University of San Francisco

From the SelectedWorks of William W. Riggs

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Modeling Future Street Options in an AV Future Using Restreet

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Available at: https://works.bepress.com/williamriggs/92/

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Modeling Future Street Options in an AV Future Using Restreet

William Riggs, PhD, AICP, LEED AP

The following exercise deconstructs an urban and a suburban streetscape using the Restreet.com participatory design tool. Restreet was created by William Riggs, Mike Boswell and Ryder Ross in 2016 as a code fork from the Code for America project Streetmix. The idea was to democratize the way we plan streets and synthesize that data for policy and decision-making. The streets depicted show right-of-way needs eroding due to the prevalence of autonomous vehicles creating efficiency or the policy decision to do so in advance of their adoption. The final two slides show the submissions from the over 6,000 users since September and the related summary statistics. All suggest that policy that supports traffic calming and lane reductions to support multimodal transportation might be appropriate in the immediate future.

See the following references for more information:

- Restreet App: https://app.restreet.com/
- CityLab Feature: https://www.citylab.com/transportation/2017/09/an-app-for-democratizing-street-design/540837/
- Appleyard, B., & Riggs, W. (2017). A Conceptual Transportation/Land Use Framework for Livability, (SSRN Scholarly Paper No. ID 3040783). https://papers.ssrn.com/abstract=3040783
- Riggs, W., Boswell, M. R., & Ross, R. (2016). Streetplan: Hacking Streetmix for Community-Based Outreach on the Future of Streets. http://digitalcommons.calpoly.edu/focus/vol13/iss1/14/
- Riggs, W. W., & Boswell, M. R. (2016a). No Business as Usual in an Autonomous Vehicle Future. https://www.planetizen.com/node/85210/
- Riggs, W. W., & Boswell, M. R. (2016b). The Bicyclists' Manifesto for an Autonomous Vehicle Future. https://www.planetizen.com/node/88564/
- Riggs, W. W., Boswell, M. R., & Zoepf, S. (2017). A New Policy Agenda for Autonomous Vehicles: It's Time to Lead Innovation. Planetizen. Retrieved from https://www.planetizen.com/node/91147/

