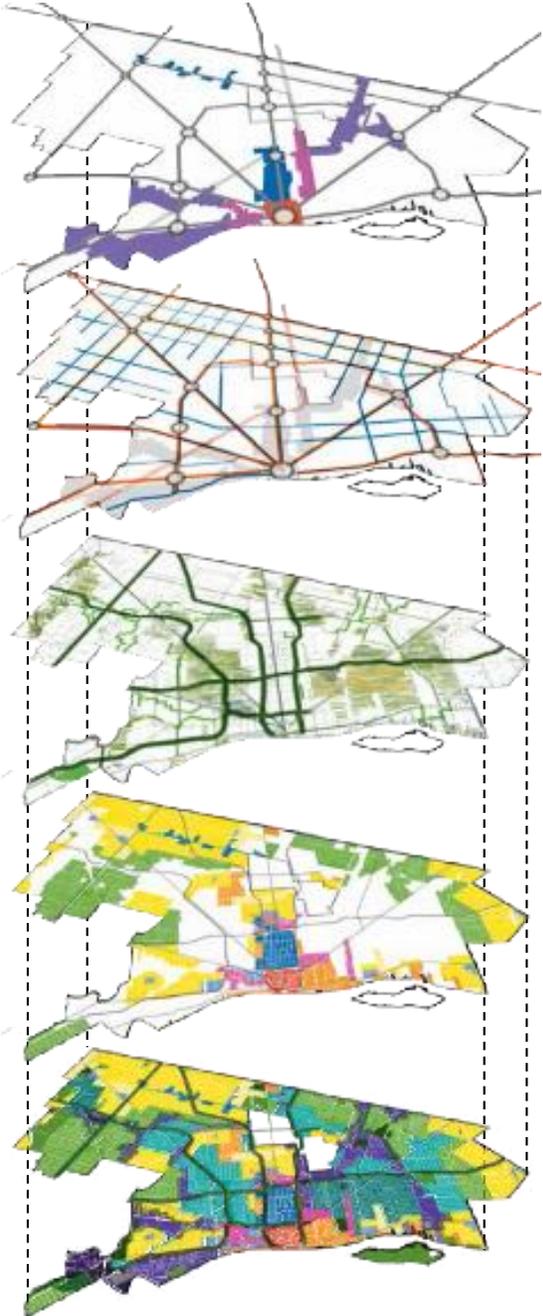
CREATE MULTIPLE
EMPLOYMENT DISTRICTS
ALONG EXISTING CORRIDORS

CONNECT PEOPLE TO
OPPORTUNITY USING MULTI-
MODAL TRANSIT

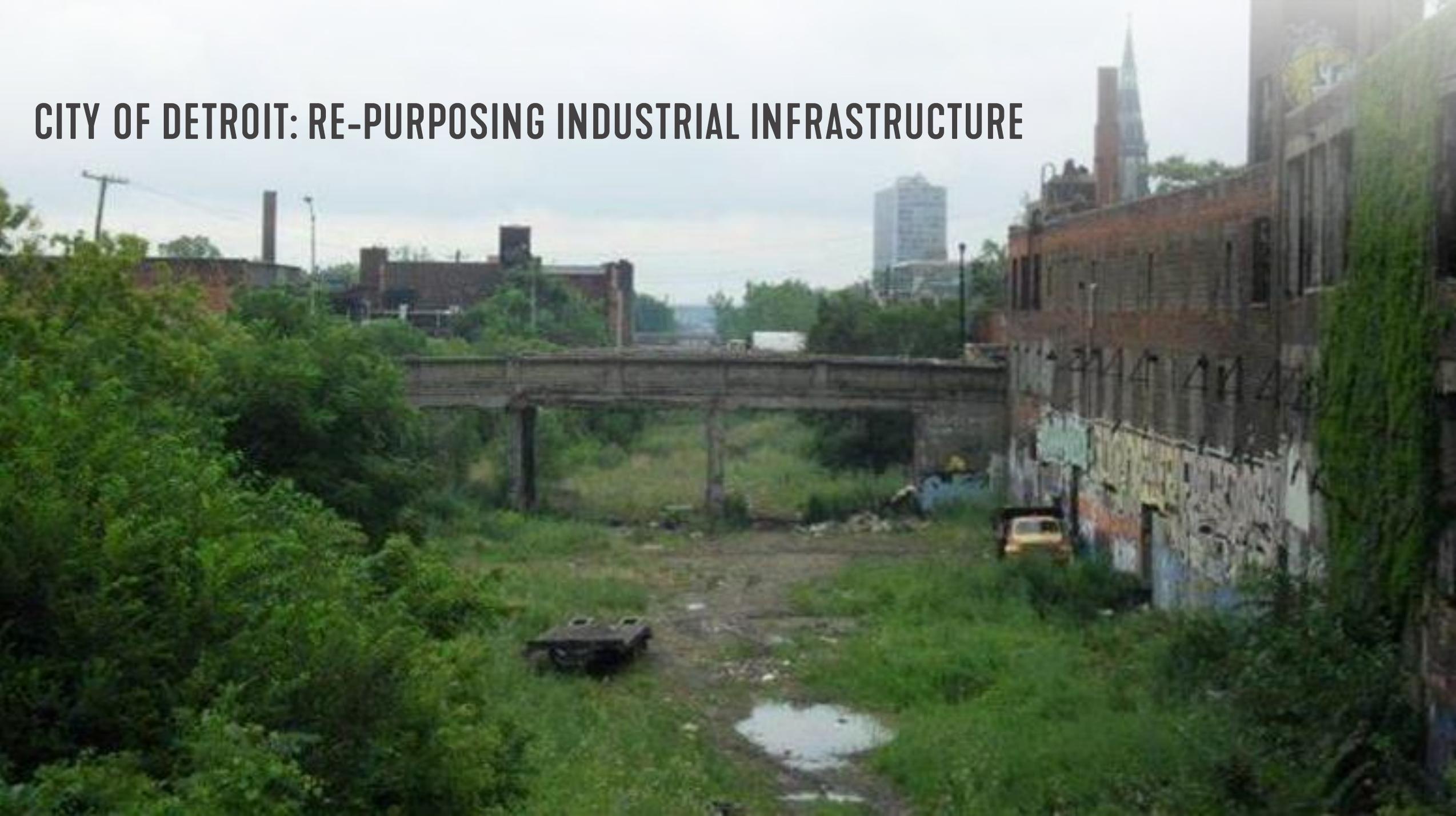
RE-FRAME VACCANT LAND AS
GREENSPACES THAT CONTRIBUTE
TO HEALTH

DEVELOP DISTINCT,
ATTRACTIVE
NEIGHBORHOODS

50 YEAR VISION



CITY OF DETROIT: RE-PURPOSING INDUSTRIAL INFRASTRUCTURE



CITY OF DETROIT: RE-PURPOSING INDUSTRIAL INFRASTRUCTURE



JOE LOUIS GREENWAY

We want to hear from you.



Join us for a Q&A with city officials and the final two consulting firms under consideration to develop the planning framework for the Joe Louis Greenway. This is an opportunity for you to have your questions and concerns addressed.

Saturday, January 19
11 am - 1 pm &
2 pm - 4 pm

Palmer Park
Community Building
1121 Merrill Plaisance St
Detroit, MI 48203

Free and open
to the public.





CITY OF DETROIT: LEADING WITH AUTONOMOUS TRANSIT



- ① Bus Box
- ② Bike Box
- ③ Pedestrian Cross Walk
- ④ Projected Travel Lines
- ⑤ Bike Lane Buffer
- ⑥ Bike Lane Delineator
- ⑦ Directional Bike Lane

CITY OF DETROIT: 100+ MILES NEW PROTECTED BIKE LANES



Kill the Street
Can we move beyond
"complete streets" and
rethink what our streets are
and can be?