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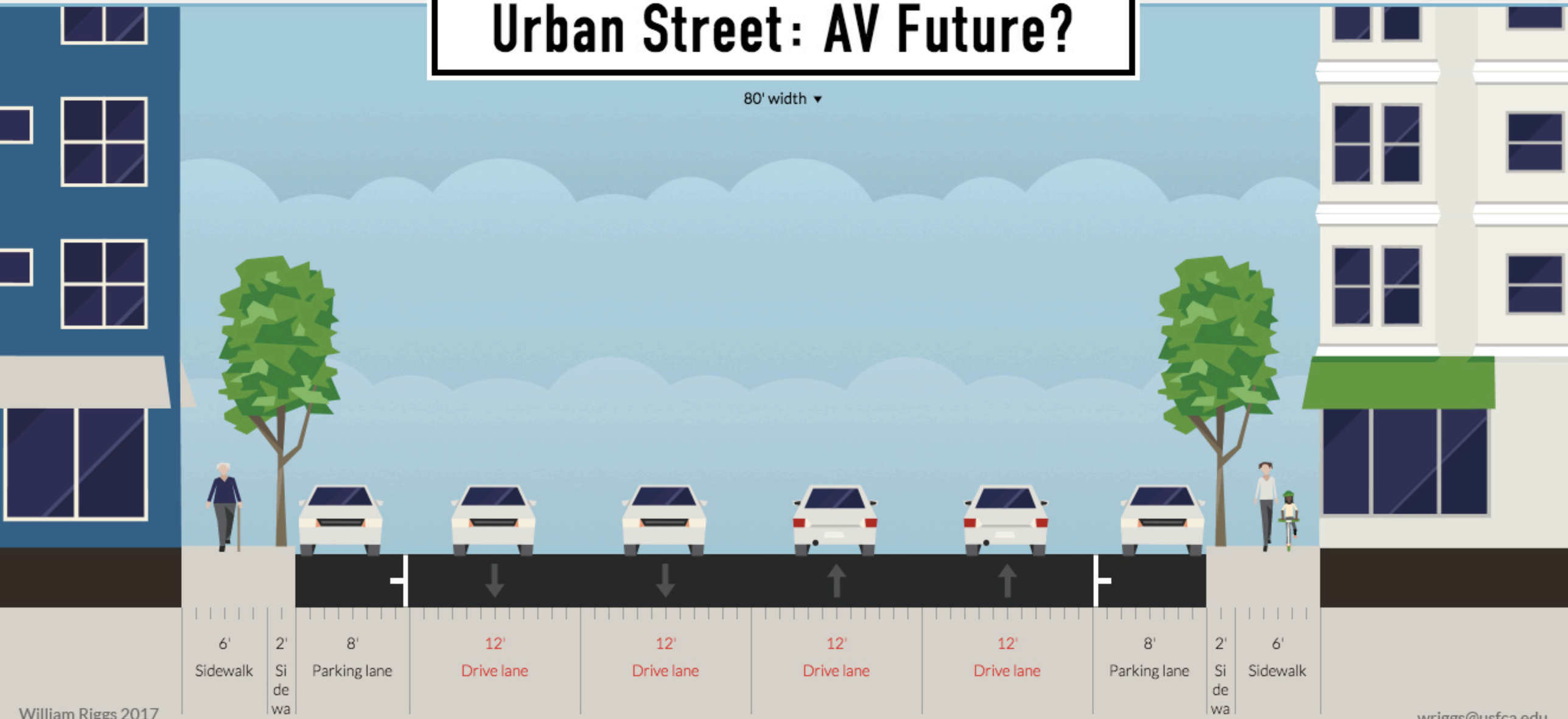
Urban Street: AV Future?

80' width ▾



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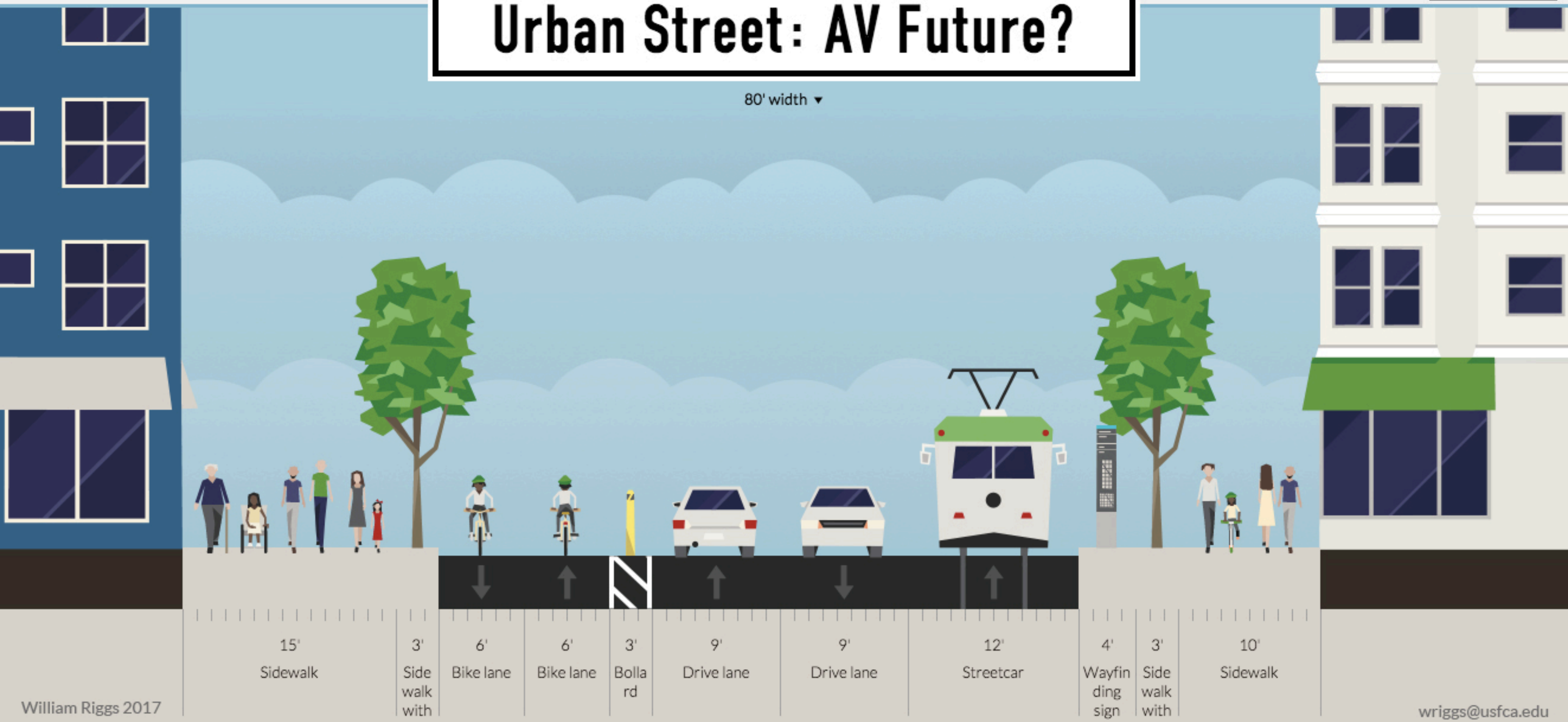
Urban Street: AV Future?