Evolving Policy Faster -- <https://app.restreet.com/>

RESTREET

Admin Dashboard

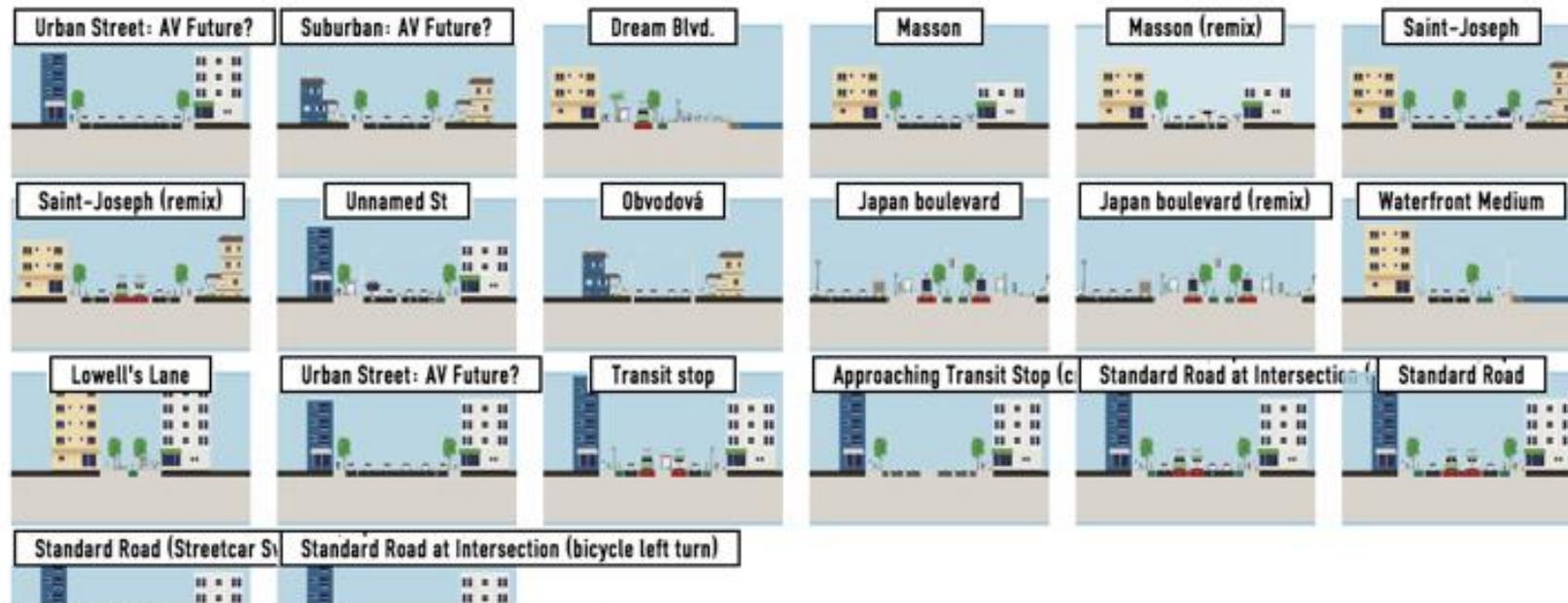
Sign out

RESTREET allows you to recreate streets, share them and capture the feedback from others.

You can check out the "starting streets" we have made below and submit your thoughts.

Or you can create your own account so you can make your own streets and send them to other people to see what they think of them.

We look forward to seeing your thoughts and working together to rethink the future of our streets.