80' width ▾



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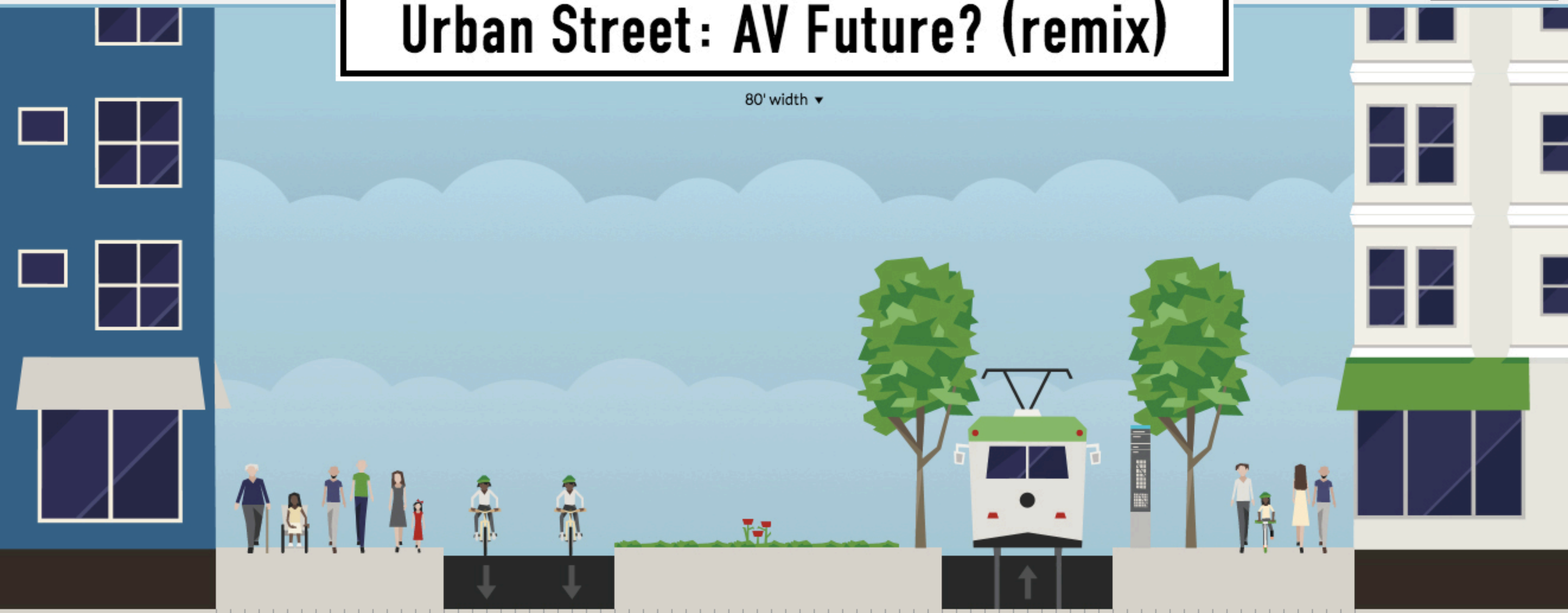
Urban Street: AV Future? (remix)