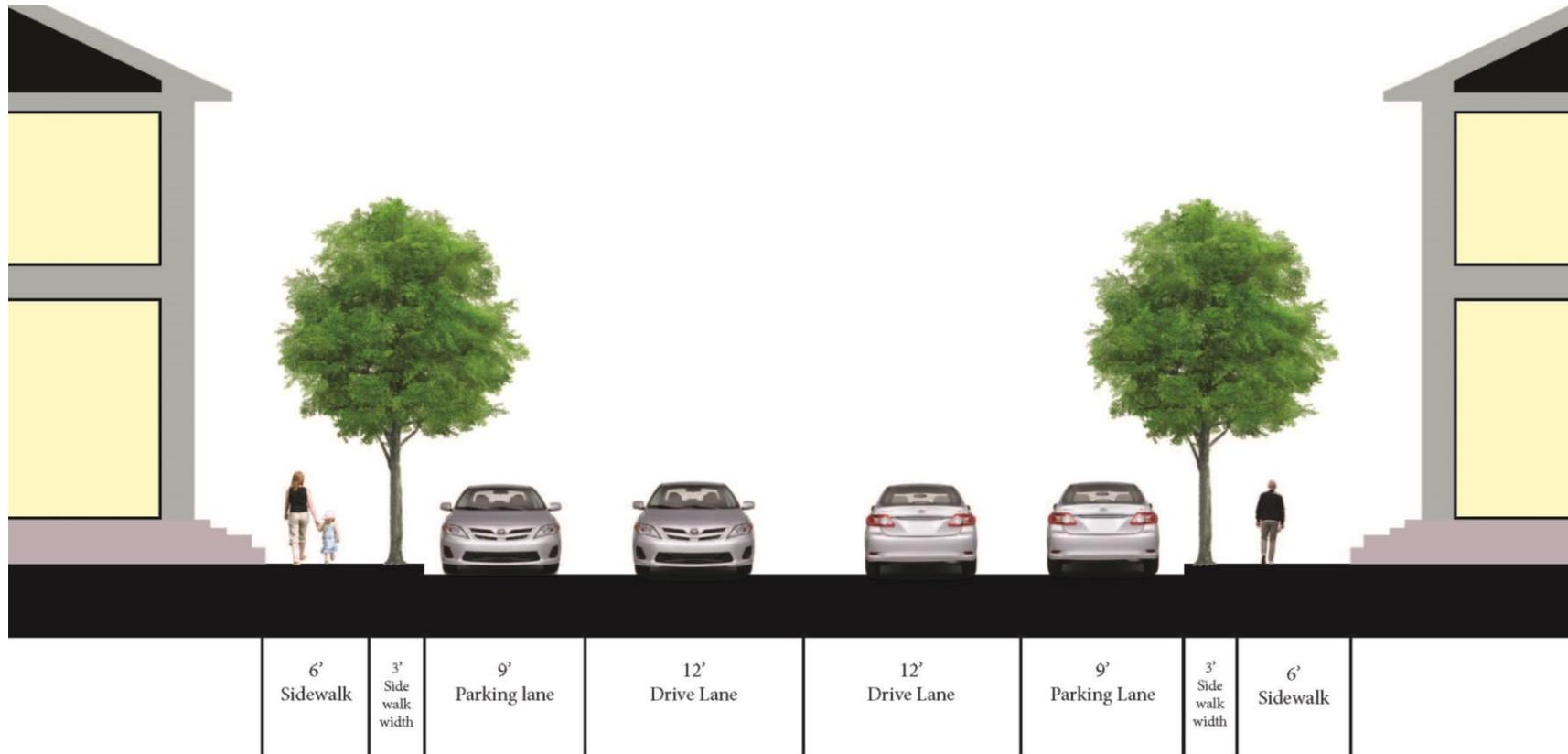
<https://app.restreet.com/#>

Riggs, William, Technology, Civic Engagement and Street Science: Hacking the Future of Participatory Street Design in the Era of Self-Driving Cars (February 1, 2018). Available at SSRN: <https://ssrn.com/abstract=3117731> or <http://dx.doi.org/10.2139/ssrn.3117731>

Can we kill the old idea of the street?

Thin Lanes | Remove Parking | Think Shared

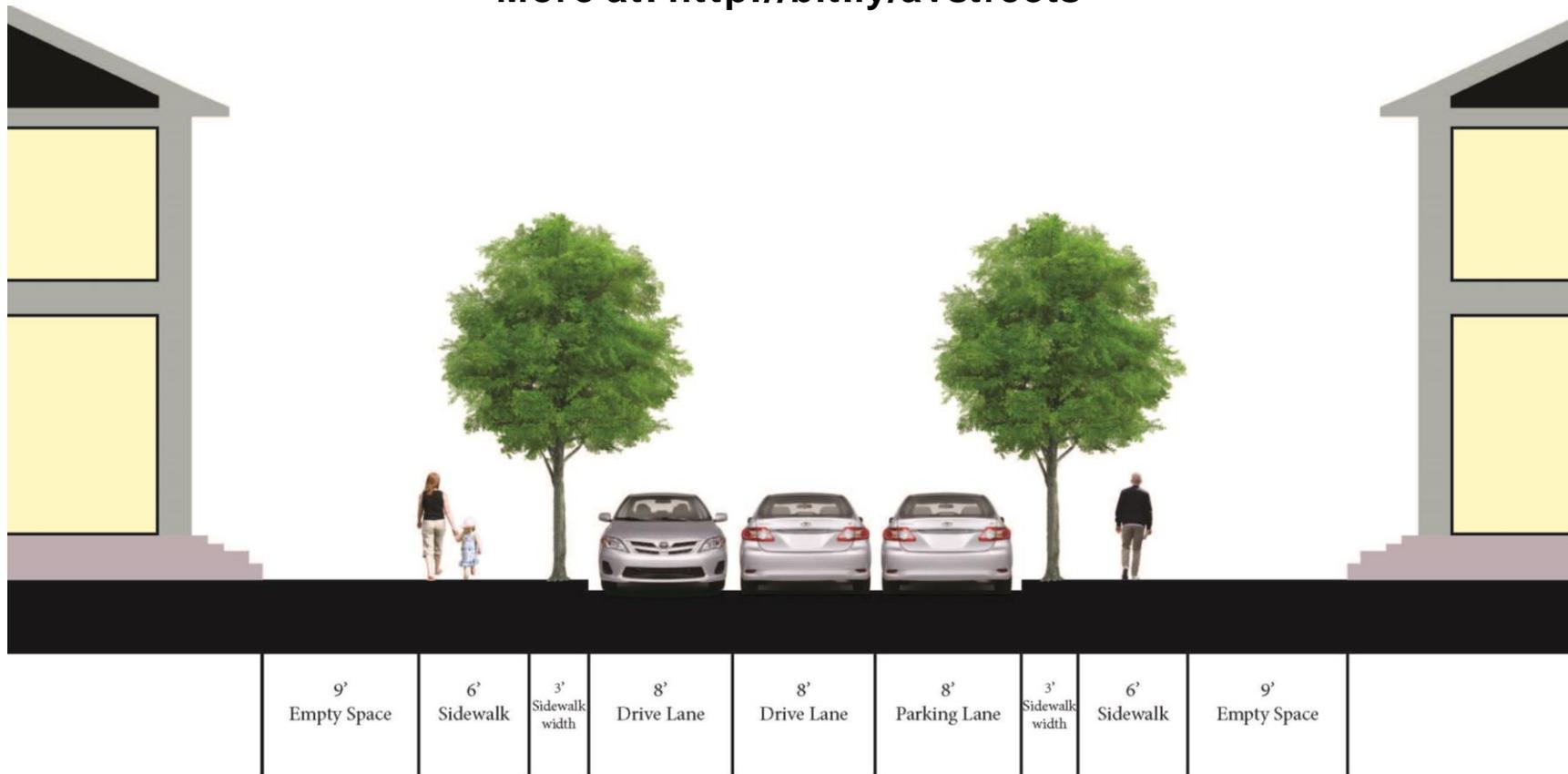
More at: <http://bit.ly/avstreets>



How can we kill the old idea of the street?