80' width ▾



16'	6'	6'	20'	3'	12'	4'	3'	10'
Sidewalk	Bike lane	Bike lane	Planting strip	Side walk with	Streetcar	Wayfin ding sign	Side walk with	Sidewalk

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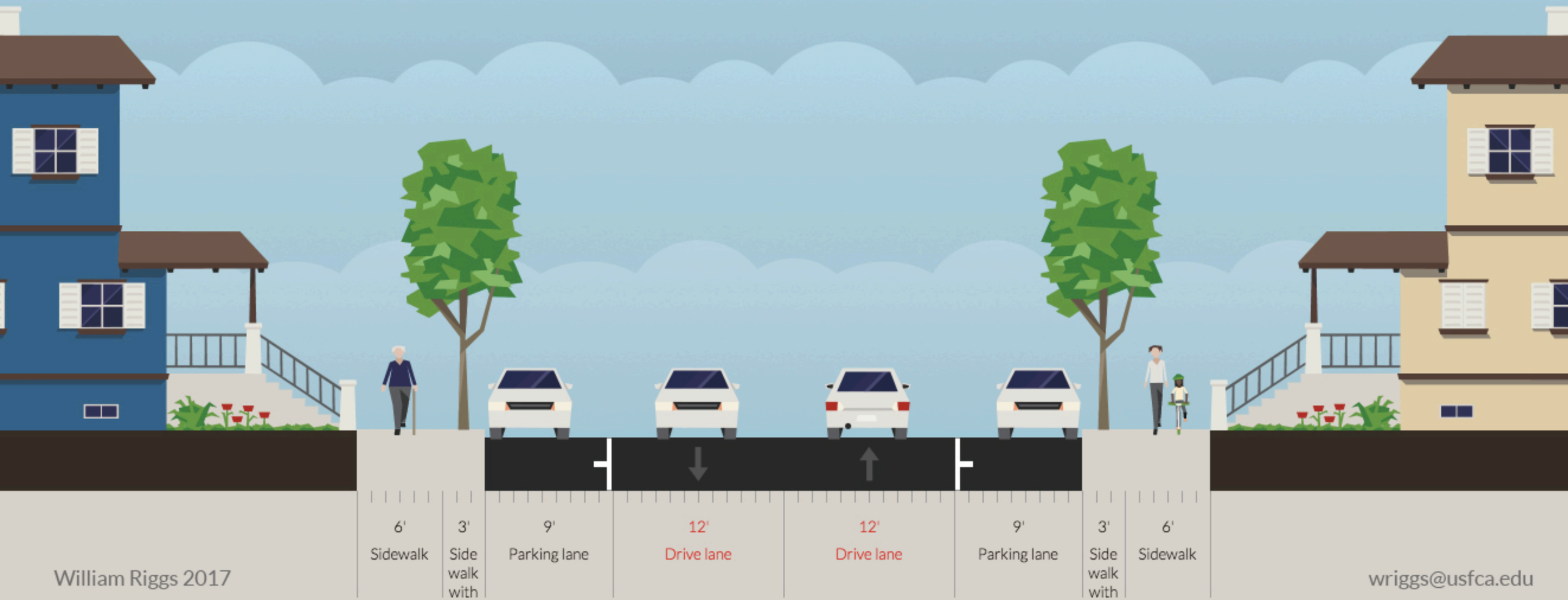
RESTREET · Help ▾

Sign in · Submit Street ▾

Suburban: AV Future?