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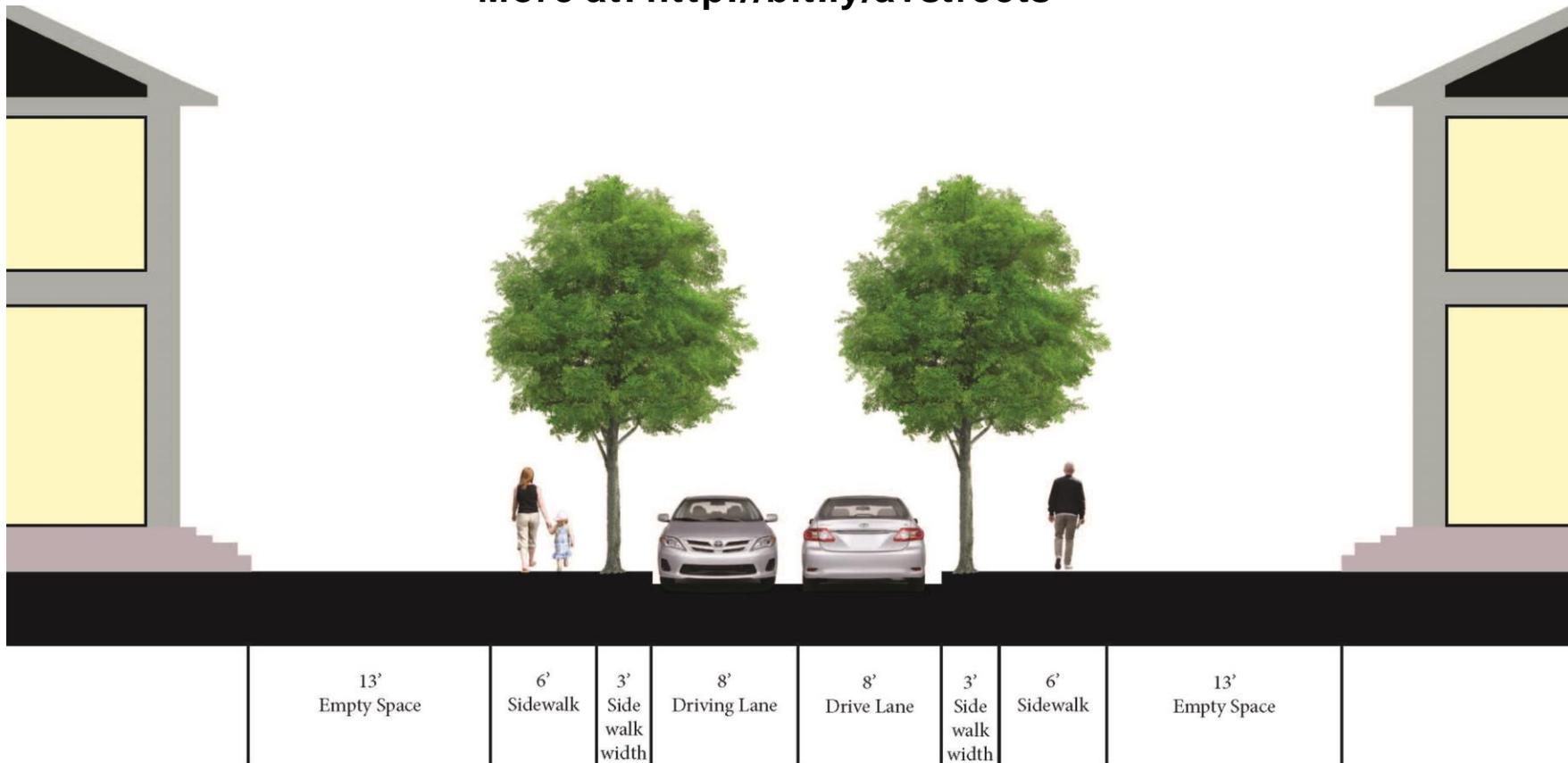
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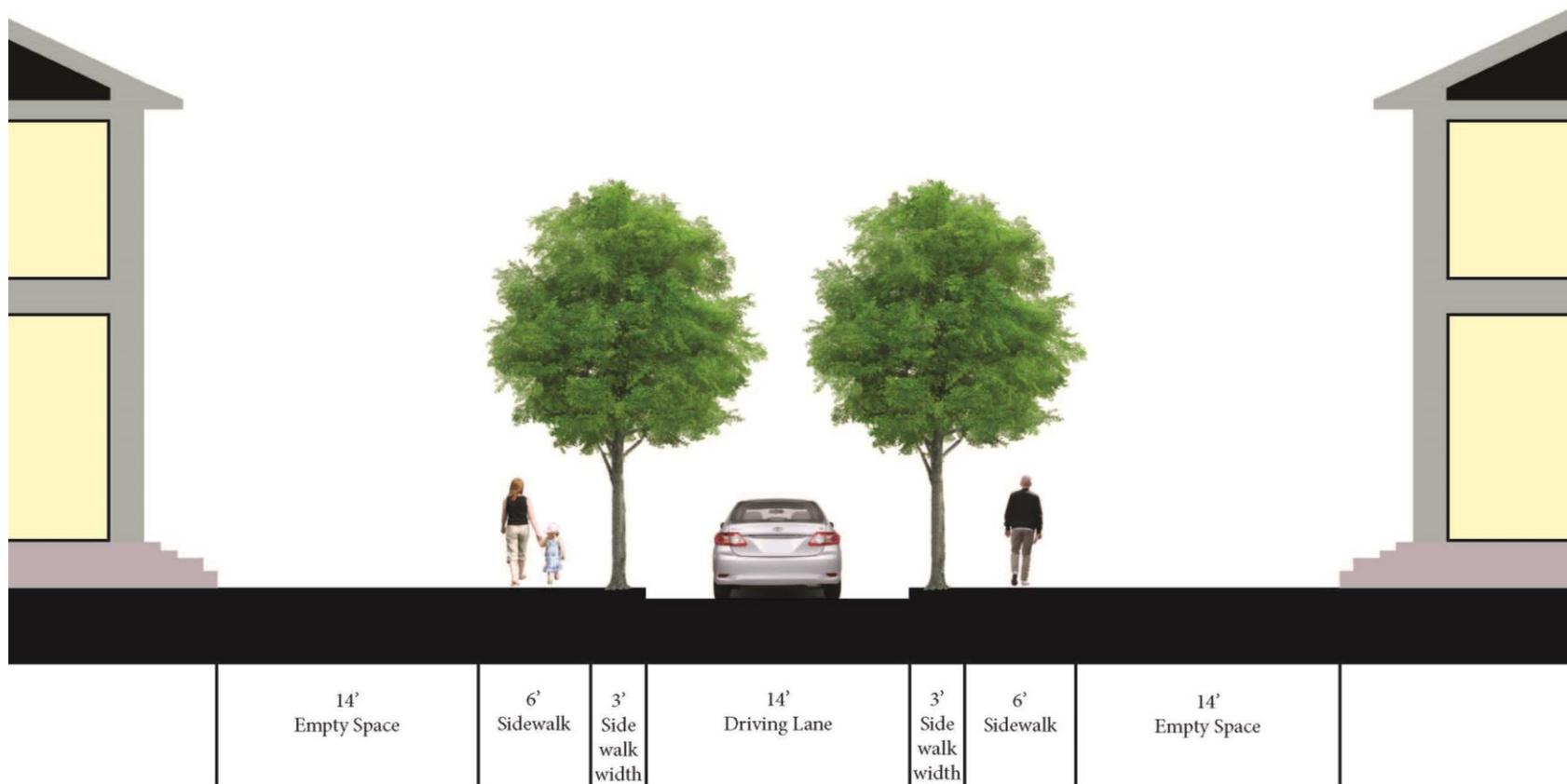
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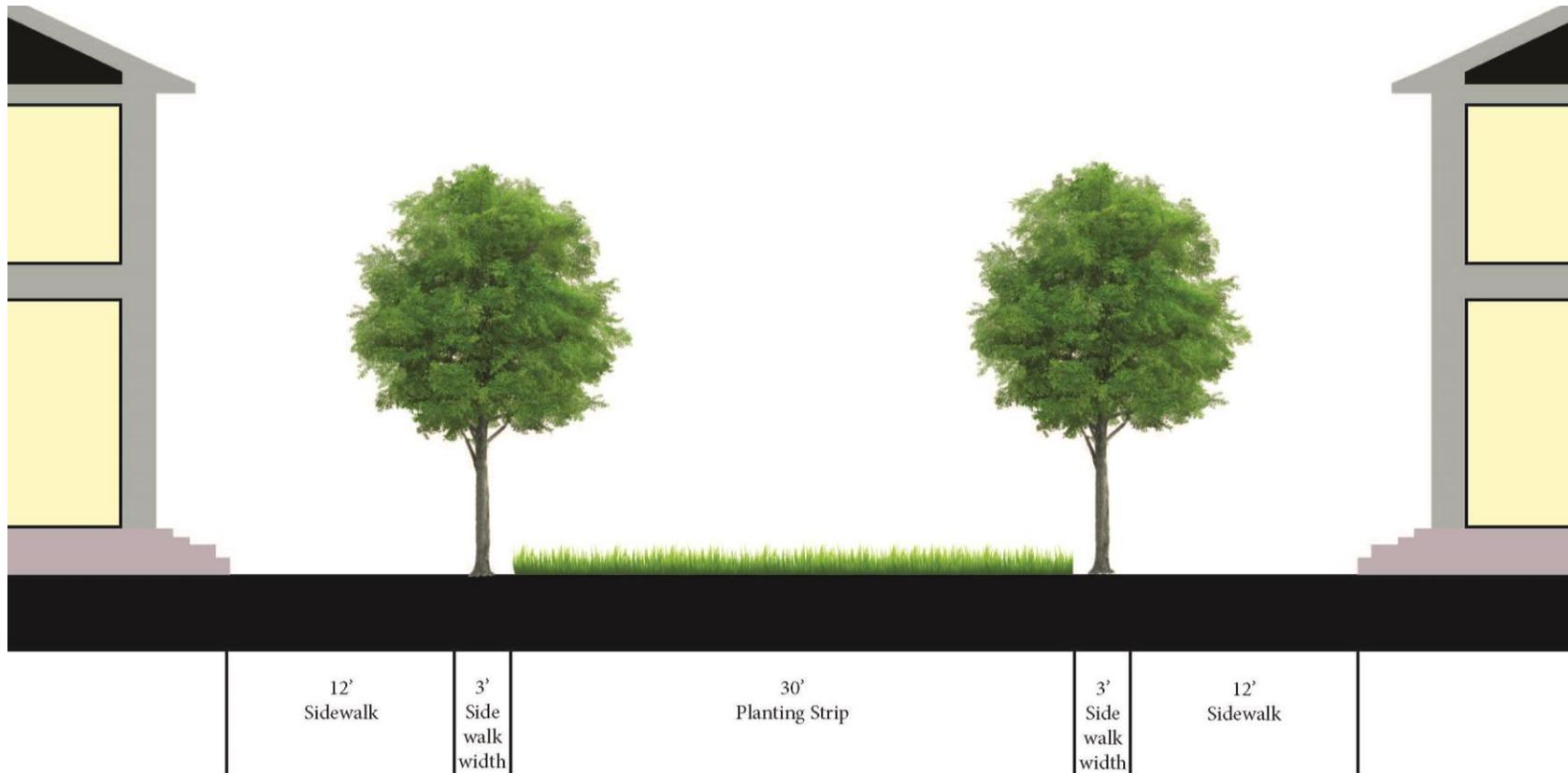
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Disruptive transport
is a planning &
design issue.