60' width ▾



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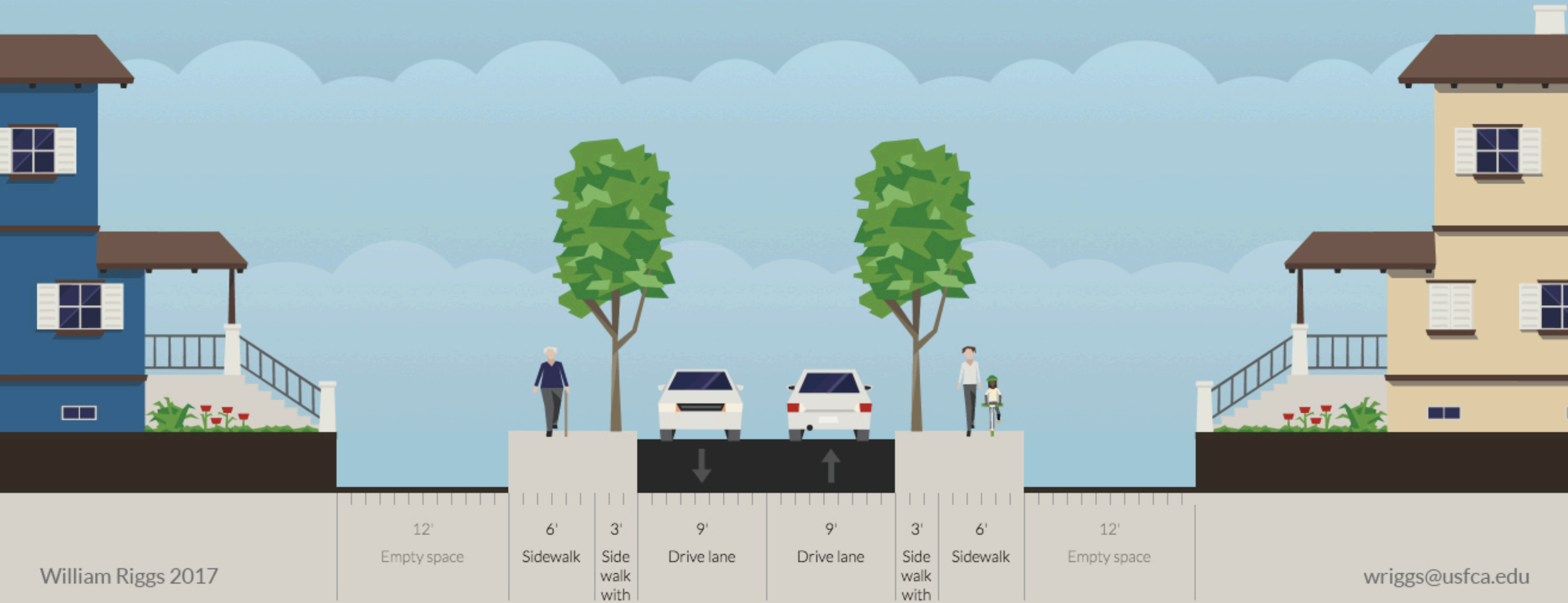
RESTREET · Help ▾