The time to
act is now

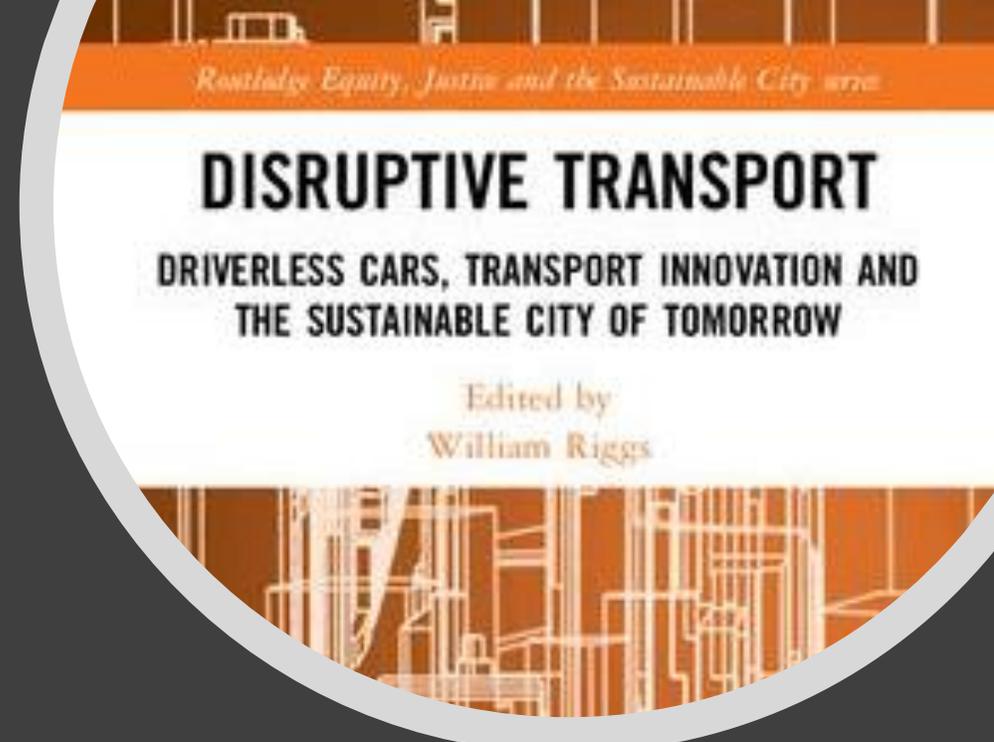
What will you do today?

**Disruptive Transport: Driverless
Cars, Transport Innovation and the
Sustainable City of Tomorrow**

Available from Routledge:
<http://bit.ly/disruptivetransport>

William Riggs, PhD, wriggs@usfca.edu | @billyriggs

Michael Johnson, michael.johnson@smithgroup.com | @johnsonmichaelv





Conversation

William Riggs, Ph.D., AICP, LEED AP

wriggs@usfca.edu | @billyriggs

Michael V. Johnson, PLA, ASLA

Michael.Johnson@smithgroup.com | @johnsonmichaelv

Chair: Matt Bucchin

Website: planning.org/divisions/sustainable

Blog: sustainableplanning.net

Facebook & Twitter: [apascd](https://www.facebook.com/apascd)

Email: info_sustain@planning.org