Sign in · Submit Street ▾

Suburban: AV Future? – Reduced

60' width(24' room) ▾



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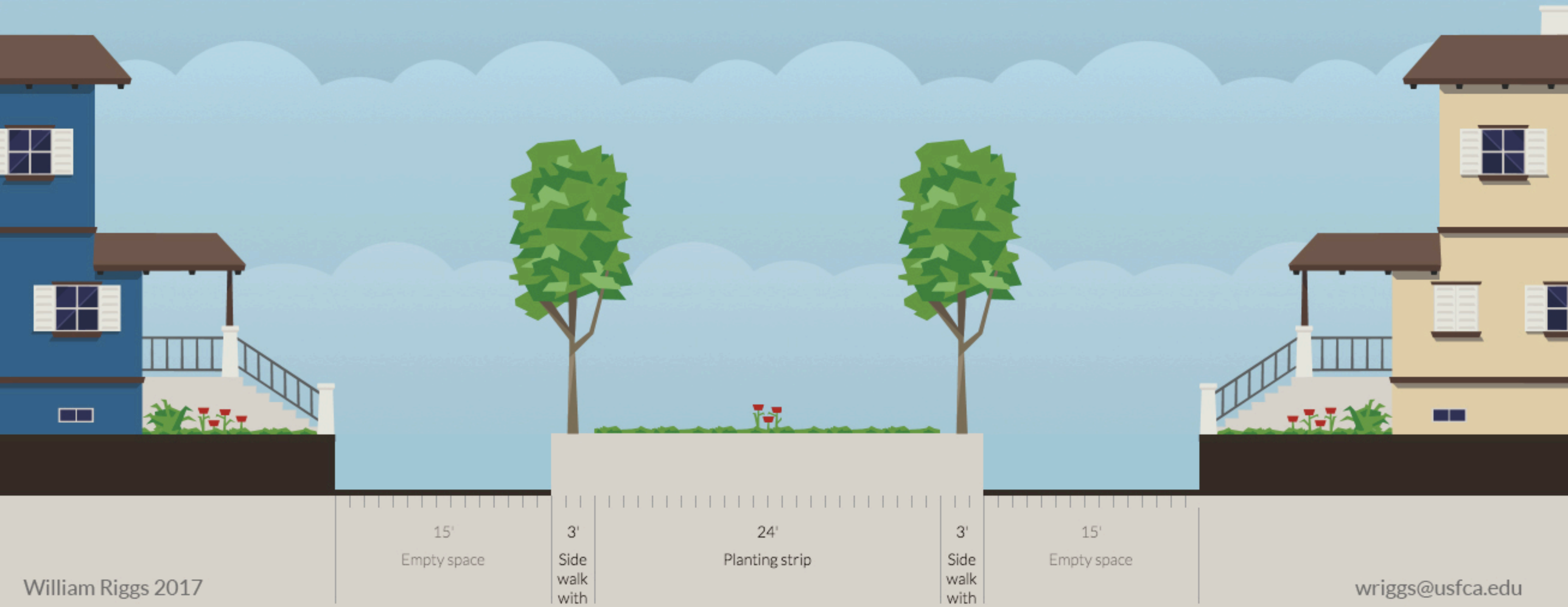
RESTREET · Help ▾

Sign in · Submit Street ▾

Suburban: AV Future? – Flex space

60' width(30' room) ▾



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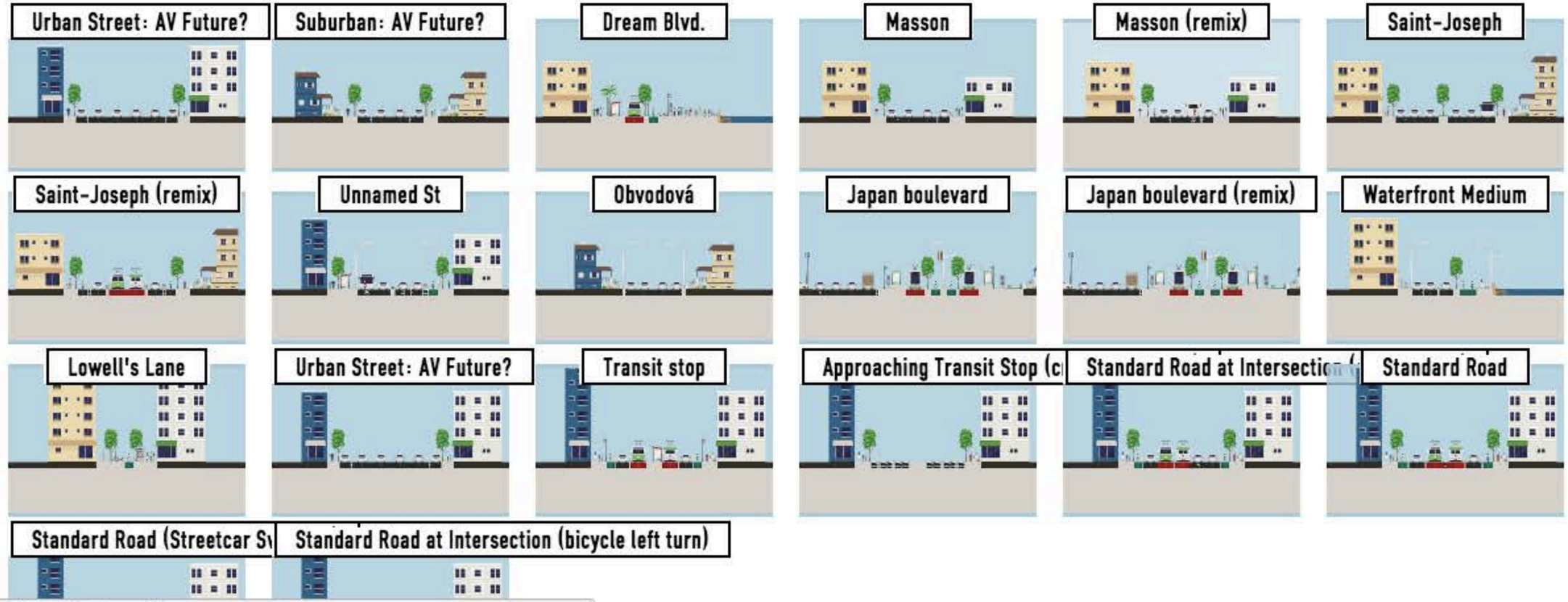
RESTREET Admin Dashboard Sign out

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/#

RESTREET Results for Urban Street: AV Future?

Starting Street

Urban Street: AV Future?

Stats:

Total Submissions: 83
Average Sidewalk Width: 7.684739036144578
Average Drive Lane Width: 10.082251168831169
Streets with 4 Drive Lanes: 5
Streets with 1 Drive Lanes: 7
Streets with 5 Drive Lanes: 3
Streets with 3 Drive Lanes: 2
Streets with 2 Drive Lanes: 53
Streets with 1 Bike Lanes: 14
Streets with 2 Bike Lanes: 51
Streets with 1 Parking Lanes: 16
Streets with 2 Parking Lanes: 13

Submissions:

Urban Street: AV Future?

Submitted 11/06/17
Age 38
Zip 94117

Urban Street: AV Future?

Submitted 11/03/17
Age 40
Zip 94306

Harrison South (Christopher Fox)

Submitted 10/03/17
Age 38
Zip 84408

People first

Submitted 10/20/17
Age 17
Zip 4870

Urban Street: AV Future?

Submitted 10/15/17
Age 38
Zip 20770

Urban Street

Submitted 10/11/17
Age 18
Zip 15213

Harrison Center

Submitted 10/03/17
Age 38
Zip 84408

Harrison South

Submitted 10/03/17
Age 38
Zip 84408

Urban Street: AV Future?

Submitted 10/02/17
Age 32
Zip 95117

Le Grand Boulevard

Urban Street: AV Future?

Prague 6

Urban Street: AV Future?

Urban Street: AV Future?

Urban Street: one-way publ

Urban Street: AV Future?

Urban Street: AV Future?

Urban Street: AV Future?